



Fish Passage Center

Weekly Report #15–9

May 15, 2015

Summary of Events

Water Supply

Precipitation throughout the Columbia Basin has varied between 28% and 117% of average at individual sub-basins over May. Precipitation above The Dalles has been 68% of average over May. Over the 2015 water year, precipitation has ranged between 68% and 102% of average.

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

| Location | Water Year 2015 May 1–14, 2015 | | Water Year 2015 October 1, 2014 to May 14, 2015 | |
|---|-----------------------------------|--------------|---|--------------|
| | Observed (inches) | % Average | Observed (inches) | % Average |
| | Columbia Above Coulee | 0.60 | 40 | 26.8 |
| Snake River above Ice Harbor | 0.80 | 78 | 13.0 | 77 |
| Columbia above The Dalles | 0.76 | 68 | 17.7 | 86 |
| Kootenai | 0.49 | 31 | 27.5 | 102 |
| Clark Fork | 0.54 | 38 | 15.2 | 78 |
| Flathead | 0.46 | 28 | 24.4 | 95 |
| Pend Oreille River Basin above Waneta Dam | 0.48 | 32 | 20.7 | 87 |
| Salmon River Basin | 0.99 | 74 | 16.9 | 80 |
| Upper Snake Tributaries | 1.54 | 117 | 13.6 | 68 |
| Clearwater | 0.80 | 45 | 27.0 | 86 |
| Willamette River above Portland | 0.99 | 56 | 16.9 | 84 |

Snowpack within the Columbia Basin has been well below average. Average snowpack in the Columbia River for basins above the Snake River confluence is 37% of average. For Snake River Basins the average snowpack is 21% of average. And for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 2% of average.

Table 2 displays the May 14th ESP runoff volume forecasts for multiple reservoirs along with the May COE forecasts at Libby and Dworshak. The May 14th ESP forecast at The Dalles between April and August is 62,956 Kaf (72% of average).

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

| Location | May 14, 2015 5-day QPF ESP | |
|--|-------------------------------|------------------------|
| | % Average (1981–2010) | Runoff Volume (Kaf) |
| The Dalles (Apr–Aug) | 72 | 62,956 |
| Grand Coulee (Apr–Aug) | 79 | 44,801 |
| Libby Res. Inflow, MT (Apr–Aug) | 82 92* | 4,828 5,396* |
| Hungry Horse Res. Inflow, MT (Apr–Aug) | 79 | 1,539 |
| Lower Granite Res. Inflow (Apr–July) | 56 | 11,172 |
| Brownlee Res. Inflow (Apr–July) | 45 | 2,481 |
| Dworshak Res. Inflow (Apr–July) | 55 54* | 1,337 1,325* |

* Denotes COE May Forecast

Grand Coulee Reservoir is at 1,248.5 feet (5-14-15) and has drafted 1.4 feet over the last week. Outflows at Grand Coulee have ranged between 73.7 and 112.0 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2422.6 feet (5-14-15) and has refilled 0.4 feet over the previous week. Daily average outflows at Libby Dam have been 13.2–14.5 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3,539.6 feet (5-14-15) and drafted 0.4 feet over the last week. Outflows at Hungry Horse have been 7.5 Kcfs over the last week.

Dworshak is currently at an elevation of 1,588.7 feet (5-14-15) and refilled 3.3 feet over the last week. Outflows have been decreased from 9.5 Kcfs to 1.5 Kcfs over the last week. At the May 13, 2015, TMT, future operations at Dworshak were decided to remain at 1.5 Kcfs through May 15, 2015, followed by a daily ramp up to 5 Kcfs, 7.5 Kcfs, then down to 5.0 Kcfs, and back to minimum outflows of 1.5 Kcfs on May 19th, 2015.

The Brownlee Reservoir was at an elevation of 2,059.1 feet on May 14, 2015, and has refilled 3.5 feet over the last week. Outflow from Hells Canyon have ranged between 6.7 and 8.7 Kcfs over the last four days.

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 55.5 Kcfs over the last week and 51.6 Kcfs between April 3 and May 14, 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 166.9 Kcfs and Priest Rapids Dam flows were 105.3 Kcfs. Between April 10 and May 14, flows at McNary Dam averaged 166.7 Kcfs and Priest Rapids Dam flows were 108.6 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. On April 28th the “test-like” conditions, where spill alternates between 30% instantaneous and 45 Kcfs/Gas Cap, were initiated at Ice Harbor Dam. The net effect of this operation is a decrease in spill levels during the “test-like” period.

| Project | Spill Level Day/Night |
|------------------|--|
| Lower Granite | 20 Kcfs/20 Kcfs |
| Little Goose | 30%/30% |
| Lower Monumental | Gas Cap/Gas Cap |
| Ice Harbor | April 3-27: 45 Kcfs/Gas Cap April 28–June 20: 30%/30% vs. 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 (the testing of two spill levels at John Day Dam began on April 28th).

| Project | Spill Level Day/Night |
|------------|---|
| McNary | 40%/40% |
| John Day | April 10-April 28: 30%/30% April 28–June 15: 30%/30% and 40%/40% |
| The Dalles | 40%/40% |
| Bonneville | 100 Kcfs/100 Kcfs |

Total dissolved gas (TDG) measurements exceeded the waiver limits (115%) at the Ice Harbor Dam forebay monitor May 9 through May 13, 2015. At Ice Harbor Dam, the forebay gage often reads higher than the upstream gage and higher than the downstream gage at the project, and it is unlikely that these occurrences are related to spill. Spill at Lower Monumental was 23.3 Kcfs early last week and was increased slightly to 23.7 Kcfs late in the week (May 14, 2015). **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, Bonneville and Rock Island dams over the past week. Over the past week one percent of the sample was observed with minor signs of GBT (at Little Goose Dam on 5/11 and at Rock Island Dam on 5/12 and 5/14). These levels are far below the 15% criteria for action to be taken.

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 and steelhead juveniles. This week's daily average passage index for yearling Chinook was nearly 50,000 per day, which is a decrease compared to last week's daily average passage index of 63,000 per day. Steelhead passage increased this week, when compared to the previous week. This week's daily average passage indices were about 66,000 for steelhead compared to 19,000 last week. Coho indices declined this week with the average daily index for this week at 9,900 compared to 16,500 last week. Sockeye passage remained relatively low this week, but has continued to increase since May 5th when passage began to increase. The passage index for sockeye over the last week averaged about 1,500 compared to 400 per day last week. Subyearling Chinook passage decreased this week. This decrease in passage, from an average index of 10,000 per day down to 3,000 per day, is a result of the April 27th release of subyearling fall Chinook tules from Spring Creek NFH completing their out-migration through the BON pool. Finally, no Pacific lamprey juveniles were encountered in this week's samples.

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 18,000 fish per day, which is an increase over last week's daily average passage index of about 11,400. Steelhead passage increased this week, when compared to the previous week. This week's daily average passage index for steelhead was about 5,800 per day, whereas that for last week was just over 3,700 per day. Coho and sockeye passage also increased this week. This week's daily average

passage indices for these two species were about 880 and 2,200 per day, respectively. Last week's passage indices were about 860 for coho and 700 for sockeye. Subyearling Chinook collections were very low in this week's samples. Finally, Pacific lamprey macrophthalmia were encountered most days this week, with a daily average collection of about 100 per day. This is an increase over last week's daily average collection of 70 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 108,000 fish per day. This is a decrease compared to last week's daily average passage index of about 133,000 per day. Steelhead and coho passage also decreased this week when compared to the previous week. This week's daily average passage index for steelhead was about 30,000 per day. Last week's daily average passage index were about 35,000 for steelhead. This week's daily average passage index for coho was about 3,000 per day. Last week's daily average passage indices were about 1,400 for coho. Sockeye passage decreased this week. This week's daily average passage index for sockeye was about 3,200 whereas that for last week was nearly 5,300 per day. Subyearling Chinook were also encountered in this week's samples but in relatively low numbers. Finally, no lamprey juveniles were encountered in this week's samples.

After high passage numbers at Lower Granite Dam (LGR) from April 25th to April 27th, yearling Chinook and steelhead passage decreased substantially for about 8 to 10 days. These decreases in passage coincide with decreasing flows in the Snake River and decreased outflows from Dworshak Dam. Outflows from Dworshak Dam were decreased from 9.5 Kcfs to 7.5 Kcfs on April 24th and again on May 2nd to about 5 Kcfs. After continued low passage numbers at LGR, the Salmon Managers requested that outflows from Dworshak Dam be increased to 9.5 Kcfs for four days, at the same time that flows in the Snake River were expected to increase. The requested operation of 9.5 Kcfs outflows began at about 0200 on May 5th and ran through May 9th when outflows were gradually decreased to 5 Kcfs and then to 2.5 Kcfs. As a result of the increased outflows from Dworshak Dam and

increasing flows in the Snake River, passage numbers for yearling Chinook and steelhead increased for several days. The passage indices for yearling Chinook and steelhead on May 7th were nearly 112,000 and 46,000, respectively. These passage indices are much larger than the previous seven days, which averaged about 32,500 per day for yearling Chinook and 22,500 for steelhead. Passage indices peaked during the higher discharge from Dworshak which continued from May 5th to May 8th. Indices for yearling Chinook and steelhead declined substantially after that period. In response to the higher discharge period from Dworshak indices for steelhead and Chinook averaged 70,000 and 37,000 respectively. After the flows were reduced from Dworshak Dam, indices for steelhead and yearling Chinook averaged 34,000 and 27,000 respectively.

Passage of subyearling Chinook fry and coho at LGR increased this week. This week's daily average passage indices for these species were about 500 and 2,000 per day, respectively. Last week's daily average passage indices were 230 for subyearling Chinook and 775 for coho. After several weeks of zero sockeye/kokanee in the sample, LGR began encountering sockeye on May 2nd. All of the sockeye encountered up until May 12th were unclipped and likely of wild/natural origin, as hatchery sockeye releases into Redfish Lake Creek began last week. On May 13th all sockeye in the sample were clipped indicating hatchery origin fish had begun arriving. And on May 14th clipped sockeye made up nearly 90% of the sample. The daily average passage index for sockeye this week was about 450 per day. Finally, no lamprey juveniles were encountered in this week's samples. PIT-tag detections in the bypass at Lower Granite Dam of 623 sockeye beginning on May 10th confirm that the clipped sockeye were released at Red Fish Lake Trap on May 5th and May 6th.

Sampling at Little Goose Dam (LGS) was limited to a 24-hour sample every other day from April 2nd to April 30th. Little Goose Dam began collecting fish for transportation on May 1st and, therefore, collections at LGS are daily for the rest of the season. Yearling Chinook continued to dominate the samples at LGS this week. The daily average passage index for yearling Chinook at LGS was about 49,000 fish per day this week, which is an increase over last week's daily average of nearly 43,500 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 36,600 fish per day whereas that for last week was about 27,000 per day. The daily average passage indices appeared to peak during and after the increased outflows from Dworshak Dam. The yearling Chinook indices reached 60,000 per day on May 7th and May 10th while the steelhead index peaked at 59,000 on May 9th. Coho passage also increased this week, with a daily average passage index of about 850 fish per day. Sockeye were encountered on five days this week compared to only one day (May 6th), last week. Finally, small numbers of subyearling Chinook were encountered this week and no Pacific lamprey macropthalmia were encountered.

