



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JANUARY 8, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 16

Riverside Public Utilities Drought and Conservation Efforts / Groundwater Level Update As of November 2017

Conservation Efforts

For the month of November 2017, Riverside resident's water conservation went down by 2% which is similar to last month conservation drop. Weather condition comparisons between November 2013 and November 2017 shows that November 2017 was about 4 degrees warmer but had 1.2 inches additional rainfall compared to November 2013.

Cumulatively RPU is at 13% reduction from June 2016 through November 2017 (Figure 1). This translates to 14,555 Acre-feet (4,743 million gallons) of potable water being conserved.

On a Regional scale, Riverside resident's water consumption; measured in gallons per capita per day (Residential-GPCD) is comparable to the aggregate consumption within the surrounding ten water agencies (Figure 2). RPU's Residential-GPCD moved a little higher than the regional Residential-GPCD in the months of May through October 2017, but it is at the same level regionally since January 2017 with an average of 110. Figure 2 also reveals that Residential-GPCD trend has moved up regionally and State wide.

Basin Groundwater Levels

Groundwater levels in the Bunker Hill, Rialto-Colton, and Riverside North basins are continuing to show a long-term, declining trend while groundwater levels in the Riverside South Basin remain stable (Figure 3). Groundwater levels in Bunker Hill, Rialto-Colton, and Riverside North are beginning to rebound from summer pumping. However, the Bunker Hill Basin is about 15 feet lower compared to last year while the Rialto-Colton and Riverside North Basins are 4.5 feet and 1 foot lower compared to last year, respectively.

Figure 1: RPU Total Urban Water Production Percent Saving During Mandatory Conservation Starting June 2016 Compared to 2013 Baseline

