



Fish Passage Center

Weekly Report #14 - 5

April 18, 2014

847 NE 19th Ave., Suite 250
 Portland, OR 97232
 phone: (503) 833-3900
 fax: (503) 232-1259

Summary of Events

Water Supply

Precipitation throughout the Columbia Basin has varied between 46% and 81% of average at individual sub-basins over the first 17 days of April. Precipitation above The Dalles has been 63% of average over the first half of April. Over the 2014 water year, precipitation has ranged between 77% and 101% of average.

Table 1. Summary of April precipitation and cumulative October through April 17, 2014, precipitation with respect to average (1971–2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2014 April 1–17, 2014		Water Year 2014 October 1, 2013 to April 17, 2014	
	Observed (inches)	% Average	Observed (inches)	% Average
	Columbia above Coulee	1.10	74	21.9
Snowpack within the Columbia Basin has been variable. Average snowpack in the Columbia River for basins above the Snake River confluence is 123% of average. For Snake River Basins the average snowpack is 98% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 49% of average.	0.63	57	12.2	81
Columbia above The Dalles	0.75	63	15.3	83
Kootenai	1.03	69	23.4	97
Clark Fork	0.62	46	14.5	85
Flathead	1.33	81	23.0	101
Pend Oreille River Basin above Waneta Dam	0.94	64	19.0	90
Salmon River Basin	0.81	56	14.4	77
Upper Snake Tributaries	0.86	63	15.8	90
Clearwater	1.15	57	27.0	96
Willamette River above Portland	1.43	48	41.4	79

Table 2 displays the April 17th ESP runoff volume forecasts for multiple reservoirs along with the April COE forecasts at Libby and Dworshak. The April 17th ESP forecast at The Dalles between January and July is 105,083 Kaf (104% of average).

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

Location	April 17, 2014 5-day QPF ESP	
	% Average (1981–2010)	Runoff Volume (Kaf)
The Dalles (Jan–July)	104	105083
Grand Coulee (Jan–July)	105	62458
Libby Res. Inflow, MT (Apr–Aug)	112	6607 6868*
Hungry Horse Res. Inflow, MT (Jan–July)	111	2322
Lower Granite Res. Inflow (Apr–July)	107	21246
Brownlee Res. Inflow (Apr–July)	64	3527
Dworshak Res. Inflow (Apr–July)	130	3143 3111*

* Denotes COE April Forecast

Grand Coulee Reservoir is at 1243.5 feet (4-17-14) and has drafted 4.9 feet over the last week. The April 30th FC Elevation at Grand Coulee is 1235.2 feet. Outflows at Grand Coulee have ranged between 119.9 and 146.0 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2400.1 feet (4-17-14) and has drafted 6.1 feet over the previous week. The April 30th FC Elevation at Libby is 2387.0 feet. Daily average outflows at Libby Dam have been 24.2–25.2 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3503.9 feet (4-17-14) and has drafted 5.3 feet over the previous week. The April 30th FC Elevation at Hungry Horse is 3495.4 feet. Outflows at Hungry Horse have been 12.5–13.0 Kcfs over the last week.

Dworshak is currently at an elevation of 1486.9 feet (4-17-14) and has drafted 8.7 feet over the previous week. The COE has submitted and received a flood control deviation at Dworshak. The flood control deviation is based on flow, allowing the project to release outflows of 20 Kcfs until beginning the refill operation, when the project will reduce outflows to 10 Kcfs. The intent of the flood control deviation is to avoid excessively high outflows (i.e., 25 Kcfs) as well as high TDG levels below the project.

The Brownlee Reservoir was at an elevation of 2057.3 feet on April 17th, 2014, holding steady over the last week. Inflows to Brownlee Dam have ranged between 14.8 and 16.3 Kcfs last week. The April 30th FC Elevation at Brownlee is 2056.3 feet.

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 8th, 2014), the flow objective this spring will be 100 Kcfs at Lower Granite. Flows at Lower Granite Dam have averaged 79.0 Kcfs over the last week and 74.5 Kcfs between April 3 and April 17, 2014.

Based on the April Final Water Supply Forecast, the Spring Biological Opinion Flow Objectives will be 260 Kcfs at McNary Dam (which began April 10th) and 135 Kcfs at Priest Rapids Dam (which began April 10th). Over the last week, flows at McNary Dam averaged 236.3 Kcfs and Priest Rapids Dam flows averaged 141.8 Kcfs.

Spill

The 2014 fish spill program was initiated at the lower Snake River projects beginning on April 3rd and on April 10th at the lower Columbia River projects.

Dworshak Dam continues to spill about 9 Kcfs as the project drafts to its flood control elevation. All of the lower Snake River projects have spilled at, or

above, the 2014 Fish Operations Plan (FOP) levels. Spill above the 2014 FOP was due to the distribution of excess generation spill.

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

All the middle Columbia River projects spilled at, or occasionally above, the 2014 FOP levels over the past week. The additional spill was due to the distribution of excess generation spill.

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

Total dissolved gas measurements from planned spill did not exceed the waiver limits, except for a few days at Lower Monumental Dam earlier in the week. Spill was decreased from 29 Kcfs to 26 Kcfs to address the exceedances, but was increased to 29 Kcfs by week’s end. New this year is a change in the way the U.S. Army Corps of Engineers will assess whether a project is in compliance with the total dissolved gas variances in place. The States of Oregon and Washington use different methodologies to estimate the 12-hour average TDG. For Oregon, the 12-hour average is based on the 12 highest hourly TDG measurements in a single calendar day (not necessarily consecutive). For Washington, the 12-hour average is based on 12-hour rolling averages. The highest of the rolling averages is what is reported as the 12-hour average for a given day. In 2014, the location of a TDG monitor and/or type of 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 lower Columbia River forebay monitors. On any given day the compliance of the tailrace monitors at the lower Columbia River projects will be determined using either the Washington or Oregon methodology, whichever is the most restrictive, and spill will be decreased if needed.

Monitoring for signs of gas bubble trauma (GBT) occurred at Lower Granite, Little Goose, Lower Monumental and McNary dams over the past week. There were no fish observed with signs of GBT.

Smolt Monitoring

Smolt monitoring is ongoing at all seven SMP dams (BON, JDA, MCN, RIS, LMN, LGS, LGR) and all four traps (LEW, GRN, IMN, WTB). However, SMP sampling at LGS and LMN remains limited.

This week's samples at Bonneville Dam (BON) were dominated by subyearling Chinook juveniles. On the morning of April 11th, Spring Creek NFH released over 3.15 million subyearling fall Chinook tules into Bonneville pool. According to SMP personnel at BON, these subyearling Chinook tules began arriving at BON at about 0245 on Saturday, April 12th. Peak passage of these subyearling Chinook occurred on April 13th, with a passage index of nearly 323,000. Subyearling Chinook passage has decreased substantially since then, with yesterday's passage index of only about 3,000. The daily average passage index for subyearling Chinook at BON this week was just over 100,000 per day. Passage of yearling Chinook, coho, sockeye, and steelhead at BON all increased this week, when compared to last week. The daily average passage indices for these four species were, 3,000, 2,000, 425, and 800, respectively. So far, no Pacific lamprey ammocoetes have been sampled at BON. Overall, samples of Pacific lamprey macrophthalmia increased this week, when compared to last week. The daily average collection for Pacific lamprey macrophthalmia for this week was nearly 225 per day.

Yearling Chinook continued to dominate the collections at John Day (JDA) this week. In fact yearling Chinook passage increased this week, when compared to last week. This week's daily average passage index for yearling Chinook at JDA was about 1,830 per day. Steelhead passage also increased this week. This week's daily average passage index for steelhead at JDA was nearly 1,000 per day. Last week's daily average passage index for steelhead was about 500 per day. Passage of subyearling Chinook, coho, and sockeye remained relatively low this week. Both Pacific lamprey ammocoetes and macrophthalmia were

collected at JDA this week. This week's daily average collection for Pacific lamprey ammocoetes was 6 per day, while that for Pacific macrophthalmia was nearly 200 per day.

Sampling at McNary Dam (MCN) is every-other-day for the entire 2014 SMP season. Yearling Chinook dominated the collections at MCN this week. This week's daily average passage index for yearling Chinook at MCN was nearly 6,000 per day. Steelhead were the second most dominant species of salmonid this week, with a daily average passage index of almost 2,500 per day. The daily average passage indices for subyearling Chinook, coho, and sockeye were 260, 150, and 625 per day, respectively. All subyearling Chinook collected at MCN this week were fry. Finally, only Pacific lamprey macrophthalmia have been collected so far this year. The daily average collection of Pacific macrophthalmia this week was 345 per day.

This week's samples at Lower Granite Dam were dominated by yearling Chinook. This week's daily average passage index for yearling Chinook at LGR was nearly 31,000 per day, which is an increase over last week's daily average passage index of about 14,500 per day. About 7% of this week's total yearling Chinook passage index were likely yearling fall Chinook. These yearling fall Chinook include hatchery yearling fall Chinook that were released from acclimation ponds above LGR in recent weeks or individuals that overwintered in the LGR pool and are now out-migrating. Steelhead passage continued to increase this week. The daily average passage index for steelhead this week was nearly 12,000 per day. Sockeye passage increased slightly this week, with a daily average passage index of about 1,800 per day. Given that Dworshak Dam has been spilling water for flood control since March 11th, it is likely that the sockeye collected at Lower Granite this week are kokanee from Dworshak reservoir. Passage of subyearling Chinook fry decreased slightly this week and no coho were sampled at LGR this week. Finally, no lamprey juveniles have been sampled at Lower Granite Dam this year.

