

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: January 13, 2020

GENERAL MANAGER'S REPORT

ITEM NO: 16

SUBJECT: MONTHLY WATER REPORT – November 2019

In November, RPU's total water production was 6,620 acre-feet (AF) as shown in Figures 1 and 2. RPU's annual rolling production totals by month are shown in Figure 3. In November, the peak water usage on the potable water distribution system was 66.7 million gallons per day (MGD) and occurred on November 3, 2019 as shown on Figure 4.

RPU's potable water supply, including deliveries to Western Municipal Water District (WMWD), totaled 5,462 AF, which decreased from last November by 304 AF. Under the Cooperative Agreement for Water Production and Conveyance with WMWD, 530 AF was wholesaled to WMWD during November as shown in Figures 1 and 2. During this 2019/20 fiscal year, a total of 3,115 AF of potable water has been delivered to WMWD.

In November, RPU's Gallons Per-Capita per Day (GPCD) was 181, and its Residential Gallons Per-Capita per Day (R-GPCD) was 106. RPU's annual rolling GPCD was 177, which is below the compliance target specified in SB X7-7 (i.e. 20% reduction by 2020) of 213. RPU's annual rolling R-GPCD was 104 as shown on Figure 5.

Weather conditions within the City of Riverside showed that November of 2019 was cooler by 0.87 degrees from November last year and experienced a decrease of 0.69 inches of rainfall compared to November 2018.

There were no significant events for the water system in November 2019.

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 relatively stable as shown in Figure 6. Water levels increased by 1 foot in the Bunker Hill Basin as compared to November of last year. Water levels increased by 3 feet in the Rialto-Colton Basin as compared to November of last year. Water levels remained stable in the Riverside North Basin and increased by 1 foot in the Riverside South Basin as compared to November of last year.