Sampling at Lower Monumental Dam (LMN) was limited to a 24-hour sample every third day from April 4th to April 13th and every other day from April 15th to May 1st. At 1500 on May 1st, LMN began collecting fish for transportation and, therefore, collections at LMN are daily for the rest of the season. This week's samples at LMN were dominated by yearling Chinook, with a daily average passage index of nearly 75,000 fish per day, which is an increase over last week's daily average passage index of nearly 54,600 yearling Chinook per day. Steelhead passage at LMN also decreased slightly this week when compared to last week. This week's daily average passage index for steelhead at LMN was nearly 27,000 per day, whereas that for last week was nearly 30,000 per day. Indices for yearling Chinook and steelhead also peaked coincident with the recent flow increases from Dworshak Dam. The yearling Chinook indices peaked at 141,000 on May 9th and the steelhead index peaked at 41,000 also on May 9th. Coho passage also increased this week, when compared to the previous week. This week's daily average passage index for coho at LMN was about 1,700, whereas that for last week was less than 200 per day. Increasing numbers of subyearling Chinook were sampled this week at LMN with a daily index of 3,300 reported for May 14th. Three unclipped sockeye, which are likely kokanee, were sampled in the past week, whereas no lamprey juveniles were encountered in this week's samples at LMN.

This week's samples at Rock Island Dam (RIS) continued to be dominated by yearling Chinook, with a daily average passage index of about 380 fish per day. This is a decrease compared to last week's daily

average passage index of about 520 yearling Chinook per day. Steelhead passage increased this week when compared to last week. This week's daily average passage index for steelhead at RIS was about 350 per day, whereas that for last week was about 200 per day. Coho passage continued to be on a gradual upward trend. The daily average passage index for coho this week was about 220 fish per day. Last week's daily average passage index was 60 fish per day. Sockeye passage increased this week compared to last week. Finally, three lamprey juveniles were encountered in this week's samples a RIS.

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. Due to increased collections of subyearling Chinook fry (presumably fall Chinook), sampling at GRN was suspended from April 22nd through April 29th. The SMP received increased handling quotas for subyearling Chinook at GRN from NOAA and trapping resumed on April 29th for the April 30th sample. Since April 30th, collections of yearling Chinook, steelhead, and subyearling Chinook have been very low. However, collections of yearling Chinook increased to over 200 on May 14th and at the same time collections of subyearling Chinook also increased to 60. Increased collections appear to have occurred as flows in the Grande Ronde River increased from 2 kcfs to nearly 3 kcfs May 13th and May 14th.

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 up through last week in an effort to reduce handling of listed hatchery stocks. The reduction in sampling effort involved fishing in an area of the river where the trap was less efficient and reducing the sample period to 12 hours per day, instead of the intended 24 hours. This week sampling was increased to 24 hours per day. Collections this week were relatively similar for yearling Chinook and steelhead. This week's daily average collections were 40 for yearling Chinook and about 28 for steelhead. These are both decreases from last week's daily average collections of about 173 and 118 per day, respectively. Of the yearling Chinook that

were collected this week, approximately 75% were known to be hatchery origin. The trap encountered its first sockeye of the season in the May 4th sample. This single sockeye smolt was clipped, indicating it was from the recent releases of hatchery sockeye to Redfish Lake Creek. In the past week sockeye collections increased to a maximum of 26 fish on May 13th. This trap will likely maintain some level of sampling effort over the next week or so.

The Snake River Trap at Lewiston (LEW) is located at river kilometer 225 and operated by Idaho Department of Fish and Game. After a period of limited sampling (April 23–24) and suspended sampling (April 25–26), sampling at LEW has been under normal conditions since April 26th for the April 27th sample. Subyearling Chinook predominated in this week's samples at LEW. This week's daily average collection for subyearling Chinook was about 104 per day, which is an increase from last week's daily average collection of about 44. This week's daily average collection for steelhead was about 96 per day, which is a decrease from last week's daily average collection of about 590. The daily average collection for yearling Chinook at LEW was about 12 fish per day, which is also a decrease over last week. The first sockeye of the season was encountered in the April 30th sample. Small numbers of sockeye have been encountered in the past two weeks with the highest number collected on May 8th when 8 sockeye smolts were counted. Finally, a few coho were collected at LEW this week.

The Imnaha River Trap (IMN) is located at river kilometer 7 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 May 8th. Over the last week of available data (May 2–May 8), collections at IMN have been dominated by steelhead, with a daily average collection of about 750 fish per day. This is an increase over the daily average collection from the previous week of data (April 25–May 1), which was about 630 per day. Since May 2nd, approximately 70% of the steelhead collection at IMN has been of known hatchery origin. Yearling Chinook passage decreased substantially over

the May 2nd through May 8th period, when compared to the previous 7-day period. From May 2nd to May 8th, the daily average yearling Chinook collection was about 320, whereas that for the April 25th through May 1st period was about 640 per day. For the period of April 25–May 1, the yearling Chinook catch at IMN was about 71% known hatchery origin, whereas that for the May 2nd to May 8th period was only 66%. This decrease in known hatchery origin yearling Chinook indicates that recent hatchery releases upstream of IMN have mostly moved through the system, therefore explaining the decrease in yearling Chinook passage over the same period.

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.

Approximately 3.1 million subyearling fall Chinook juveniles were scheduled for release into the Snake River Zone this week. These fall Chinook juveniles were released from Pittsburg Landing Acclimation Facility on the Snake River and just below Hells Canyon Dam. No other new releases were scheduled for this zone this week.

Approximately 1.67 million subyearling fall Chinook juveniles are scheduled for release into the Snake River Zone over the next 2 weeks. Of these 1.67 million, about 13% were scheduled for release from Lyons Ferry Hatchery, which is located between Little Goose and Lower Monumental dams. The remaining 87% were scheduled to be released above Lower Granite Dam, into the Clearwater, Snake, and Grande Ronde rivers. There are no other releases scheduled for this zone over the next 2 weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. 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.

The only new releases that were scheduled for this zone this week were of subyearling fall Chinook and subyearling summer Chinook. In all, about 19,750 subyearling fall Chinook were scheduled for release this week. These releases were scheduled to take place directly to the Columbia River above McNary Dam (13%) and in the Yakima (86%) and Wenatchee (1%) rivers. The subyearling summer Chinook releases were expected to total only 450 fish and were split between the Methow (50%) and Okanogan (50%) rivers. All of these releases are part of the WDFW Cooperative program.

There are two releases scheduled for this zone over the next 2 weeks. The first of these releases is of about 4,000 subyearling fall Chinook to the Columbia River above McNary Dam. The other release is of about 484,000 subyearling summer Chinook from Wells Hatchery that is scheduled to begin on or around May 25th.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were only two new releases scheduled for this zone this week. The first of these releases was a release of about 600,000 subyearling fall Chinook to the Umatilla River that was scheduled to begin on or around May 14th. The other release was of about 12,500 winter steelhead to Hood River that was also scheduled to begin on or around May 14th. There are no new releases scheduled for this zone over the next 2 weeks.

Adult Passage

Adult counts at Bonneville Dam have been updated through May 14th. Daily adult spring Chinook counts at Bonneville Dam ranged from 2,181 to 3,770 salmon per day. As of May 14th, a total of 181,981 spring Chinook have been counted at Bonneville Dam. In 2014, 153,634 adult spring Chinook were counted at Bonneville Dam for the same time period. The 2015 adult spring Chinook count at Bonneville Dam is about 1.2 times greater than the 2014 count and 1.7 times greater than the 10-year average count of 105,269. The 2015 spring Chinook jack count of 6,662 is about 42.1% of the 2014 count of 15,835 and 50.3% of the 10-year average count of 13,241. At Willamette Falls, 29,199 adult spring Chinook have been counted so far this year. In 2014, 8,307 adult spring Chinook were counted at Willamette Falls. This year's count is about 3.5 times greater than the 2014 count and 2.8 times greater than the 10-year average count of 10,541. As of May 14th, a total of 157,504 adult spring Chinook have been counted at The Dalles Dam and 121,088 have been counted at McNary Dam. The Dalles Dam 2015 adult spring Chinook count is 1.4 times greater than 2014 and 2.2 times greater than the 10-year average count. The 2015 McNary Dam adult spring Chinook count is about 1.6 times greater than the 2014 count and 2.7 times greater than the 10-year average count.

The 2015 Bonneville Dam adult steelhead count of 4,500 has 24 more fish than the 2014 count of 4,476 and has 378 more fish than the 10-year average count of 4,122. The 2015 Bonneville Dam adult wild steelhead count of 2,351 is about 1.8 times greater than the 2014 count of 1,254 and 2 times greater than the 10-year average count of 1,152. At upriver sites, adult steelhead continue to move through the hydro system to reach their tributaries and spawning sites. The majority of these fish over-wintered in pools and will complete their trip to their spawning grounds in March through early May. Daily adult steelhead counts at Lower Granite Dam ranged from 13 to 34 adults per day last week. This year's Lower Granite steelhead count of 9,126 is about 1.2 times greater than the 2014 count of 7,353 and has 425 more fish than the 10-year average count of 8,701. The 2015 Lower Granite Dam

adult wild steelhead count of 4,297 is 1.3 times greater than the 2014 count of 3,391 and is about 1.4 times greater than the 10-year average count of 3,176. At Willamette Falls, the 2015 count for steelhead was 5,002 as of May 9th. This year's steelhead count is about 70.6% of the 2014 count of 6,383 and about 58.9% of the 10-year average count of 8,494.

Hatchery Releases Last Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|--|--------------------------|---------|------|-------|------------------|----------|----------|---|--------------------|
| From: | 5/2/2015 | | to | | 05/15/15 | | | | |
| 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 | 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 | 05-04-15 | 05-05-15 | Redfish Lake Creek | Salmon River (ID) |
| Idaho Dept. of Fish and Game | Springfield Hatchery | SO | UN | 2015 | 210,000 | 05-06-15 | 05-07-15 | Redfish Lake Creek | Salmon River (ID) |
| Idaho Dept. of Fish and Game Total | | | | | 420,000 | | | | |
| Nez Perce Tribe | Lyons Ferry Hatchery | CH0 | FA | 2015 | 420,000 | 05-11-15 | 05-11-15 | Pittsburg Landing Acclim Pond | Snake River |
| Nez Perce Tribe Total | | | | | 420,000 | | | | |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | CH0 | FA | 2015 | 1,000,000 | 05-11-15 | 05-11-15 | Hells Canyon Dam | Snake River |
| 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 | 160,000 | 05-08-15 | 05-08-15 | Big Canyon Acclim. Pd (Grande Ronde) | Grande Ronde River |
| Oregon Dept. of Fish and Wildlife Total | | | | | 1,280,000 | | | | |
| 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 | | | | | 100,000 | | | | |
| Umatilla Tribe | Umatilla Hatchery | CH0 | FA | 2015 | 600,000 | 05-14-15 | 05-19-15 | Reith Bridge | Umatilla River |
| Umatilla Tribe Total | | | | | 600,000 | | | | |
| Warm Springs Tribe | Oak Springs Hatchery | ST | WI | 2015 | 12,500 | 05-14-15 | 05-14-15 | Parkdale Acclim Pond | Hood River |
| Warm Springs Tribe Total | | | | | 12,500 | | | | |
| 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 | COOP | CH0 | FA | 2015 | 175 | 05-15-15 | 05-31-15 | Wenatchee River | Wenatchee River |
| Washington Dept. of Fish and Wildlife | COOP | CH0 | FA | 2015 | 2,575 | 05-15-15 | 05-31-15 | Above McNary Dam | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | COOP | CH0 | FA | 2015 | 17,000 | 05-15-15 | 05-31-15 | Yakama River | Yakima River |
| Washington Dept. of Fish and Wildlife | COOP | CH0 | SU | 2015 | 225 | 05-15-15 | 05-15-15 | Methow River | Methow River |
| Washington Dept. of Fish and Wildlife | COOP | CH0 | SU | 2015 | 225 | 05-15-15 | 05-15-15 | Similkameen Acclim Pd | Okanogan 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 | 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 | 95,000 | 04-30-15 | 05-05-15 | Methow Hatchery | Methow 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 | 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 | | | | | 907,200 | | | | |
| Yakama Tribe | Cascade Hatchery | CO | UN | 2015 | 131,335 | 05-06-15 | 05-06-15 | Butcher Creek Acclim. Pond | 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 | 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 | | | | | 2,146,646 | | | | |
| Grand Total | | | | | 5,951,346 | | | | |

