



Fish Passage Center

Weekly Report #13 - 15

June 28, 2013

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied over June, ranging between 46% and 175% of average at individual sub-basins over June. Precipitation above The Dalles has been 111% of average over June. Over the 2013 water year, precipitation has ranged between 70% and 112% of average.

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

| Location | Water Year 2013 June 1-26, 2013 | | Water Year 2013 October 1, 2012 to June 26, 2013 | |
|-------------------------------|------------------------------------|--------------|--------------------------------------------------------|--------------|
| | Observed (inches) | % Average | Observed (inches) | % Average |
| Columbia Above Coulee | 3.91 | 140 | 32.1 | 103 |
| Sneke River Above Ice Harbor | 0.99 | 69 | 14.6 | 74 |
| Columbia Above The Dalles | 2.00 | 111 | 20.6 | 87 |
| Kootenai | 5.51 | 175 | 35.8 | 112 |
| Clark Fork | 2.05 | 96 | 18.3 | 78 |
| Flathead | 3.13 | 115 | 31.2 | 102 |
| Pend Oreille Basin | 2.82 | 116 | 25.5 | 91 |
| Sneke Basin abv Hells Canyon | 0.51 | 46 | 11.5 | 71 |
| Salmon River Basin | 1.51 | 71 | 17.4 | 70 |
| Clearwater | 2.56 | 99 | 31.6 | 87 |
| Willamette River abv Portland | 2.02 | 94 | 55.1 | 91 |

Snowpack in the Columbia River for basins above the Snake River confluence is now at 82% of average, for Snake River Basins the average snowpack is now 7% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is currently 0% of average.

Table 2 displays the April 7th and June 26th ESP runoff volume forecasts for multiple reservoirs. The June 26th forecast at The Dalles between January and July is 98,287 Kaf (97% of average).

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

| Location | April 7, 2013 ESP | | June 26, 2013 ESP | |
|-----------------------------------------|---------------------------------|---------------------------|------------------------------|---------------------------|
| | % Average (1971- 2000) | Runoff Volume (Kaf) | % Average (1981- 2010) | Runoff Volume (Kaf) |
| The Dalles (Jan-July) | 93 | 94287 | 97 | 98287 |
| Grand Coulee (Jan-July) | 101 | 60415 | 107 | 64052 |
| Libby Res. Inflow, MT (Apr-Aug) | 102 | 6001 *6189 | 124 | 7309 **6464 |
| Hungry Horse Res. Inflow, MT (Jan-July) | 99 | 2084 | 108 | 2267 |
| Lower Granite Res. Inflow (Apr- July) | 83 | 16485 | 72 | 14211 |
| Brownlee Res. Inflow (Apr-July) | 62 | 3376 | 47 | 2574 |
| Dworshak Res. Inflow (Apr-July) | 96 | 2319 *2036 | 89 | 2146 **2158 |

* Denotes COE April Forecast

** Denotes COE June Forecast

Grand Coulee Reservoir is at 1287.8 feet (6-27-13) and refilled 0.3 feet over the last week. Outflows at Grand Coulee have ranged between 168.5 and 191.3 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2454.5 feet (6-27-13) and has refilled 9.6 feet last week. Outflows at Libby Dam have been 25.9-29.1 Kcfs over the last week; inflows to Libby have ranged from 47.2 Kcfs to 89.1 Kcfs over the same period.

Hungry Horse is currently at an elevation of 3558.0 feet (6-27-13) and has refilled 1.1 feet last week. Outflows at Hungry Horse Dam have ranged from 5.0 Kcfs to 6.7 Kcfs over the last week.

Dworshak is currently at an elevation of 1600.0 feet (6-27-13) and has refilled 0.2 feet last week. Outflows from Dworshak have varied between 5.3-8.3 Kcfs

over the last week. Inflows to Dworshak have ranged between 5.3 Kcfs to 7.1 Kcfs last week.

The Brownlee Reservoir was at an elevation of 2076.7 feet on June 27th, 2013 holding steady over the last week. Over the last week, inflows at Brownlee have ranged between 9.2 and 10.0 Kcfs.

The Spring Biological Opinion flow period began on April 3rd and ended on June 20th in the lower Snake River (Lower Granite). According to the April Final Water Supply Forecast, the flow objective this spring was 85 Kcfs at Lower Granite. Flows at Lower Granite Dam have averaged 67.9 Kcfs from April 3rd-June 20th. The flow objective at Lower Granite over the summer period (June 21st to August 31st) is 50 Kcfs, over the first week of the summer period flows at Lower Granite have averaged 45.6 Kcfs.

Based on the April Final Water Supply Forecast, the Spring Biological Opinion Flow Objectives will be 226 Kcfs at McNary Dam (began April 10th) and 135 Kcfs at Priest Rapids Dam (began April 10th). Flows at McNary Dam have averaged 261.1 Kcfs between April 10th and June 27th. Over the last week flows at McNary have averaged 261.6 Kcfs. Flows at Priest Rapids Dam have averaged 185.6 Kcfs between April 10th and June 27th. Over the last week flows have averaged 211.9 Kcfs at Priest Rapids.

Spill: Spring spill for fish passage began on April 3rd and ended June 20th at the lower Snake River projects. Summer Spill began on June 20th and will extend through August 31.

| Project | Spill Level Day/Night |
|------------------|-----------------------------|
| Lower Granite | 18 Kcfs/18 Kcfs |
| Little Goose | 30%/30% |
| Lower Monumental | 17 Kcfs/17 Kcfs |
| Ice Harbor | 30%/30% vs. 45 kcfs/Gas Cap |

Flow in the Snake River remained relatively steady over the past week. All the lower Snake River dams met the Court Order summer spill levels described in the table. Summer spill levels began at midnight on June 21st.

Spring spill for fish passage at the Lower Columbia projects began on April 10th and will continue through June 30th except at Bonneville Dam.

| Project | Spill Level Day/Night |
|------------|-------------------------------------|
| McNary | 40%/40% |
| John Day | Testing: 30%/30% vs. 40%/40% |
| The Dalles | 40%/40% |
| Bonneville | 100 Kcfs/100 Kcfs |

Flow in the lower Columbia River has remained relatively steady over the past week. At McNary Dam spill met the Court Order spill of 40% of instantaneous flow. At John Day Dam the COE implemented the test conditions of 30% versus 40%. At The Dalles Dam spill met the Court Order spill of 40% of instantaneous flow. At Bonneville Dam spill switched to the summer spill levels on June 16th, earlier than the other lower Columbia projects. Spill was 100 Kcfs instantaneously until June 16th, and then changed to alternating every two days between 95 Kcfs day and night and 85 Kcfs during the day and 121 Kcfs during nighttime hours.

In the past week, TDG estimates were below the 115/120% TDG standards. Based on historic data collected since 1995 through the gas bubble trauma (GBT) monitoring program, we would not expect to see fish exhibit signs of GBT at the present TDG levels. Consistent with historic data, no fish were detected with signs of GBT this past week.

Smolt Monitoring: Smolt monitoring is ongoing at all seven SMP dams (BON, JDA, MCN, RIS, LMN, LGS, and LGR). The Imnaha River Trap is the only trap that continues to operate for the 2013 season.

Passage of all spring migrant salmonid species decreased this week at BON, when compared to last week. This week's daily average passage indices for yearling Chinook, coho, sockeye, and steelhead at BON were about 400, 500, 40, and 500 per day, respectively. This week's daily average passage index for subyearling Chinook was about 23,500, which was a large increase over last week's daily average passage index of about 7,000 per day. Finally, only pacific lamprey macrophthalmia were collected at BON this week. Pacific macrophthalmia were collected six of the seven days of sampling, with a daily average collection for the week of 26 per day.

Subyearling Chinook dominated the bypass sample at JDA this week. This week's daily average

passage index for subyearling Chinook was about 38,900 per day, which is an increase over last week's daily average passage index of about 23,100 per day. Passage of yearling Chinook decreased this week, as did indices for steelhead and coho. This week's daily average passage index for yearling Chinook at JDA was about 500 per day. Last week's daily average passage index for yearling Chinook was just over 1,200 per day. This week's daily average passage indices for steelhead, sockeye, and coho at JDA were about 260, 200, and 60 per day, respectively. Last week's daily average passage indices were about 400 for steelhead, 140 for sockeye, and 200 for coho. Finally, only pacific lamprey macrophthalmia were sampled at JDA this week. Passage of pacific lamprey macrophthalmia decreased this week, when compared to last week. The daily average collection for pacific lamprey macrophthalmia this week was about 525 per day. Last week's daily average collection was about 1,500 per day.