Sampling at Little Goose (LGS) and Lower Monumental (LMN) dams is limited until transportation begins. This limited sampling will be every 5 days at LGS and every 3 days at LMN. During this time,

the sample at LGS is a full 24-hour sample while that at LMN is a limited duration sample (3–4 hours) for condition fish only. Steelhead and yearling Chinook continued to dominate this week's samples at LGS and LMN. LGS did two 24-hour samples this week. The daily average passage indices from this week's samples at LGS were about 16,650 for yearling Chinook and nearly 9,400 for steelhead. Both sites also collected sockeye in this week's samples and LGS sampled a few subyearling Chinook fry. Finally, Pacific lamprey macrophthalmia were collected at both sites this week. To date, no Pacific lamprey ammocoetes have been collected at these two sites.

Sockeye and yearling Chinook passage at Rock Island Dam (RIS) increased this week. The daily average passage index for sockeye at RIS this week was just over 900 per day. Last week's daily average passage index for sockeye at RIS was about 300 per day. The daily average passage index for yearling Chinook at RIS this week was about 90 per day, compared to less than 10 per day last week. Steelhead and coho passage at RIS was still relatively low this week while passage of subyearling Chinook fry decreased this week. Finally, only one Pacific lamprey macrophthalmia was sampled at Rock Island this week.

The Grande Ronde Trap (GRN) is operated by the Oregon Department of Fish and Wildlife and is located at river kilometer 2 in the Grande Ronde River. Yearling Chinook continued to dominate the collections this week, with a daily average collection of about 730 per day. This represents a slight decrease over last week's daily average collection of about 800 per day. Over the past week, 79%–95% of the daily yearling Chinook collection has been of known hatchery origin. Steelhead collections at GRN increased this week. This week's daily average collection for steelhead was about 50 per day.

The Salmon River Trap (WTB) is located at river kilometer 103 and operated by Idaho Department of Fish and Game. Yearling Chinook continued to dominate the collections at the Salmon River Trap this week, with a daily average collection of about 4,400 per day, which is an increase over last week's daily average collection of about 1,400 per day. Of the yearling Chinook that were collected this week, approximately

74% were of known hatchery origin. Steelhead collections also increased this week, when compared to last week. This week's daily average collection for steelhead was about 170 per day. Last week's daily average collection was only about 10 per day. No juvenile lamprey were sampled this week.

The Snake River Trap (LEW) is located at river kilometer 225 and operated by Idaho Department of Fish and Game. Collections of yearling Chinook and steelhead increased this week, when compared to previous weeks. The daily average collections for yearling Chinook and steelhead this week were about 190 and 100 per day, respectively. As with LGR, a small portion of the yearling Chinook (8%) collected at LEW this week were likely yearling fall Chinook. These yearling fall Chinook include hatchery yearling fall Chinook that were released from acclimation ponds above LEW in recent weeks or individuals that overwintered in the LGR pool and are now out-migrating.

The Imnaha River Trap (IMN) is located at river kilometer 7 and is operated by the Nez Perce Tribe. Sampling at IMN is year-round, however the FPC typically receives data only from early March through June. Due to the remote nature of the trap, the Nez Perce Tribe is able to send collection data to the FPC only periodically. Therefore, data for IMN may be several days behind. To date, we have received data through April 16th. The average daily collection for yearling Chinook this week was about 1,150 per day, which is a decrease from last week's average collection of about 6,300 per day. Steelhead collections this week were very similar to last week's collections. The daily average collection for steelhead this week was about 135 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. Approximately 326,000 yearling fall Chinook were scheduled for release above Lower Granite Dam this week. Of these, about 50% were scheduled for release from Pittsburg Landing Acclimation Pond in

the Snake River and 50% were scheduled for release from the Big Canyon Creek Acclimation Ponds on the Clearwater River. Over half of these yearling fall Chinook are unclipped but tagged with coded-wire tags. In addition, nearly 670,000 yearling spring Chinook juveniles were scheduled for release into this zone this week. Of these, about 63% were scheduled to be released into the Imnaha River. However, collections from the Imnaha Trap over the past week indicate that this release may have occurred earlier than originally scheduled. The remaining 37% of the yearling spring Chinook that were scheduled for release this week were scheduled to be released into the Grande Ronde River. Finally, nearly 3.6 million summer steelhead were scheduled for release to this zone this week. Of these, nearly 74% were scheduled to be released into the Clearwater River and its tributaries. The remaining 26% were scheduled for release throughout this zone, including: the Salmon River (19%), the Pahsimeroi River (4%), and directly from Lyons Ferry Hatchery below Little Goose Dam (3%).

Only one release of yearling spring Chinook juveniles is scheduled to take place over the next 2 weeks in this zone. On or around April 29th, about 193,000 yearling spring Chinook are scheduled to be released into Yankee Fork of the Salmon River. These yearling spring Chinook are 100% unclipped but are tagged with coded-wire tags. The only other releases that are scheduled for this zone over the next 2 weeks are steelhead. In all, about 367,500 summer steelhead are scheduled for release in this zone over the next 2 weeks. These releases are scheduled to take place throughout this zone, including the Imnaha River (59%), the Tucannon River (25%), and the Salmon River (17%).

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. Just over 1.0 million yearling spring Chinook were scheduled to be released into this zone this week. Of these, about 79% were scheduled to be released into the Methow River while 21% were scheduled to be released into the Wenatchee River. In addition, just over 1.0 million yearling summer Chinook were scheduled to be released in this zone this week. These summer Chinook juveniles were scheduled to be released

throughout this zone, including: the Entiat River (38%), directly to the mid-Columbia at Wells Hatchery (31%), the Methow River (20%), and the Okanogan River (11%). Releases from the Yakama Tribal program to reintroduce coho to the Wenatchee, Methow, and Yakima rivers continued this week. In all, just over 1.51 million coho were scheduled to be released this week. Of the coho that were scheduled for release this week, about 43% were scheduled to be released into the Wenatchee River while 57% were scheduled to be released into the Yakima River. Many of these releases are volitional and are expected to continue through mid-June. Finally, four releases of summer steelhead were scheduled for this zone this week. In all, these four releases were expected to total about 306,500 summer steelhead juveniles. Of these, approximately 49% were scheduled to be released into the Methow River, 35% were scheduled to be released into the Walla Walla River, and 16% were scheduled to be released into the Touchet River.

Four releases of subyearling fall Chinook juveniles are scheduled for this zone over the next 2 weeks. Three of these releases are Yakama Tribal releases to the Yakima River that are expected to total nearly 1.8 million fall Chinook juveniles. The fourth release is of about 4,700 fall Chinook juveniles near Pasco, Washington, and is part of the WDFW Cooperative Program. In addition, a release of about 1.2 million yearling spring Chinook from Leavenworth NFH to the Wenatchee River is scheduled to occur on or around April 21st. Approximately 540,000 yearling summer Chinook are scheduled to be released into the Wenatchee River over the next 2 weeks.

The Yakama Tribal Program to reintroduce coho to the Wenatchee, Methow, and Yakima rivers is scheduled to release about 930,000 coho juveniles over the next 2 weeks. The releases that are scheduled to begin over the next 2 weeks are scheduled to occur in the Methow (57%) and Wenatchee (43%) rivers. As with many of the releases that have already started, many of these future releases are volitional and are expected to run for several weeks. Finally, approximately 310,000 summer steelhead are scheduled for release into this zone over the next 2 weeks. Of these, approximately 74% are scheduled to be released into the Wenatchee River and 26% are scheduled to be released into the Okanogan River.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were several releases of yearling spring Chinook scheduled for this zone this week. In all, these releases were expected to total nearly 2.15 million spring Chinook juveniles. The majority of these spring Chinook juveniles were scheduled to be released into the Wind (53%) and Little White Salmon (46%) rivers. A very small portion (1%) was scheduled to be released into the Deschutes River. The only other releases that were scheduled for this zone this week were of summer steelhead to the Deschutes River. In all, 13,500 steelhead juveniles were scheduled to be released into the Deschutes River this week.

Two releases of coho are scheduled for this zone over the next 2 weeks. In all, these two releases are expected to total nearly 1.7 million coho juveniles, of which 55% are scheduled for release into the Klickitat River and 45% are scheduled for release into the Umatilla River. Finally, nearly 292,000 steelhead juveniles are scheduled for release to this zone over the next 2 weeks. Of these, about 87% are summer steelhead and 13% are winter steelhead. The summer steelhead releases are scheduled to take place on the Umatilla and Klickitat rivers. All of the winter steelhead scheduled for release over the next 2 weeks are scheduled to be released into Hood River.

Adult Passage

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

Adult counts at Bonneville Dam have been updated through 4/17/14. The 2014 adult spring Chinook count at Bonneville Dam is 10,620, which is about 5.3 times greater than the 2013 count of 1,994 and 1.3 times greater than the 10-year average count of 8,377. The 2014 Bonneville Dam adult steelhead count of 3,348

is about 1.4 times greater than the 2013 count of 2,393 and 1.1 times greater than the 10-year average count of 2,991.

At Willamette Falls 753 adult spring Chinook have been counted so far this season, and the 2014 count for steelhead was 4,707 as of April 15th.

A total of 37 spring chinook have been counted at Lower Granite Dam as of April 17th. This year's Lower Granite steelhead count of 6,716 is about the same as the 2013 count of 6,649, while being 89.5% of the 10-year average count of 7,504.

Counting at Priest Rapids Dam began on April 15th. In the first 2 full days of counting 7 spring Chinook and 17 steelhead were observed.

