This Week’s Highlights

Water Supply

Precipitation throughout the Columbia Basin has varied between 0% and 56% of average at individual sub-basins over early June. Precipitation above The Dalles has been 33% of average over early June. Over the 2018 water year, precipitation has ranged between 88% and 112% of average.

Table 1. Summary of June precipitation and cumulative October through June precipitation with respect to average (1981-2010), at select locations within the Columbia and Snake River Basins.

<table>
<thead>
<tr>
<th>Location</th>
<th>Water Year 2018</th>
<th>Water Year 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>June 1-7, 2018</td>
<td>October 1, 2017 to June 7, 2018</td>
</tr>
<tr>
<td></td>
<td>Observed (inches)</td>
<td>% Average</td>
</tr>
<tr>
<td>Columbia Above Coulee</td>
<td>0.34</td>
<td>44</td>
</tr>
<tr>
<td>Snake River Above Ice Harbor</td>
<td>0.13</td>
<td>30</td>
</tr>
<tr>
<td>Columbia Above The Dalles</td>
<td>0.17</td>
<td>33</td>
</tr>
<tr>
<td>Kootenai</td>
<td>0.30</td>
<td>37</td>
</tr>
<tr>
<td>Clark Fork</td>
<td>0.30</td>
<td>46</td>
</tr>
<tr>
<td>Flathead</td>
<td>0.36</td>
<td>42</td>
</tr>
<tr>
<td>Pend Oreille River Basin</td>
<td>0.30</td>
<td>40</td>
</tr>
<tr>
<td>Salmon River Basin</td>
<td>0.33</td>
<td>56</td>
</tr>
<tr>
<td>Upper Snake Tributaries</td>
<td>0.06</td>
<td>13</td>
</tr>
<tr>
<td>Clearwater</td>
<td>0.24</td>
<td>32</td>
</tr>
<tr>
<td>Willamette River above Portland</td>
<td>0.00</td>
<td>0</td>
</tr>
</tbody>
</table>

Table 2 displays the June 7th ESP runoff volume forecasts for multiple reservoirs along with the May COE forecasts at Libby and Dworshak. The June 7th ESP forecast at The Dalles between April and August is 106,350 Kaf (121% of average).

Table 2. June 7 ESP Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

<table>
<thead>
<tr>
<th>Location</th>
<th>% Average (1981-2010)</th>
<th>Runoff Volume (Kaf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Dalles (Apr-Aug)</td>
<td>121</td>
<td>106,350</td>
</tr>
<tr>
<td>Grand Coulee (Apr-Aug)</td>
<td>122</td>
<td>69,421</td>
</tr>
<tr>
<td>Libby Res. Inflow, MT (Apr-Aug)</td>
<td>118 123**</td>
<td>6,940 7,213**</td>
</tr>
<tr>
<td>Hungry Horse Res. Inflow, MT (Apr-Aug)</td>
<td>151</td>
<td>2,930</td>
</tr>
<tr>
<td>Lower Granite Res. Inflow (Apr-July)</td>
<td>120</td>
<td>23,861</td>
</tr>
<tr>
<td>Brownlee Res. Inflow (Apr-July)</td>
<td>112</td>
<td>6,120</td>
</tr>
<tr>
<td>Dworshak Res. Inflow (Apr-July)</td>
<td>126 122**</td>
<td>3,037 2,966**</td>
</tr>
</tbody>
</table>

* Denotes COE June Forecast

Grand Coulee Reservoir is at 1277.1 feet (6-7-18) and has refilled 8.1 feet over the last week. Outflows at Grand Coulee have ranged between 173.3 Kcfs and 216.9 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2433.6 feet (6-7-18) and has refilled 2.3 feet over the past week. Daily average outflows at Libby Dam have been 22.4-23.0 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3550.6 feet (6-7-18) and has refilled 6.8 feet last week. Outflows at Hungry Horse have been 2.9-6.1 Kcfs over the last
week.

Dworshak is currently at an elevation of 1588.0 feet (6-7-18) and continues to refill, filling 5.7 feet over last week. Dworshak outflows have been 4.3-6.0 Kcfs.