Hatchery Releases Next Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|--|--------------------------|---------|------|-------|------------------|----------|----------|----------------------------------|----------------------|
| From: | 5/16/2015 | | to | | 5/28/2015 | | | | |
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Nez Perce Tribe | Lyons Ferry Hatchery | CH0 | FA | 2015 | 525,000 | 05-20-15 | 05-20-15 | Cpt John Acclim Pond | Snake River |
| Nez Perce Tribe | Lyons Ferry Hatchery | CH0 | FA | 2015 | 525,000 | 05-21-15 | 05-21-15 | Big Canyon (Clearwater River) | Clearwater River M F |
| Nez Perce Tribe Total | | | | | 1,050,000 | | | | |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | CH0 | FA | 2015 | 400,000 | 05-18-15 | 05-18-15 | Grande Ronde River | Grande Ronde River |
| Oregon Dept. of Fish and Wildlife Total | | | | | 400,000 | | | | |
| Umatilla Tribe | Umatilla Hatchery | CH0 | FA | 2015 | 600,000 | 05-14-15 | 05-19-15 | Reith Bridge | Umatilla River |
| Umatilla Tribe Total | | | | | 600,000 | | | | |
| 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 | COOP | CH0 | FA | 2015 | 4,000 | 05-20-15 | 05-20-15 | Above McNary Dam | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH0 | FA | 2015 | 220,000 | 05-18-15 | 05-18-15 | Lyons Ferry Hatchery | Snake River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | CH0 | SU | 2015 | 484,000 | 05-25-15 | 05-31-15 | Wells Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife Total | | | | | 750,000 | | | | |
| Wildlife Total | | | | | | | | | |
| Grand Total | | | | | 2,800,000 | | | | |

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 |
| 05/01/2015 | 104.7 | 0.0 | 103.4 | 0.0 | 117.1 | 8.4 | 113.3 | 0.0 | 124.1 | 11.7 | 117.6 | 19.2 | 120.3 | 25.3 |
| 05/02/2015 | 102.7 | 0.0 | 106.2 | 0.0 | 113.6 | 8.0 | 111.3 | 0.0 | 122.3 | 10.5 | 112.1 | 12.6 | 105.8 | 27.5 |
| 05/03/2015 | 93.4 | 0.0 | 95.5 | 0.0 | 108.2 | 8.0 | 101.6 | 0.0 | 109.4 | 9.8 | 119.8 | 17.2 | 119.3 | 29.6 |
| 05/04/2015 | 103.8 | 0.0 | 100.7 | 0.0 | 111.1 | 8.0 | 107.5 | 0.0 | 113.7 | 11.8 | 126.7 | 14.1 | 132.5 | 26.7 |
| 05/05/2015 | 75.3 | 0.0 | 76.1 | 0.0 | 90.9 | 7.1 | 87.9 | 0.0 | 94.6 | 10.1 | 106.0 | 13.4 | 111.2 | 24.4 |
| 05/06/2015 | 70.4 | 0.0 | 74.3 | 0.0 | 88.7 | 6.9 | 85.3 | 0.0 | 91.1 | 9.1 | 98.5 | 16.1 | 93.9 | 20.5 |
| 05/07/2015 | 81.6 | 0.0 | 77.2 | 0.0 | 90.4 | 6.9 | 82.2 | 0.0 | 87.1 | 9.5 | 100.5 | 17.7 | 103.6 | 25.4 |
| 05/08/2015 | 73.7 | 0.0 | 74.1 | 0.0 | 84.1 | 6.2 | 80.6 | 0.0 | 84.4 | 9.0 | 88.0 | 17.4 | 87.2 | 23.6 |
| 05/09/2015 | 79.2 | 0.0 | 83.3 | 0.0 | 90.4 | 6.5 | 85.9 | 0.0 | 91.0 | 9.0 | 87.9 | 14.3 | 83.6 | 23.7 |
| 05/10/2015 | 78.0 | 0.0 | 73.3 | 0.0 | 78.2 | 6.2 | 75.4 | 0.0 | 81.3 | 8.7 | 81.3 | 13.6 | 83.0 | 25.9 |
| 05/11/2015 | 88.2 | 0.0 | 96.3 | 0.0 | 101.3 | 8.1 | 97.4 | 0.0 | 103.0 | 11.3 | 92.1 | 14.4 | 86.9 | 25.4 |
| 05/12/2015 | 112.0 | 0.0 | 112.4 | 0.0 | 124.0 | 8.8 | 113.8 | 1.6 | 119.9 | 10.3 | 122.1 | 28.6 | 120.8 | 28.7 |
| 05/13/2015 | 106.0 | 0.0 | 105.9 | 0.0 | 123.1 | 8.6 | 123.2 | 4.6 | 128.7 | 12.1 | 135.7 | 20.1 | 133.7 | 32.5 |
| 05/14/2015 | 106.8 | 0.0 | 108.0 | 0.0 | 121.3 | 9.0 | 115.7 | 0.0 | 125.6 | 12.5 | 145.0 | 19.9 | 141.8 | 27.9 |

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 |
| 05/01/2015 | 7.3 | 0.0 | --- | 8.6 | 52.9 | 20.2 | 50.1 | 15.0 | 51.1 | 26.1 | 53.1 | 42.9 | |
| 05/02/2015 | 5.1 | 0.0 | --- | 8.5 | 53.7 | 20.1 | 53.5 | 15.9 | 54.8 | 25.3 | 55.7 | 44.6 | |
| 05/03/2015 | 5.1 | 0.0 | --- | 8.5 | 54.7 | 20.2 | 52.3 | 15.6 | 53.0 | 24.6 | 53.1 | 42.8 | |
| 05/04/2015 | 5.1 | 0.0 | --- | 8.6 | 55.9 | 20.3 | 52.8 | 15.7 | 55.1 | 23.0 | 56.9 | 46.0 | |
| 05/05/2015 | 9.5 | 0.0 | --- | 8.6 | 62.8 | 20.3 | 62.2 | 18.6 | 61.7 | 23.3 | 63.1 | 50.0 | |
| 05/06/2015 | 9.7 | 0.0 | --- | 8.6 | 67.2 | 20.3 | 64.8 | 19.4 | 65.1 | 23.2 | 65.5 | 48.0 | |
| 05/07/2015 | 9.7 | 0.0 | --- | 8.5 | 65.7 | 20.3 | 64.2 | 19.2 | 65.2 | 23.9 | 68.1 | 50.1 | |
| 05/08/2015 | 9.6 | 0.0 | --- | 8.6 | 65.0 | 20.3 | 63.2 | 18.9 | 63.6 | 23.3 | 63.6 | 26.3 | |
| 05/09/2015 | 5.2 | 0.0 | --- | 8.6 | 57.2 | 20.2 | 53.7 | 16.1 | 53.3 | 23.3 | 52.8 | 15.8 | |
| 05/10/2015 | 1.6 | 0.0 | --- | 8.5 | 53.0 | 20.2 | 50.8 | 15.2 | 53.1 | 23.2 | 52.9 | 15.8 | |
| 05/11/2015 | 1.5 | 0.0 | --- | 8.5 | 51.3 | 20.2 | 50.8 | 15.2 | 51.4 | 23.3 | 52.3 | 15.5 | |
| 05/12/2015 | 1.5 | 0.0 | --- | 8.6 | 52.9 | 20.2 | 50.3 | 15.1 | 51.7 | 23.4 | 52.4 | 36.8 | |
| 05/13/2015 | 1.5 | 0.0 | --- | 8.5 | 51.5 | 20.4 | 51.1 | 15.3 | 50.1 | 23.5 | 51.5 | 41.3 | |
| 05/14/2015 | 1.5 | 0.0 | --- | 6.5 | 57.8 | 20.3 | 54.7 | 16.4 | 57.3 | 23.7 | 57.6 | 23.9 | |

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 | | |
| 05/01/2015 | 178.7 | 71.9 | 165.0 | 63.3 | 150.2 | 59.9 | 163.3 | 100.4 | 0.0 | 50.5 |
| 05/02/2015 | 179.5 | 72.1 | 185.0 | 55.4 | 167.4 | 67.0 | 174.3 | 100.1 | 0.0 | 61.8 |
| 05/03/2015 | 179.0 | 72.1 | 177.0 | 56.4 | 164.2 | 65.6 | 188.1 | 99.3 | 0.0 | 76.5 |
| 05/04/2015 | 189.5 | 76.0 | 185.1 | 73.9 | 163.6 | 65.4 | 191.5 | 99.3 | 0.0 | 79.9 |
| 05/05/2015 | 170.9 | 68.6 | 165.4 | 62.8 | 148.2 | 59.3 | 175.2 | 99.1 | 0.0 | 63.7 |
| 05/06/2015 | 172.3 | 69.1 | 170.1 | 51.3 | 157.6 | 63.2 | 171.9 | 99.2 | 0.0 | 60.3 |
| 05/07/2015 | 179.9 | 71.9 | 171.7 | 54.6 | 158.3 | 63.3 | 172.1 | 99.4 | 0.0 | 60.3 |
| 05/08/2015 | 162.3 | 65.3 | 169.0 | 67.5 | 153.3 | 61.2 | 172.6 | 99.9 | 0.0 | 60.2 |
| 05/09/2015 | 162.7 | 65.4 | 159.4 | 61.4 | 145.4 | 58.2 | 157.3 | 99.9 | 0.0 | 45.0 |
| 05/10/2015 | 144.5 | 58.1 | 143.2 | 42.9 | 133.5 | 53.3 | 146.4 | 100.3 | 0.0 | 33.7 |
| 05/11/2015 | 144.6 | 58.1 | 142.0 | 45.0 | 127.9 | 51.2 | 145.8 | 100.4 | 0.0 | 33.0 |
| 05/12/2015 | 173.3 | 69.8 | 166.2 | 65.8 | 151.1 | 60.5 | 176.6 | 99.7 | 0.0 | 64.4 |
| 05/13/2015 | 187.7 | 75.4 | 186.2 | 71.1 | 170.6 | 68.3 | 184.0 | 99.3 | 0.0 | 72.3 |
| 05/14/2015 | 193.1 | 77.5 | 193.3 | 57.9 | 175.9 | 70.3 | 192.9 | 99.3 | 0.0 | 81.2 |