Between March 1st and April 8th, a total of 115 steelhead and 18 other salmonid species were observed over the separator at the Bonneville Juvenile Monitoring Facility (JMF). 2014 Kelt passage at the Bonneville JMF can be found at: <http://www.fpc.org/adultsalmon/bonkeltcounts.htm>.

Wanapum Dam Update

At Wanapum Dam a significant crack (65 feet long by 2 inches wide) was discovered in a spillway monolith (#4) on February 27, 2014. This discovery has led to an emergency drawdown of the Wanapum pool to an elevation range of 541–545 feet, which is over 20 feet below its typical forebay elevation. Currently, Grant County PUD is attempting to define why and how this crack formed at the project.

The drawdown of Wanapum pool has caused the adult fishways at Wanapum Dam to not be operational. The adult fishways exits have been approximately 10 feet above the forebay water level. Grant County engineers have been designing adult fishway retrofits that involve the use of weir boxes and chutes to deliver adult fish into the forebay of Wanapum Dam. On April 15, 2014, the weir and chute retrofit was operational at the left bank fishway. Visual observations of the retrofit appeared promising as several adult fish did pass and

exit the structure safely into the forebay of Wanapum Dam. A weir and chute is also being constructed on the right bank fishway at Wanapum and is expected to be fully operational early next week. Although initial observations appear promising, some modifications to the structures may still be needed, and it is uncertain as to how well these retrofits will effectively pass larger numbers of adult fish. These modifications will need to be vigilantly monitored throughout the period of their use to observe (1) accumulations of adults below the structures, (2) if adults pass evenly over the weir or seem to prefer certain areas to pass, and (3) how well they exit the structure. Grant County has also modified their Off Ladder Adult Fish Trap (OLAFT) at Priest Rapids Dam and has begun a Trap and Haul operation at Priest Rapids. Currently, the first two hundred hatchery Chinook through the trap will be PIT-tagged and fifty additional hatchery chinook will be acoustic-tagged; these fish will be returned to the ladder to migrate through the Priest Rapids reservoir and through the Wanapum project. All other fish at the left bank fishway at Rapids Dam will be trapped and hauled to a location above Wanapum Dam. This operation is expected to continue until the tagged chinook passage at Wanapum Dam can be evaluated. The right bank fish ladder at Priest Rapids is currently operating at a reduced but passable level to provide an additional route of passage around Priest Rapids Dam.

At the current time, Grant County will not be capable of counting adult fish at either the left or right bank fishways at Wanapum Dam. Temporary PIT-tag detectors have been installed at the Wanapum fishways to help track adult fish passage over the project. The drawdown of Wanapum pool has also had a significant impact on the adult fishways at Rock Island Dam, operated by Chelan PUD. With the lower than normal tailrace levels, Chelan PUD has had to construct extensions or denils at several ladder entrances. As of April 16th, 2014, Chelan County PUD had one denil in place at the right bank fishway and another that would be completed in a short amount of time at another right bank entrance. A denil extension is also planned to be in place at the left bank fishway in June.

In addition to the major impacts to adult fish passage, the crack and resultant drawdown of the Wanapum forebay is expected to have impacts on the

juvenile migrations. To aid in juvenile passage, Grant County typically operates a bypass at Wanapum Dam that discharges approximately 20 Kcfs. With forebay levels much lower than normal, this bypass will now be discharging approximately one quarter of its ordinary level (approximately 5 Kcfs). The impact of this lower discharge on juvenile fish survival will need to be assessed.

Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From:	4/4/2014		to	04/17/14					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Chief Joseph Hatchery	CH1	SU	2014	44,000	04-01-14	04-15-14	Omak Creek	Okanogan River
Colville Tribe Total					44,000				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2014	130,000	04-14-14	04-14-14	Newsome Creek	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2014	188,000	04-07-14	04-16-14	Meadow Creek - CLES Redhouse (SFK	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2014	220,000	04-11-14	04-11-14	ClearH20 R)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2014	287,000	04-15-14	04-15-14	Meadow Creek - CLES	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	93,268	04-08-14	04-08-14	Shoup Br (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	93,662	04-09-14	04-09-14	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	94,165	04-07-14	04-07-14	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	138,018	04-16-14	04-18-14	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	186,561	04-14-14	04-16-14	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	219,155	04-10-14	04-17-14	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	237,353	04-11-14	04-14-14	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2014	450,000	04-11-14	04-17-14	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2014	800,000	03-31-14	04-10-14	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2014	143,242	04-01-14	04-14-14	Pahsimeroi Hatchery	Pahsimeroi River
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2014	834,059	04-01-14	04-14-14	Pahsimeroi Hatchery	Pahsimeroi River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2014	2,500,000	03-17-14	04-25-14	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					6,614,483				
Nez Perce Tribe	Dworshak NFH	CO	UN	2014	328,523	04-01-14	04-05-14	Clear Creek	Clearwater River M F
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2014	175,030	04-01-14	04-05-14	Clear Creek	Clearwater River M F
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2014	233,061	03-21-14	04-22-14	Lostine Accim Pond Big Canyon (Clearwater River)	Wallowa River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2014	162,000	04-17-14	04-17-14	Pittsburg Landing	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2014	164,000	04-15-14	04-15-14	Acclim Pond	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH1	SP	2014	269,000	04-01-14	04-11-14	Nez Perce Tribal Hatchery	Clearwater River M F
Nez Perce Tribe Total					1,331,614				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2014	160,000	04-11-14	04-11-14	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2014	360,000	04-10-14	04-10-14	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2014	250,000	04-14-14	04-14-14	Lookingglass Creek	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2014	420,000	04-14-14	04-14-14	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Opal Springs Hatchery	ST	SU	2014	5,500	04-15-14	04-15-14	Wychus Creek	Deschutes River
Oregon Dept. of Fish and Wildlife	Opal Springs Hatchery	ST	SU	2014	8,000	04-15-14	04-15-14	Crooked River (OR)	Deschutes River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	ST	SU	2014	162,000	04-08-14	04-08-14	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife	Wizard Falls Hatchery	CH1	SP	2014	5,000	04-15-14	04-15-14	Wychus Creek	Deschutes River
Oregon Dept. of Fish and Wildlife	Wizard Falls Hatchery	CH1	SP	2014	7,000	04-15-14	04-15-14	Metolius River	Deschutes River
Oregon Dept. of Fish and Wildlife	Wizard Falls Hatchery	CH1	SP	2014	7,500	04-15-14	04-15-14	Crooked River (OR)	Deschutes River
Oregon Dept. of Fish and Wildlife Total					1,385,000				

Hatchery Releases Last Two Weeks

U.S. Fish and Wildlife Service	Carson NFH	CH1	SP	2014	1,129,229	04-16-14	04-16-14	Carson Hatchery	Wind River
U.S. Fish and Wildlife Service	Dworshak NFH	CH1	SP	2014	2,042,652	04-09-14	04-10-14	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	CH1	SU	2014	487,000	03-24-14	04-05-14	Powell Acclim Pond	Lochsa River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2014	360,000	04-14-14	04-15-14	Clear Creek Redhouse (SFK ClearH20 R)	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2014	418,000	04-14-14	04-18-14	Dworshak Hatchery	S Fk Clearwater River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2014	1,201,000	04-14-14	04-18-14	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Entiat Hatchery	CH1	SU	2014	385,000	04-16-14	04-16-14	Entiat Hatchery	Entiat River
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2014	1,166,550	04-02-14	04-25-14	Sawtooth Hatchery Little White Salmon	Salmon River (ID) Little White Salmon River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH1	SP	2014	876,050	04-17-14	04-17-14	Hatchery	L Col R (D/s McN Dam) Little White Salmon River
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2014	6,154,518	04-11-14	04-11-14	Spring Creek Hatchery	Spring Creek Hatchery
U.S. Fish and Wildlife Service	Willard Hatchery	CH1	SP	2014	122,800	04-15-14	04-15-14	Willard Hatchery	Willard Hatchery
U.S. Fish and Wildlife Service	Winthrop NFH	CH1	SP	2014	560,000	04-15-14	04-30-14	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2014	53,000	04-15-14	05-15-14	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2014	96,000	04-15-14	05-15-14	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					15,051,799				
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2014	120,000	04-06-14	04-15-14	Grande Ronde Acclim Pond	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2014	138,000	03-21-14	04-15-14	Catherine Cr Acclim Pond	Grande Ronde River
Umatilla Tribe	Umatilla Hatchery	CH1	SP	2014	169,078	04-09-14	04-09-14	Imeques Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	CH1	SP	2014	224,459	04-09-14	04-09-14	Imeques Acclim Pond	Umatilla River
Umatilla Tribe Total					651,537				
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2014	75,000	04-09-14	04-09-14	W Fk Hood River	Hood River
Warm Springs Tribe Total					75,000				
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2014	141,000	04-10-14	04-10-14	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2014	142,000	04-10-14	04-10-14	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2014	143,000	04-10-14	04-10-14	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2014	147,000	04-10-14	04-10-14	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2014	222,300	04-15-14	04-25-14	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	FA	2014	500,000	04-08-14	04-08-14	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	50,000	04-15-14	04-15-14	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	90,000	04-05-14	04-15-14	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	107,500	04-15-14	04-15-14	Walla Walla River	Walla Walla River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	117,500	04-15-14	04-15-14	Lyons Ferry Hatchery Cottonwood Acclim	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	210,000	04-08-14	04-30-14	Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2014	49,162	04-15-14	04-30-14	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2014	203,330	04-15-14	04-20-14	Methow Hatchery	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2014	200,000	04-15-14	04-25-14	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	ST	SU	2014	50,000	04-10-14	04-30-14	Twisp Acclim Pond Ringold Springs	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2014	150,000	04-10-14	04-20-14	Hatchery Similkameen Acclim	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Similkameen Hatchery	CH1	SU	2014	115,000	04-15-14	05-10-14	Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2014	256,000	04-01-14	04-25-14	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2014	320,000	04-15-14	05-15-14	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					3,213,792				