The Brownlee Reservoir was at an elevation of 2071.3 feet on June 7th, 2018 and has refilled 2.2 feet. Outflows at Hells Canyon have ranged between 18.4 and 28.7 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 4th, 2018), the flow objective this spring is 100 Kcfs at Lower Granite. Flows at Lower Granite Dam have averaged 122.1 Kcfs last week; over the spring season have averaged 118.6 Kcfs.

Based on the April Final Water Supply Forecast, the Spring Biological Opinion Flow Objectives is 260 Kcfs at McNary Dam and 135 Kcfs at Priest Rapids Dam (both began April 10th). Flows at McNary averaged 368.0 Kcfs last week at McNary and 377.9 Kcfs over the spring season. Flows averaged 243.4 Kcfs at Priest Rapids last week and 250.4 Kcfs over the spring season.

**Spill**

Flows in the Lower Snake River decreased this week, when compared to the previous week. Daily average flows at Lower Granite Dam ranged from 103.9 to 153.6 Kcfs this week. Flows in the Mid-Columbia and Upper Columbia rivers also decreased this week, when compared to the previous week. Daily average flows at McNary and Rock Island dams ranged from 322.6 to 412.5 Kcfs and 196.3 to 250.3 Kcfs this week, respectively.

The 2018 spill for fish passage program at the lower Snake River and Mid-Columbia FCRPS projects began just after midnight on April 3rd and April 10th, respectively. In response to the order from the U.S. District Court of the District of Oregon, the 2018 Fish Operations Plan (FOP) specifies that spring spill operations on the Snake and Mid-Columbia rivers will be to spill to the 115%/120% total dissolved gas (TDG) caps at all eight projects. The COE estimates spill caps for each project on a daily basis and projects will be operated to these estimated spill caps. These daily spill caps are implemented at 1600 each day and are published on the TMT website (http://pweb.crohms.org/tmt/documents/ops/spill/caps/). The daily spill caps at the Snake and Mid-Columbia river projects for the past week are summarized in Table 3.

<table>
<thead>
<tr>
<th>Project</th>
<th>Spring Spill Level (Day/Night)</th>
<th>Estimated Spill Caps (6/1-6/7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Granite</td>
<td>Gas Cap/Gas Cap</td>
<td>31-33 Kcfs</td>
</tr>
<tr>
<td>Little Goose</td>
<td>Gas Cap/Gas Cap</td>
<td>26 Kcfs</td>
</tr>
<tr>
<td>Lower Monumental</td>
<td>Gas Cap/Gas Cap</td>
<td>27 Kcfs</td>
</tr>
<tr>
<td>Ice Harbor</td>
<td>Gas Cap/Gas Cap</td>
<td>80 Kcfs</td>
</tr>
<tr>
<td>McNary</td>
<td>Gas Cap/Gas Cap</td>
<td>145 Kcfs</td>
</tr>
<tr>
<td>John Day</td>
<td>Gas Cap/Gas Cap</td>
<td>90 Kcfs</td>
</tr>
<tr>
<td>The Dalles</td>
<td>Gas Cap/Gas Cap</td>
<td>90 Kcfs</td>
</tr>
<tr>
<td>Bonneville</td>
<td>Gas Cap/Gas Cap</td>
<td>121 Kcfs</td>
</tr>
</tbody>
</table>

