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Summer Supply Update October 10, 2017

The following are highlights related to key components of the 2017 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 December and indicate that it will generally be somewhat warmer and wetter than average through the forecast period.

Bull Run Status: Bull Run reservoirs started drawing down on June 22, which is about two weeks earlier than the average onset of drawdown. Bull Run reservoirs reached a low point of 3.2 billion gallons, or 32% of usable storage on September 17. Rain partially refilled the reservoirs and as of October 9, there were 4.1 billion gallons, or about 41% of usable storage, remaining in the Bull Run reservoirs. Figure 1 shows the 2017 Bull Run drawdown curve.

Demand: Demand averaged 93 MGD in May, 111 MGD in June, 131 MGD in July, 135 MGD in August, and 107 MGD in September. May demand was 7.6% below 2016 demand and 5.3% below the average May demand for the previous 5 years (2012-2016). June demand was approximately equal to 2016 demand and 3.3% below the average June demand for the previous 5 years. July demand was 9.4% above 2016 demand and 0.9% above the average July demand for the previous 5 years. August demand was 3.8% above 2016 demand and 2.2% above the average August demand for the previous 5 years. September demand was 5.9% above 2016 demand and 2% below the average September demand for the previous 5 years. Figure 2 shows the 2017 demand curve compared to the previous five years.

Groundwater Status: Each year, the Portland Water Bureau (PWB) operates the Columbia South Shore Well Field to exercise equipment and identify repair needs. The 2017 groundwater maintenance operation was conducted concurrent with the 100% groundwater run that occurred between February 13 and March 15. A total of 2.3 billion gallons of groundwater were delivered to the distribution system over 31 days. Groundwater was also run for seven hours on September 7, to augment the Bull Run supply during a temporary shortage in treatment chemicals.

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 June 15, 30-115 cfs in the second half of June, and 20 cfs July 1 through September 30. In May, additional flow above 120 cfs was released downstream on a few occasions to meet water temperature targets. From June 1 to 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. Starting October 1, fall minimum flow requirements are calculated as a percent of tributary inflow. The downstream releases have ranged from a minimum of 90 to 255 cfs thus far in October.

Water Efficiency Activities:

Various water efficiency education, outreach, and assistance activities were carried out throughout the 2017 summer supply season. These included residential, regional, and business, industry, and government (BIG) program activities as shown below.

Residential Water Efficiency:

The Portland Water Bureau:

- Distributes water efficiency devices and information at the customer service walk-in center. These kits include showerheads, aerators, and toilet leak tablets.
- Provides \$50 toilet rebates for residential, commercial and multifamily customers.
- Provides rebates for improving the water efficiency of automatic irrigation systems.
- Provides irrigation tune-ups for customers with concerns about high water use.
- Published a Customer Newsletter with water efficiency information that is included in all bills that are sent out in the summer.
- Publishes monthly blogs and social media messages regarding water efficiency.
- Attends community events around the city during the summer and distributes water efficiency devices and information.
- Maintains the water-wise demonstration garden at the Hazelwood HydroPark to showcase water-efficient plant choices and irrigation technology.

Regional Conservation:

The Portland Water Bureau is a member of the Regional Water Providers Consortium (RWPC), and an active participant in the Conservation subcommittee. Below is a summary of key offerings focused on summer water use.

- RWPC places water conservation radio ads through Alpha Media Portland on approximately 7 Portland-area radio stations. Ad spots air from June through August.
- RWPC partners with the following television stations and shows: KGW Channel 8, Garden Time and KUNP (Univision – Spanish language television) to run water conservation ads spots and news stories on all programs from June through August. Messaging is done through a series of stories in both English and Spanish.
- Outreach materials have been distributed throughout the summer months – providing summer water efficiency information to residential customers, nurseries, multi-family properties, trade ally partners, and media partners. Outreach materials were also distributed through the RWPC website, events, and media channels (television, print, Spanish media).
- RWPC continues to send out quarterly e-newsletters.
- The Weekly Watering Number (WW#) is posted on the RWPC's website, www.conserveh2o.org, from April through September. The WW# is used by customers to determine how much water is required for their landscape and garden. All Consortium members have received the WW# widget to place directly on their entity's respective websites.