Sampling at MCN for the 2013 season is every-other-day. Passage of nearly all salmonid species decreased this week, when compared to last week. However, subyearling Chinook passage increased slightly. This week's daily average passage index for subyearling Chinook at MCN was over 103,000 per day. Last week's daily average passage index for subyearling Chinook was about 102,000 per day. Pacific lamprey macrophthalmia continue to be the only species and life-stage of lamprey collected at MCN this season. This week's daily average collection for pacific lamprey macrophthalmia was about 400, which was lower than last week's daily average collection of about 700 per day. Two samples in the last two weeks have been shortened due to technical issues with the bypass. During the sample that ended on June 26 the bypass channel was shutdown for long periods due to a bypass channel overflow thus biasing the 24-hour sample. Also, the sample that ended on June 20 was not a full sample. Sampling was halted twice during the normal 24-hour sample. At midnight the bypass was switched to primary bypass due to the lack of a separator technician for that shift. Then at 0800 an "extreme" water surge in the bypass channel flooded the separator and the bypass was again returned to primary bypass until the source of the surge was identified. According to the COE "... Investigation revealed that the surge had resulted from a severe water fluctuation in the juvenile collection channel in the powerhouse. The surge occurred

when an electrician was working on the switching mechanisms for the two side dewatering valves in the collection channel, which control the water level in the juvenile channel. So the sample for June 20 represents a biased sample due a shortened time period of sampling (approximately 16.75 hours).

Subyearling Chinook continued to dominate the bypass samples at LGR this week. This week's daily average passage index for subyearling Chinook was about 6,800 per day, which was lower than last week's daily average passage index of about 7,900 per day. Passage of all other juvenile salmonids decreased, or was very low this past week. This week's daily average passage indices for yearling Chinook and steelhead at LGR were about 20 and 200 per day, respectively. Last week's daily average passage indices were about 60 for yearling Chinook and 300 for steelhead. Passage of coho and sockeye was very low this week at LGR also. This week's daily average passage indices for coho and sockeye at LGR were 0 and 7 per day, respectively. No estimated lamprey juveniles were collected at LGR this week. Finally, due to the possible resampling of PIT-tagged research fish that are released into the gatewells, daily estimates of subyearling Chinook collection and passage indices may have been inflated. The FPC is aware of this possible bias and is investigating ways to correct these inflated estimates after the research has ended. However, the magnitude of this bias is relatively low and is unlikely to skew estimates of timing for this species.

Passage of subyearling Chinook at LGS decreased slightly this week. This week's daily average passage index for subyearling Chinook at LGS was about 8,200 per day. Last week's daily average passage index was about 9,900 per day. Yearling Chinook, coho, and steelhead passage at LGS continued to decrease this week, when compared to last week. The largest decrease among these species was for steelhead. The daily average passage index for steelhead was 500 per day. Last week's daily average passage index for steelhead was about 1,000 per day. Finally, both pacific lamprey macrophthalmia and pacific ammocoetes were collected at LGS this week.

Similar to LGS, passage of spring migrants continued to decrease at LMN this week. As with LGR and LGS, subyearling Chinook continued to predominate in passage at LMN this week. This week's daily average passage index for subyearling Chinook

at LMN was about 4,200 per day. Last week's daily average passage index was only about 4,600 per day. Only pacific lamprey macrophthalmia were collected at LMN this week. This week's daily average collection for pacific lamprey macrophthalmia was 200 per day.

This week's collections at RIS were also dominated by subyearling Chinook. And, when compared to last week, subyearling Chinook passage decreased this week. This week's daily average passage index for subyearling Chinook at RIS was about 80 per day. Last week's daily average passage index for subyearling Chinook was about 150 per day. Passage of yearling Chinook, coho, sockeye, and steelhead all decreased this week, when compared to last week. This week's daily average passage indices for yearling Chinook, coho, sockeye, and steelhead at RIS were about 5, 18, 7, and 9 per day, respectively. Last week's daily average passage indices were about 9 for yearling Chinook, 36 for coho, 3 for sockeye, and 8 for steelhead. Finally, one to two pacific lamprey macrophthalmia were collected six of the seven sample days this week.

As with previous weeks, the Imnaha River Trap continues to collect only steelhead and Chinook at this time. However, this week the sample numbers declined and with the average daily collections of yearling Chinook at 22 per day and for steelhead the collections averaged 10 per day.

Hatchery Release:

Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. A release of approximately 400,000 parr was scheduled to begin on June 25th. These will outmigrate in 2014 and are all unmarked, and will therefore be undistinguishable from wild spring Chinook.

Over the next two weeks, approximately 300,000 parr are scheduled for release into the Selway River. These will outmigrate in 2014 and are all unmarked, and will therefore be undistinguishable from wild spring Chinook.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no new releases scheduled for the past week. There are also no new releases scheduled to begin in the next two weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no new releases scheduled to begin over the last week. There is one release of approximately 2.5 million fall Chinook subyearlings scheduled for July 1st on the Little White Salmon River. All of these smolts will be marked.

Adult Fish Passage:

The summer Chinook count began June 1st at Bonneville Dam. Daily passage numbers at Bonneville Dam ranged between 1,406 and 2,482 adult summer Chinook in the last week. The 2013 summer Chinook count of 55,848 is about 1.08 times greater than the 2012 count of 51,429 and 1.02 times greater than the 10-year average count of 54,458. The 2013 Bonneville Dam summer Chinook jack count of 16,914 is 2.9 times greater than the 2012 count of 5,852 and 1.6 times greater than the 10-year average count of 10,383. At McNary Dam 36,541 adult summer Chinook have been counted. The 2013 adult summer Chinook count at McNary Dam is about 1.3 times greater than the 2012 count and the 10-year average. The 2013 McNary Dam summer Chinook jack count of 7,968 is about 4.8 times greater than the 2012 count and 1.6 times greater than the 10-year average count. The 2013 adult summer Chinook count at Lower Granite Dam in the Snake River of 2,983 is about 49.3% of the 2012 count and 39.7% of the 10 year average count. The 2013 Lower Granite summer Chinook jack count of 2,719 is about 4.3 times greater than the 2012 count, while being 1.3 times greater than the 10 year average count.

The 2013 Bonneville Dam adult steelhead count of 6,624 is about 53.4% of the 2012 count of 12,393 and 45.8% of the 10-year average count of 14,458. The 2013 Bonneville Dam adult wild steelhead count of 1,832 is about 47.8% of the 2012 count of 3,828 and 43.7% of the 10-year average count of 4,188. In the Snake River, this year's Lower Granite steelhead count of 7,519 is about 83.4% of the 2012 count of 9,000 and 76.5% of the 10-year average count of 9,833. The 2013 Lower Granite Dam adult wild steelhead count of 3,254 is about 82.2% of the 2012 count of 3,959, while having 24 more fish than the 10-year average count of 3,230. At Willamette Falls, the 2013 count for steelhead was 15,221 as of June 22nd. This year's steelhead count is about 56.2% of the 2012 count of 27,094 and about 72.1% of the 10-year average count of 21,118.

Daily adult sockeye passage numbers at Bonneville Dam ranged between 6,115 and 9,001 last week. The 2013 adult sockeye count at Bonneville Dam of 95,669 is about 29.8% of the 2012 count of 321,462 and about 86.1% of the 10-year average count of 111,136. The 2013 McNary Dam adult sockeye count of 44,173 is about 38.7% of the 2012 count of 113,994, while being about 1.05 times greater than the 10 year average count of 42,068. The Lower Granite Dam 2013 adult sockeye count of 21 is 7 times greater than the 2012 count of 3 and 4.2 times greater than the 10 year average count of 5. As of June 27th at Bonneville Dam, the adult shad count was 3,657,985. This year's shad count is about 1.6 times greater than the 2012 count of 2,217,787 and 1.4 times greater than the 10 year average count of 2,635,374.

