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Summer Supply Update November 15, 2018

The following are highlights related to key components of the 2018 Summer Supply Plan. Drawdown and demand curves updated to reflect the latest conditions are included at the end of this update (Figures 1 and 2).

Weather Forecasts: The current forecasts go through the end of January and indicate that the temperatures will be average to warmer than average through the forecast period. Forecasts diverge on precipitation, with some being average and some being wetter than average.

Bull Run Status: Bull Run reservoirs started drawing down on May 20, which was about six weeks earlier than the average onset of drawdown. Drawdown ended on October 27, with reservoirs reaching a minimum storage of 1.6 billion gallons (BGal), or 16% of usable storage. Figure 1 shows the 2018 Bull Run drawdown curve.

Demand: Demand averaged 104 million gallons a day (MGD) in May, 115 MGD in June, 131 MGD in July, 128 MGD in August, 97 MGD in September, and 86 MGD in October. May demand was 11.7% above 2017 demand and 6.2% above the average May demand for the previous five years (2013-2017). June demand was 3.0% above June 2017 demand and 2.0% below the average June demand for the previous five years. July demand was equal to July 2017 demand and equal to the average of the previous five years. August demand was 5.5% below August 2017 demand and 3.4% below the average August demand for the previous five years. September demand was 9.0% below September 2017 demand and 8.6% below the average September demand for the previous five years. October demand was nearly equal to October 2017 demand and 2.0% below the average October demand for the previous five years. Figure 2 shows the 2018 demand curve compared to the previous five years.

Groundwater Status: In response to lower than expected storage levels in the Bull Run reservoirs (Figure 1), the Portland Water Bureau (PWB) operated the Columbia South Shore Well Field (CSSWF) from June 20 to October 17, pumping a total of 4.6 BGal.

Bull Run Lake: The Portland Water Bureau released water from Bull Run Lake at a rate of 20-40 cfs beginning on August 20. This release of water added to supply in downstream reservoirs but was stopped on August 24 due to observed pipe damage, which is being investigated.

Fish Releases/Downstream Flows: The Portland Water Bureau manages water releases downstream of Bull Run Reservoir 2 to meet minimum flow requirements and water temperature targets for the lower Bull Run River required by the Bull Run Water Supply Habitat Conservation Plan (HCP). Minimum flow levels were 120 cubic feet per second (cfs) through May 30, 30 cfs in June, and 20 cfs since July 1. In May, additional flow above 120 cfs was released downstream when needed to meet water temperature targets. June 1 through September 30, flow releases in the lower Bull Run River were changed twice a day (typically within the range of 20 to 50 cfs or more) to meet downstream water temperature targets. Minimum flow levels then increased on October 1 to be 50% of the reservoir inflow (calculated on a weekly basis) with a minimum of 70 cfs and a maximum of 400 cfs. On November 1, the targets changed to 40% of the reservoir inflow with a minimum of 150 cfs and a cap of 400 cfs.

Starting in December, the minimum flow in the lower Bull Run River will be set at 120 cfs and will remain there until spring 2017.

Water Efficiency Activities:

The Portland Water Bureau's water efficiency program provides information, technical assistance, and incentives to all Portlanders. Water efficiency programs are ongoing and include residential, commercial and regional activities as shown below. The PWB:

- Distributes water efficiency devices and information at community events, to the customer service walk-in center, and through online-orders. These devices include showerheads, aerators, and toilet leak tablets.
- Provides commercial and multi-family site visits to assess water savings opportunities.
- Offers commercial and multifamily customers detailed water consumption evaluations to help determine likely causes of increased water use and identify opportunities for water savings.
- Provides custom incentives for commercial customers for water efficiency improvements.
- Offers rebates for toilets, irrigation controllers, multi-stream irrigation heads, and replacing water-cooled ice machines with EnergyStar-labeled air-cooled ice machines.
- Offers irrigation tune-ups for customers with concerns about high water use.
- Publishes a summer Customer Newsletter (bill insert) with water conservation information, monthly blogs and regular social media messages regarding water conservation.
- Maintains the water-wise demonstration garden at the Hazelwood HydroPark to showcase water-efficient plant choices and irrigation technology.