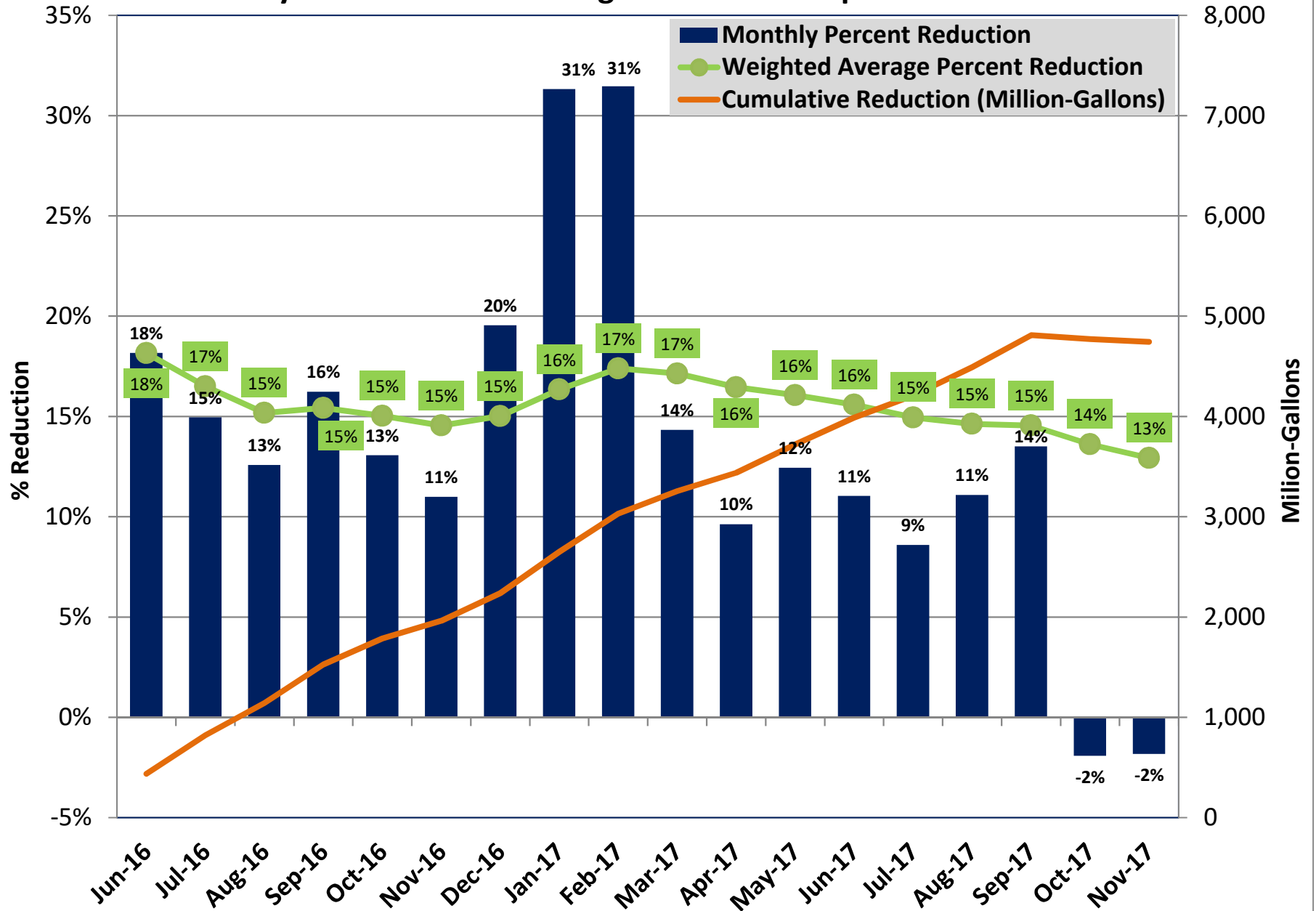
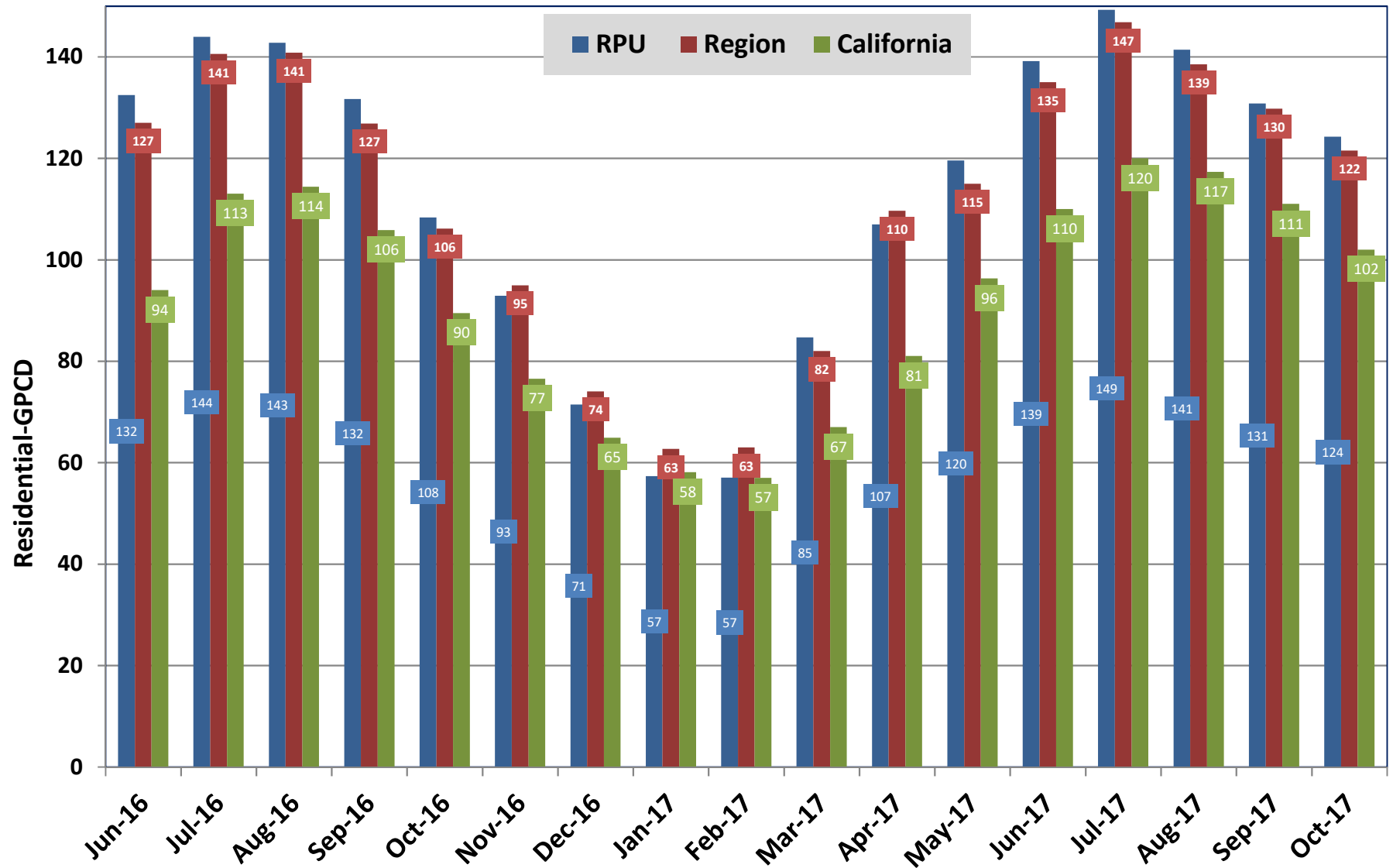