Hatchery Releases Last Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|----------------------------------------------------|---------------------------|---------|------|-------|-------------------|----------|----------|---------------------------|--------------------|
| From: | 6/14/2013 | | to | | 06/27/13 | | | | |
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | SP | 2014 | 400,000 | 06-25-13 | 06-29-13 | Meadow Creek - SELW | Selway River |
| Nez Perce Tribe Total | | | | | 400,000 | | | | |
| Washington Dept. of Fish and Wildlife | Eastbank Hatchery | ST | SU | 2013 | 24,000 | 04-25-13 | 06-20-13 | Blackbird Island Acc Pond | Wenatchee River |
| Washington Dept. of Fish and Wildlife | Priest Rapids Hatchery | CH0 | FA | 2013 | 6,700,000 | 06-10-13 | 06-20-13 | Priest Rapids Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Ringold Springs Hatchery | CH0 | FA | 2013 | 3,450,000 | 06-20-13 | 07-15-13 | Ringold Springs Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife Total | | | | | 10,174,000 | | | | |
| Yakama Tribe | Eagle Creek NFH | CO | UN | 2013 | 102,975 | 04-15-13 | 07-01-13 | Stiles Pond | Yakima River |
| Yakama Tribe | Eagle Creek NFH | CO | UN | 2013 | 104,059 | 04-15-13 | 07-01-13 | Holmes Pond | Yakima River |
| Yakama Tribe | Eagle Creek NFH | CO | UN | 2013 | 237,043 | 04-15-13 | 07-01-13 | Easton Pond | Yakima River |
| Yakama Tribe | Klickitat Hatchery | CH0 | FA | 2013 | 3,500,000 | 06-17-13 | 06-17-13 | Klickitat Hatchery | Klickitat River |
| Yakama Tribe | Prosser Acclim. Pond | CO | UN | 2013 | 124,425 | 04-15-13 | 07-01-13 | Lost Creek Acclim Pond | Yakima River |
| Yakama Tribe | Prosser Acclim. Pond | CO | UN | 2013 | 131,858 | 04-15-13 | 07-01-13 | Stiles Pond | Yakima River |
| Yakama Tribe | Prosser Acclim. Pond | CO | UN | 2013 | 322,100 | 04-01-13 | 07-01-13 | Prosser Acclim Pond | Yakima River |
| Yakama Tribe Total | | | | | 4,522,460 | | | | |
| Grand Total | | | | | 15,096,460 | | | | |

Hatchery Releases Next Two Weeks

| Hatchery Release Summary | | | | | | | | | |
|----------------------------------------------------|---------------------------|---------|------|-------|------------------|----------|----------|----------------------------------|------------------------------|
| From: | 6/28/2013 | | to | | 7/11/2013 | | | | |
| Agency | Hatchery | Species | Race | MiqYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Nez Perce Tribe | Dworshak NFH | CH0 | SP | 2014 | 300,000 | 07-01-13 | 08-01-13 | Selway River Meadow Creek - | Clearwater River M F |
| Nez Perce Tribe | Nez Perce Tribal Hatchery | CH0 | SP | 2014 | 400,000 | 06-25-13 | 06-29-13 | SELW | Selway River |
| Nez Perce Tribe Total | | | | | 700,000 | | | | |
| U.S. Fish and Wildlife Service | Little White Salmon NFH | CH0 | FA | 2013 | 2,500,000 | 07-01-13 | 07-01-13 | Little White Salmon Hatchery | Little White Salmon River |
| U.S. Fish and Wildlife Service Total | | | | | 2,500,000 | | | | |
| Washington Dept. of Fish and Wildlife | Ringold Springs Hatchery | CH0 | FA | 2013 | 3,450,000 | 06-20-13 | 07-15-13 | Ringold Springs Hatchery | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife Total | | | | | 3,450,000 | | | | |
| Yakama Tribe | Eagle Creek NFH | CO | UN | 2013 | 102,975 | 04-15-13 | 07-01-13 | Stiles Pond | Yakima River |
| Yakama Tribe | Eagle Creek NFH | CO | UN | 2013 | 104,059 | 04-15-13 | 07-01-13 | Holmes Pond | Yakima River |
| Yakama Tribe | Eagle Creek NFH | CO | UN | 2013 | 237,043 | 04-15-13 | 07-01-13 | Easton Pond Lost Creek Acclim | Yakima River |
| Yakama Tribe | Prosser Acclim. Pond | CO | UN | 2013 | 124,425 | 04-15-13 | 07-01-13 | Pond | Yakima River |
| Yakama Tribe | Prosser Acclim. Pond | CO | UN | 2013 | 131,858 | 04-15-13 | 07-01-13 | Stiles Pond | Yakima River |
| Yakama Tribe | Prosser Acclim. Pond | CO | UN | 2013 | 322,100 | 04-01-13 | 07-01-13 | Prosser Acclim Pond | Yakima River |
| Yakama Tribe Total | | | | | 1,022,460 | | | | |
| Grand Total | | | | | 7,672,460 | | | | |

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

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

| Date | Grand Coulee | | Chief Joseph | | Wells | | Rocky Reach | | Rock Island | | Wanapum | | Priest Rapids | |
|------------|--------------|-------|--------------|-------|-------|-------|-------------|-------|-------------|-------|---------|-------|---------------|-------|
| | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 06/14/2013 | 142.5 | 0.1 | 141.3 | 0.0 | 160.7 | 10.0 | 163.0 | 15.2 | 170.1 | 34.5 | 175.8 | 34.2 | 169.4 | 27.5 |
| 06/15/2013 | 143.3 | 0.1 | 145.5 | 0.0 | 153.3 | 10.0 | 149.1 | 13.4 | 156.8 | 31.5 | 167.2 | 26.0 | 160.7 | 27.5 |
| 06/16/2013 | 127.2 | 0.1 | 123.4 | 0.0 | 140.8 | 10.0 | 144.4 | 13.2 | 152.2 | 29.7 | 163.0 | 25.5 | 162.2 | 30.4 |
| 06/17/2013 | 144.1 | 0.2 | 146.2 | 0.0 | 158.4 | 13.1 | 155.6 | 14.8 | 168.1 | 33.0 | 170.5 | 30.4 | 167.2 | 27.0 |
| 06/18/2013 | 135.6 | 0.2 | 136.0 | 0.0 | 151.7 | 10.0 | 154.2 | 14.7 | 162.7 | 33.8 | 169.5 | 30.7 | 166.1 | 34.4 |
| 06/19/2013 | 117.7 | 0.2 | 116.7 | 0.0 | 136.0 | 10.0 | 139.5 | 14.5 | 150.7 | 33.7 | 164.0 | 24.9 | 165.0 | 28.3 |
| 06/20/2013 | 133.2 | 0.1 | 128.9 | 0.0 | 138.2 | 10.0 | 136.5 | 14.4 | 143.5 | 33.5 | 154.3 | 19.7 | 149.4 | 20.0 |
| 06/21/2013 | 168.5 | 0.1 | 170.6 | 7.9 | 181.0 | 23.6 | 178.2 | 19.9 | 180.6 | 33.9 | 181.6 | 49.8 | 175.3 | 51.6 |
| 06/22/2013 | 178.1 | 0.1 | 174.7 | 0.0 | 183.4 | 19.7 | 193.1 | 24.7 | 201.8 | 30.9 | 212.8 | 74.4 | 214.4 | 73.8 |
| 06/23/2013 | 182.0 | 0.1 | 181.8 | 0.0 | 189.5 | 22.3 | 197.5 | 23.5 | 201.5 | 36.2 | 208.2 | 75.5 | 208.0 | 64.9 |
| 06/24/2013 | 178.5 | 0.1 | 180.4 | 0.0 | 194.7 | 18.5 | 201.6 | 31.2 | 204.0 | 38.1 | 219.8 | 89.0 | 224.2 | 90.3 |
| 06/25/2013 | 176.7 | 3.3 | 179.9 | 4.4 | 202.2 | 19.4 | 199.8 | 22.2 | 201.2 | 41.0 | 211.5 | 70.0 | 212.5 | 82.8 |
| 06/26/2013 | 182.5 | 11.1 | 183.7 | 10.6 | 207.1 | 27.1 | 204.6 | 30.0 | 207.3 | 40.3 | 219.0 | 83.7 | 223.1 | 81.1 |
| 06/27/2013 | 191.3 | 20.3 | 188.3 | 15.1 | 211.6 | 23.7 | 210.9 | 35.0 | 212.9 | 40.1 | 224.1 | 89.8 | 226.1 | 89.8 |