Hatchery Releases Last Two Weeks

Yakama Tribe	Cle Elem Hatchery	CH1	SP	2014	258,316	03-15-14	05-15-14	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2014	270,653	03-15-14	05-15-14	Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2014	277,151	03-15-14	05-15-14	Easton Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	72,750	04-15-14	06-15-14	Easton Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	92,105	04-15-14	06-15-14	Holmes Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	92,376	04-15-14	06-15-14	Stiles Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	94,680	04-15-14	06-15-14	Lost Creek Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	140,342	04-15-14	06-15-14	Easton Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2014	43,408	04-15-14	06-15-14	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2014	108,570	04-15-14	06-15-14	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2014	221,567	04-15-14	06-15-14	Prosser Acclim Pond	Yakima River
Yakama Tribe Total					1,671,918				
Grand Total					30,039,143				

Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:		4/18/2014	to	5/1/2014					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	138,018	04-16-14	04-18-14	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2014	505,449	04-18-14	04-23-14	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2014	2,500,000	03-17-14	04-25-14	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	CH1	SP	2014	193,000	04-29-14	04-29-14	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					3,336,467				
Nez Perce Tribe	Dworshak NFH	ST	SU	2014	240,000	04-18-14	04-22-14	Lolo Creek	Clearwater River M F
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2014	233,061	03-21-14	04-22-14	Lostine Accim Pond	Wallowa River
Nez Perce Tribe Total					473,061				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2014	50,000	04-30-14	04-30-14	Big Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2014	165,000	04-30-14	04-30-14	Little Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2014	54,800	04-24-14	04-24-14	Meacham Creek	Umatilla River
Oregon Dept. of Fish and Wildlife Total					269,800				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2014	418,000	04-14-14	04-18-14	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2014	1,201,000	04-14-14	04-18-14	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2014	61,500	04-28-14	04-30-14	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2014	1,166,550	04-02-14	04-25-14	Sawtooth Hatchery	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2014	1,200,000	04-21-14	04-21-14	Icicle Creek	Wenatchee River
U.S. Fish and Wildlife Service	Winthrop NFH	CH1	SP	2014	560,000	04-15-14	04-30-14	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2014	53,000	04-15-14	05-15-14	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2014	96,000	04-15-14	05-15-14	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					4,756,050				
Umatilla Tribe	Cascade Hatchery	CO	UN	2014	750,000	04-20-14	04-20-14	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2014	54,800	04-20-14	04-20-14	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2014	54,800	04-20-14	04-20-14	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe Total					859,600				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2014	25,000	04-30-14	04-30-14	E Fk Irrig Dist Sand Trap	Hood River
Warm Springs Tribe	Parkdale Acclim. Pond	ST	WI	2014	12,500	04-30-14	04-30-14	Parkdale Acclim Pond	Hood River
Warm Springs Tribe Total					37,500				
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2014	222,300	04-15-14	04-25-14	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	ST	SU	2014	205,000	04-25-14	05-15-14	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	COOP	CH0	FA	2014	4,700	05-01-14	05-31-14	Above McNary Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	COOP	CH0	SU	2014	175	05-01-14	05-31-14	Methow River	Methow River
Washington Dept. of Fish and Wildlife	COOP	CH0	SU	2014	225	05-01-14	05-31-14	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2014	90,000	04-25-14	04-25-14	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2014	450,000	04-25-14	04-25-14	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2014	25,000	04-20-14	05-20-14	Blackbird Island Acc Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	41,000	04-20-14	04-20-14	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2014	210,000	04-08-14	04-30-14	Cottonwood Acclim Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2014	49,162	04-15-14	04-30-14	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2014	203,330	04-15-14	04-20-14	Methow Hatchery	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2014	200,000	04-15-14	04-25-14	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	ST	SU	2014	50,000	04-10-14	04-30-14	Twisp Acclim Pond	Methow River

Hatchery Releases Next Two Weeks

Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2014	150,000	04-10-14	04-20-14	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Similkameen Hatchery	CH1	SU	2014	115,000	04-15-14	05-10-14	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2014	90,000	05-01-14	05-10-14	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2014	256,000	04-01-14	04-25-14	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2014	50,000	04-20-14	04-30-14	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2014	320,000	04-15-14	05-15-14	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2014	80,000	04-25-14	05-10-14	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife Total					2,811,892				
Yakama Tribe	Cascade Hatchery	CO	UN	2014	49,841	05-01-14	05-30-14	Methow River	Methow River
Yakama Tribe	Cascade Hatchery	CO	UN	2014	49,892	05-01-14	05-30-14	Winthrop Hatchery	Methow River
Yakama Tribe	Cascade Hatchery	CO	UN	2014	64,822	05-01-14	05-30-14	Biddle Pond	Methow River
Yakama Tribe	Cascade Hatchery	CO	UN	2014	89,748	05-01-14	05-30-14	Twisp Acclim Pond	Methow River
Yakama Tribe	Cascade Hatchery	CO	UN	2014	97,683	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2014	258,316	03-15-14	05-15-14	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2014	270,653	03-15-14	05-15-14	Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2014	277,151	03-15-14	05-15-14	Easton Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	72,750	04-15-14	06-15-14	Easton Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	92,105	04-15-14	06-15-14	Holmes Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	92,376	04-15-14	06-15-14	Stiles Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	94,680	04-15-14	06-15-14	Lost Creek Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2014	140,342	04-15-14	06-15-14	Easton Pond	Yakima River
Yakama Tribe	Klickitat Hatchery	CO	NO	2014	926,000	05-01-14	05-01-14	Klickitat Hatchery	Klickitat River
Yakama Tribe	Marion Drain Hatchery	CH0	FA	2014	50,000	04-21-14	04-21-14	Roza Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2014	22,000	04-29-14	04-29-14	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2014	1,700,000	04-26-14	04-26-14	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2014	43,408	04-15-14	06-15-14	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2014	108,570	04-15-14	06-15-14	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2014	221,567	04-15-14	06-15-14	Prosser Acclim Pond	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2014	17,280	05-01-14	05-30-14	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	33,608	05-01-14	05-30-14	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	62,997	05-01-14	05-30-14	Coulter Creek	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	63,979	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	72,081	05-01-14	05-30-14	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	92,364	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	96,368	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	96,975	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	98,104	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	100,786	04-18-14	04-20-14	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	101,921	05-01-14	05-30-14	Rolfings Acclim Pond	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2014	109,688	05-01-14	05-30-14	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Winthrop NFH	CO	UN	2014	279,377	05-01-14	05-30-14	Winthrop Hatchery	Methow River
Yakama Tribe Total					5,947,432				
Grand Total					18,491,802				

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

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/04/2014	120.8	0.0	124.3	0.0	123.4	2.2	123.2	0.0	127.8	37.7	131.0	25.5	134.5	19.5
04/05/2014	122.6	0.0	123.4	0.0	128.5	0.0	131.2	0.0	137.3	40.6	138.0	29.9	145.1	20.5
04/06/2014	116.6	0.0	114.1	0.0	116.5	0.0	113.5	0.0	113.7	28.2	123.9	22.3	133.1	17.6
04/07/2014	126.5	0.0	126.8	0.0	125.8	0.0	121.2	0.0	119.8	29.6	126.2	21.2	131.8	0.0
04/08/2014	120.8	0.0	121.4	0.0	116.3	0.0	117.7	0.0	124.2	25.4	127.6	19.9	131.1	4.6
04/09/2014	112.1	0.0	111.6	0.0	123.4	9.6	119.0	0.0	125.9	25.3	133.2	28.8	140.9	5.7
04/10/2014	106.7	0.0	108.9	0.0	126.7	9.8	128.7	0.0	135.5	31.9	133.9	17.1	141.7	0.0
04/11/2014	119.9	0.0	119.7	0.0	120.4	8.4	110.4	0.0	116.3	21.7	124.9	3.7	132.3	0.0
04/12/2014	123.2	0.0	118.9	0.0	120.1	8.5	114.2	0.0	117.3	24.3	117.1	0.0	121.2	0.0
04/13/2014	131.4	0.0	133.7	0.0	128.4	9.1	116.6	0.0	120.6	21.6	118.2	14.2	118.3	1.1
04/14/2014	128.7	0.0	131.0	0.0	134.1	10.0	129.7	0.0	131.8	16.9	138.2	28.6	145.3	4.0
04/15/2014	141.3	0.0	139.2	0.0	140.6	10.3	136.6	0.0	132.7	21.5	143.4	34.6	150.2	46.2
04/16/2014	146.0	0.0	147.0	9.3	149.9	10.0	145.3	0.0	150.1	23.1	148.3	39.8	158.6	37.5
04/17/2014	145.5	0.0	146.5	16.8	150.7	10.0	145.7	0.0	156.9	40.6	153.8	42.8	166.8	30.6