FIGURE 1: RPU WATER - TOTAL PRODUCTION REPORT- FISCAL YEAR 2019 -2020

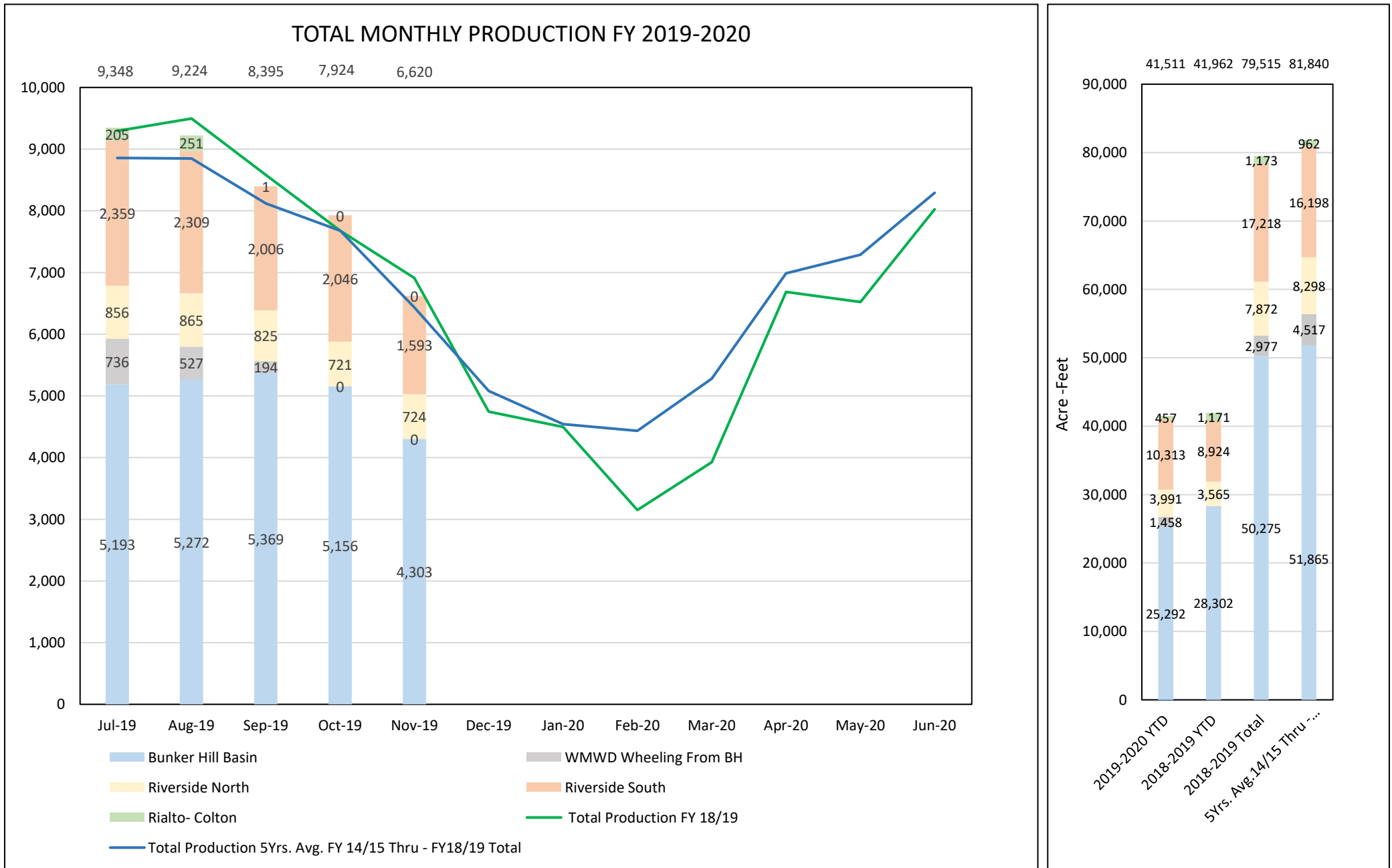


FIGURE 2: RPU WATER - TOTAL PRODUCTION REPORT - CALENDAR YEAR 2019