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

| Date | Dworshak | | Hells Brownlee Canyon | | Lower Granite | | Little Goose | | Lower Monumental | | Ice Harbor | |
|------------|----------|-------|-----------------------|---------|---------------|-------|--------------|-------|------------------|-------|------------|-------|
| | Flow | Spill | Inflow | Outflow | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 06/14/2013 | 6.2 | 0.0 | --- | --- | 57.1 | 20.3 | 55.4 | 16.6 | 56.5 | 22.9 | 56.5 | 17.0 |
| 06/15/2013 | 5.3 | 0.0 | --- | --- | 52.6 | 20.3 | 51.5 | 15.4 | 53.3 | 23.8 | 54.3 | 37.8 |
| 06/16/2013 | 5.3 | 0.0 | --- | --- | 45.9 | 20.4 | 43.3 | 13.0 | 44.8 | 24.0 | 44.3 | 33.8 |
| 06/17/2013 | 6.1 | 0.0 | --- | --- | 46.6 | 20.4 | 45.4 | 13.6 | 47.5 | 23.6 | 47.5 | 17.9 |
| 06/18/2013 | 6.9 | 0.0 | --- | --- | 48.5 | 20.3 | 46.7 | 14.1 | 51.1 | 24.9 | 52.2 | 15.6 |
| 06/19/2013 | 7.4 | 0.0 | --- | --- | 47.9 | 20.4 | 46.4 | 13.9 | 48.5 | 25.5 | 48.1 | 33.5 |
| 06/20/2013 | 9.6 | 1.0 | --- | --- | 51.7 | 18.6 | 50.4 | 15.1 | 52.1 | 26.0 | 52.2 | 41.6 |
| 06/21/2013 | 8.3 | 1.1 | --- | --- | 58.3 | 18.6 | 59.1 | 17.7 | 60.4 | 16.6 | 62.5 | 25.2 |
| 06/22/2013 | 5.3 | 0.0 | --- | --- | 43.1 | 18.5 | 43.1 | 12.9 | 42.9 | 17.0 | 44.0 | 13.2 |
| 06/23/2013 | 5.3 | 0.0 | --- | --- | 42.5 | 18.5 | 42.3 | 12.7 | 43.2 | 16.8 | 42.4 | 29.5 |
| 06/24/2013 | 5.3 | 0.0 | --- | --- | 41.4 | 18.5 | 40.8 | 12.2 | 41.5 | 16.9 | 42.0 | 31.8 |
| 06/25/2013 | 5.8 | 0.0 | --- | --- | 40.4 | 18.5 | 42.4 | 12.7 | 48.1 | 16.6 | 44.8 | 17.9 |
| 06/26/2013 | 6.9 | 0.0 | --- | --- | 48.6 | 18.5 | 46.4 | 14.0 | 47.1 | 17.0 | 47.3 | 14.2 |
| 06/27/2013 | 5.3 | 0.0 | --- | --- | 44.9 | 18.5 | 43.8 | 13.1 | 46.2 | 16.5 | 46.7 | 30.8 |

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

| Date | McNary | | John Day | | The Dalles | | Bonneville | | | |
|------------|--------|-------|----------|-------|------------|-------|------------|-------|------|------|
| | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | PH1 | PH2 |
| 06/14/2013 | 242.3 | 97.3 | 238.4 | 91.2 | 223.9 | 89.6 | 245.0 | 99.8 | 44.8 | 88.0 |
| 06/15/2013 | 243.4 | 97.7 | 240.8 | 72.1 | 226.6 | 90.6 | 243.5 | 99.7 | 43.0 | 88.4 |
| 06/16/2013 | 216.1 | 86.9 | 204.2 | 64.3 | 191.0 | 76.7 | 214.8 | 96.1 | 19.1 | 87.3 |
| 06/17/2013 | 207.6 | 83.6 | 206.0 | 81.9 | 189.8 | 76.2 | 213.8 | 95.0 | 19.8 | 86.6 |
| 06/18/2013 | 223.1 | 89.7 | 220.4 | 84.3 | 204.4 | 81.6 | 221.8 | 90.6 | 34.0 | 84.8 |
| 06/19/2013 | 219.3 | 87.6 | 210.4 | 63.0 | 195.1 | 77.9 | 205.4 | 95.8 | 14.2 | 83.0 |
| 06/20/2013 | 219.3 | 109.8 | 212.0 | 66.9 | 197.2 | 79.0 | 220.0 | 99.6 | 20.5 | 87.5 |
| 06/21/2013 | 226.1 | 113.5 | 225.1 | 89.9 | 207.4 | 82.9 | 226.6 | 94.2 | 31.8 | 88.2 |
| 06/22/2013 | 273.5 | 137.3 | 266.3 | 101.4 | 248.7 | 99.2 | 256.4 | 90.1 | 63.8 | 90.1 |
| 06/23/2013 | 261.7 | 131.0 | 262.7 | 78.7 | 242.8 | 97.0 | 260.8 | 95.7 | 64.6 | 88.1 |
| 06/24/2013 | 261.6 | 131.0 | 250.0 | 79.8 | 235.3 | 94.1 | 254.1 | 99.6 | 53.7 | 88.5 |
| 06/25/2013 | 270.0 | 135.0 | 267.8 | 106.5 | 249.7 | 100.0 | 271.6 | 94.5 | 71.4 | 93.2 |
| 06/26/2013 | 271.7 | 135.8 | 267.6 | 102.2 | 250.8 | 99.6 | 267.0 | 90.5 | 72.5 | 91.6 |
| 06/27/2013 | 266.6 | 133.7 | 267.1 | 79.9 | 250.7 | 98.4 | 275.6 | 95.5 | 74.6 | 93.1 |

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 | | | | | | | | | | | |
| Little Goose Dam | | | | | | | | | | | |
| | 06/17/13 | Chinook + Steelhead | 88 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/24/13 | Chinook + Steelhead | 60 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Lower Monumental Dam | | | | | | | | | | | |
| | 06/19/13 | Chinook + Steelhead | 53 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/26/13 | Chinook + Steelhead | 51 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| McNary Dam | | | | | | | | | | | |
| | 06/17/13 | Chinook + Steelhead | 17 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/17/13 | Chinook + Steelhead | 83 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/21/13 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/23/13 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/27/13 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Bonneville Dam | | | | | | | | | | | |
| | 06/16/13 | Chinook + Steelhead | 26 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/18/13 | Chinook + Steelhead | 26 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/22/13 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/26/13 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| Rock Island Dam | | | | | | | | | | | |
| | 06/23/13 | Chinook + Steelhead | 44 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |
| | 06/27/13 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 |

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

| Date | <u>McNary-Wash</u> | | | <u>McNary Tlwr</u> | | | <u>John Day</u> | | | <u>John Day Tlwr</u> | | | <u>The Dalles</u> | | | | | | | |
|------|--------------------|-------------|----------|--------------------|-------------|----------|-----------------|------------|----------|----------------------|------------|----------|-------------------|------------|----------|----|-------|-------|-------|----|
| | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | | | | | |
| | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | AVG | High | hr | | | | |
| 6/14 | 107.6 | 108.1 | 109.6 | 24 | 115.9 | 116.3 | 117.1 | 24 | 105.4 | 105.7 | 105.8 | 24 | 115.3 | 117.1 | 117.7 | 24 | 108.9 | 109.7 | 110.8 | 24 |
| 6/15 | 110.4 | 110.9 | 111.6 | 24 | 116.5 | 116.8 | 117.0 | 24 | 105.8 | 106.2 | 106.9 | 24 | 113.6 | 114.2 | 115.3 | 24 | 110.5 | 111.2 | 111.5 | 24 |
| 6/16 | 110.1 | 110.8 | 111.5 | 24 | 116.3 | 116.5 | 116.9 | 24 | 107.2 | 107.6 | 108.3 | 24 | 113.4 | 113.8 | 114.6 | 24 | 108.4 | 108.8 | 109.4 | 24 |
| 6/17 | 111.2 | 111.7 | 112.0 | 24 | 116.2 | 116.7 | 116.9 | 24 | 107.8 | 108.3 | 108.5 | 24 | 114.6 | 115.8 | 116.5 | 24 | 108.6 | 109.4 | 110.3 | 24 |
| 6/18 | 111.2 | 111.8 | 112.1 | 24 | 116.5 | 116.7 | 116.9 | 24 | 107.9 | 108.1 | 108.3 | 24 | 115.3 | 116.6 | 117.9 | 24 | 110.1 | 110.5 | 110.8 | 24 |
| 6/19 | 110.3 | 110.9 | 111.1 | 24 | 116.3 | 116.4 | 116.7 | 24 | 107.4 | 107.7 | 108.0 | 24 | 113.7 | 113.9 | 114.1 | 24 | 108.4 | 109.8 | 110.8 | 24 |
| 6/20 | 107.1 | 107.8 | 108.6 | 24 | 116.2 | 116.5 | 116.7 | 24 | 106.0 | 106.3 | 106.6 | 24 | 113.0 | 113.5 | 115.0 | 24 | 106.3 | 106.4 | 106.6 | 24 |
| 6/21 | 105.6 | 106.1 | 106.7 | 24 | 116.4 | 116.6 | 117.1 | 24 | 105.0 | 105.2 | 105.3 | 24 | 115.0 | 116.7 | 117.3 | 24 | 107.3 | 108.5 | 109.5 | 24 |
| 6/22 | 107.5 | 108.6 | 110.0 | 24 | 117.6 | 118.3 | 118.6 | 24 | 105.4 | 106.0 | 106.9 | 24 | 116.3 | 117.8 | 117.9 | 24 | 110.6 | 111.6 | 112.5 | 24 |
| 6/23 | 110.4 | 110.9 | 111.4 | 24 | 118.4 | 118.7 | 118.8 | 24 | 106.7 | 106.8 | 107.4 | 24 | 114.2 | 114.9 | 115.6 | 24 | 110.6 | 111.9 | 112.5 | 24 |
| 6/24 | 112.5 | 113.1 | 113.4 | 24 | 118.6 | 118.8 | 119.0 | 24 | 106.9 | 107.3 | 107.8 | 24 | 114.5 | 115.8 | 117.8 | 24 | 108.4 | 108.7 | 109.1 | 24 |
| 6/25 | 111.8 | 112.3 | 113.1 | 24 | 118.9 | 119.2 | 122.3 | 24 | 108.8 | 109.7 | 110.3 | 24 | 117.1 | 117.8 | 118.2 | 24 | 109.9 | 111.1 | 112.1 | 24 |
| 6/26 | 110.8 | 110.9 | 111.0 | 24 | 122.6 | 127.1 | 154.9 | 24 | 110.7 | 110.9 | 111.1 | 24 | 116.7 | 118.2 | 118.8 | 24 | 112.0 | 112.3 | 112.8 | 24 |
| 6/27 | 111.4 | 111.8 | 112.6 | 23 | 151.3 | 154.8 | 155.2 | 23 | 110.3 | 110.4 | 110.6 | 23 | 114.3 | 115.5 | 116.0 | 23 | 112.1 | 112.6 | 112.9 | 23 |