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

Date	Dworshak		Brownlee		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/04/2014	19.7	8.5	15.8	21.3	66.6	20.7	67.3	20.1	69.7	27.9	70.6	51.9		
04/05/2014	20.1	8.8	15.8	20.3	70.3	20.4	70.1	21.1	71.3	27.9	74.3	52.5		
04/06/2014	19.9	8.8	15.2	21.2	67.1	20.2	68.3	20.5	67.6	28.0	67.7	49.8		
04/07/2014	19.9	9.2	14.9	22.0	71.7	20.2	73.4	22.0	74.9	27.9	76.9	54.5		
04/08/2014	20.0	9.2	14.4	18.4	70.9	21.8	71.3	22.8	74.1	27.9	77.4	54.3		
04/09/2014	20.1	9.2	14.5	16.3	71.0	20.5	69.7	20.9	69.9	27.9	71.5	53.0		
04/10/2014	19.8	9.0	14.9	16.6	83.5	20.7	83.7	25.1	85.0	29.1	88.4	59.4		
04/11/2014	19.8	8.9	15.6	19.1	81.7	20.6	80.7	24.0	80.1	29.4	84.5	57.4		
04/12/2014	19.8	8.9	15.8	18.5	84.3	22.2	84.7	26.6	85.9	27.0	86.9	58.1		
04/13/2014	20.0	8.9	16.2	18.4	84.2	20.5	83.5	25.1	84.9	26.0	88.4	58.3		
04/14/2014	20.0	8.9	16.3	19.5	83.0	21.6	83.5	25.7	83.4	26.8	85.8	58.2		
04/15/2014	20.0	8.9	16.1	10.9	78.7	31.3	79.1	31.1	79.6	28.0	83.5	67.2		
04/16/2014	19.9	9.0	15.5	12.8	69.6	20.6	70.3	21.2	70.0	28.0	71.7	53.7		
04/17/2014	19.9	9.0	14.8	19.0	71.4	21.6	72.4	22.5	72.1	28.6	74.5	55.7		

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
04/04/2014	205.1	71.4	213.0	0.0	209.9	0.0	226.2	18.4	84.2	111.2
04/05/2014	227.5	89.1	231.6	0.0	229.6	0.0	241.0	28.6	84.5	115.5
04/06/2014	219.9	81.4	210.5	0.0	208.7	0.0	232.4	20.8	83.8	115.4
04/07/2014	207.6	74.1	213.6	0.0	209.5	0.0	219.9	26.1	79.9	101.5
04/08/2014	210.3	75.4	206.4	0.0	205.6	0.0	219.4	34.6	80.0	92.4
04/09/2014	206.2	61.5	209.3	0.0	205.3	0.0	222.8	36.5	80.8	93.1
04/10/2014	241.6	98.4	250.5	75.1	238.5	95.4	261.3	99.9	55.2	93.8
04/11/2014	241.9	97.1	237.7	71.3	221.6	88.6	244.8	100.4	32.7	99.3
04/12/2014	222.2	88.9	226.4	68.0	213.8	85.5	236.7	100.4	22.6	101.3
04/13/2014	235.9	94.2	240.0	72.1	228.3	91.0	246.5	100.4	32.7	101.0
04/14/2014	228.9	95.9	225.7	67.9	214.7	85.9	234.7	100.4	33.1	88.8
04/15/2014	231.9	124.2	231.9	78.8	212.9	95.5	225.3	101.9	23.1	87.9
04/16/2014	239.7	115.8	251.0	75.2	237.7	95.1	268.3	100.6	66.3	89.0
04/17/2014	253.4	127.5	249.7	76.5	237.0	96.6	261.5	100.9	60.1	88.1

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											
	04/10/14	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/17/14	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	04/06/14	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/11/14	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/16/14	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	04/07/14	Chinook + Steelhead	90	0	0	0.00%	0.00%	0	0	0	0
	04/10/14	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	04/14/14	Chinook + Steelhead	77	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
Rock Island Dam											

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>				<u>Boundary</u>				<u>Grand Coulee</u>				<u>Grand C. Tlwr</u>				<u>Chief Joseph</u>			
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/4	111.2	111.5	112.3	24	---	---	---	0	105.8	106.1	106.5	24	103.4	103.6	103.8	24	---	---	---	0
4/5	111.0	111.1	111.2	24	---	---	---	0	105.5	105.8	106.1	24	102.5	102.8	103.3	24	---	---	---	0
4/6	111.0	111.1	111.2	24	---	---	---	0	105.2	105.5	106.6	24	102.0	102.1	102.5	24	---	---	---	0
4/7	111.8	112.7	113.4	24	---	---	---	0	105.3	106.1	106.6	24	101.5	101.8	102.2	24	---	---	---	0
4/8	113.3	113.4	113.5	24	---	---	---	0	107.4	108.9	115.5	24	102.8	103.6	104.5	24	---	---	---	0
4/9	113.3	113.4	113.7	24	---	---	---	0	106.1	106.3	106.9	24	103.0	103.1	103.4	24	---	---	---	0
4/10	113.4	113.5	113.7	24	---	---	---	0	105.9	106.2	106.6	24	102.7	102.9	103.1	24	---	---	---	0
4/11	113.5	113.6	113.7	24	---	---	---	0	107.3	107.8	108.3	24	104.1	104.9	105.2	24	---	---	---	0
4/12	113.4	113.5	113.5	24	---	---	---	0	107.1	107.3	107.4	24	104.5	104.8	105.2	24	---	---	---	0
4/13	113.2	113.3	113.5	24	---	---	---	0	106.2	106.3	106.4	24	103.9	104.2	104.3	24	---	---	---	0
4/14	114.1	114.6	114.7	24	---	---	---	0	107.3	108.2	108.4	24	104.7	105.4	105.7	24	---	---	---	0
4/15	114.6	114.7	114.9	24	---	---	---	0	107.8	107.9	108.1	24	105.7	105.8	106.0	24	---	---	---	0
4/16	114.7	114.8	115.2	24	---	---	---	0	107.9	108.2	108.3	24	105.6	105.9	106.1	24	106.3	106.4	106.6	15
4/17	114.8	114.9	115.1	23	---	---	---	0	108.7	109.0	109.2	23	106.3	106.6	106.7	23	106.6	106.8	106.9	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>				<u>Wells</u>				<u>Wells Dwnstrm</u>				<u>Rocky Reach</u>				<u>Rocky R. Tlwr</u>			
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/4	---	---	---	0	103.9	104.1	104.5	20	106.4	106.6	106.8	20	106.8	107.3	108.0	24	107.5	107.9	108.3	24
4/5	---	---	---	0	103.6	103.8	103.9	21	106.0	106.1	106.2	21	105.4	105.4	105.5	12	106.2	106.2	106.5	11
4/6	---	---	---	0	103.8	104.0	104.6	21	105.5	105.7	105.9	21	103.6	103.6	103.9	3	---	---	---	0
4/7	---	---	---	0	104.3	104.7	105.3	20	105.3	105.6	105.9	20	103.8	103.8	103.8	1	---	---	---	0
4/8	---	---	---	0	105.2	105.7	106.1	23	106.0	106.3	106.5	23	105.0	105.3	105.7	17	105.5	105.7	106.0	16
4/9	---	---	---	0	104.8	105.0	105.3	20	105.6	105.7	105.9	19	105.0	105.2	105.5	24	105.4	105.6	105.9	24
4/10	---	---	---	0	104.8	105.1	105.4	18	106.2	107.0	108.2	17	105.6	106.3	106.9	24	105.7	106.3	107.1	24
4/11	---	---	---	0	106.0	106.4	106.8	24	104.7	107.5	108.6	24	107.2	107.4	107.6	24	107.1	107.4	107.7	24
4/12	---	---	---	0	105.7	106.0	106.4	20	106.2	107.4	108.3	20	107.0	107.2	107.4	24	107.1	107.3	107.4	24
4/13	---	---	---	0	105.0	105.4	105.8	23	105.6	107.5	108.2	23	106.0	106.3	106.4	24	106.2	106.6	107.1	24
4/14	---	---	---	0	106.1	106.6	106.8	23	105.7	108.9	109.7	23	107.2	107.9	108.4	24	107.4	107.9	108.4	24
4/15	---	---	---	0	106.2	106.4	106.6	21	106.0	109.1	110.6	21	108.1	108.4	108.6	24	108.0	108.7	109.0	24
4/16	---	---	---	0	106.2	106.3	106.5	22	106.9	109.0	109.3	22	108.2	108.5	108.8	24	108.5	108.7	108.9	24
4/17	---	---	---	0	106.8	106.9	107.2	18	107.0	109.4	110.0	18	108.8	109.1	109.3	23	108.9	109.1	109.4	23

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>				<u>Rock I. Tlwr</u>				<u>Wanapum</u>				<u>Wanapum Tlwr</u>				<u>Priest Rapids</u>			
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/4	106.1	106.9	107.8	24	111.4	111.7	112.5	24	109.2	109.8	110.2	24	110.9	112.2	112.5	24	108.5	109.1	109.7	24
4/5	105.0	105.1	105.8	14	109.7	109.7	111.4	11	110.0	110.5	111.1	24	112.3	112.7	113.1	24	111.0	111.3	111.5	24
4/6	104.2	104.2	104.7	3	---	---	---	0	109.2	109.6	110.4	24	110.3	111.2	112.7	24	111.9	112.3	113.8	24
4/7	103.2	103.2	104.1	7	---	---	---	0	108.8	109.2	109.7	24	109.2	109.5	109.9	24	110.5	110.8	111.2	24
4/8	104.3	104.8	105.1	18	109.2	109.4	111.4	15	109.4	110.3	110.7	24	110.0	110.8	111.2	24	110.7	111.3	113.1	24
4/9	104.2	104.5	104.7	24	108.6	109.5	111.5	24	108.4	108.9	110.1	24	111.3	112.5	115.0	24	110.0	110.5	111.4	24
4/10	104.3	104.9	105.4	24	109.4	110.5	111.3	24	---	---	---	0	---	---	---	0	---	---	---	0
4/11	105.9	106.4	106.6	24	110.7	112.1	113.2	24	---	---	---	0	---	---	---	0	---	---	---	0
4/12	106.0	106.3	106.6	24	110.8	111.8	112.1	24	---	---	---	0	---	---	---	0	---	---	---	0
4/13	105.0	105.7	106.0	24	108.4	109.4	111.1	24	---	---	---	0	---	---	---	0	---	---	---	0
4/14	106.2	106.9	107.4	24	109.0	111.5	113.3	24	---	---	---	0	---	---	---	0	---	---	---	0
4/15	106.8	107.1	107.4	24	112.2	113.3	113.7	24	---	---	---	0	---	---	---	0	---	---	---	0
4/16	107.1	107.2	107.4	24	111.3	112.2	113.4	24	---	---	---	0	---	---	---	0	---	---	---	0
4/17	107.5	108.0	108.1	23	112.4	113.9	114.9	23	---	---	---	0	---	---	---	0	---	---	---	0