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 | | | | | | | | | | | |
| | 05/07/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/14/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Little Goose Dam | | | | | | | | | | | |
| | 05/04/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/11/15 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| Lower Monumental Dam | | | | | | | | | | | |
| | 05/06/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/13/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| McNary Dam | | | | | | | | | | | |
| | 05/04/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/06/15 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 05/12/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/14/15 | Chinook + Steelhead | 17* | 0 | 0 | | | 0 | 0 | 0 | 0 |
| Bonneville Dam | | | | | | | | | | | |
| | 05/02/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/05/15 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 05/09/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/12/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Rock Island Dam | | | | | | | | | | | |
| | 05/01/15 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 05/05/15 | Chinook + Steelhead | 100 | 2 | 2 | 2.00% | 0.00% | 2 | 0 | 0 | 0 |
| | 05/07/15 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 05/12/15 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 0 | 0 | 0 |
| | 05/14/15 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 1 | 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>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | |
| 5/1 | 101.7 | 102.7 | 103.7 | 24 | --- | --- | --- | 0 | 107.4 | 107.8 | 108.3 | 24 | 106.2 | 106.9 | 107.4 | 24 | 107.5 | 108.0 | 108.5 | 24 |
| 5/2 | 100.7 | 101.1 | 101.6 | 24 | --- | --- | --- | 0 | 107.2 | 107.5 | 107.9 | 24 | 105.7 | 106.0 | 106.3 | 24 | 107.4 | 107.7 | 108.1 | 24 |
| 5/3 | 100.9 | 101.4 | 102.1 | 24 | --- | --- | --- | 0 | 106.9 | 107.2 | 107.5 | 24 | 105.1 | 105.5 | 105.9 | 24 | 106.9 | 107.3 | 107.7 | 24 |
| 5/4 | 101.3 | 101.6 | 102.1 | 24 | --- | --- | --- | 0 | 108.2 | 108.9 | 109.8 | 24 | 106.3 | 107.2 | 107.7 | 24 | 107.2 | 107.6 | 107.8 | 24 |
| 5/5 | 101.1 | 101.4 | 101.8 | 24 | --- | --- | --- | 0 | 107.3 | 107.9 | 110.6 | 24 | 106.4 | 107.0 | 110.2 | 24 | 106.7 | 106.8 | 107.1 | 18 |
| 5/6 | 101.8 | 103.1 | 103.8 | 24 | --- | --- | --- | 0 | 106.5 | 106.8 | 107.2 | 24 | 105.5 | 105.8 | 106.3 | 24 | 106.4 | 106.4 | 106.7 | 10 |
| 5/7 | 102.2 | 102.7 | 103.2 | 24 | --- | --- | --- | 0 | 106.7 | 107.0 | 107.4 | 24 | 105.8 | 106.3 | 106.7 | 24 | 106.4 | 106.5 | 106.7 | 13 |
| 5/8 | 102.0 | 102.3 | 102.6 | 24 | --- | --- | --- | 0 | 106.7 | 106.9 | 107.0 | 24 | 105.9 | 106.5 | 106.8 | 24 | 106.5 | 106.6 | 106.9 | 16 |
| 5/9 | 102.1 | 102.4 | 102.8 | 24 | --- | --- | --- | 0 | 106.5 | 106.7 | 106.9 | 24 | 105.4 | 105.9 | 106.4 | 24 | 106.6 | 106.7 | 107.1 | 14 |
| 5/10 | 101.9 | 102.3 | 102.6 | 24 | --- | --- | --- | 0 | 107.2 | 107.5 | 108.1 | 24 | 106.4 | 107.3 | 107.6 | 24 | 107.2 | 107.4 | 107.6 | 17 |
| 5/11 | 100.7 | 101.1 | 102.1 | 24 | --- | --- | --- | 0 | 108.1 | 108.7 | 109.6 | 24 | 106.6 | 106.9 | 107.1 | 24 | 108.3 | 108.8 | 109.2 | 19 |
| 5/12 | 103.3 | 104.1 | 104.6 | 24 | --- | --- | --- | 0 | 108.3 | 108.7 | 109.2 | 24 | 106.9 | 107.0 | 107.1 | 24 | 108.0 | 108.1 | 108.2 | 13 |
| 5/13 | 104.1 | 104.3 | 104.6 | 24 | --- | --- | --- | 0 | 108.7 | 108.9 | 109.4 | 24 | 106.7 | 106.9 | 107.3 | 24 | 108.1 | 108.1 | 108.1 | 1 |
| 5/14 | 104.0 | 104.2 | 104.4 | 23 | --- | --- | --- | 0 | 108.3 | 108.4 | 108.7 | 23 | 106.7 | 106.9 | 107.1 | 23 | 107.1 | 107.1 | 107.3 | 10 |

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

| Date | <u>Chief J. Dnst</u> | | | # | <u>Wells</u> | | | # | <u>Wells Dwnstrm</u> | | | # | <u>Rocky Reach</u> | | | # | <u>Rocky R. Tlwr</u> | | | # |
|------|----------------------|-------------|-------------|----|--------------|-------------|-------------|----|----------------------|-------------|-------------|----|--------------------|-------------|-------------|----|----------------------|-------------|-------------|----|
| | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | |
| 5/1 | 107.2 | 107.9 | 109.2 | 23 | 107.8 | 108.3 | 108.9 | 24 | 109.2 | 110.0 | 110.6 | 24 | 107.7 | 108.3 | 108.7 | 24 | 107.8 | 108.3 | 108.5 | 24 |
| 5/2 | 106.9 | 107.2 | 107.7 | 24 | 107.1 | 107.5 | 108.0 | 24 | 108.4 | 108.8 | 109.4 | 24 | 108.8 | 109.1 | 109.3 | 24 | 108.6 | 109.0 | 109.3 | 24 |
| 5/3 | 106.5 | 106.9 | 107.6 | 21 | 107.6 | 108.4 | 109.1 | 24 | 108.7 | 109.6 | 110.5 | 24 | 109.0 | 109.2 | 109.5 | 24 | 108.7 | 109.1 | 109.5 | 24 |
| 5/4 | 106.8 | 107.3 | 107.9 | 24 | 107.7 | 108.4 | 108.9 | 24 | 109.0 | 109.8 | 110.4 | 24 | 109.2 | 109.5 | 109.8 | 24 | 109.1 | 109.4 | 109.7 | 24 |
| 5/5 | 106.7 | 107.3 | 108.6 | 24 | 106.3 | 106.5 | 106.8 | 24 | 107.4 | 107.7 | 107.9 | 24 | 108.7 | 108.8 | 109.1 | 24 | 108.3 | 108.5 | 108.7 | 24 |
| 5/6 | 106.2 | 106.7 | 107.6 | 24 | 105.8 | 106.2 | 106.5 | 24 | 107.2 | 107.6 | 108.0 | 24 | 107.7 | 107.9 | 108.2 | 24 | 107.4 | 107.7 | 108.0 | 24 |
| 5/7 | 106.0 | 106.5 | 107.0 | 24 | 106.1 | 106.8 | 107.5 | 24 | 106.8 | 107.4 | 108.2 | 24 | 107.2 | 107.6 | 108.0 | 24 | 106.9 | 107.3 | 107.6 | 24 |
| 5/8 | 106.2 | 107.0 | 108.3 | 24 | 106.4 | 106.9 | 107.5 | 24 | 107.3 | 108.0 | 108.7 | 24 | 107.6 | 108.1 | 108.5 | 24 | 107.2 | 107.6 | 107.8 | 24 |
| 5/9 | 106.0 | 106.3 | 106.6 | 24 | 106.4 | 106.9 | 107.3 | 24 | 107.3 | 107.9 | 108.3 | 24 | 107.3 | 107.6 | 108.0 | 24 | 107.1 | 107.3 | 107.5 | 24 |
| 5/10 | 106.7 | 107.2 | 107.5 | 24 | 107.3 | 108.3 | 109.8 | 24 | 108.0 | 109.0 | 109.2 | 24 | 107.8 | 108.3 | 109.2 | 24 | 107.3 | 107.8 | 108.1 | 24 |
| 5/11 | 107.7 | 108.2 | 109.4 | 24 | 107.9 | 108.4 | 109.0 | 24 | 109.3 | 109.9 | 110.4 | 24 | 108.9 | 109.3 | 109.7 | 24 | 108.6 | 109.0 | 109.4 | 24 |
| 5/12 | 107.4 | 107.6 | 107.8 | 24 | 107.5 | 107.7 | 107.9 | 24 | 109.0 | 109.3 | 109.7 | 24 | 108.8 | 109.0 | 109.1 | 24 | 108.8 | 109.0 | 109.6 | 24 |
| 5/13 | 107.7 | 108.2 | 108.8 | 20 | 106.7 | 107.0 | 107.2 | 24 | 108.2 | 108.4 | 108.7 | 24 | 108.8 | 109.2 | 109.4 | 24 | 109.9 | 111.2 | 115.5 | 24 |
| 5/14 | --- | --- | --- | 0 | 106.8 | 107.3 | 107.9 | 23 | 108.1 | 108.8 | 109.4 | 23 | 108.3 | 108.4 | 108.6 | 23 | 108.1 | 108.3 | 108.6 | 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>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | |
| 5/1 | 107.2 | 107.5 | 107.8 | 24 | 109.9 | 110.9 | 111.7 | 24 | 108.3 | 109.2 | 109.9 | 24 | 110.4 | 110.8 | 111.2 | 24 | 107.9 | 108.8 | 109.6 | 24 |
| 5/2 | 107.6 | 108.4 | 108.9 | 24 | 110.5 | 111.7 | 112.6 | 24 | 108.8 | 110.0 | 110.6 | 24 | 109.3 | 110.5 | 111.6 | 24 | 108.7 | 109.2 | 109.9 | 24 |
| 5/3 | 108.2 | 108.8 | 109.0 | 24 | 111.0 | 112.1 | 113.0 | 24 | 110.0 | 110.9 | 113.2 | 19 | 110.4 | 110.5 | 110.9 | 19 | 108.2 | 108.7 | 109.8 | 19 |
| 5/4 | 108.4 | 108.8 | 109.2 | 24 | 111.7 | 112.7 | 113.8 | 24 | 110.0 | 110.7 | 111.7 | 24 | 110.3 | 110.3 | 111.0 | 10 | 110.6 | 111.3 | 112.5 | 24 |
| 5/5 | 107.5 | 107.7 | 107.9 | 24 | 110.9 | 112.4 | 113.4 | 24 | 108.4 | 108.6 | 108.8 | 24 | 109.3 | 109.8 | 110.4 | 24 | 108.8 | 109.0 | 109.2 | 24 |
| 5/6 | 106.9 | 107.1 | 107.4 | 24 | 109.7 | 111.3 | 114.7 | 24 | 108.0 | 108.3 | 108.7 | 24 | 110.0 | 110.6 | 111.3 | 24 | 107.7 | 108.0 | 108.5 | 24 |
| 5/7 | 106.8 | 107.1 | 107.3 | 24 | 110.4 | 111.7 | 113.9 | 24 | 108.9 | 110.0 | 111.8 | 24 | 111.2 | 111.7 | 112.9 | 24 | 109.2 | 110.4 | 111.7 | 24 |
| 5/8 | 106.7 | 107.0 | 107.2 | 24 | 109.8 | 111.5 | 114.4 | 24 | 109.6 | 109.9 | 110.2 | 24 | 111.6 | 112.0 | 112.4 | 24 | 110.9 | 111.3 | 111.9 | 24 |
| 5/9 | 106.8 | 107.2 | 107.5 | 24 | 109.5 | 111.2 | 112.6 | 24 | 109.7 | 110.7 | 111.1 | 24 | 110.2 | 111.0 | 112.3 | 24 | 111.3 | 112.0 | 112.6 | 24 |
| 5/10 | 107.1 | 107.4 | 107.7 | 24 | 110.1 | 111.4 | 113.4 | 24 | 110.8 | 111.4 | 112.2 | 24 | 110.3 | 110.7 | 111.0 | 24 | 111.5 | 112.0 | 112.7 | 24 |
| 5/11 | 107.9 | 108.3 | 108.6 | 24 | 111.3 | 112.7 | 114.7 | 24 | 110.9 | 111.9 | 112.8 | 24 | 111.0 | 111.3 | 111.6 | 24 | 110.7 | 111.2 | 111.6 | 24 |
| 5/12 | 107.2 | 107.9 | 108.2 | 24 | 110.7 | 112.0 | 114.3 | 22 | 110.4 | 110.7 | 111.5 | 24 | 112.8 | 114.6 | 119.3 | 24 | 110.4 | 110.7 | 111.1 | 24 |
| 5/13 | 107.9 | 108.4 | 110.2 | 24 | 111.3 | 112.3 | 114.1 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 5/14 | 107.4 | 107.9 | 108.4 | 23 | 111.0 | 112.0 | 112.9 | 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>Clwrtr-Peck</u> | | | # | <u>Anatone</u> | | | # |
|------|-----------------------|-------------|-------------|----|--------------|-------------|-------------|---|-----------------|-------------|-------------|----|--------------------|-------------|-------------|---|----------------|-------------|-------------|----|
| | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | |
| | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | |
| 5/1 | 111.1 | 111.7 | 113.2 | 24 | --- | --- | --- | 0 | 97.1 | 97.7 | 98.0 | 24 | --- | --- | --- | 0 | 103.6 | 104.7 | 105.7 | 24 |
| 5/2 | 111.8 | 112.2 | 112.4 | 24 | --- | --- | --- | 0 | 98.3 | 98.9 | 99.5 | 24 | --- | --- | --- | 0 | 103.2 | 103.9 | 104.6 | 24 |
| 5/3 | 112.3 | 112.7 | 113.1 | 19 | --- | --- | --- | 0 | 98.3 | 99.0 | 99.6 | 24 | --- | --- | --- | 0 | 103.5 | 104.6 | 105.4 | 24 |
| 5/4 | 112.5 | 112.8 | 113.7 | 24 | --- | --- | --- | 0 | 98.9 | 99.7 | 100.3 | 24 | --- | --- | --- | 0 | 104.0 | 105.0 | 105.9 | 22 |
| 5/5 | 110.9 | 111.1 | 111.2 | 24 | --- | --- | --- | 0 | 97.1 | 97.4 | 97.9 | 24 | --- | --- | --- | 0 | 103.5 | 104.2 | 104.9 | 23 |
| 5/6 | 109.9 | 110.9 | 111.0 | 24 | --- | --- | --- | 0 | 96.9 | 97.4 | 97.9 | 24 | --- | --- | --- | 0 | 103.5 | 104.1 | 105.1 | 21 |
| 5/7 | 111.4 | 111.8 | 112.0 | 24 | --- | --- | --- | 0 | 97.2 | 97.5 | 97.9 | 24 | --- | --- | --- | 0 | 104.1 | 105.0 | 105.8 | 24 |
| 5/8 | 112.1 | 112.5 | 112.9 | 24 | --- | --- | --- | 0 | 97.3 | 97.8 | 98.1 | 24 | --- | --- | --- | 0 | 104.2 | 105.1 | 105.9 | 24 |
| 5/9 | 112.2 | 112.6 | 113.2 | 24 | --- | --- | --- | 0 | 98.0 | 98.7 | 99.4 | 24 | --- | --- | --- | 0 | 103.8 | 104.8 | 105.5 | 24 |
| 5/10 | 113.4 | 113.9 | 114.4 | 24 | --- | --- | --- | 0 | 102.8 | 105.3 | 106.8 | 24 | --- | --- | --- | 0 | 104.1 | 105.2 | 106.0 | 24 |
| 5/11 | 112.9 | 113.3 | 113.4 | 24 | --- | --- | --- | 0 | 105.3 | 107.8 | 109.5 | 24 | --- | --- | --- | 0 | 103.9 | 104.6 | 105.2 | 24 |
| 5/12 | 112.3 | 112.7 | 114.5 | 24 | --- | --- | --- | 0 | 107.2 | 108.3 | 110.2 | 24 | --- | --- | --- | 0 | 103.4 | 104.1 | 104.8 | 24 |
| 5/13 | --- | --- | --- | 0 | --- | --- | --- | 0 | 106.8 | 107.6 | 108.8 | 24 | --- | --- | --- | 0 | 103.0 | 103.6 | 104.2 | 24 |
| 5/14 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105.4 | 106.3 | 107.7 | 23 | --- | --- | --- | 0 | 103.9 | 105.0 | 106.2 | 22 |