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

| Date | <u>The Dalles Dnst</u> | | | <u>Bonneville</u> | | | <u>Warrendale</u> | | | <u>Camas/Washougal</u> | | | <u>Cascade Island</u> | | | | | | | |
|------|------------------------|-------------|----------|-------------------|-------------|----------|-------------------|------------|----------|------------------------|------------|----------|-----------------------|------------|----------|----|-------|-------|-------|----|
| | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | <u>24h</u> | <u>12h</u> | <u>#</u> | | | | | |
| | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | Avg | High | hr | Avg | Avg | High | hr | | | | |
| 6/14 | 115.5 | 116.4 | 116.6 | 24 | 110.1 | 110.7 | 111.5 | 24 | 114.2 | 114.5 | 114.8 | 24 | 112.0 | 113.4 | 114.3 | 24 | 118.3 | 118.4 | 118.6 | 24 |
| 6/15 | 116.8 | 117.2 | 117.8 | 24 | 112.6 | 113.2 | 113.6 | 24 | 115.4 | 115.8 | 116.2 | 24 | 113.4 | 114.6 | 115.4 | 24 | 118.6 | 118.7 | 118.8 | 24 |
| 6/16 | 115.1 | 115.3 | 115.7 | 24 | 112.7 | 113.5 | 114.0 | 24 | 115.6 | 115.7 | 115.9 | 24 | 113.3 | 114.2 | 115.1 | 24 | 118.4 | 118.6 | 118.9 | 24 |
| 6/17 | 115.1 | 115.8 | 116.2 | 24 | 110.5 | 110.9 | 111.4 | 24 | 115.1 | 115.6 | 115.9 | 24 | 113.5 | 114.5 | 115.4 | 24 | 118.2 | 118.4 | 118.6 | 24 |
| 6/18 | 115.8 | 116.5 | 117.0 | 24 | 110.0 | 110.6 | 110.8 | 24 | 113.7 | 114.3 | 114.6 | 24 | 111.7 | 112.5 | 113.4 | 24 | 116.9 | 117.8 | 119.9 | 24 |
| 6/19 | 114.9 | 115.3 | 115.7 | 24 | 109.5 | 109.7 | 110.2 | 24 | 114.4 | 115.6 | 117.0 | 24 | 111.2 | 112.4 | 113.5 | 24 | 117.2 | 118.2 | 119.7 | 24 |
| 6/20 | 113.5 | 113.9 | 114.2 | 24 | 108.5 | 108.8 | 109.2 | 24 | 114.4 | 115.2 | 115.7 | 24 | 110.8 | 112.0 | 113.0 | 24 | 118.3 | 118.6 | 119.7 | 24 |
| 6/21 | 114.2 | 115.0 | 115.4 | 24 | 108.6 | 108.8 | 109.3 | 24 | 113.5 | 114.2 | 115.0 | 24 | 111.2 | 112.2 | 112.8 | 24 | 117.9 | 118.0 | 118.2 | 24 |
| 6/22 | 117.0 | 118.1 | 118.4 | 24 | 111.3 | 112.6 | 113.9 | 24 | 113.4 | 114.0 | 115.5 | 24 | 112.3 | 113.8 | 114.5 | 24 | 116.8 | 117.7 | 119.8 | 24 |
| 6/23 | 117.2 | 117.8 | 118.1 | 24 | 115.9 | 116.9 | 117.2 | 24 | 116.5 | 116.8 | 117.5 | 24 | 114.1 | 115.5 | 116.6 | 24 | 117.7 | 118.8 | 120.1 | 24 |
| 6/24 | 115.5 | 115.9 | 116.3 | 24 | 115.7 | 116.6 | 117.3 | 24 | 117.2 | 117.9 | 118.6 | 24 | 115.0 | 116.1 | 116.8 | 24 | 118.9 | 119.2 | 120.1 | 24 |
| 6/25 | 115.9 | 116.6 | 117.0 | 24 | 113.2 | 113.5 | 113.7 | 24 | 114.8 | 115.1 | 115.3 | 24 | 113.5 | 113.9 | 115.1 | 24 | 118.8 | 118.9 | 119.1 | 24 |
| 6/26 | 117.2 | 117.7 | 117.9 | 24 | 113.7 | 114.2 | 114.9 | 24 | 114.7 | 114.9 | 115.7 | 24 | 112.6 | 113.4 | 114.0 | 24 | 117.0 | 117.9 | 119.6 | 24 |
| 6/27 | 117.4 | 117.7 | 118.5 | 23 | 115.3 | 115.9 | 116.3 | 23 | 116.2 | 116.7 | 117.5 | 23 | 113.8 | 115.2 | 116.6 | 23 | 117.2 | 118.3 | 119.6 | 23 |

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 6/28/2013 8:18

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.

See Sampling Comments: <http://www.fpc.org/currentDaily/smpcomments.htm>

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmptsubmitdata.asp>

| COMBINED YEARLING CHINOOK | | | | | | | | | | | | |
|----------------------------------|--------|---------------|---------------|---------------|-------------------|------------------|------------------|----------------|---------------|------------------|------------------|------------------|
| | WTB | IMN | GRN | LEW | LGR ^{††} | LGS | LMN | RIS | MCN | JDA | BO2 | |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | |
| 06/14/2013 | * | --- | 11 | --- | --- | 137 | 286 | 201 | 15 | 19,870 | 2,006 | 2,108 |
| 06/15/2013 | * | --- | 27 | --- | --- | 31 | 72 | 181 | 16 | --- | 1,878 | 773 |
| 06/16/2013 | * | --- | 16 | --- | --- | 34 | 108 | 153 | 20 | 3,726 | 1,257 | 799 |
| 06/17/2013 | * | --- | 21 | --- | --- | 146 | 29 | 141 | 7 | --- | 1,277 | 649 |
| 06/18/2013 | * | --- | 18 | --- | --- | 52 | 88 | 0 | 3 | 2,058 | 1,132 | 342 |
| 06/19/2013 | * | --- | 31 | --- | --- | 18 | 115 | 7 | 4 | --- | 641 | 547 |
| 06/20/2013 | * | --- | 11 | --- | --- | 0 | 57 | 129 | 1 | 713 | 515 | 332 |
| 06/21/2013 | * | --- | 11 | --- | --- | 89 | 144 | 14 | 1 | --- | 666 | 542 |
| 06/22/2013 | * | --- | 33 | --- | --- | 0 | 57 | 129 | 2 | 414 | 626 | 444 |
| 06/23/2013 | * | --- | 23 | --- | --- | 0 | 57 | 10 | 10 | --- | 391 | 792 |
| 06/24/2013 | * | --- | --- | --- | --- | 0 | 29 | 100 | 7 | 1,028 | 448 | 226 |
| 06/25/2013 | * | --- | --- | --- | --- | 19 | 29 | 29 | 5 | --- | 574 | 372 |
| 06/26/2013 | * | --- | --- | --- | --- | 18 | 14 | 11 | 6 | 0 | 729 | 292 |
| 06/27/2013 | * | --- | --- | --- | --- | 16 | 0 | 6 | 2 | --- | 0 | 289 |
| 06/28/2013 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 202 | 0 | 0 | 560 | 1,085 | 1,111 | 99 | 27,809 | 12,140 | 8,507 |
| # Days: | | 0 | 10 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 20 | 0 | 0 | 40 | 78 | 79 | 7 | 3,973 | 867 | 608 |
| YTD | | 50,632 | 55,570 | 26,301 | 2,797 | 2,607,001 | 1,499,972 | 613,861 | 28,274 | 2,120,674 | 2,052,696 | 1,877,856 |