The estimated 115%/120% spill cap for Lower Granite Dam (LGR) was 31 Kcfs for most of this week. Due to the high flows this week, spill volumes at LGR exceeded the estimated 115%/120% spill caps on June 1st and half of June 2nd. By the afternoon of June 2nd, flows had decreased enough to allow for spill to the 115%/120% spill cap, which at that time was 31 Kcfs. Total dissolved gas (TDG) has been below the 120% waiver limit in the LGR tailrace since May 31st and has been as low as 115% this week. Total dissolved gas has been below the 115% waiver in the Little Goose (LGS) forebay since June 1st and has been as low as 112% this week. Despite the low TDG levels in the LGR tailrace and the LGS forebay, the spill cap at LGR was not adjusted until the afternoon of June 7th, at which time it was increased from 31 Kcfs to 33 Kcfs. The estimated spill cap for LGS was 26 Kcfs all of this week. Spill volumes at LGS exceeded the estimated 115%/120% spill cap on June 1st through the morning of June 3rd. The modified operation that was first implemented on May 30th for adult passage was continued through 0400 on June 3rd. Under the modified operation, spill was reduced to 30% of instantaneous flows for the period of 0400-1200 while excess flows are stored into the forebay, inflows were passed for the period of 1200-1600, and spill was increased from 1600-0400 to a level necessary to pass all stored water from the 0400-1200 period (but not to exceed 130% TDG in the tailrace). Since the modified operation expired on June 3rd, flows have been sufficiently low to allow for spill to the
115%/120% spill cap. Total dissolved gas exceeded the 120% waiver limit in the LGS tailrace on June 1st and June 2nd but has not exceeded since. In fact, TDG in the LGS tailrace has been as low as 114% in recent days. Total dissolved gas in the Lower Monumental (LMN) forebay exceeded the 115% waiver limit through June 4th but has not exceeded the 115% standard since. Although TDG standards in the LGS tailrace or LMN forebay have not been exceeded since June 4th, the spill cap at LGS remains at 26 Kcfs. The estimated spill cap for LMN was 27 Kcfs this week. Due to flows in excess of hydraulic capacity, spill volumes at LMN exceeded the estimated spill cap through the morning of June 3rd. Since this time, flows have generally been sufficiently low that spill to the 115%/120% spill cap has been possible. Total dissolved gas in the LMN tailrace exceeded the 120% waiver limit on June 1st and June 2nd but has been below the standard since. In fact, TDG in the LMN tailrace has been as low as 115% in recent days. Total dissolved gas in the Ice Harbor (IHR) forebay exceeded the 115% waiver limit through June 5th but has not exceeded since. The estimated spill cap for IHR was 80 Kcfs all of this week. Due to flows in excess of hydraulic capacity, daily average spill volumes at IHR exceeded the estimated spill cap on June 1st and part of June 2nd. By about 0800 on June 2nd, flows were sufficiently low that spill to the 115%/120% spill cap was possible at IHR. Total dissolved gas exceeded the 120% TDG waiver limit in the IHR tailrace on June 1st and June 2nd but has not exceeded since. Total dissolved gas in the McNary (MCN) forebay has exceeded the 115% waiver limit all of this week. However, it is important to note that TDG from spill at IHR is only a portion of what is measured at the MCN forebay, as TDG coming in from the Upper Columbia has been high for most the last month. Due to flows in excess of hydraulic capacity, spill volumes at the Mid-Columbia projects ( McNary, John Day, The Dalles, and Bonneville) exceeded their respective 115%/120% spill caps for most of this week. The estimated spill cap for McNary Dam (MCN) was 145 Kcfs all of this week. Due to the high flows, daily average spill at MCN has ranged from 167.4 to 239.4 Kcfs this week. The 12-hour average TDG exceeded the 120% waiver limit in the MCN tailrace most of this week. The two exceptions to this were on May 5th and May 7th when the 12-hour average TDG was 120%. Total dissolved gas in the John Day (JDA) forebay exceeded the 115% waiver limit all week, with 12-hour averages in the 116%-117% range. The estimated spill cap for JDA was 90 Kcfs all this week. Due to the high flows, daily average spill at JDA has ranged from 91.1 to 156.1 Kcfs this week. Since 0300 on June 7th, flows at JDA have been sufficiently low that spill to the 115%/120% spill cap has been possible. Total dissolved gas exceeded the 120% waiver limit in the JDA tailrace on June 1st and June 2nd but has been below the standard since. Total dissolved gas in The Dalles (TDA) forebay exceeded the 115% standard for most of this week, with two exceptions. These two exceptions were June 1st when the 12-hour average TDG was 115% and June 4th when the 12-hour average TDG was 114%. The estimated spill cap for The Dalles Dam was also 90 Kcfs all this week. Due to the high flows, daily average spill at TDA ranged from 104.8 to 204.9 Kcfs this week. Total dissolved gas in the tailrace at TDA exceeded the 120% waiver limit on June 2nd (121%) but was at or below the 120% standard all other days this week. Total dissolved gas in the Bonneville (BON) forebay exceeded the 115% waiver nearly every day this week. The one exception was on June 5th when the 12-hour average was 115%. It is worth noting that TDG measurements at the BON forebay on June 4th were also generally low but, because the methodology used to estimate the 12-hour average includes data from the previous day, the reported value was 120%. The FPC reviewed this instance and provided a summary memo describing the issue to the Salmon Managers on June 7th (http://www.fpc.org/documents/memos/31-18.pdf). Finally, the estimated spill cap for BON has been 121 Kcfs all week. Due to the flows in excess of hydraulic capacity, daily average spill at BON has ranged from 123.8 to 207.8 Kcfs this week. Since 0600 on June 7th, flows at BON have been sufficiently low that spill to the 115%/120% spill cap has been possible. The tailrace monitor at Cascade Island has been out of service since May 13th, likely as a result of high flows and spill volumes. The 12-hour average TDG at the Warrendale gauge has been in the 119% to 125% range over the past week. Note: The State of Oregon TDG waiver only requires compliance with 120% TDG in the tailrace, while the State of Washington requires compliance with both a 115% TDG forebay requirement and a 120% tailrace TDG requirement. The State of Oregon and the State of Washington also 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.