Business, Industry, and Government (BIG) Water Efficiency:

- BIG staff continue to work with commercial and multifamily customers to reduce water use as requested by our customers. Multifamily buildings, hotels, colleges, and restaurants are typical customers that BIG works with.
- The BIG program receives most of its referrals from the bureau's customer service department but also from the Sustainability at Work program housed at the Bureau of Planning and Sustainability, directly from customers and from the Bureau of Environmental Services (BES).

Figure 1: 2017 Drawdown Curve

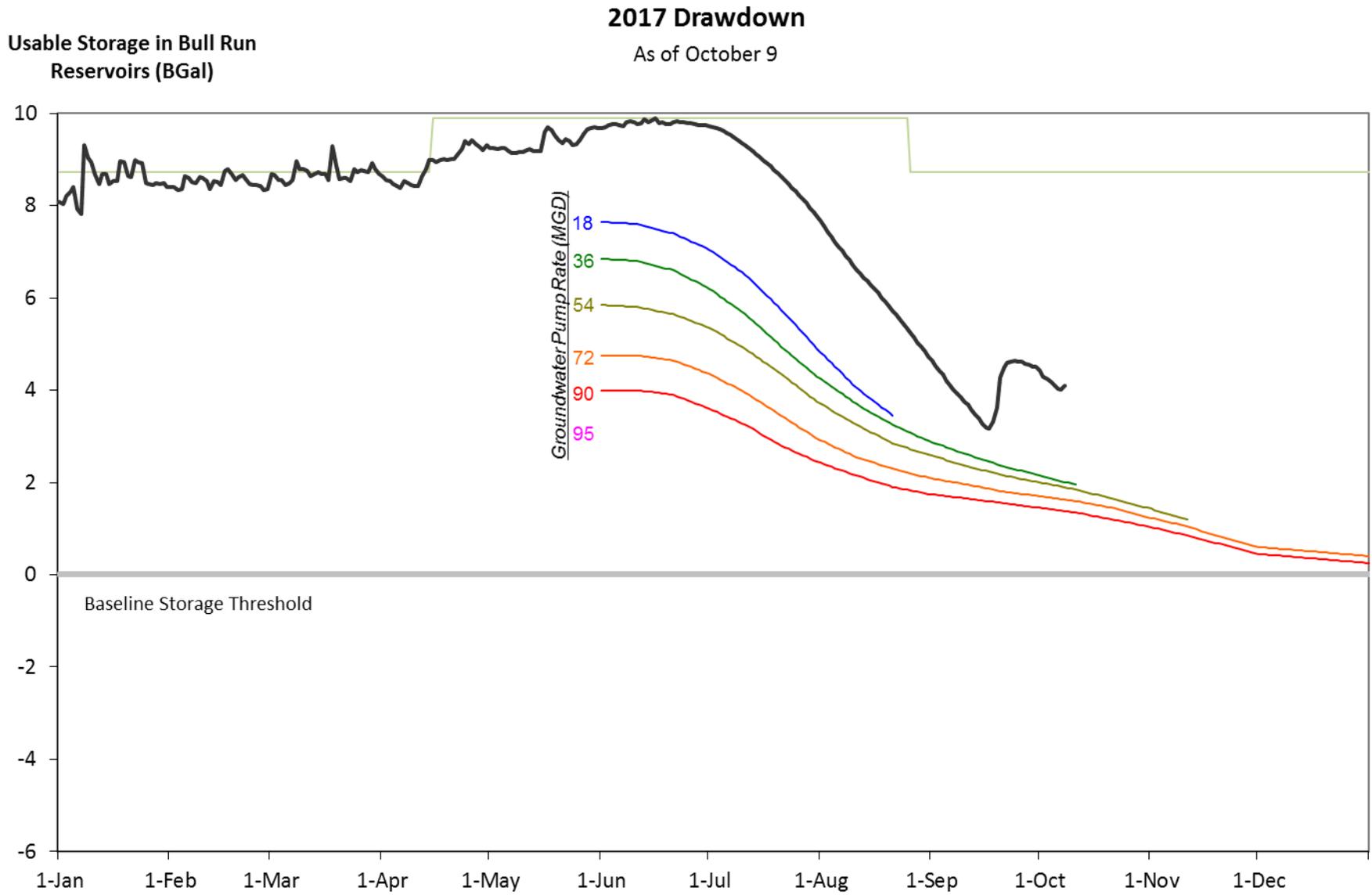


Figure 2: 2017 Demand Curve Compared to Previous Five Years