| COMBINED SUBYEARLING CHINOOK | | | | | | | | | | | | |
|-------------------------------------|--------|----------|-----------|------------|-------------------|----------------|----------------|----------------|--------------|----------------|----------------|------------------|
| | WTB | IMN | GRN | LEW | LGR ^{††} | LGS | LMN | RIS | MCN | JDA | BO2 | |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | |
| 06/14/2013 | * | --- | 0 | --- | --- | 7,027 | 8,075 | 4,161 | 150 | 161,676 | 21,998 | 10,430 |
| 06/15/2013 | * | --- | 0 | --- | --- | 7,998 | 11,603 | 7,261 | 278 | --- | 24,978 | 7,892 |
| 06/16/2013 | * | --- | 2 | --- | --- | 7,573 | 6,172 | 6,915 | 329 | 53,863 | 19,650 | 8,569 |
| 06/17/2013 | * | --- | 0 | --- | --- | 6,933 | 15,426 | 1,937 | 144 | --- | 14,529 | 6,324 |
| 06/18/2013 | * | --- | 0 | --- | --- | 7,495 | 5,838 | 1,621 | 57 | 104,768 | 22,845 | 5,294 |
| 06/19/2013 | * | --- | 0 | --- | --- | 9,333 | 8,636 | 6,469 | 56 | --- | 22,511 | 3,803 |
| 06/20/2013 | * | --- | 0 | --- | --- | 9,111 | 13,680 | 3,966 | 37 | 86,301 | 35,292 | 6,900 |
| 06/21/2013 | * | --- | 2 | --- | --- | 8,632 | 10,820 | 4,900 | 19 | --- | 31,848 | 7,843 |
| 06/22/2013 | * | --- | 3 | --- | --- | 11,679 | 4,930 | 4,283 | 20 | 86,636 | 20,252 | 19,269 |
| 06/23/2013 | * | --- | 3 | --- | --- | 4,878 | 8,815 | 6,360 | 77 | --- | 35,833 | 17,814 |
| 06/24/2013 | * | --- | --- | --- | --- | 3,901 | 10,794 | 5,322 | 41 | 100,355 | 34,415 | 25,783 |
| 06/25/2013 | * | --- | --- | --- | --- | 6,132 | 6,708 | 3,307 | 82 | --- | 41,905 | 24,581 |
| 06/26/2013 | * | --- | --- | --- | --- | 5,179 | 8,880 | 3,540 | 146 | 124,300 | 54,507 | 21,498 |
| 06/27/2013 | * | --- | --- | --- | --- | 7,250 | 6,714 | 1,894 | 192 | --- | 53,813 | 47,645 |
| 06/28/2013 | * | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | | 0 | 10 | 0 | 0 | 103,121 | 127,091 | 61,936 | 1,628 | 717,899 | 434,376 | 213,645 |
| # Days: | | 0 | 10 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | | 0 | 1 | 0 | 0 | 7,366 | 9,078 | 4,424 | 116 | 102,557 | 31,027 | 15,260 |
| YTD | | 2 | 56 | 195 | 2,668 | 556,596 | 456,376 | 194,605 | 4,740 | 868,464 | 551,796 | 2,325,738 |

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) |
| 06/14/2013 * | --- | 0 | --- | --- | 15 | 71 | 3 | 54 | 1,248 | 201 | 1,675 |
| 06/15/2013 * | --- | 0 | --- | --- | 0 | 72 | 19 | 86 | --- | 250 | 1,380 |
| 06/16/2013 * | --- | 0 | --- | --- | 0 | 0 | 0 | 57 | 339 | 400 | 1,020 |
| 06/17/2013 * | --- | 0 | --- | --- | 0 | 29 | 0 | 24 | --- | 365 | 972 |
| 06/18/2013 * | --- | 0 | --- | --- | 0 | 0 | 0 | 8 | 340 | 0 | 1,059 |
| 06/19/2013 * | --- | 0 | --- | --- | 0 | 0 | 0 | 9 | --- | 128 | 576 |
| 06/20/2013 * | --- | 0 | --- | --- | 17 | 0 | 0 | 12 | 178 | 114 | 1,129 |
| 06/21/2013 * | --- | 0 | --- | --- | 0 | 0 | 2 | 4 | --- | 0 | 884 |
| 06/22/2013 | --- | 0 | --- | --- | 0 | 0 | 3 | 12 | 205 | 0 | 559 |
| 06/23/2013 * | --- | 0 | --- | --- | 0 | 0 | 0 | 15 | --- | 0 | 620 |
| 06/24/2013 | --- | --- | --- | --- | 0 | 0 | 0 | 38 | 408 | 90 | 622 |
| 06/25/2013 * | --- | --- | --- | --- | 0 | 29 | 2 | 26 | --- | 191 | 372 |
| 06/26/2013 * | --- | --- | --- | --- | 0 | 0 | 0 | 11 | 0 | 105 | 185 |
| 06/27/2013 * | --- | --- | --- | --- | 0 | 0 | 0 | 21 | --- | 0 | 578 |
| 06/28/2013 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 0 | 0 | 0 | 32 | 201 | 29 | 377 | 2,718 | 1,844 | 11,631 |
| # Days: | 0 | 10 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 0 | 0 | 0 | 2 | 14 | 2 | 27 | 388 | 132 | 831 |
| YTD | 0 | 0 | 0 | 107 | 61,776 | 54,096 | 10,558 | 49,745 | 85,128 | 188,214 | 769,471 |

| 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) |
| 06/14/2013 * | --- | 69 | --- | --- | 229 | 1,929 | 125 | 19 | 3,039 | 1,137 | 1,513 |
| 06/15/2013 * | --- | 32 | --- | --- | 298 | 609 | 88 | 6 | --- | 501 | 1,380 |
| 06/16/2013 * | --- | 7 | --- | --- | 491 | 682 | 147 | 7 | 2,034 | 457 | 1,887 |
| 06/17/2013 * | --- | 8 | --- | --- | 382 | 1,348 | 122 | 6 | --- | 365 | 1,817 |
| 06/18/2013 * | --- | 5 | --- | --- | 416 | 1,294 | 180 | 6 | 1,708 | 67 | 2,355 |
| 06/19/2013 * | --- | 16 | --- | --- | 88 | 777 | 882 | 3 | --- | 64 | 735 |
| 06/20/2013 * | --- | 41 | --- | --- | 293 | 574 | 252 | 9 | 178 | 57 | 1,359 |
| 06/21/2013 * | --- | 7 | --- | --- | 446 | 344 | 191 | 4 | --- | 286 | 848 |
| 06/22/2013 | --- | 5 | --- | --- | 371 | 344 | 192 | 9 | 1,655 | 210 | 741 |
| 06/23/2013 * | --- | 2 | --- | --- | 211 | 632 | 91 | 7 | --- | 98 | 287 |
| 06/24/2013 | --- | --- | --- | --- | 128 | 804 | 368 | 8 | 1,022 | 448 | 283 |
| 06/25/2013 * | --- | --- | --- | --- | 37 | 493 | 188 | 9 | --- | 288 | 372 |
| 06/26/2013 * | --- | --- | --- | --- | 70 | 359 | 45 | 9 | 407 | 313 | 433 |
| 06/27/2013 * | --- | --- | --- | --- | 114 | 345 | 28 | 18 | --- | 156 | 433 |
| 06/28/2013 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 192 | 0 | 0 | 3,574 | 10,534 | 2,899 | 120 | 10,043 | 4,447 | 14,443 |
| # Days: | 0 | 10 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 19 | 0 | 0 | 255 | 752 | 207 | 9 | 1,435 | 318 | 1,032 |
| YTD | 3,789 | 40,839 | 3,547 | 9,925 | 2,035,343 | 1,712,420 | 609,569 | 14,832 | 468,951 | 730,306 | 466,154 |