Gas bubble trauma (GBT) monitoring in smolts took place over the past week at Lower Granite, Little Goose, Lower Monumental, Rock Island, McNary, and Bonneville dams this week. Signs of GBT were observed in eight of the nine GBT samples conducted this week (June 1-June 7). Bonneville observed signs of GBT in each of their samples on June 2nd and June 5th. In each of these samples, one fish (1.0%) had signs of fin GBT. All signs of GBT observed at BON this week were rank 1. Levels of GBT decreased at Rock Island this week, when compared to last week. In the samples on June 5th and June 7th, 14% and 6% of the fish examined had signs of fin GBT, respectively. Of the fish that had signs of fin GBT on June 5th, 12 were rank 1 and two were rank 2. McNary observed one fish (1.0%) with rank 1 signs of fin GBT in their sample on June 1st but zero fish had signs of GBT in their sample on June 7th. Lower Granite was only able to collect 35 fish for their GBT sample on June 7th. Of these, one had rank 1 signs of fin GBT. Caution is warranted when interpreting these data, as the required sample size was not met on this date. Little Goose observed one fish (1.0%) with rank 1 signs of GBT in their sample on June 4th. Lower Monumental observed ten fish (10.0%) with signs of fin GBT in their sample on June 6th. Of the fish that were observed to have signs of fin GBT, eight had rank 1 signs and two had rank 2 signs. The action criteria for interruption of the voluntary spill for fish passage program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins, or 5% of the fish examined showing severe signs of GBT in their non-paired fins. Severe signs of GBT are defined as more than 25% of the surface area of the fin is occluded by gas bubbles, which corresponds to a rank of 3 or 4. The 15% action criterion was not met this week.

**Temperature**

Forebay temperatures are now being reported for Lower Granite, Ice Harbor, McNary and Bonneville dams. Currently, temperatures at Bonneville and McNary dams are very similar to their respective 10-year averages. The daily average temperature for June 7th was 59.9 °F at Bonneville and 58.8 °F at McNary. The current 10-year average temperature at these two sites is 59.6 °F and 58.4 °F, respectively. However, current temperatures at Ice Harbor and Lower Granite are about two to three degrees above their respective 10-year averages. The daily average temperature for June 7th was 59.0 °F at Ice Harbor and 59.2 °F at Lower Granite. The current 10-year average temperature at these two sites is 57.3 °F and 56.2 °F, respectively.