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

Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	Priest R. Dnst				Pasco				Dworshak				Clrwr-Peck				Anatone			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/4	108.9	110.3	111.0	24	---	---	---	0	115.9	116.3	116.6	24	108.3	108.6	109.0	24	101.6	102.0	102.4	24
4/5	111.3	112.2	112.6	24	---	---	---	0	115.4	115.5	115.8	24	108.1	108.4	108.7	24	101.6	102.2	102.9	24
4/6	112.1	112.8	113.5	24	---	---	---	0	115.1	115.3	115.7	24	108.0	108.3	108.9	24	101.9	102.4	103.2	24
4/7	109.2	109.4	110.3	24	---	---	---	0	115.8	116.0	116.1	24	108.4	109.1	109.4	24	102.0	103.0	103.7	23
4/8	109.8	110.4	111.5	24	---	---	---	0	116.6	116.9	117.0	24	108.9	109.5	109.9	24	102.3	103.1	103.8	24
4/9	109.7	110.4	111.2	24	---	---	---	0	116.5	116.6	116.8	24	107.8	108.3	108.7	24	101.8	102.3	103.1	24
4/10	---	---	---	0	---	---	---	0	116.1	116.3	116.6	24	106.8	107.5	107.8	24	101.8	102.8	103.5	24
4/11	---	---	---	0	---	---	---	0	116.6	117.1	117.5	24	107.6	108.4	108.9	24	102.4	103.3	104.3	24
4/12	---	---	---	0	---	---	---	0	116.6	116.8	117.1	24	107.3	107.8	108.1	24	102.0	102.5	103.3	24
4/13	---	---	---	0	---	---	---	0	116.0	116.2	116.4	24	107.0	107.7	108.2	24	101.9	102.8	103.5	24
4/14	---	---	---	0	---	---	---	0	116.2	116.6	116.9	24	107.8	108.8	109.2	24	102.8	103.9	104.4	24
4/15	---	---	---	0	---	---	---	0	116.5	116.7	116.8	24	107.7	108.0	108.3	24	102.5	102.9	103.5	24
4/16	---	---	---	0	---	---	---	0	116.6	116.7	117.2	17	108.0	108.8	109.0	24	102.2	102.9	103.7	24
4/17	---	---	---	0	---	---	---	0	117.5	117.6	117.7	14	108.8	109.2	109.4	23	102.5	102.9	103.3	23

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/4	105.5	106.2	107.1	24	103.7	103.8	103.9	24	111.6	111.8	111.9	24	104.0	104.6	105.0	24	109.2	109.4	109.8	24
4/5	105.0	106.0	106.7	24	103.4	103.5	103.6	24	111.1	111.3	111.6	24	103.9	104.1	104.4	24	109.3	109.4	109.7	24
4/6	105.0	105.7	106.7	24	103.4	103.5	103.6	24	110.9	111.2	111.5	24	106.3	107.4	107.8	24	110.0	110.4	110.8	24
4/7	105.4	106.9	108.0	24	103.0	103.2	103.4	24	110.9	111.2	111.8	24	108.0	108.7	109.2	24	110.6	111.0	111.1	24
4/8	106.2	107.6	108.7	24	103.9	104.3	104.5	24	111.4	112.4	116.4	24	110.5	111.6	112.5	24	111.5	112.0	115.6	24
4/9	105.7	106.5	107.4	24	104.3	104.4	104.5	24	111.5	111.7	112.0	24	110.8	111.1	111.5	24	111.1	111.3	111.6	24
4/10	104.9	106.0	106.9	24	104.8	105.0	105.3	24	111.3	111.5	111.7	24	111.7	112.2	112.5	24	111.8	112.1	112.2	24
4/11	105.5	106.6	107.3	24	105.1	105.3	105.5	24	111.1	111.3	111.4	24	112.3	112.6	112.7	24	111.5	111.6	111.9	24
4/12	105.3	105.9	106.4	24	104.7	104.9	105.0	24	111.4	112.2	117.2	24	112.0	112.3	113.0	24	112.1	112.6	115.4	24
4/13	103.5	104.3	105.1	24	103.5	103.7	104.2	24	110.8	111.0	111.2	24	109.9	110.2	110.9	24	111.1	111.6	113.1	24
4/14	104.2	105.9	106.7	24	103.8	104.4	104.7	24	111.0	111.8	116.2	24	110.0	110.6	111.8	24	111.4	112.2	113.5	24
4/15	104.6	105.0	105.4	24	104.4	104.8	105.0	24	114.5	117.2	117.5	24	110.3	110.5	110.6	24	113.5	115.3	115.8	24
4/16	103.7	104.7	105.4	24	104.5	104.8	105.1	24	111.7	111.9	112.1	24	109.8	110.0	110.1	24	110.7	110.8	111.0	24
4/17	105.0	105.6	105.9	23	105.0	105.2	105.3	23	112.3	112.7	116.0	23	110.0	110.2	111.1	23	111.0	111.4	114.3	23

Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/4	103.1	103.5	104.1	24	117.2	117.4	117.8	24	104.1	104.3	104.8	24	115.2	115.6	115.9	24	---	---	---	0
4/5	103.8	104.7	105.3	24	117.5	117.8	118.0	24	108.1	109.8	110.4	24	115.4	115.6	116.0	24	---	---	---	0
4/6	105.3	105.4	105.6	24	117.5	117.7	117.9	24	110.1	110.3	110.4	24	115.2	115.5	115.7	24	---	---	---	0
4/7	106.1	106.5	107.0	24	117.9	118.2	118.4	24	111.0	111.7	112.6	24	115.5	115.7	116.0	24	---	---	---	0
4/8	108.6	109.6	110.4	24	118.3	118.5	118.7	24	113.8	114.6	115.0	24	115.7	115.9	116.0	24	---	---	---	0
4/9	110.3	111.1	111.7	24	118.5	118.8	119.0	24	114.5	114.6	114.7	24	115.5	115.8	116.2	24	---	---	---	0
4/10	111.5	111.7	112.0	24	119.4	120.1	120.8	24	114.5	114.8	115.7	24	116.4	116.9	117.6	24	---	---	---	0
4/11	112.4	112.8	113.1	24	119.6	120.5	120.8	24	115.8	116.1	116.3	24	116.6	116.9	117.5	24	---	---	---	0
4/12	113.1	113.3	113.6	24	118.7	118.9	119.2	24	115.6	115.8	116.0	24	116.2	116.4	116.6	24	---	---	---	0
4/13	111.1	111.5	112.4	24	118.0	118.2	118.5	24	113.9	114.1	114.7	24	116.0	116.4	116.6	24	---	---	---	0
4/14	112.4	113.0	113.3	24	118.6	118.9	119.1	24	114.0	114.4	114.8	24	115.8	116.1	116.4	24	---	---	---	0
4/15	112.5	112.9	113.3	24	118.8	119.0	119.1	24	114.4	114.6	114.9	24	116.1	116.6	117.0	24	---	---	---	0
4/16	111.9	112.1	112.4	24	118.6	118.9	119.1	24	113.7	113.9	114.1	24	115.5	115.9	116.1	24	---	---	---	0
4/17	113.0	113.4	114.0	23	119.1	119.5	120.0	23	114.2	114.3	114.5	23	115.8	116.1	116.3	23	---	---	---	0