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) |
| 06/14/2013 * | --- | 0 | --- | --- | 15 | 0 | 0 | 0 | 892 | 201 | 324 |
| 06/15/2013 * | --- | 0 | --- | --- | 0 | 0 | 17 | 10 | --- | 125 | 221 |
| 06/16/2013 * | --- | 0 | --- | --- | 17 | 0 | 0 | 7 | 0 | 228 | 58 |
| 06/17/2013 * | --- | 0 | --- | --- | 0 | 0 | 2 | 1 | --- | 61 | 66 |
| 06/18/2013 * | --- | 0 | --- | --- | 0 | 29 | 0 | 2 | 851 | 67 | 103 |
| 06/19/2013 * | --- | 0 | --- | --- | 18 | 0 | 0 | 1 | --- | 0 | 37 |
| 06/20/2013 * | --- | 0 | --- | --- | 0 | 0 | 0 | 1 | 357 | 286 | 67 |
| 06/21/2013 * | --- | 0 | --- | --- | 30 | 0 | 0 | 1 | --- | 0 | 67 |
| 06/22/2013 | --- | 0 | --- | --- | 0 | 0 | 0 | 5 | 410 | 105 | 36 |
| 06/23/2013 * | --- | 0 | --- | --- | 0 | 0 | 0 | 5 | --- | 195 | 57 |
| 06/24/2013 | --- | --- | --- | --- | 0 | 0 | 0 | 13 | 204 | 0 | 113 |
| 06/25/2013 * | --- | --- | --- | --- | 0 | 0 | 0 | 7 | --- | 383 | 0 |
| 06/26/2013 * | --- | --- | --- | --- | 0 | 0 | 0 | 15 | 610 | 208 | 0 |
| 06/27/2013 * | --- | --- | --- | --- | 16 | 14 | 0 | 4 | --- | 626 | 0 |
| 06/28/2013 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 0 | 0 | 0 | 96 | 43 | 19 | 72 | 3,324 | 2,485 | 1,149 |
| # Days: | 0 | 10 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 0 | 0 | 0 | 7 | 3 | 1 | 5 | 475 | 178 | 82 |
| YTD | 1 | 0 | 0 | 326 | 54,631 | 32,969 | 11,376 | 24,710 | 622,584 | 410,761 | 392,343 |

| COMBINED LAMPREY JUVENILES | | | | | | | | | | | |
|----------------------------|---------------|---------------|---------------|---------------|----------------------------|---------------|---------------|---------------|---------------|----------------|---------------|
| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR [†] (Coll) | LGS (Coll) | LMN (Coll) | RIS (Coll) | MCN (Coll) | JDA (Coll) | BO2 (Coll) |
| 06/14/2013 * | --- | 0 | --- | --- | 10 | 175 | 20 | 0 | 900 | 2,520 | 20 |
| 06/15/2013 * | --- | 0 | --- | --- | 10 | 25 | 0 | 1 | --- | 1,360 | 20 |
| 06/16/2013 * | --- | 0 | --- | --- | 0 | 100 | 30 | 0 | 1,400 | 1,160 | 18 |
| 06/17/2013 * | --- | 0 | --- | --- | 30 | 60 | 55 | 0 | --- | 1,040 | 100 |
| 06/18/2013 * | --- | 0 | --- | --- | 0 | 60 | 9 | 0 | 200 | 680 | 71 |
| 06/19/2013 * | --- | 0 | --- | --- | 0 | 20 | 201 | 0 | --- | 1,160 | 47 |
| 06/20/2013 * | --- | 0 | --- | --- | 0 | 40 | 50 | 1 | 400 | 3,240 | 43 |
| 06/21/2013 * | --- | 0 | --- | --- | 0 | 100 | 217 | 0 | --- | 1,188 | 29 |
| 06/22/2013 | --- | 0 | --- | --- | 0 | 80 | 807 | 1 | 300 | 500 | 29 |
| 06/23/2013 * | --- | 0 | --- | --- | 0 | 180 | 100 | 1 | --- | 563 | 8 |
| 06/24/2013 | --- | --- | --- | --- | 0 | 0 | 51 | 1 | 500 | 438 | 80 |
| 06/25/2013 * | --- | --- | --- | --- | 0 | 20 | 151 | 1 | --- | 375 | 33 |
| 06/26/2013 * | --- | --- | --- | --- | 0 | 10 | 151 | 1 | 400 | 313 | 4 |
| 06/27/2013 * | --- | --- | --- | --- | 0 | 51 | 50 | 2 | --- | 300 | 0 |
| 06/28/2013 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total: | 0 | 0 | 0 | 0 | 50 | 921 | 1,892 | 9 | 4,100 | 14,837 | 502 |
| # Days: | 0 | 10 | 0 | 0 | 14 | 14 | 14 | 14 | 7 | 14 | 14 |
| Average: | 0 | 0 | 0 | 0 | 4 | 66 | 135 | 1 | 586 | 1,060 | 36 |
| YTD | 0 | 8 | 0 | 0 | 4,922 | 52,147 | 62,640 | 96 | 61,210 | 155,845 | 4,152 |

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:

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.

†† Passage index for yearling Chinook, steelhead, and subyearling Chinook at LGR may be inflated in 2013 due to possible resampling of PIT-tagged research fish

† Caution should be used with interpreting lamprey juvenile collection counts at LGR because of the possibility that lamprey may escape the sample tank before being sampled

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:

6/28/13 8:18 AM

06/14/13 TO 06/28/13

| Site | Data | Species | | | | | Grand Total |
|--------------------------------|--------------------------|---------|--------|-------|--------|-------|-------------|
| | | CH0 | CH1 | CO | ST | SO | |
| LGR | Sum of NumberCollected | 61,860 | 340 | 20 | 2,160 | 60 | 64,440 |
| | Sum of NumberBarged | 59,544 | 339 | 20 | 1,960 | 60 | 61,923 |
| | Sum of NumberBypassed | 2,231 | 0 | 0 | 192 | 0 | 2,423 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 41 | 1 | 0 | 2 | 0 | 44 |
| | Sum of FacilityMorts | 42 | 0 | 0 | 6 | 0 | 48 |
| | Sum of ResearchMorts | 2 | 0 | 0 | 0 | 0 | 2 |
| | Sum of TotalProjectMorts | 85 | 1 | 0 | 8 | 0 | 94 |
| LGS | Sum of NumberCollected | 88,590 | 756 | 140 | 7,345 | 30 | 96,861 |
| | Sum of NumberBarged | 88,503 | 752 | 140 | 7,331 | 29 | 96,755 |
| | Sum of NumberBypassed | 14 | 0 | 0 | 0 | 1 | 15 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 6 | 0 | 0 | 2 | 0 | 8 |
| | Sum of FacilityMorts | 67 | 4 | 0 | 12 | 0 | 83 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 73 | 4 | 0 | 14 | 0 | 91 |
| LMN | Sum of NumberCollected | 35,151 | 619 | 17 | 1,546 | 11 | 37,344 |
| | Sum of NumberBarged | 29,181 | 615 | 17 | 1,504 | 11 | 31,328 |
| | Sum of NumberBypassed | 5,874 | 2 | 0 | 25 | 0 | 5,901 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 40 | 1 | 0 | 3 | 0 | 44 |
| | Sum of FacilityMorts | 56 | 1 | 0 | 14 | 0 | 71 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 96 | 2 | 0 | 17 | 0 | 115 |
| MCN | Sum of NumberCollected | 385,043 | 15,658 | 1,500 | 5,518 | 1,800 | 409,519 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 385,000 | 15,655 | 1,500 | 5,516 | 1,800 | 409,471 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 17 | 0 | 0 | 1 | 0 | 18 |
| | Sum of FacilityMorts | 26 | 3 | 0 | 1 | 0 | 30 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 43 | 3 | 0 | 2 | 0 | 48 |
| Total Sum of NumberCollected | | 570,644 | 17,373 | 1,677 | 16,569 | 1,901 | 608,164 |
| Total Sum of NumberBarged | | 177,228 | 1,706 | 177 | 10,795 | 100 | 190,006 |
| Total Sum of NumberBypassed | | 393,119 | 15,657 | 1,500 | 5,733 | 1,801 | 417,810 |
| Total Sum of Numbertrucked | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 104 | 2 | 0 | 8 | 0 | 114 |
| Total Sum of FacilityMorts | | 191 | 8 | 0 | 33 | 0 | 232 |
| Total Sum of ResearchMorts | | 2 | 0 | 0 | 0 | 0 | 2 |
| Total Sum of TotalProjectMorts | | 297 | 10 | 0 | 41 | 0 | 348 |