**Smolt Monitoring**

Smolt Monitoring Program (SMP) activities continued at all bypass facilities this week. Sampling also continued at the Imnaha River trap this week.

This week’s samples at Bonneville Dam (BON) were dominated by subyearling Chinook. This week’s daily average passage index for subyearling Chinook was nearly 26,000 per day, which is an increase from last week’s daily average passage index of about 6,000 per day. Passage of spring migrants (yearling Chinook, coho, sockeye, and steelhead) all decreased this week, when compared to the previous week. This week’s daily average passage indices for spring migrants were 1,600 for yearling Chinook, 1,400 for coho, 1,275 for sockeye, and 1,100 for steelhead. Last week’s daily average passage indices for these four species were 6,900, 2,800, 6,250, and 2,700 per day, respectively. Pacific lamprey macrophthalmia were encountered every day this week while ammocoetes were encountered in three of this week’s samples. This week’s daily average collection for Pacific lamprey macrophthalmia was about 600 per day, which is an increase from last week’s daily average collection of 500 per day. Daily mortality rates for sockeye ranged from 0.0% to 5.6% this week.

Similar to the last two years, sampling at John Day Dam (JDA) is every-other-day. However, the Action Agencies and Salmon Managers implemented a coordinated operation at JDA, beginning Friday, May 25th. As part of this coordinated operation, daily sampling was implemented at JDA, beginning May
26th. Daily sampling continued through June 5th, after which every-other-day sampling resumed. Subyearling Chinook dominated this week’s samples at JDA. This week’s daily average passage index for subyearling Chinook was about 26,800 per day. This is a substantial increase over last week’s daily average passage index of about 5,300 per day. Passage of spring migrants all decreased this week, when compared to last week. This week’s daily average passage indices for these four species were 8,100, 4,000, 5,300, and 8,100 per day, respectively. Pacific lamprey macrophthalmia were encountered in all of this week’s samples while ammocoetes were encountered in five of this week’s six samples. This week’s daily average collection for Pacific lamprey macrophthalmia at JDA was 3,500 per day, which is a decrease from last week’s daily average collection of about 7,150 per day.

Similar to John Day, sampling at McNary (MCN) is every-other-day. However, the Action Agencies and Salmon Managers implemented a coordinated operation at MCN, beginning Wednesday, May 16th. This coordinated operation was renewed on Wednesday, May 23rd, at which time the salmon managers requested the implementation of daily sampling at MCN, beginning May 25th. Daily sampling was expected to continue through June 6th. However, an equipment failure above the juvenile fish facility caused the sample for June 3rd to terminate prematurely and prevented sampling on June 4th through June 6th. The sample for June 3rd is based on only 8.5 hours of sample data and, therefore, should not be compared to previous day’s samples. Sampling resumed at 0700 on June 7th. Data from this sample will be enumerated and transmitted to FPC on June 8th. Subyearling Chinook continued to dominate the samples at JDA this week. This week’s daily average passage index for subyearling Chinook was about 11,000 per day, which is a decrease from last week’s daily average passage index of about 58,000 per day. Yearling Chinook, coho, sockeye, and steelhead passage all decreased this week. This week’s daily average passage indices for these four species were 680, 1,000, 200, and 3,250 per day, respectively. Pacific lamprey macrophthalmia were encountered in only two of this week’s samples while ammocoetes were not encountered this week. The daily average collection for Pacific macrophthalmia over the May 1-May 2 period was 5,700 per day, which is a decrease from last week’s daily average collection of about 7,600 macrothalmia per day.

Subyearling Chinook continued to dominate the samples at Lower Granite Dam (LGR) this week. This week’s daily average passage index for subyearling Chinook was about 16,400 per day, which is a decrease from last week’s daily average passage index of about 5,300 per day. Passage of spring migrants all decreased this week. This week’s daily average passage indices for spring migrants were 1,200 for yearling Chinook, 850 for coho, 190 for sockeye, and 2,600 for steelhead. Last week’s daily average passage indices for these four species were 4,450, 3,550, 600, and 22,100 per day, respectively. Pacific lamprey macrophthalmia were encountered in three of this week’s samples and ammocoetes were encountered in all seven of this week’s samples.