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			#	<u>McNary Tlwr</u>			#	<u>John Day</u>			#	<u>John Day Tlwr</u>			#	<u>The Dalles</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24h</u>	<u>12h</u>	<u>High</u>		<u>24h</u>	<u>12h</u>	<u>High</u>		<u>24h</u>	<u>12h</u>	<u>High</u>	
4/4	106.2	106.4	106.5	24	113.6	114.0	114.9	24	107.0	107.2	107.5	24	106.8	107.0	107.8	24	106.0	106.2	106.4	24
4/5	106.6	107.3	107.7	24	112.6	112.8	112.9	24	107.0	107.2	107.3	24	106.7	106.8	106.9	24	105.9	106.1	106.2	24
4/6	107.4	107.6	107.8	24	113.3	113.7	114.0	24	106.8	106.9	107.1	24	106.5	106.7	106.8	24	105.4	105.6	105.9	24
4/7	107.6	108.3	108.9	24	113.1	113.3	113.6	24	107.3	108.0	108.6	24	107.1	107.8	108.2	24	106.4	107.0	107.4	24
4/8	110.2	110.8	111.2	24	113.9	114.3	114.6	24	108.7	108.9	109.2	24	108.0	108.2	108.6	24	107.6	107.8	108.1	24
4/9	111.8	112.3	112.5	24	115.1	115.5	116.1	24	107.7	107.9	108.3	24	107.1	107.3	107.5	24	106.7	107.0	107.4	24
4/10	111.3	111.8	112.3	24	114.1	114.3	114.6	24	107.7	108.2	108.7	24	115.6	117.2	118.9	24	107.3	108.8	110.6	24
4/11	111.5	111.5	111.7	24	114.2	114.5	114.7	24	109.8	110.5	110.9	24	113.4	113.7	114.7	24	110.4	110.7	111.1	24
4/12	111.0	111.1	111.2	24	114.0	114.3	114.5	24	110.6	110.8	111.0	24	113.6	114.1	114.8	24	110.7	111.4	112.0	24
4/13	109.7	110.1	110.4	24	113.7	114.2	114.5	24	110.3	110.8	111.2	24	113.5	114.1	114.7	24	111.0	111.3	111.6	24
4/14	109.9	110.2	110.6	24	113.6	113.9	114.1	24	112.3	113.2	113.8	24	113.9	114.4	115.3	24	112.1	112.5	113.0	24
4/15	109.8	110.1	110.4	24	115.3	116.4	117.1	24	112.1	112.6	113.1	24	114.4	115.2	115.7	24	110.7	111.3	112.4	24
4/16	108.9	109.0	109.0	24	114.9	115.5	116.4	24	110.8	110.9	111.0	24	113.8	114.3	115.0	24	111.1	111.6	112.0	24
4/17	110.2	110.8	111.3	23	115.9	116.4	117.2	23	110.8	111.0	111.1	23	114.0	114.5	116.9	23	111.9	112.0	112.2	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>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24h</u>	<u>12h</u>	<u>High</u>		<u>24h</u>	<u>12h</u>	<u>High</u>		<u>24h</u>	<u>12h</u>	<u>High</u>	
4/4	106.2	106.4	106.6	24	106.0	106.2	106.3	24	106.6	106.9	107.2	24	106.0	106.5	106.8	24	110.5	110.8	111.3	24
4/5	106.2	106.3	106.5	24	105.6	105.8	106.1	24	106.4	106.7	106.9	24	105.7	105.9	105.9	24	111.5	112.5	114.2	24
4/6	105.7	105.8	106.0	24	104.6	104.8	105.0	24	105.6	105.8	106.1	24	105.3	105.6	106.1	24	110.7	111.3	111.6	24
4/7	106.6	107.1	107.4	24	105.6	106.4	106.6	24	106.7	108.0	109.3	24	105.9	107.0	107.7	24	111.1	112.8	114.9	24
4/8	107.8	108.1	108.4	24	106.8	107.3	107.6	24	107.7	108.2	108.4	24	107.6	108.4	109.2	24	111.3	111.8	112.0	24
4/9	107.1	107.3	107.5	24	106.5	106.9	107.2	24	107.8	108.3	108.5	24	107.4	108.2	109.1	24	110.3	111.0	112.3	24
4/10	113.3	114.7	116.1	24	106.3	106.5	106.7	24	111.4	112.1	112.5	24	108.8	111.0	112.3	24	117.5	117.7	117.8	24
4/11	116.0	116.2	116.6	24	108.9	111.0	111.2	24	113.9	114.5	114.8	24	110.6	111.5	112.4	24	117.5	117.8	118.0	24
4/12	116.2	116.4	116.6	24	112.4	113.0	113.3	24	115.7	116.3	116.8	24	112.7	114.2	115.2	24	117.6	117.7	117.9	24
4/13	116.5	116.9	117.1	24	112.7	113.2	113.5	24	115.5	115.7	115.8	24	112.8	113.5	114.0	24	117.7	117.9	118.0	24
4/14	117.0	117.5	117.9	24	113.9	114.7	115.5	24	115.9	116.3	116.9	24	112.3	113.6	114.7	24	117.7	117.8	118.0	24
4/15	117.4	118.6	121.4	24	112.7	113.1	114.0	24	115.9	116.2	116.8	24	113.5	114.6	115.3	24	117.5	117.6	118.8	24
4/16	116.4	116.7	116.8	24	113.1	114.5	115.4	24	115.0	115.6	116.1	24	113.8	114.2	114.7	24	118.2	118.5	118.7	24
4/17	117.6	118.3	121.2	23	114.8	115.1	115.2	23	116.0	116.2	116.5	23	114.4	114.8	115.3	23	118.5	118.7	120.6	23

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 4/18/2014 7:18

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/currentsmpsubmitdata.asp>

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/04/2014 *	193	3,159	263	11	10,261	---	12	4	---	745	488
04/05/2014 *	438	24,147	367	9	11,659	---	---	8	---	685	581
04/06/2014 *	554	3,028	455	31	20,165	---	---	0	---	915	811
04/07/2014 *	1,431	4,253	2,089	3	15,362	3,510	36	10	136	860	1,341
04/08/2014 *	2,088	5,868	570	26	16,998	---	---	11	---	865	859
04/09/2014 *	1,536	1,684	1,120	22	12,173	---	---	13	291	610	1,268
04/10/2014 *	3,601	2,210	761	3	14,693	---	151	14	---	849	1,739
04/11/2014 *	3,925	1,493	669	34	17,048	---	---	41	616	974	1,583
04/12/2014 *	5,806	866	572	45	13,115	9,989	---	136	---	830	2,972
04/13/2014 *	5,879	1,676	---	85	27,712	---	217	108	2,144	1,375	4,854
04/14/2014 *	7,195	824	870	346	22,312	---	---	143	---	1,691	2,420
04/15/2014 *	4,881	1,015	1,083	466	36,145	---	---	64	8,715	1,588	2,540
04/16/2014 *	1,514	1,001	893	106	49,136	---	133	86	---	2,701	2,856
04/17/2014 *	---	---	272	---	51,094	23,292	---	47	12,257	3,627	4,062
04/18/2014	---	---	---	---	---	---	---	---	---	---	---
Total:	39,041	51,224	9,984	1,187	317,873	36,791	549	685	24,159	18,315	28,374
# Days:	13	13	13	13	14	3	5	14	6	14	14
Average:	3,003	3,940	768	91	22,705	12,264	110	49	4,027	1,308	2,027
YTD	58,198	54,423	14,773	1,448	372,533	37,163	584	716	24,159	20,002	44,546

COMBINED SUBYEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/04/2014 *	0	0	0	1	74	---	0	19	---	0	252
04/05/2014 *	0	0	0	0	144	---	---	4	---	5	299
04/06/2014 *	0	0	0	0	141	---	---	220	---	0	441
04/07/2014 *	0	0	0	7	143	0	0	10	15	0	201
04/08/2014 *	0	0	0	3	792	---	---	274	---	10	527
04/09/2014 *	0	0	0	0	70	---	---	108	91	0	555
04/10/2014 *	0	0	0	0	0	---	0	85	---	0	300
04/11/2014 *	0	3	0	9	66	---	---	118	34	0	571
04/12/2014 *	0	1	0	1	67	36	---	65	---	7	305,128
04/13/2014 *	0	3	---	0	0	---	0	39	135	0	322,634
04/14/2014 *	0	3	0	7	0	---	---	14	---	0	61,529
04/15/2014 *	0	0	0	0	443	---	---	17	575	0	7,826
04/16/2014 *	0	0	0	2	315	---	0	36	---	12	3,972
04/17/2014 *	---	---	0	---	0	1	---	32	296	0	2,973
04/18/2014	---	---	---	---	---	---	---	---	---	---	---
Total:	0	10	0	30	2,255	37	0	1,041	1,146	34	707,208
# Days:	13	13	13	13	14	3	5	14	6	14	14
Average:	0	1	0	2	161	12	0	74	191	2	50,515
YTD	0	10	1	54	3,780	37	0	1,090	1,146	67	734,456

Two-Week Summary of Passage Indices

COMBINED COHO												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
04/04/2014 *	0	0	0	0	0	---	0	0	---	0	1,008	
04/05/2014 *	0	0	0	0	0	---	---	8	---	0	613	
04/06/2014 *	0	0	0	0	0	---	---	4	---	5	626	
04/07/2014 *	0	0	0	0	0	0	0	0	0	15	1,054	
04/08/2014 *	0	0	0	0	0	---	---	0	---	0	790	
04/09/2014 *	0	0	0	0	0	---	---	0	0	5	441	
04/10/2014 *	0	0	0	0	0	---	0	0	---	0	540	
04/11/2014 *	0	0	0	0	0	---	---	0	0	0	597	
04/12/2014 *	0	0	0	0	0	0	---	5	---	0	750	
04/13/2014 *	0	0	---	0	0	---	0	3	17	0	1,941	
04/14/2014 *	0	0	0	2	0	---	---	0	---	0	1,382	
04/15/2014 *	0	0	0	0	0	---	---	5	96	0	568	
04/16/2014 *	0	0	0	0	0	---	0	5	---	12	3,245	
04/17/2014 *	---	---	0	---	0	0	---	6	493	0	5,799	
04/18/2014	---	---	---	---	---	---	---	---	---	---	---	
Total:	0	0	0	2	0	0	0	36	606	37	19,354	
# Days:	13	13	13	13	14	3	5	14	6	14	14	
Average:	0	0	0	0	0	0	0	3	101	3	1,382	
YTD	0	0	0	2	70	0	0	41	606	41	26,218	