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/28/13 8:18 AM

TO: 06/28/13

| Site | Data | Species | | | | | | Grand Total |
|--------------------------------|--------------------------|-----------|-----------|---------|---------|-----------|----|-------------|
| | | CH0 | CH1 | CO | SO | ST | LU | |
| LGR | Sum of NumberCollected | 380,995 | 1,865,081 | 48,050 | 42,620 | 1,443,908 | | 3,780,654 |
| | Sum of NumberBarged | 366,637 | 1,554,534 | 47,781 | 42,551 | 1,086,992 | | 3,098,495 |
| | Sum of NumberBypassed | 13,687 | 308,258 | 210 | 52 | 356,574 | | 678,781 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Sum of SampleMorts | 390 | 173 | 2 | 2 | 39 | | 606 |
| | Sum of FacilityMorts | 243 | 2,066 | 57 | 15 | 255 | | 2,636 |
| | Sum of ResearchMorts | 38 | 52 | 0 | 0 | 47 | | 137 |
| | Sum of TotalProjectMorts | 671 | 2,291 | 59 | 17 | 341 | | 3,379 |
| LGS | Sum of NumberCollected | 317,929 | 1,026,437 | 36,845 | 22,590 | 1,172,378 | | 2,576,179 |
| | Sum of NumberBarged | 317,545 | 979,165 | 36,645 | 22,589 | 1,106,049 | | 2,461,993 |
| | Sum of NumberBypassed | 249 | 46,698 | 200 | 1 | 66,201 | | 113,349 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Sum of SampleMorts | 22 | 14 | 0 | 0 | 9 | | 45 |
| | Sum of FacilityMorts | 113 | 560 | 0 | 0 | 119 | | 792 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Sum of TotalProjectMorts | 135 | 574 | 0 | 0 | 128 | | 837 |
| LMN | Sum of NumberCollected | 125,942 | 470,672 | 7,986 | 8,062 | 458,752 | 1 | 1,071,415 |
| | Sum of NumberBarged | 115,084 | 469,066 | 7,985 | 8,056 | 457,372 | 0 | 1,057,563 |
| | Sum of NumberBypassed | 10,142 | 1,074 | 0 | 2 | 1,135 | 42 | 12,395 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of SampleMorts | 47 | 14 | 0 | 0 | 15 | 0 | 76 |
| | Sum of FacilityMorts | 152 | 518 | 1 | 4 | 230 | 0 | 905 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMorts | 199 | 532 | 1 | 4 | 245 | 0 | 981 |
| MCN | Sum of NumberCollected | 468,522 | 1,097,680 | 43,683 | 309,235 | 254,150 | | 2,173,270 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Sum of NumberBypassed | 468,468 | 1,096,858 | 43,679 | 308,987 | 254,096 | | 2,172,088 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Sum of SampleMorts | 22 | 61 | 1 | 33 | 8 | | 125 |
| | Sum of FacilityMorts | 32 | 761 | 3 | 215 | 46 | | 1,057 |
| | Sum of ResearchMorts | 0 | 0 | 0 | 0 | 0 | | 0 |
| | Sum of TotalProjectMorts | 54 | 822 | 4 | 248 | 54 | | 1,182 |
| Total Sum of NumberCollected | | 1,293,388 | 4,459,870 | 136,564 | 382,507 | 3,329,188 | 1 | 9,601,518 |
| Total Sum of NumberBarged | | 799,266 | 3,002,765 | 92,411 | 73,196 | 2,650,413 | 0 | 6,618,051 |
| Total Sum of NumberBypassed | | 492,546 | 1,452,888 | 44,089 | 309,042 | 678,006 | 42 | 2,976,613 |
| Total Sum of NumberTrucked | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of SampleMorts | | 481 | 262 | 3 | 35 | 71 | 0 | 852 |
| Total Sum of FacilityMorts | | 540 | 3,905 | 61 | 234 | 650 | 0 | 5,390 |
| Total Sum of ResearchMorts | | 38 | 52 | 0 | 0 | 47 | 0 | 137 |
| Total Sum of TotalProjectMorts | | 1,059 | 4,219 | 64 | 269 | 768 | 0 | 6,379 |

Cumulative Adult Passage at Mainstem Dams Through: 06/28

| DAM | ENDDA | Spring Chinook | | | | | | Summer Chinook | | | | | | Fall Chinook | | | | | |
|-----|-------|----------------|-------|--------|------|------------|-------|----------------|-------|-------|------|------------|-------|--------------|------|-------|------|------------|------|
| | | 2013 | | 2012 | | 10-Yr Avg. | | 2013 | | 2012 | | 10-Yr Avg. | | 2013 | | 2012 | | 10-Yr Avg. | |
| | | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack |
| BON | 06/27 | 83345 | 33820 | 158089 | 7592 | 141713 | 20323 | 55848 | 16914 | 51429 | 5852 | 54458 | 10383 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDA | 06/27 | 69202 | 32311 | 117087 | 7175 | 107368 | 16911 | 47966 | 12752 | 38175 | 4052 | 42364 | 7418 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 06/27 | 56991 | 28957 | 107655 | 6755 | 92410 | 15875 | 39923 | 10967 | 30520 | 3687 | 35231 | 6942 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 06/27 | 52176 | 22279 | 102763 | 4787 | 83990 | 13854 | 36541 | 7968 | 27879 | 1653 | 28709 | 4841 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 06/27 | 38017 | 18611 | 71957 | 2905 | 58986 | 8558 | 6786 | 3980 | 10034 | 842 | 11608 | 2422 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 06/27 | 36470 | 19053 | 68608 | 2891 | 58025 | 7379 | 6219 | 4444 | 10007 | 740 | 11606 | 2038 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 06/27 | 35072 | 19443 | 68247 | 3449 | 53406 | 8429 | 3827 | 3403 | 7784 | 684 | 9435 | 2240 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGR | 06/27 | 35031 | 19940 | 66366 | 3525 | 53382 | 9851 | 2983 | 2719 | 6049 | 637 | 7504 | 2014 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRD | 06/26 | 13725 | 1298 | 19495 | 1015 | 15225 | 1406 | 17018 | 500 | 5200 | 187 | 9549 | 362 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAN | 06/26 | 13715 | 1661 | 19804 | 973 | 15699 | 2278 | 12086 | 385 | 4983 | 192 | 6331 | 491 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIS | 06/24 | 13345 | 3100 | 19881 | 800 | 14248 | 2237 | 6564 | 343 | 2479 | 57 | 3272 | 394 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 06/24 | 6841 | 2101 | 6641 | 459 | 5306 | 853 | 2302 | 86 | 351 | 20 | 1034 | 79 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEL | 06/26 | 5927 | 2885 | 5239 | 697 | 4030 | 854 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WFA | 06/22 | 24844 | 1324 | 30177 | 1027 | 40169 | 881 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| DAM | ENDDA | Coho | | | | | | Sockeye | | | Steelhead | | | | | | Lamprey | | |
|-----|-------|-------|------|-------|------|------------|------|---------|--------|------------|-----------|-------|-------|------------|------|-------|---------|------|-------|
| | | 2013 | | 2012 | | 10-Yr Avg. | | 2013 | 2012 | 10-Yr Avg. | 2013 | 2012 | Avg. | 10-Yr Wild | Wild | 10-Yr | 2013 | 2012 | 10-Yr |
| | | Adult | Jack | Adult | Jack | Adult | Jack | 2013 | 2012 | Avg. | 2013 | 2012 | Avg. | 2013 | 2012 | Avg. | 2013 | 2012 | Avg. |
| BON | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 95669 | 321462 | 111136 | 6624 | 12393 | 14458 | 1832 | 3828 | 4188 | 6955 | 8149 | 11226 |
| TDA | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 68780 | 190862 | 77451 | 2135 | 3869 | 6044 | 707 | 1498 | 1995 | 754 | 88 | 541 |
| JDA | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 58987 | 157897 | 67567 | 2421 | 3340 | 9516 | 967 | 1817 | 2902 | 361 | 18 | 357 |
| MCN | 06/27 | 1 | 0 | 0 | 0 | 0 | 0 | 44173 | 113994 | 42068 | 2353 | 6132 | 7919 | 886 | 2575 | 2468 | 54 | 5 | 45 |
| IHR | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 34 | 38 | 4650 | 3024 | 5919 | 1639 | 1181 | 1615 | 14 | 1 | 1 |
| LMN | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 14 | 23 | 2975 | 4002 | 10319 | 1443 | 2005 | 3091 | 6 | 6 | 1 |
| LGS | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 26 | 14 | 2345 | 4071 | 9806 | 1209 | 2334 | 3097 | 4 | 2 | 3 |
| LGR | 06/27 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 3 | 5 | 7519 | 9000 | 9833 | 3254 | 3959 | 3230 | 1 | 0 | 0 |
| PRD | 06/26 | 0 | 0 | 0 | 0 | 0 | 0 | 15250 | 12785 | 11575 | 142 | 200 | 142 | 0 | 0 | 0 | 70 | 33 | 42 |
| WAN | 06/26 | 0 | 0 | 0 | 0 | 0 | 0 | 8573 | 8546 | 6757 | 189 | 238 | 208 | 0 | 0 | 0 | 17 | 4 | 7 |
| RIS | 06/24 | 0 | 0 | 0 | 0 | 0 | 0 | 2902 | 1371 | 1516 | 147 | 248 | 144 | 112 | 155 | 87 | 1 | 0 | 0 |
| RRH | 06/24 | 0 | 0 | 0 | 0 | 0 | 0 | 1481 | 412 | 649 | 184 | 820 | 394 | 157 | 677 | 288 | 0 | 0 | 0 |
| WEL | 06/26 | 0 | 0 | 0 | 0 | 0 | 0 | 1288 | 254 | 483 | 88 | 144 | 85 | 77 | 111 | 52 | 0 | 0 | 0 |
| WFA | 06/22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15221 | 27094 | 21118 | 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.