Total Dissolved Gas Saturation Data at Snake River Sites

| Date | <u>Clwrtr-Lewiston</u> | | | # | <u>Lower Granite</u> | | | # | <u>L. Granite Tlwr</u> | | | # | <u>Little Goose</u> | | | # | <u>L. Goose Tlwr</u> | | | # |
|------|------------------------|-------------|-------------|----|----------------------|-------------|-------------|----|------------------------|-------------|-------------|----|---------------------|-------------|-------------|----|----------------------|-------------|-------------|----|
| | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | |
| | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | |
| 5/1 | 101.7 | 103.3 | 104.5 | 24 | 104.2 | 104.8 | 105.1 | 24 | 111.0 | 111.3 | 111.8 | 24 | 110.0 | 110.8 | 111.4 | 24 | 111.9 | 112.5 | 112.8 | 24 |
| 5/2 | 101.8 | 103.3 | 104.6 | 24 | 103.4 | 103.7 | 104.3 | 24 | 110.6 | 110.8 | 111.1 | 24 | 110.2 | 110.6 | 110.9 | 24 | 111.7 | 111.9 | 112.1 | 24 |
| 5/3 | 101.8 | 103.6 | 104.9 | 24 | 103.0 | 103.5 | 103.7 | 24 | 110.2 | 110.4 | 110.5 | 24 | 110.2 | 110.8 | 111.2 | 24 | 112.0 | 112.5 | 113.1 | 24 |
| 5/4 | 102.0 | 103.8 | 105.1 | 24 | 103.9 | 104.2 | 104.5 | 24 | 110.5 | 111.0 | 112.1 | 24 | 111.6 | 112.2 | 113.1 | 24 | 112.3 | 112.7 | 113.3 | 24 |
| 5/5 | 101.3 | 102.3 | 103.2 | 24 | 102.8 | 103.0 | 103.1 | 24 | 110.0 | 110.3 | 110.9 | 24 | 111.4 | 111.6 | 112.0 | 24 | 111.4 | 111.7 | 111.9 | 24 |
| 5/6 | 100.9 | 102.2 | 103.3 | 24 | 102.6 | 102.7 | 102.9 | 24 | 109.6 | 109.8 | 110.5 | 24 | 110.4 | 110.8 | 111.2 | 24 | 110.8 | 111.0 | 111.2 | 24 |
| 5/7 | 101.5 | 103.1 | 104.3 | 24 | 102.4 | 102.4 | 102.5 | 24 | 109.6 | 109.9 | 111.1 | 24 | 109.9 | 110.4 | 110.7 | 24 | 110.7 | 110.9 | 111.2 | 24 |
| 5/8 | 101.6 | 103.2 | 104.5 | 24 | 102.4 | 102.5 | 102.7 | 24 | 109.7 | 110.1 | 110.8 | 24 | 109.7 | 110.0 | 110.4 | 24 | 110.7 | 110.9 | 111.3 | 24 |
| 5/9 | 101.8 | 103.6 | 105.0 | 24 | 102.2 | 102.3 | 102.4 | 24 | 110.0 | 110.3 | 110.6 | 24 | 109.6 | 109.9 | 110.7 | 24 | 111.2 | 111.7 | 112.0 | 24 |
| 5/10 | 102.4 | 104.3 | 105.6 | 24 | 103.0 | 103.5 | 104.1 | 24 | 110.5 | 111.1 | 112.0 | 24 | 110.6 | 111.4 | 112.2 | 24 | 111.7 | 112.1 | 112.3 | 24 |
| 5/11 | 102.2 | 103.5 | 104.7 | 24 | 103.9 | 104.2 | 104.3 | 24 | 111.1 | 111.4 | 112.5 | 24 | 111.0 | 111.2 | 111.5 | 24 | 111.9 | 112.1 | 112.3 | 24 |
| 5/12 | 102.3 | 103.7 | 105.2 | 24 | 104.1 | 104.3 | 104.5 | 23 | 110.8 | 111.1 | 111.9 | 23 | 110.0 | 110.3 | 110.6 | 24 | 111.7 | 111.9 | 112.1 | 24 |
| 5/13 | 101.6 | 102.3 | 103.2 | 24 | 103.9 | 104.0 | 104.3 | 24 | 110.8 | 111.2 | 111.7 | 24 | 109.4 | 109.6 | 110.2 | 24 | 111.3 | 111.5 | 111.6 | 24 |
| 5/14 | 102.7 | 104.4 | 105.8 | 23 | 103.6 | 103.8 | 104.2 | 23 | 110.4 | 110.6 | 111.1 | 23 | 109.4 | 109.9 | 110.1 | 23 | 111.3 | 111.6 | 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>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | |
| | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | |
| 5/1 | 112.6 | 112.9 | 113.3 | 24 | 118.2 | 118.5 | 119.1 | 24 | 117.8 | 118.2 | 119.0 | 24 | 113.9 | 114.6 | 115.5 | 24 | --- | --- | --- | 0 |
| 5/2 | 112.0 | 112.2 | 112.3 | 24 | 117.5 | 118.0 | 118.6 | 24 | 116.6 | 116.7 | 117.1 | 24 | 114.1 | 114.9 | 115.3 | 24 | --- | --- | --- | 0 |
| 5/3 | 112.4 | 112.6 | 112.9 | 24 | 116.7 | 117.7 | 118.5 | 24 | 117.3 | 117.5 | 118.0 | 24 | 113.6 | 114.3 | 115.2 | 24 | --- | --- | --- | 0 |
| 5/4 | 112.6 | 112.8 | 113.0 | 24 | 115.5 | 117.5 | 118.1 | 24 | 117.9 | 118.1 | 118.5 | 24 | 114.4 | 115.0 | 115.5 | 24 | --- | --- | --- | 0 |
| 5/5 | 111.9 | 112.1 | 112.3 | 24 | 116.6 | 117.1 | 118.1 | 24 | 116.4 | 116.7 | 117.1 | 24 | 114.5 | 115.4 | 116.8 | 24 | --- | --- | --- | 0 |
| 5/6 | 111.6 | 111.7 | 111.8 | 24 | 116.5 | 116.9 | 117.3 | 24 | 114.8 | 115.0 | 115.7 | 24 | 115.6 | 116.0 | 116.3 | 24 | --- | --- | --- | 0 |
| 5/7 | 111.4 | 111.6 | 111.9 | 24 | 116.5 | 117.3 | 118.7 | 24 | 113.8 | 114.1 | 114.5 | 24 | 115.5 | 115.8 | 116.2 | 24 | --- | --- | --- | 0 |
| 5/8 | 111.7 | 111.9 | 112.1 | 24 | 116.9 | 117.5 | 117.9 | 24 | 114.5 | 114.8 | 115.0 | 24 | 115.4 | 115.8 | 116.2 | 24 | --- | --- | --- | 0 |
| 5/9 | 111.5 | 111.7 | 111.9 | 24 | 116.8 | 117.4 | 118.0 | 24 | 114.9 | 115.1 | 115.4 | 24 | 113.2 | 114.0 | 115.0 | 24 | --- | --- | --- | 0 |
| 5/10 | 111.7 | 112.1 | 112.4 | 24 | 116.4 | 117.4 | 118.3 | 24 | 115.4 | 115.8 | 116.0 | 24 | 113.0 | 113.9 | 115.6 | 24 | --- | --- | --- | 0 |
| 5/11 | 112.3 | 112.4 | 112.6 | 24 | 116.7 | 117.3 | 118.3 | 24 | 116.3 | 116.4 | 116.6 | 24 | 112.9 | 113.5 | 116.0 | 24 | --- | --- | --- | 0 |
| 5/12 | 112.4 | 112.6 | 112.8 | 24 | 116.4 | 116.9 | 118.0 | 24 | 116.3 | 116.4 | 116.7 | 24 | 113.3 | 114.0 | 114.6 | 24 | --- | --- | --- | 0 |
| 5/13 | 111.9 | 112.6 | 113.0 | 24 | 115.7 | 116.2 | 116.7 | 24 | 114.4 | 115.3 | 116.4 | 24 | 112.8 | 113.2 | 115.4 | 24 | --- | --- | --- | 0 |