Similar to recent years, sampling at Little Goose Dam (LGS) was every-other-day until the start of transportation (April 23rd), at which time sampling changed to every day. It is worth noting that, due to a separator cleanout, the sample on June 7th was a partial sample (21.75 hours) and, therefore, passage indices on this date are likely underestimates. Subyearling Chinook continued to dominate the samples at LGS this week. This week’s daily average passage index for subyearling Chinook was about 16,400 per day, which is a decrease from last week’s daily average passage index of about 58,000 per day. Yearling Chinook, coho, sockeye, and steelhead passage all decreased this week, when compared to the previous week. This week’s daily average passage indices for these four species were 680, 1,000, 200, and 3,250 per day, respectively. Last week’s daily average passage indices were 5,700 for yearling Chinook, 4,150 for coho, 1,900 for sockeye, and 18,300 for steelhead. Finally, Pacific lamprey macrophthalmia were encountered in only two of this week’s samples while ammocoetes were encountered in four of this week’s samples.

Sampling at Lower Monumental Dam (LMN) was every-third-day through April 14th, transitioned to every-other-day through April 23rd, and then transitioned to every day with the start of transportation. This week’s samples at LMN were dominated by subyearling Chinook. This week’s daily average
Passage index for subyearling Chinook was about nearly 15,000 per day, which is a decrease from last week’s daily average passage index of about 26,000 per day. Passage of spring migrants all decreased this week, when compared to last week. This week’s daily average passage indices for spring migrants were 900 for yearling Chinook, 500 for coho, 170 for sockeye, and 1,600 for steelhead. Last week’s daily average passage indices for these four species were 2,800, 860, 1,700, and 7,350 per day, respectively. Finally, Pacific lamprey macrophthalmia were encountered in six of this week’s samples and ammocoetes were encountered in four of this week’s samples. This week’s daily average collection for Pacific lamprey macrothalmia was about 800 per day, which is a decrease from last week’s daily average collection of about 960 per day.

Subyearling Chinook dominated this week’s samples at Rock Island Dam (RIS). This week’s daily average passage index for subyearling Chinook was 540 per day, which is slightly lower than last week’s daily average passage index of 590 per day. Passage of most spring migrants decreased this week, when compared to the previous week. The one exception to this was steelhead, where passage this week was higher than last week. This week’s daily average passage index for steelhead at RIS was 365 per day. Last week’s daily average passage index for steelhead was 280 per day. Pacific lamprey macrophthalmia and Pacific ammocoetes were collected in three of this week’s samples.

The Snake River Trap at Lewiston, ID (LEW) is located at river kilometer 225 of the Snake River and is operated by the Idaho Department of Fish and Game. Due to high flows and upcoming releases of listed subyearling fall Chinook above the trap, sampling at LEW was terminated after the sample on May 11th.

The Grande Ronde Trap (GRN) is located at river kilometer 2 of the Grande Ronde River and is operated by the Oregon Department of Fish and Wildlife. Sampling at GRN was terminated for the season after the sample on May 26th.

The Salmon River Trap at Whitebird (WTB) is located at river kilometer 103 of the Salmon River and is operated by the Idaho Department of Fish and Game. Due to high flows, sampling for the 2018 season was terminated after the sample on May 4th.

The Imnaha River Trap (IMN) is located at river kilometer 7 of the Imnaha River and is operated by the Nez Perce Tribe. Sampling at the Imnaha River Trap is year round. For 2018, the FPC currently has data from IMN for the period of February 15 through June 2nd. However, the trap was not operated on May 27th through May 29th due to high water. In addition, many of the samples over the last few weeks have been partial samples (i.e., less than 24 hours) due to high flows and debris. Therefore, comparing collections between weeks is not advised, as the collection counts reflect the number of hours that were sampled. Steelhead dominated the collections over the last four days of available data (May 30-June 2). The daily average collection for steelhead during this period was about 40 per day. The daily average collection for yearling Chinook over this period was nearly 10 fish per day. The sample on June 2nd was a full sample. Collections for this sample were 57 steelhead, 23 yearling Chinook, and 2 subyearling Chinook.