The PWB is a member of the Regional Water Providers Consortium (RWPC), and an active participant in the Conservation subcommittee. In addition to the programs listed above, Portland participates in the following regional conservation efforts:

- RWPC partners with the following television stations and shows: KGW Channel 8, Garden Time and KUNP (Univision – Spanish language television) to run water conservation advertising spots and news stories on all programs from June through August. Messaging is done through a series of stories in both English and Spanish. RWPC places water conservation radio ads through Alpha Media Portland on approximately 7 Portland-area radio stations. Advertising spots air from June through August.
- RWPC sends out quarterly e-newsletters.
- On its website, the RWPC publishes the Weekly Watering Number to help customers determine how much water is required to irrigate both landscapes and gardens. The Weekly Watering Number can be found on the RWPC's website: www.conserveh2o.org and is available from April – September. Also, all Consortium members have received the Weekly Watering Number widget to place directly on their entity's respective websites.

Figure 1: 2018 Drawdown Curve

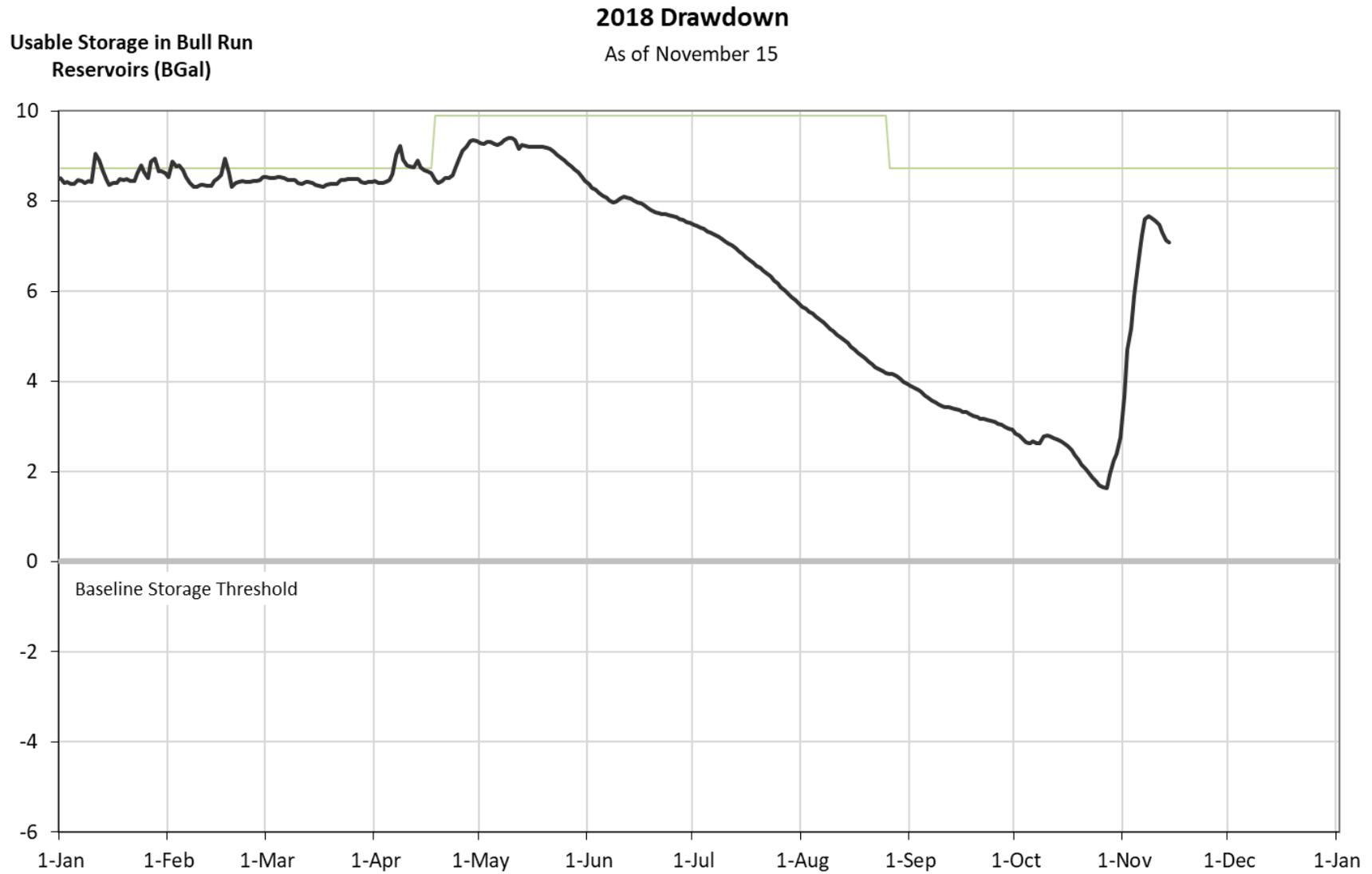


Figure 2: 2018 Demand Curve Compared to Previous Five Years