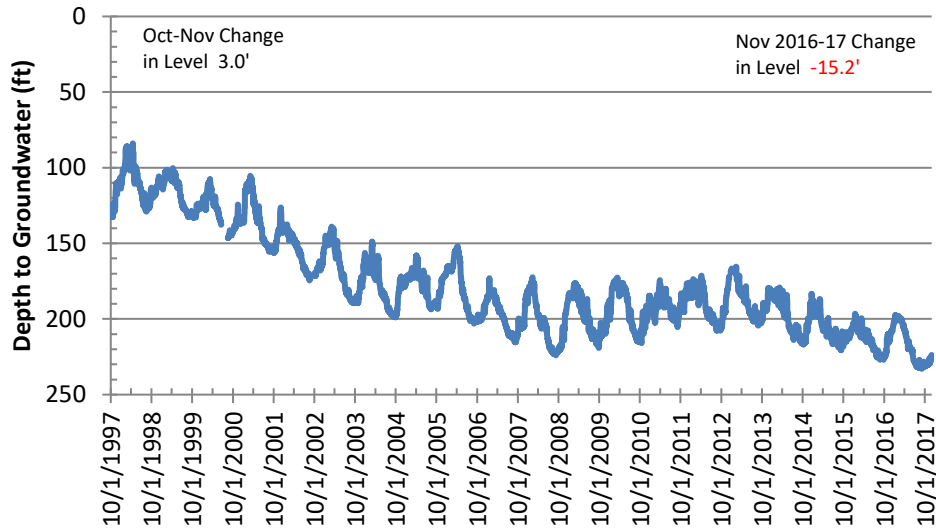
Figure 2: Regional Residential-GPCD Comparison



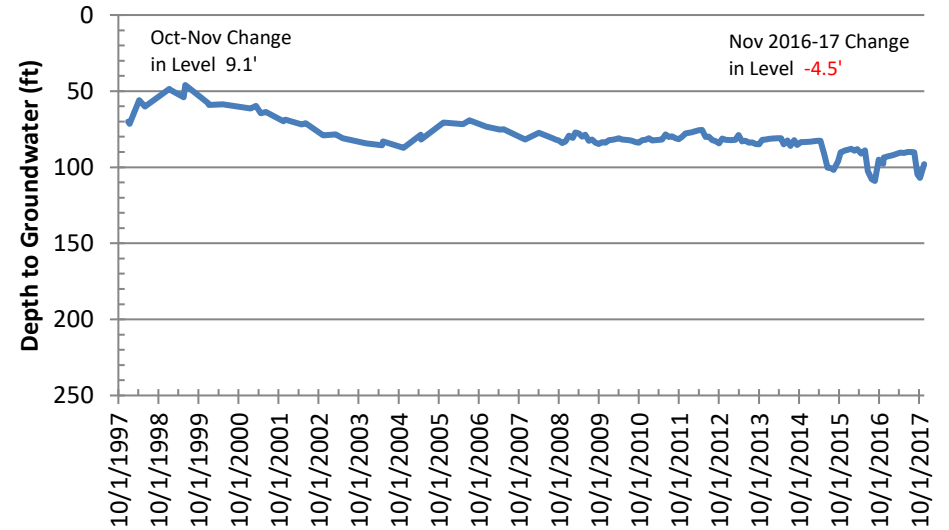
Region Includes: Western Municipal Water District of Riverside, Eastern Municipal Water District, San Bernardino City of, Corona City of, Elsinore Valley Municipal Water District, Lee Lake Water District, East Valley Water District, Norco City of, Jurupa Community Service District, and Riverside Highland Water Company.