**Hatchery Releases**

FPC has not received preliminary data from some hatcheries as of 06/08/18, therefore, this hatchery release schedule represents the most up to date accounting that are available, but should not be considered a finalized record of hatchery releases.

**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. In the past week there were approximately 960,000 fall Chinook juveniles released into this zone. Of these, 660,000 were released at the Nez Perce Tribal Hatchery, and another 300,000 were released at the Cedar Flats acclimation pond on the Selway River.

In the next two weeks, there are no more scheduled releases in this zone.

**Upper Columbia Zone:**

The Upper Columbia Zone encompasses the area of the Columbia River and its tributaries from Priest Rapids Dam to Chief Joseph Dam. In the past week there were no scheduled releases into this zone, nor are there any scheduled for the next two.

**Middle Columbia Zone:**

The Middle Columbia Zone is defined as the Columbia River and its tributaries from Bonneville...
Dam to Priest Rapids Dam (excluding the Snake River). Over the past week there were 5,000 fall Chinook subyearlings released into this zone. These were all in the Yakima River and consisted of three separate releases of less than 2,000 fish each.

Over the next two weeks just over 2 million subyearling fall Chinook are scheduled for release into this zone. Almost all of these will be released from Priest Rapids Hatchery, with another three releases into the Yakima River, again, totaling approximately 5,000 fish.

Over the next two weeks there are approximately 5.5 million fall Chinook subyearlings scheduled to be released into this zone. Three million of these are planned releases from the Priest Rapids Hatchery of 1 million each on the 11th, 15th, and 20th. The remaining 2.5 million will be released from Ringold Springs Hatchery on June 18th.

**Lower Columbia Zone:**

The Lower Columbia Zone is defined as the Columbia River and its tributaries below Bonneville Dam. There were no scheduled releases into this zone over the past week, nor are there any scheduled over the next two weeks.

**Adult Passage**

The summer Chinook adult passage count began June 1st at Bonneville Dam. Daily passage numbers at Bonneville Dam ranged between 996 and 1,403 adult Chinook in the last week. The 2018 adult summer Chinook count of 7,408 is about 79% of the 2017 count of 9,371 and about 61.1% of the 10-year average count of 12,119. The 2018 Bonneville Dam summer Chinook jack count of 395 is about 28.4% of the 2017 count and 16.3% of the 10-year average count. The 2018 Bonneville Dam adult spring Chinook count is about 1.7 times greater than the 2017 count, while being 46.6% of the 10-year average count. The 2018 Bonneville Dam adult steelhead count of 4,038 is about 1.2 times greater than the 2017 count of 3,484, while being about 68% of the 10-year average count of 5,936. The 2018 Bonneville Dam adult unclipped steelhead count of 1,598 is about 1.5 times greater than the 2017 count of 1,089, while being about 89.8% of the 10-year average count of 1,780. This year’s Lower Granite steelhead count of 4,531 is about 62% of the 2017 count of 7,308 and about 52% of the 10-year average count of 8,716. The 2018 Lower Granite Dam adult unclipped steelhead count of 1,260 is about 41.3% of the 2017 count of 3,052 and about 34.4% of the 10-year average count of 3,664. At Willamette Falls, the 2018 count for steelhead was 5,718 as of June 6th. This year’s steelhead count is about 3.5 times greater than the 2017 count of 1,646, while being about 43.9% of the 10-year average count of 13,033.