| 5/14 | 111.0 | 111.3 | 111.5 | 23 | 116.6 | 117.2 | 117.5 | 23 | 112.9 | 113.1 | 113.3 | 23 | 114.6 | 115.3 | 115.5 | 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> | | |
| | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>AVG</u> | <u>High</u> | |
| 5/1 | 111.5 | 111.8 | 112.4 | 24 | 115.6 | 116.3 | 117.1 | 24 | 108.2 | 108.6 | 109.1 | 24 | 113.2 | 113.6 | 114.5 | 24 | 111.4 | 112.4 | 112.9 | 24 |
| 5/2 | 111.1 | 111.6 | 112.4 | 24 | 115.5 | 115.9 | 116.2 | 24 | 109.1 | 110.3 | 111.3 | 24 | 114.4 | 114.6 | 115.0 | 24 | 110.7 | 110.9 | 111.3 | 24 |
| 5/3 | 111.6 | 112.1 | 112.7 | 24 | 115.0 | 115.6 | 116.3 | 24 | 111.0 | 111.4 | 111.9 | 24 | 114.2 | 114.6 | 114.9 | 24 | 111.8 | 112.3 | 112.6 | 24 |
| 5/4 | 111.5 | 111.9 | 112.4 | 24 | 113.9 | 114.8 | 115.9 | 23 | 111.0 | 111.4 | 111.6 | 24 | 113.2 | 114.3 | 115.0 | 24 | 111.8 | 112.2 | 112.4 | 24 |
| 5/5 | 110.1 | 110.5 | 111.3 | 24 | 112.6 | 114.1 | 115.5 | 24 | 109.4 | 109.8 | 110.1 | 24 | 112.9 | 113.8 | 114.5 | 24 | 109.4 | 109.7 | 110.4 | 24 |
| 5/6 | 109.1 | 109.2 | 109.4 | 24 | 113.1 | 114.4 | 115.0 | 24 | 109.6 | 109.8 | 110.1 | 24 | 114.4 | 114.6 | 114.9 | 24 | 109.4 | 109.9 | 110.3 | 24 |
| 5/7 | 108.8 | 109.4 | 110.3 | 24 | 114.3 | 115.6 | 116.4 | 23 | 109.7 | 110.2 | 110.4 | 24 | 114.2 | 114.7 | 115.1 | 24 | 110.1 | 110.9 | 111.3 | 24 |
| 5/8 | 110.6 | 111.4 | 112.1 | 24 | 116.5 | 117.3 | 117.4 | 24 | 110.4 | 110.8 | 111.7 | 24 | 111.6 | 112.0 | 112.5 | 24 | 111.8 | 112.4 | 112.6 | 24 |
| 5/9 | 112.1 | 113.0 | 114.4 | 24 | 116.6 | 116.9 | 117.1 | 24 | 110.2 | 110.4 | 110.7 | 24 | 112.0 | 112.6 | 113.2 | 24 | 112.5 | 112.9 | 113.1 | 24 |
| 5/10 | 112.8 | 113.6 | 115.3 | 24 | 116.4 | 116.7 | 117.0 | 24 | 110.1 | 110.5 | 111.6 | 24 | 111.2 | 112.1 | 112.9 | 24 | 112.9 | 113.4 | 113.9 | 24 |
| 5/11 | 113.2 | 113.5 | 114.0 | 24 | 116.2 | 116.5 | 116.7 | 24 | 108.5 | 108.8 | 109.4 | 24 | 110.1 | 111.0 | 111.3 | 24 | 109.8 | 110.7 | 111.4 | 24 |
| 5/12 | 112.2 | 112.4 | 112.6 | 24 | 115.2 | 116.0 | 116.9 | 24 | 108.3 | 108.9 | 109.2 | 24 | 110.0 | 110.2 | 111.4 | 14 | 107.8 | 108.2 | 108.8 | 24 |
| 5/13 | 109.2 | 110.4 | 111.9 | 24 | 113.9 | 114.3 | 115.0 | 24 | 108.6 | 108.8 | 109.1 | 24 | 112.5 | 113.7 | 115.3 | 18 | 109.3 | 109.4 | 109.6 | 24 |
| 5/14 | 107.9 | 108.3 | 109.4 | 23 | 114.6 | 114.9 | 115.4 | 23 | 109.4 | 109.8 | 110.3 | 23 | 114.2 | 114.4 | 114.7 | 23 | 111.8 | 112.7 | 113.3 | 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> | | |
| | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | | <u>Avg</u> | <u>Avg</u> | <u>High</u> | |
| 5/1 | 115.9 | 116.9 | 117.7 | 24 | 111.4 | 111.9 | 112.2 | 24 | 116.8 | 117.2 | 117.4 | 24 | 116.9 | 117.9 | 118.8 | 24 | 116.8 | 117.1 | 117.5 | 24 |
| 5/2 | 115.9 | 116.3 | 116.7 | 24 | 111.1 | 111.4 | 111.9 | 24 | 116.4 | 117.1 | 117.6 | 24 | 114.5 | 116.3 | 117.5 | 24 | 116.7 | 117.0 | 117.3 | 24 |
| 5/3 | 116.4 | 117.2 | 117.6 | 24 | 112.5 | 113.8 | 114.2 | 24 | 116.5 | 117.1 | 117.6 | 24 | 115.1 | 116.6 | 117.3 | 24 | 116.4 | 116.5 | 116.7 | 24 |
| 5/4 | 116.4 | 117.0 | 117.6 | 24 | 113.6 | 114.3 | 114.5 | 24 | 116.3 | 116.7 | 117.2 | 24 | 114.4 | 115.1 | 115.9 | 24 | 116.8 | 117.1 | 117.3 | 24 |
| 5/5 | 115.2 | 115.4 | 115.7 | 24 | 110.5 | 110.9 | 111.7 | 24 | 115.5 | 115.8 | 116.4 | 24 | 112.7 | 113.6 | 114.3 | 24 | 116.0 | 116.1 | 116.2 | 24 |
| 5/6 | 115.4 | 116.0 | 116.3 | 24 | 110.0 | 110.1 | 110.2 | 24 | 115.3 | 115.5 | 115.7 | 24 | 113.0 | 113.8 | 114.7 | 24 | 116.0 | 116.2 | 116.3 | 24 |
| 5/7 | 115.9 | 116.6 | 116.9 | 24 | 111.0 | 111.9 | 112.4 | 24 | 115.9 | 116.4 | 116.8 | 24 | 113.9 | 115.9 | 117.1 | 24 | 116.2 | 116.3 | 116.4 | 24 |
| 5/8 | 116.9 | 117.4 | 117.7 | 24 | 113.3 | 114.2 | 114.5 | 24 | 116.8 | 117.6 | 118.2 | 24 | 115.0 | 116.9 | 117.8 | 24 | 116.4 | 116.4 | 116.5 | 24 |
| 5/9 | 117.2 | 117.9 | 118.3 | 24 | 114.9 | 115.6 | 116.1 | 24 | 117.4 | 118.3 | 118.9 | 24 | 116.0 | 117.6 | 118.7 | 24 | 116.9 | 117.1 | 117.3 | 24 |
| 5/10 | 116.9 | 117.9 | 118.4 | 24 | 115.4 | 115.8 | 116.2 | 24 | 117.3 | 117.9 | 118.1 | 24 | 116.9 | 117.7 | 118.4 | 24 | 117.1 | 117.2 | 117.4 | 24 |
| 5/11 | 115.1 | 115.6 | 116.1 | 24 | 111.8 | 112.5 | 113.8 | 24 | 116.8 | 117.2 | 117.5 | 24 | 113.8 | 114.5 | 115.6 | 24 | 117.0 | 117.0 | 117.1 | 24 |
| 5/12 | 114.3 | 114.8 | 115.5 | 24 | 109.4 | 109.7 | 110.2 | 24 | 115.8 | 116.5 | 117.0 | 24 | 114.5 | 115.1 | 115.7 | 24 | 116.4 | 116.8 | 117.0 | 24 |
| 5/13 | 115.4 | 116.0 | 116.3 | 24 | 108.7 | 109.1 | 109.5 | 24 | 115.0 | 115.4 | 115.8 | 24 | 112.4 | 113.9 | 114.9 | 24 | 116.2 | 116.4 | 116.6 | 24 |
| 5/14 | 117.1 | 118.3 | 118.7 | 23 | 111.0 | 112.2 | 113.5 | 23 | 115.7 | 116.2 | 116.4 | 23 | 113.7 | 115.1 | 116.2 | 23 | 116.4 | 116.7 | 117.0 | 23 |