Figure 3: Basin Groundwater Levels

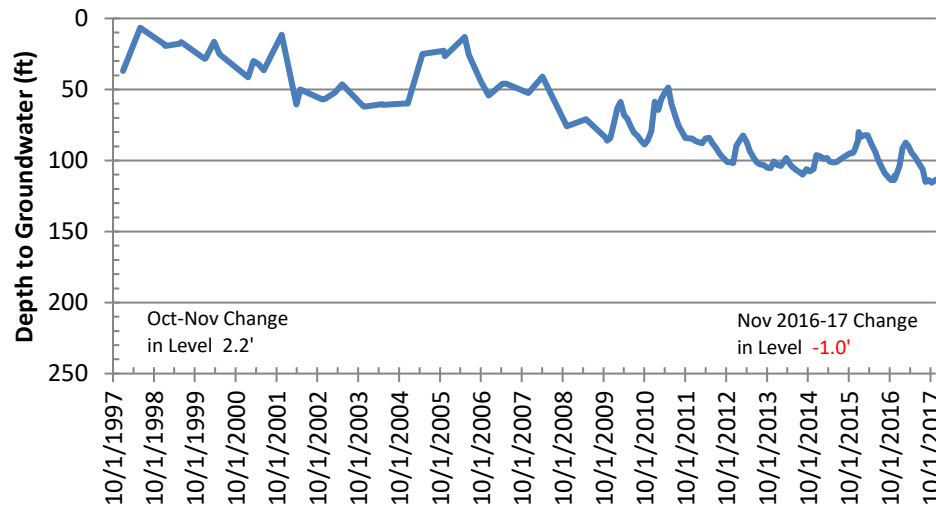
Bunker Hill Basin Sierra High School (USGS)



Rialto-Colton Basin Johnson 1



Riverside North Basin Flume 5



Riverside South Basin Cunningham

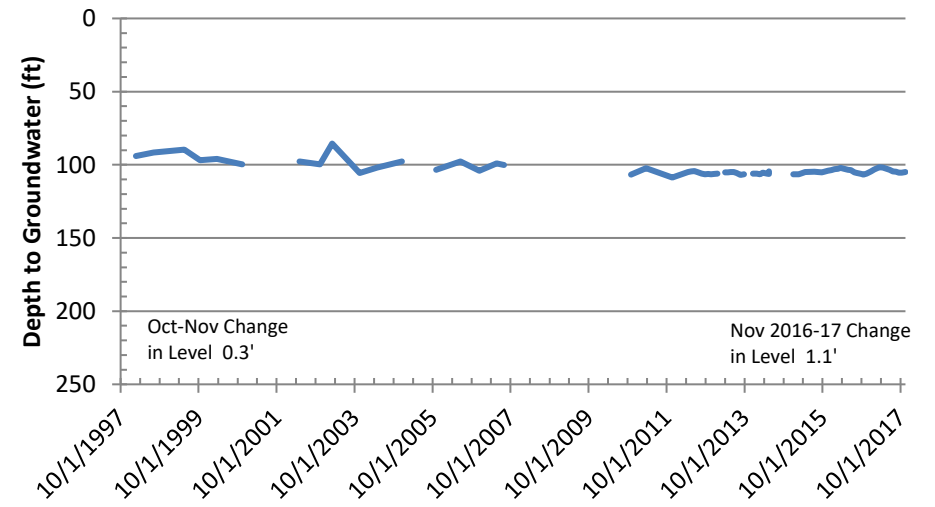


Figure 4: Basin Groundwater Levels