**Daily adult sockeye passage numbers at** Bonneville Dam ranged between 28 and 361 last week. The 2018 adult sockeye count at Bonneville Dam of 1,022 is about 2 times greater than the 2017 count, while being about 71% of the 10-year average count. A total of 4,772 lampreys have been counted at Bonneville Dam so far this year. The Bonneville 2018 lamprey count is about 60.9% of the 2017 count of 7,840, while being about 1.8 times greater than the 10-year average count of 2,591.
## Hatchery Releases Last Two Weeks

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**CH** = Chinook, **ST** = Steelhead, **CO** = Coho, **SO** = Sockeye, **CT** = Cutthroat Trout, **CM** = Chum
## Hatchery Releases Next Two Weeks

### Hatchery Release Summary

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CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum
### Daily Average Flow and Spill (in Kcfs) at Mid-Columbia Projects

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

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

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Samples marked with an asterisk indicate the sample size criteria of 100 fish was not met due to insufficient numbers of fish to sample that day. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT, and no estimate is provided.

The action criteria for interruption of the voluntary spill for fish program is defined as either 15% of examined fish showing signs of gas bubble trauma in their non-paired fins, or 5% of the fish examined showing severe signs of gas bubble trauma in their non-paired fins where severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to ranks.
### Total Dissolved Gas Saturation(%) - Average of 12 Highest Hours, 24 Hours Average and 24 Hours High (Washington Calculation)

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#### Total Dissolved Gas Data at Upper Columbia Sites

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#### Total Dissolved Gas Data at Upper Columbia Sites

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### Total Dissolved Gas Data at Upper Columbia Sites

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- No data available or no sample conducted
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**YTD:** 0 0 1,224 1,365 258,747 211,674 39,866 43,367 222,060 116,464 461,101

- No data available or no sample conducted

Number of hours sampled:
## Smolt Monitoring Program
### Two Week Passage Index Report

**FISH PASSAGE CENTER**

**Date:** 6/8/2018 7:17:27 AM

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- RIS (Index): 324
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- 18
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- 24

- No data available or no sample conducted
### Smolt Monitoring Program
#### Two Week Passage Index Report

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Total: 0 0 0 0 65 4,700 13,100 13 67,100 65,380 8,075

# Days: 0 6 2 0 19 20 20 17 13 20 21

Average: 0 0 0 0 3 235 655 1 5,162 3,269 385

YTD: 1 3 279 34,034 55,300 332 216,312 224,023 24,519

- No data available or no sample conducted
- 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.
Smolt Monitoring Program
Two Week Passage Index Report

Smolt Monitoring Program Sites and Agency Collaborations:
- 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
- LGS (Index) - Little Goose Bypass Collection System: Passage Index Counts
- LMN (Index) - Lower Monumental Dam Bypass Collection System: Passage Index Counts
- MCN (Index) - McNary Dam Bypass Collection System: Passage Index Counts
- JDA (Index) - John Day Dam Bypass Collection System: Passage Index Counts
- BO2 (Index) - Bonneville Dam Second Powerhouse Bypass Collection System: Passage Index Counts

- No data available or no sample conducted

Important Information About this Report:
- For clip information see: http://www.fpc.org/currentdaily/smpcomments.htm
- Three 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. Equations for passage index are provided below for each site.
    - LGR, LGS, LMN, MCN, JDA (Index) = Lower Granite Dam Bypass Collection System: Passage Index Counts
    - RIS, BO2 (Index) = Rock Island Dam Second Powerhouse Bypass Trap: Passage Index Counts
  - 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 macropthalmia, and unidentified lamprey species.
  - 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.
### Lower Granite Dam

<table>
<thead>
<tr>
<th>Data</th>
<th>Chinook Subyearlings</th>
<th>Chinook Yearlings</th>
<th>Coho</th>
<th>Sockeye</th>
<th>Steelhead</th>
<th>Grand Total</th>
</tr>
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<tbody>
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### Little Goose Dam

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## Two Week Transportation Summary Report

**5/25/2018 12:00:00 AM TO 6/8/2018 12:00:00 AM**

### Lower Monumental Dam

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<th>Coho</th>
<th>Sockeye</th>
<th>Steelhead</th>
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## YTD Transportation Summary Report

### Lower Granite Dam

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### Little Goose Dam

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## Lower Monumental Dam

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<th>Sockeye</th>
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## Total

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### Cumulative Adult Passage at Mainstem Dams Through: 06/07

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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.

Page last updated on: 06/08/18