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 5/15/2015 7:09

* 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) | |
| 05/01/2015 | * | 191 | 326 | 18 | 27 | 16,960 | --- | 13,538 | 334 | 49,003 | 13,603 | 35,904 |
| 05/02/2015 | * | --- | 93 | 6 | 37 | 28,720 | 30,405 | 21,119 | 781 | --- | 4,682 | 46,621 |
| 05/03/2015 | * | --- | 348 | 1 | 17 | 42,264 | 40,583 | 13,695 | 470 | 119,491 | 10,861 | 60,804 |
| 05/04/2015 | * | 175 | 324 | 7 | 47 | 35,810 | 27,887 | 43,334 | 586 | --- | 14,433 | 51,716 |
| 05/05/2015 | * | 303 | 303 | 2 | 39 | 37,332 | 20,318 | 90,584 | 738 | 264,748 | 12,262 | 73,204 |
| 05/06/2015 | * | 178 | 493 | 4 | 29 | 42,233 | 82,041 | 134,961 | 371 | --- | 10,249 | 101,787 |
| 05/07/2015 | * | 125 | 422 | 11 | 88 | 111,806 | 60,098 | 65,063 | 375 | 98,383 | 13,685 | 69,728 |
| 05/08/2015 | * | 85 | 247 | 12 | 31 | 89,351 | 36,392 | 87,780 | 381 | --- | 11,484 | 66,182 |
| 05/09/2015 | * | --- | --- | 4 | 20 | 39,633 | 40,942 | 140,953 | 369 | 112,609 | 8,596 | 46,655 |
| 05/10/2015 | * | --- | fa | 6 | 4 | 42,497 | 60,203 | 79,546 | 406 | --- | 10,206 | 44,095 |
| 05/11/2015 | * | 39 | --- | 7 | 3 | 31,802 | 55,112 | 86,395 | 392 | 113,310 | 11,409 | 30,417 |
| 05/12/2015 | * | 30 | --- | 7 | 5 | 34,044 | 54,129 | 38,269 | 431 | --- | 16,296 | 51,411 |
| 05/13/2015 | | 50 | --- | 43 | 5 | 26,464 | 55,211 | 64,484 | 504 | 99,302 | 31,994 | 59,640 |
| 05/14/2015 | * | 39 | --- | 205 | 17 | 30,777 | 41,829 | 26,821 | 348 | --- | 35,825 | 54,111 |
| 05/15/2015 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 1,215 | 2,556 | 333 | 369 | 609,693 | 605,150 | 906,542 | 6,486 | 856,846 | 205,585 | 792,275 |
| # Days: | | 10 | 8 | 14 | 14 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 122 | 320 | 24 | 26 | 43,550 | 46,550 | 64,753 | 463 | 122,407 | 14,685 | 56,591 |
| YTD | | 39,953 | 64,071 | 7,190 | 1,005 | 1,694,322 | 980,158 | 1,024,938 | 12,065 | 1,036,261 | 395,099 | 1,176,026 |

| 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) | |
| 05/01/2015 | * | 0 | 1 | 2 | 14 | 330 | --- | 0 | 8 | 342 | 0 | 45,480 |
| 05/02/2015 | * | --- | 0 | 12 | 8 | 653 | 0 | 0 | 11 | --- | 0 | 9,467 |
| 05/03/2015 | * | --- | 1 | 67 | 14 | 319 | 0 | 193 | 17 | 342 | 0 | 6,779 |
| 05/04/2015 | * | 0 | 0 | 12 | 21 | 0 | 0 | 0 | 25 | --- | 0 | 1,976 |
| 05/05/2015 | * | 0 | 0 | 19 | 40 | 156 | 0 | 0 | 17 | 0 | 0 | 452 |
| 05/06/2015 | * | 0 | 1 | 10 | 62 | 148 | 0 | 0 | 26 | --- | 0 | 3,712 |
| 05/07/2015 | * | 0 | 0 | 6 | 146 | 0 | 0 | 316 | 40 | 0 | 0 | 5,066 |
| 05/08/2015 | * | 0 | 0 | 7 | 79 | 0 | 143 | 0 | 11 | --- | 0 | 3,097 |
| 05/09/2015 | * | --- | --- | 4 | 143 | 0 | 0 | 0 | 35 | 342 | 0 | 1,650 |
| 05/10/2015 | * | --- | --- | 14 | 84 | 625 | 287 | 0 | 18 | --- | 0 | 3,003 |
| 05/11/2015 | * | 0 | --- | 6 | 288 | 1,172 | 0 | 0 | 18 | 0 | 36 | 1,791 |
| 05/12/2015 | * | 0 | --- | 14 | 62 | 498 | 0 | 750 | 13 | --- | 114 | 3,928 |
| 05/13/2015 | | 0 | --- | 25 | 27 | 974 | 575 | 776 | 18 | 1,022 | 167 | 2,110 |
| 05/14/2015 | * | 0 | --- | 60 | 45 | 162 | 286 | 3,353 | 28 | --- | 0 | 4,017 |
| 05/15/2015 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 3 | 258 | 1,033 | 5,037 | 1,291 | 5,388 | 285 | 2,048 | 317 | 92,528 |
| # Days: | | 10 | 8 | 14 | 14 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 18 | 74 | 360 | 99 | 385 | 20 | 293 | 23 | 6,609 |
| YTD | | 1 | 39 | 746 | 1,356 | 16,479 | 1,311 | 5,652 | 4,644 | 5,006 | 328 | 1,424,553 |

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) | |
| 05/01/2015 * | 0 | 0 | 0 | 4 | 330 | --- | 407 | 30 | 342 | 267 | 7,779 | |
| 05/02/2015 * | --- | 0 | 0 | 3 | 163 | 574 | 199 | 56 | --- | 1,054 | 10,848 | |
| 05/03/2015 * | --- | 0 | 0 | 3 | 0 | 0 | 0 | 50 | 511 | 1,949 | 13,530 | |
| 05/04/2015 * | 0 | 0 | 0 | 1 | 0 | 573 | 345 | 54 | --- | 804 | 18,118 | |
| 05/05/2015 * | 0 | 0 | 0 | 6 | 937 | 143 | 346 | 72 | 3,396 | 711 | 20,109 | |
| 05/06/2015 * | 0 | 0 | 0 | 0 | 295 | 931 | 0 | 66 | --- | 544 | 30,867 | |
| 05/07/2015 * | 0 | 0 | 0 | 3 | 3,698 | 2,862 | 0 | 105 | 1,360 | 682 | 14,414 | |
| 05/08/2015 * | 0 | 0 | 0 | 6 | 1,453 | 1,433 | 0 | 127 | --- | 307 | 11,999 | |
| 05/09/2015 * | --- | --- | 0 | 3 | 2,642 | 2,863 | 1,349 | 143 | 2,054 | 806 | 9,497 | |
| 05/10/2015 * | --- | --- | 0 | 1 | 1,562 | 3,440 | 2,112 | 156 | --- | 746 | 9,878 | |
| 05/11/2015 * | 0 | --- | 0 | 0 | 502 | 1,148 | 1,886 | 236 | 4,793 | 586 | 4,175 | |
| 05/12/2015 * | 0 | --- | 0 | 1 | 1,495 | 862 | 1,876 | 315 | --- | 534 | 8,135 | |
| 05/13/2015 * | 0 | --- | 0 | 1 | 3,085 | 2,300 | 3,104 | 366 | 2,385 | 1,640 | 14,800 | |
| 05/14/2015 * | 0 | --- | 0 | 2 | 3,564 | 2,578 | 1,341 | 372 | --- | 1,568 | 10,869 | |
| 05/15/2015 * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Total: | 0 | 0 | 0 | 34 | 19,726 | 19,707 | 12,965 | 2,148 | 14,841 | 12,198 | 185,018 | |
| # Days: | 10 | 8 | 14 | 14 | 14 | 13 | 14 | 14 | 7 | 14 | 14 | |
| Average: | 0 | 0 | 0 | 2 | 1,409 | 1,516 | 926 | 153 | 2,120 | 871 | 13,216 | |
| YTD | 0 | 0 | 0 | 42 | 25,670 | 22,172 | 13,167 | 2,253 | 17,888 | 23,309 | 400,582 | |

| 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) | |
| 05/01/2015 * | 216 | 733 | 6 | 513 | 26,125 | --- | 21,680 | 225 | 11,451 | 3,538 | 7,783 | |
| 05/02/2015 * | --- | 235 | 4 | 1,043 | 19,419 | 28,109 | 47,021 | 238 | --- | 1,756 | 5,886 | |
| 05/03/2015 * | --- | 626 | 1 | 792 | 16,905 | 25,149 | 26,039 | 228 | 32,685 | 2,379 | 12,591 | |
| 05/04/2015 * | 119 | 509 | 1 | 778 | 17,201 | 30,964 | 39,708 | 149 | --- | 2,335 | 11,777 | |
| 05/05/2015 * | 184 | 478 | 0 | 601 | 23,430 | 13,877 | 29,215 | 204 | 56,385 | 2,971 | 24,176 | |
| 05/06/2015 * | 131 | 1,217 | 0 | 250 | 36,622 | 26,583 | 21,536 | 213 | --- | 5,047 | 26,345 | |
| 05/07/2015 * | 94 | 1,191 | 1 | 150 | 46,088 | 37,775 | 17,687 | 237 | 40,119 | 8,010 | 42,852 | |
| 05/08/2015 * | 62 | 1,007 | 2 | 69 | 39,859 | 49,148 | 30,868 | 241 | --- | 7,676 | 59,989 | |
| 05/09/2015 * | --- | --- | 0 | 132 | 30,532 | 58,697 | 41,477 | 265 | 35,599 | 6,715 | 88,353 | |
| 05/10/2015 * | --- | --- | 1 | 47 | 16,561 | 55,328 | 33,438 | 326 | --- | 6,477 | 119,925 | |
| 05/11/2015 * | 38 | --- | 1 | 31 | 49,879 | 39,323 | 23,014 | 423 | 28,757 | 6,039 | 64,411 | |
| 05/12/2015 * | 29 | --- | 0 | 43 | 19,430 | 19,574 | 13,507 | 453 | --- | 3,855 | 42,485 | |
| 05/13/2015 * | 21 | --- | 2 | 241 | 25,328 | 21,277 | 15,250 | 442 | 25,585 | 4,652 | 44,820 | |
| 05/14/2015 * | 25 | --- | 19 | 111 | 19,762 | 13,181 | 29,168 | 490 | --- | 4,860 | 40,406 | |
| 05/15/2015 * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Total: | 919 | 5,996 | 38 | 4,801 | 387,141 | 418,985 | 389,608 | 4,134 | 230,581 | 66,310 | 591,799 | |
| # Days: | 10 | 8 | 14 | 14 | 14 | 13 | 14 | 14 | 7 | 14 | 14 | |
| Average: | 92 | 750 | 3 | 343 | 27,653 | 32,230 | 27,829 | 295 | 32,940 | 4,736 | 42,271 | |
| YTD | 2,472 | 23,473 | 447 | 11,029 | 1,116,847 | 724,275 | 448,022 | 5,191 | 283,556 | 97,073 | 671,936 | |