COMBINED STEELHEAD												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
04/04/2014 *	0	223	2	23	6,644	---	5	4	---	450	63	
04/05/2014 *	2	151	1	30	4,678	---	---	0	---	520	94	
04/06/2014 *	2	89	2	25	4,513	---	---	0	---	425	216	
04/07/2014 *	1	50	3	6	5,859	5,177	227	7	302	490	364	
04/08/2014 *	2	44	4	18	4,033	---	---	0	---	585	343	
04/09/2014 *	1	65	28	13	4,222	---	---	0	807	470	566	
04/10/2014 *	66	271	72	17	7,657	---	157	9	---	579	396	
04/11/2014 *	78	248	114	26	5,018	---	---	0	1,164	681	415	
04/12/2014 *	110	130	87	77	6,058	5,331	---	3	---	816	738	
04/13/2014 *	257	118	---	114	9,260	---	59	25	2,313	1,317	0	
04/14/2014 *	215	97	43	134	7,570	---	---	21	---	1,017	692	
04/15/2014 *	301	140	76	151	8,852	---	---	14	2,742	749	1,602	
04/16/2014 *	60	75	14	99	28,190	---	84	27	---	1,071	1,584	
04/17/2014 *	---	---	2	---	18,631	13,392	---	9	3,751	1,304	559	
04/18/2014	---	---	---	---	---	---	---	---	---	---	---	
Total:	1,095	1,701	448	733	121,185	23,900	532	119	11,079	10,474	7,632	
# Days:	13	13	13	13	14	3	5	14	6	14	14	
Average:	84	131	34	56	8,656	7,967	106	9	1,847	748	545	
YTD	1,122	8,632	525	821	149,598	24,909	561	124	11,079	11,161	8,339	

Two-Week Summary of Passage Indices

COMBINED SOCKEYE												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
04/04/2014	*	0	0	0	0	1,255	---	3	210	---	20	142
04/05/2014	*	0	0	0	0	1,583	---	---	786	---	25	283
04/06/2014	*	0	0	0	0	1,551	---	---	57	---	35	537
04/07/2014	*	0	0	0	0	786	498	7	219	0	25	326
04/08/2014	*	0	0	0	0	1,296	---	---	122	---	10	321
04/09/2014	*	0	0	0	0	1,478	---	---	237	2	0	192
04/10/2014	*	0	0	0	0	1,380	---	15	552	---	17	204
04/11/2014	*	0	0	0	0	1,130	---	---	447	51	0	376
04/12/2014	*	0	0	0	0	1,065	1,071	---	1,239	---	14	482
04/13/2014	*	0	0	---	0	2,655	---	14	1,396	287	29	324
04/14/2014	*	0	0	0	0	1,859	---	---	373	---	29	692
04/15/2014	*	0	0	0	0	1,623	---	---	350	479	60	310
04/16/2014	*	0	0	0	0	1,890	---	17	1,272	---	93	441
04/17/2014	*	---	---	0	---	2,258	3,876	---	1,320	1,681	92	353
04/18/2014		---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	21,809	5,445	56	8,580	2,500	449	4,983
# Days:		13	13	13	13	14	3	5	14	6	14	14
Average:		0	0	0	0	1,558	1,815	11	613	417	32	356
YTD		0	0	0	0	30,786	5,569	58	8,657	2,500	521	12,729

COMBINED LAMPREY JUVENILES											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR [†] (Samp)	LGS (Coll)	LMN (Coll)	RIS (Coll)	MCN (Coll)	JDA (Coll)	BO2 (Coll)
04/04/2014	*	0	0	0	0	---	1	1	---	875	200
04/05/2014	*	0	0	0	0	---	---	0	---	550	88
04/06/2014	*	0	0	0	0	---	---	0	---	680	100
04/07/2014	*	0	0	0	0	12	1	1	10	585	65
04/08/2014	*	0	0	0	0	---	---	0	---	630	60
04/09/2014	*	0	0	0	0	---	---	1	90	310	55
04/10/2014	*	0	0	0	0	---	4	0	---	235	85
04/11/2014	*	0	0	0	0	---	---	0	120	250	30
04/12/2014	*	0	0	0	0	100	---	1	---	190	193
04/13/2014	*	0	0	---	0	---	0	0	560	245	857
04/14/2014	*	0	0	0	0	---	---	0	---	270	429
04/15/2014	*	0	0	0	0	---	---	0	600	100	20
04/16/2014	*	0	0	0	0	---	1	0	---	152	40
04/17/2014	*	---	---	0	---	50	---	0	100	168	0
04/18/2014		---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	162	7	4	1,480	5,240	2,222
# Days:		13	13	13	13	14	3	5	14	6	14
Average:		0	0	0	0	54	1	0	247	374	159
YTD		1	0	0	0	162	7	5	1,480	7,939	11,370

Two-Week Summary of Passage Indices

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's), subyearling chinook (chinook 0's), steelhead, coho, sockeye, and lamprey juveniles. Two classes of fish counts are shown in these tables:

Two classes of fish counts are shown in these tables:

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

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

Passage indices (INDEX), which are collection counts divided by the proportion of water passing through the sampled powerhouse.

Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations.

The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

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

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

Definitions for Smolt Index Counts

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

IMN (Collection) = Imnaha River Trap : Collection Counts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe.

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

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

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

4/18/14 7:21 AM

04/04/14 TO 04/18/14

		Species					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
LGR	Sum of NumberCollected	1,550	222,925		84,325	15,450	324,250
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	1,545	222,890		84,321	15,435	324,191
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	5	24		4	8	41
	Sum of FacilityMorts	0	11		0	7	18
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	5	35		4	15	59
LGS	Sum of NumberCollected	26	25,671		16,677	3,798	46,172
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	25	25,668		16,676	3,796	46,165
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	0	3		1	2	6
	Sum of FacilityMorts	1	0		0	0	1
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	1	3		1	2	7
LMN	Sum of NumberCollected		356		332	36	724
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		351		330	36	717
	Sum of Numbertrucked		0		0	0	0
	Sum of SampleMorts		1		0	0	1
	Sum of FacilityMorts		0		0	0	0
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		1		0	0	1
MCN	Sum of NumberCollected	620	12,672	310	6,112	1,303	21,017
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	619	12,651	310	6,108	1,297	20,985
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	4	0	2	1	8
	Sum of FacilityMorts	0	17	0	2	5	24
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	21	0	4	6	32
Total Sum of NumberCollected		2,196	261,624	310	107,446	20,587	392,163
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		2,189	261,560	310	107,435	20,564	392,058
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		6	32	0	7	11	56
Total Sum of FacilityMorts		1	28	0	2	12	43
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		7	60	0	9	23	99

YTD Transportation Summary

Source: Fish Passage Center

Updated: 4/18/14 7:21 AM

TO: 04/18/14

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	3,000	276,095	70	24,250	111,665	415,080
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,987	276,047	70	24,215	111,659	414,978
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	13	35	0	27	6	81
	Sum of FacilityMorts	0	13	0	8	0	21
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	13	48	0	35	6	102
LGS	Sum of NumberCollected	26	26,019		3,914	17,621	47,580
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	25	26,015		3,910	17,619	47,569
	Sum of NumberTrucked	0	0		0	0	0
	Sum of SampleMorts	0	4		4	2	10
	Sum of FacilityMorts	1	0		0	0	1
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	1	4		4	2	11
LMN	Sum of NumberCollected		391		38	361	790
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		386		38	359	783
	Sum of NumberTrucked		0		0	0	0
	Sum of SampleMorts		1		0	0	1
	Sum of FacilityMorts		0		0	0	0
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		1		0	0	1
MCN	Sum of NumberCollected	620	12,672	310	1,303	6,112	21,017
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	619	12,651	310	1,297	6,108	20,985
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	4	0	1	2	8
	Sum of FacilityMorts	0	17	0	5	2	24
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	21	0	6	4	32
Total Sum of NumberCollected		3,646	315,177	380	29,505	135,759	484,467
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		3,631	315,099	380	29,460	135,745	484,315
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		14	44	0	32	10	100
Total Sum of FacilityMorts		1	30	0	13	2	46
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		15	74	0	45	12	146

Cumulative Adult Passage at Mainstem Dams Through: 04/17

DAM	END DATE	Spring Chinook						Summer Chinook						Fall Chinook					
		2014		2013		10-Yr Avg.		2014		2013		10-Yr Avg.		2014		2013		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	04/17	10620	49	1994	25	8377	19	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/17	3366	36	845	18	3942	4	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/17	1668	44	613	15	2188	3	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/17	474	9	249	3	818	3	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/17	184	1	161	4	410	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/17	147	1	94	4	149	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/17	54	1	61	2	60	0	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/17	37	0	29	2	30	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	04/16	7	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
WAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/15	753	2	551	2	1485	0	0	0	0	0	0	0	0	0	0	0	0	0

DAM	END DATE	Coho						Sockeye			Steelhead					Lamprey			
		2014		2013		10-Yr Avg.		2014	2013	10-Yr Avg.	10-Yr Avg.	Wild 2014	Wild 2013	10-Yr Avg.	2014	2013	10-Yr Avg.		
		Adult	Jack	Adult	Jack	Adult	Jack												
BON	04/17	5	-2	0	0	0	0	3	0	0	3348	2393	2991	1064	754	838	1	-1	0
TDA	04/17	0	0	0	0	0	0	0	0	0	237	515	1949	101	256	726	0	0	0
JDA	04/17	0	1	0	0	0	0	0	0	0	2639	617	4087	1033	345	1206	-1	0	0
MCN	04/17	0	0	1	0	1	0	0	0	0	362	1137	4886	230	559	1554	1	0	0
IHR	04/17	0	0	0	0	0	0	0	0	0	1120	3370	3938	517	1340	1075	0	3	0
LMN	04/17	0	0	0	0	0	0	1	0	0	782	1965	5754	500	1109	2280	0	0	0
LGS	04/17	0	0	0	0	0	0	0	0	0	802	1644	5666	538	855	1722	0	0	0
LGR	04/17	0	0	0	0	0	0	0	0	0	6716	6649	7504	2960	2765	2392	0	0	0
PRD	04/16	0	0	0	0	0	0	0	0	0	17	3	3	0	0	0	0	0	0
WAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/15	9	0	2	0	0	0	0	0	0	4707	5583	6243	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.