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) |
| 05/01/2015 * | 0 | 0 | 0 | 0 | 0 | --- | 0 | 27 | 3,415 | 0 | 0 |
| 05/02/2015 * | --- | 0 | 0 | 0 | 163 | 0 | 0 | 47 | --- | 156 | 307 |
| 05/03/2015 * | --- | 0 | 0 | 1 | 159 | 0 | 0 | 51 | 6,638 | 401 | 0 |
| 05/04/2015 * | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | --- | 498 | 0 |
| 05/05/2015 * | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 16 | 7,472 | 1,381 | 678 |
| 05/06/2015 * | 0 | 0 | 0 | 0 | 295 | 72 | 0 | 55 | --- | 1,669 | 804 |
| 05/07/2015 * | 0 | 0 | 1 | 0 | 284 | 0 | 316 | 63 | 3,739 | 898 | 1,170 |
| 05/08/2015 * | 4 | 0 | 0 | 1 | 291 | 0 | 322 | 65 | --- | 1,904 | 1,162 |
| 05/09/2015 * | --- | --- | 0 | 0 | 587 | 286 | 337 | 55 | 4,107 | 1,074 | 0 |
| 05/10/2015 * | --- | --- | 0 | 0 | 0 | 287 | 0 | 62 | --- | 1,138 | 1,461 |
| 05/11/2015 * | 2 | --- | 1 | 0 | 335 | 0 | 0 | 76 | 1,027 | 2,153 | 1,194 |
| 05/12/2015 * | 6 | --- | 0 | 1 | 166 | 575 | 0 | 116 | --- | 2,214 | 1,666 |
| 05/13/2015 | 26 | --- | 1 | 2 | 487 | 288 | 0 | 89 | 4,430 | 3,874 | 3,410 |
| 05/14/2015 * | 23 | --- | 0 | 8 | 1,296 | 859 | 0 | 137 | --- | 3,606 | 1,654 |
| 05/15/2015 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 62 | 0 | 3 | 14 | 4,063 | 2,367 | 975 | 900 | 30,828 | 20,966 | 13,506 |
| # Days: | 10 | 8 | 14 | 14 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | 6 | 0 | 0 | 1 | 290 | 182 | 70 | 64 | 4,404 | 1,498 | 965 |
| YTD | 62 | 0 | 3 | 15 | 4,262 | 2,407 | 1,051 | 3,063 | 54,795 | 21,563 | 14,936 |

| 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) |
| 05/01/2015 * | 0 | 0 | 0 | 0 | 0 | --- | 0 | 0 | 0 | 133 | 0 |
| 05/02/2015 * | --- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | --- | 75 | 0 |
| 05/03/2015 * | --- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 |
| 05/04/2015 * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | --- | 50 | 0 |
| 05/05/2015 * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |
| 05/06/2015 * | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | --- | 100 | 8 |
| 05/07/2015 * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |
| 05/08/2015 * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | --- | 80 | 0 |
| 05/09/2015 * | --- | --- | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 05/10/2015 * | --- | --- | 0 | 0 | 0 | 0 | 0 | 0 | --- | 25 | 0 |
| 05/11/2015 * | 0 | --- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 |
| 05/12/2015 * | 0 | --- | 0 | 0 | 0 | 0 | 0 | 0 | --- | 125 | 0 |
| 05/13/2015 | 0 | --- | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 417 | 0 |
| 05/14/2015 * | 0 | --- | 0 | 0 | 0 | 0 | 0 | 1 | --- | 50 | 0 |
| 05/15/2015 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 3 | 0 | 1,243 | 8 |
| # Days: | 10 | 8 | 14 | 14 | 14 | 13 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 89 | 1 |
| YTD | 0 | 2 | 0 | 0 | 10 | 3,480 | 140 | 8 | 315 | 4,748 | 2,801 |

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:

5/15/15 7:06 AM

| | | Species | | | | | |
|--------------------------------|--------------------------|----------------------|-----------|--------|---------|-------|-------------|
| | | 05/01/15 TO 05/15/15 | | | | | |
| Site | Data | CH0 | CH1 | CO | ST | SO | Grand Total |
| LGR | Sum of NumberCollected | 3,100 | 398,850 | 12,800 | 249,650 | 2,600 | 667,000 |
| | Sum of NumberBarged | 2,947 | 397,260 | 12,776 | 233,563 | 2,587 | 649,133 |
| | Sum of NumberBypassed | 142 | 9,299 | 139 | 21,800 | 0 | 31,380 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 1 | 7 | 0 | 7 | 2 | 17 |
| | Sum of FacilityMorts | 10 | 200 | 1 | 101 | 11 | 323 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 11 | 207 | 1 | 108 | 13 | 340 |
| LGS | Sum of NumberCollected | 900 | 422,219 | 13,750 | 292,412 | 1,650 | 730,931 |
| | Sum of NumberBarged | 898 | 422,154 | 13,750 | 292,336 | 1,650 | 730,788 |
| | Sum of NumberBypassed | 2 | 0 | 0 | 0 | 0 | 2 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 0 | 7 | 0 | 1 | 0 | 8 |
| | Sum of FacilityMorts | 0 | 58 | 0 | 75 | 0 | 133 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 0 | 65 | 0 | 76 | 0 | 141 |
| LMN | Sum of NumberCollected | 3,100 | 529,766 | 7,100 | 220,334 | 600 | 760,900 |
| | Sum of NumberBarged | 3,094 | 522,849 | 6,900 | 209,464 | 600 | 742,907 |
| | Sum of NumberBypassed | 6 | 6,650 | 200 | 10,649 | 0 | 17,505 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 0 | 32 | 0 | 23 | 0 | 55 |
| | Sum of FacilityMorts | 0 | 235 | 0 | 198 | 0 | 433 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 0 | 267 | 0 | 221 | 0 | 488 |
| Total Sum of NumberCollected | | 7,100 | 1,350,835 | 33,650 | 762,396 | 4,850 | 2,158,831 |
| Total Sum of NumberBarged | | 6,939 | 1,342,263 | 33,426 | 735,363 | 4,837 | 2,122,828 |
| Total Sum of NumberBypassed | | 150 | 15,949 | 339 | 32,449 | 0 | 48,887 |
| Total Sum of Numbertrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 1 | 46 | 0 | 31 | 2 | 80 |
| Total Sum of FacilityMorts | | 10 | 493 | 1 | 374 | 11 | 889 |
| Total Sum of ResearchMorts | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of TotalProjectMorts | | 11 | 539 | 1 | 405 | 13 | 969 |

YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/15/15 7:06 AM

TO: 05/15/15

| | | Species | | | | | |
|--------------------------------|--------------------------|---------|-----------|--------|-------|-----------|-------------|
| Site | Data | CH0 | CH1 | CO | SO | ST | Grand Total |
| LGR | Sum of NumberCollected | 11,390 | 1,099,642 | 16,400 | 2,760 | 703,758 | 1,833,950 |
| | Sum of NumberBarged | 3,339 | 424,442 | 12,900 | 2,587 | 250,925 | 694,193 |
| | Sum of NumberBypassed | 8,027 | 674,921 | 3,499 | 160 | 452,708 | 1,139,315 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 14 | 40 | 0 | 2 | 17 | 73 |
| | Sum of FacilityMorts | 10 | 239 | 1 | 11 | 108 | 369 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 24 | 279 | 1 | 13 | 125 | 442 |
| LGS | Sum of NumberCollected | 920 | 684,223 | 15,470 | 1,690 | 505,650 | 1,207,953 |
| | Sum of NumberBarged | 898 | 422,154 | 13,750 | 1,650 | 292,336 | 730,788 |
| | Sum of NumberBypassed | 22 | 261,966 | 1,720 | 40 | 213,220 | 476,968 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 0 | 17 | 0 | 0 | 4 | 21 |
| | Sum of FacilityMorts | 0 | 86 | 0 | 0 | 90 | 176 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 0 | 103 | 0 | 0 | 94 | 197 |
| LMN | Sum of NumberCollected | 3,210 | 583,704 | 7,200 | 630 | 246,481 | 841,225 |
| | Sum of NumberBarged | 3,094 | 522,849 | 6,900 | 600 | 209,464 | 742,907 |
| | Sum of NumberBypassed | 116 | 60,572 | 300 | 30 | 36,794 | 97,812 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 0 | 37 | 0 | 0 | 25 | 62 |
| | Sum of FacilityMorts | 0 | 236 | 0 | 0 | 198 | 434 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 0 | 273 | 0 | 0 | 223 | 496 |
| Total Sum of NumberCollected | | 15,520 | 2,367,569 | 39,070 | 5,080 | 1,455,889 | 3,883,128 |
| Total Sum of NumberBarged | | 7,331 | 1,369,445 | 33,550 | 4,837 | 752,725 | 2,167,888 |
| Total Sum of NumberBypassed | | 8,165 | 997,459 | 5,519 | 230 | 702,722 | 1,714,095 |
| Total Sum of NumberTrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 14 | 94 | 0 | 2 | 46 | 156 |
| Total Sum of FacilityMorts | | 10 | 561 | 1 | 11 | 396 | 979 |
| Total Sum of ResearchMorts | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of TotalProjectMorts | | 24 | 655 | 1 | 13 | 442 | 1,135 |

Cumulative Adult Passage at Mainstem Dams Through: 05/14

| 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 | 05/14 | 181,981 | 6,662 | 153,634 | 15,835 | 105,269 | 13,241 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDA | 05/14 | 157,504 | 5,309 | 110,693 | 10,729 | 72,038 | 9,497 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 05/14 | 133,104 | 4,893 | 92,225 | 8,378 | 58,765 | 7,717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 05/14 | 121,088 | 3,365 | 73,387 | 4,761 | 44,885 | 4,428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 05/14 | 90,543 | 1,512 | 53,540 | 3,088 | 29,141 | 2,564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 05/14 | 82,705 | 2,159 | 47,990 | 2,426 | 24,199 | 1,676 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 05/14 | 75,920 | 2,036 | 40,586 | 1,813 | 17,949 | 1,280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGR | 05/14 | 70,874 | 1,469 | 35,154 | 1,019 | 15,064 | 871 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRD | 05/13 | 15,953 | 333 | 11,429 | 180 | 5,582 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAN | 05/13 | 14,895 | 186 | 0 | 0 | 4,526 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIS | 05/13 | 16,250 | 110 | 4,744 | 24 | 3,265 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 05/13 | 5,864 | 50 | 2,183 | 11 | 966 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEL | 05/13 | 3,616 | 44 | 849 | 6 | 399 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WFA | 05/09 | 29,199 | 858 | 8,307 | 120 | 10,541 | 173 | 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 | | Wild 2015 | Wild 2014 | 10-Yr Avg. | 2015 | 2014 | 10-Yr Avg. | |
| | | Adult | Jack | Adult | Jack | Adult | Jack | | | | 2015 | 2014 | | | | | | | 2015 |
| BON | 05/14 | 0 | 0 | 5 | -2 | 0 | 0 | 1 | 9 | 0 | 4,500 | 4,476 | 4,122 | 2,351 | 1,254 | 1,152 | 27 | 9 | 37 |
| TDA | 05/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 339 | 560 | 2,269 | 166 | 167 | 900 | 0 | 0 | 0 |
| JDA | 05/14 | 0 | 0 | 0 | 1 | 0 | 1 | -1 | 4 | 0 | 511 | 2,881 | 4,761 | 322 | 1,109 | 1,705 | 50 | 12 | 5 |
| MCN | 05/14 | 0 | 0 | 0 | 0 | 1 | 0 | -1 | 0 | 0 | 669 | 625 | 5,184 | 410 | 333 | 1,755 | 15 | 8 | 2 |
| IHR | 05/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,053 | 1,620 | 4,903 | 671 | 764 | 1,510 | 3 | 2 | 0 |
| LMN | 05/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3,374 | 5,040 | 6,548 | 1,820 | 1,573 | 2,111 | 0 | 0 | 0 |
| LGS | 05/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,447 | 1,434 | 3,005 | 975 | 961 | 1,414 | 1 | 0 | 0 |
| LGR | 05/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,126 | 7,353 | 8,701 | 4,297 | 3,390 | 3,176 | 0 | 0 | 0 |
| PRD | 05/13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 29 | 100 | 39 | 0 | 0 | 0 | 5 | 0 | 0 |
| WAN | 05/13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 49 | 0 | 89 | 0 | 0 | 0 | 2 | 0 | 0 |
| RIS | 05/13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 250 | 96 | 83 | 134 | 54 | 0 | 0 | 0 |
| RRH | 05/13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 229 | 314 | 71 | 146 | 231 | 0 | 0 | 0 |
| WEL | 05/13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 89 | 47 | 17 | 55 | 33 | 0 | 0 | 2 |
| WFA | 05/09 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 5,002 | 7,086 | 8,494 | 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.