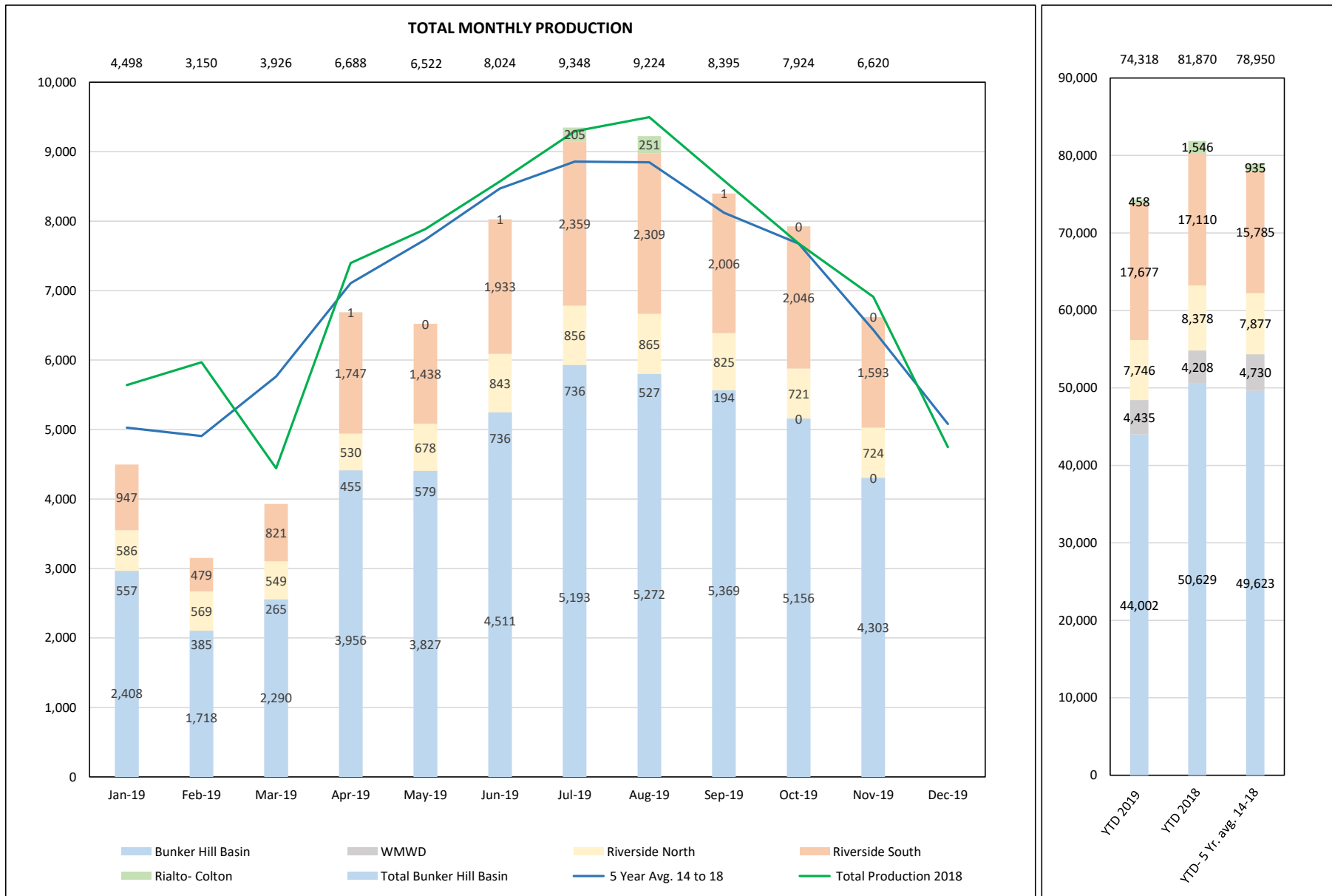


FIGURE 3: RPU WATER - TOTAL PRODUCTION REPORT

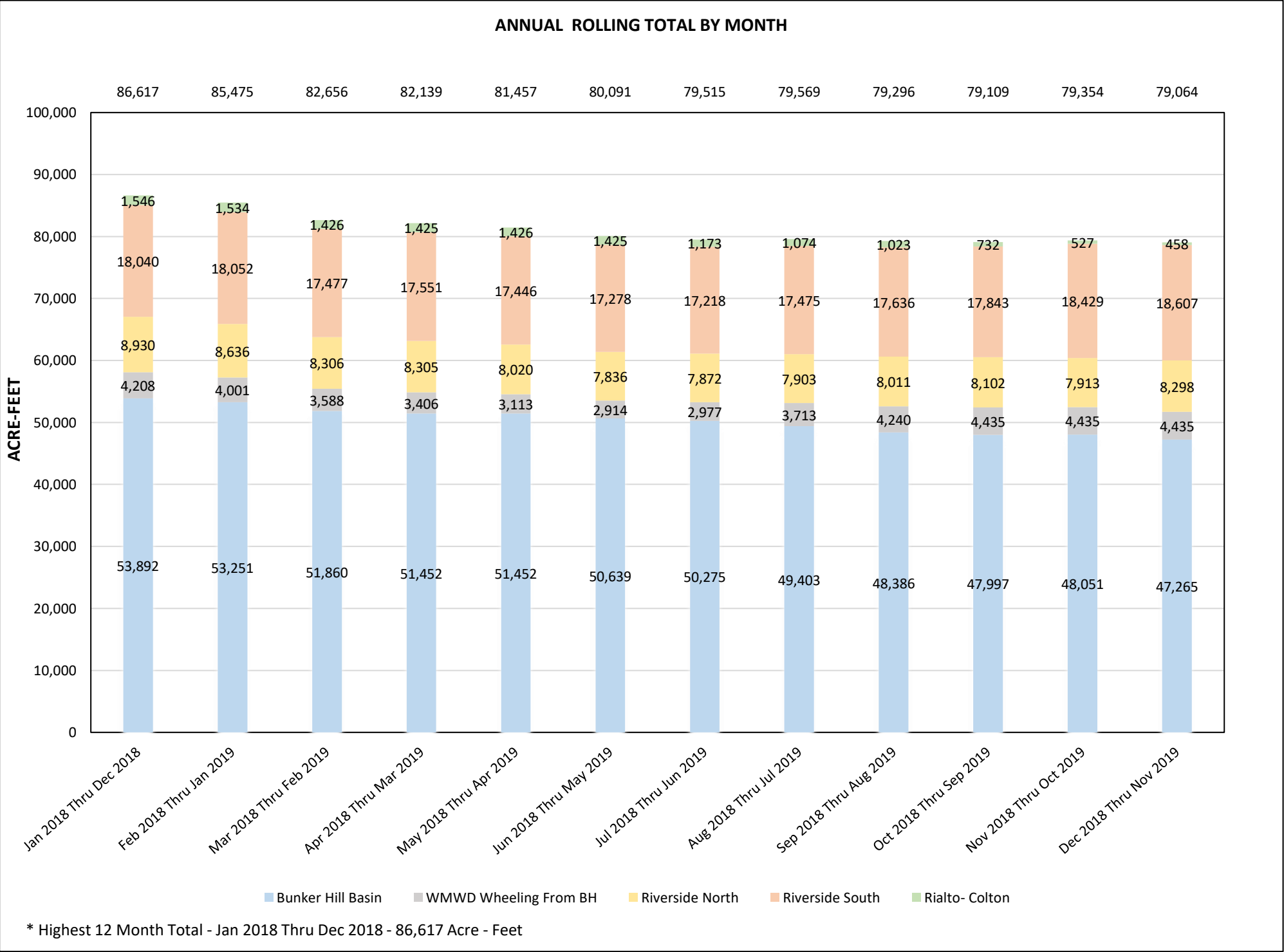


FIGURE 4: RPU WATER- TOTAL MONTHLY CONSUMPTION REPORT

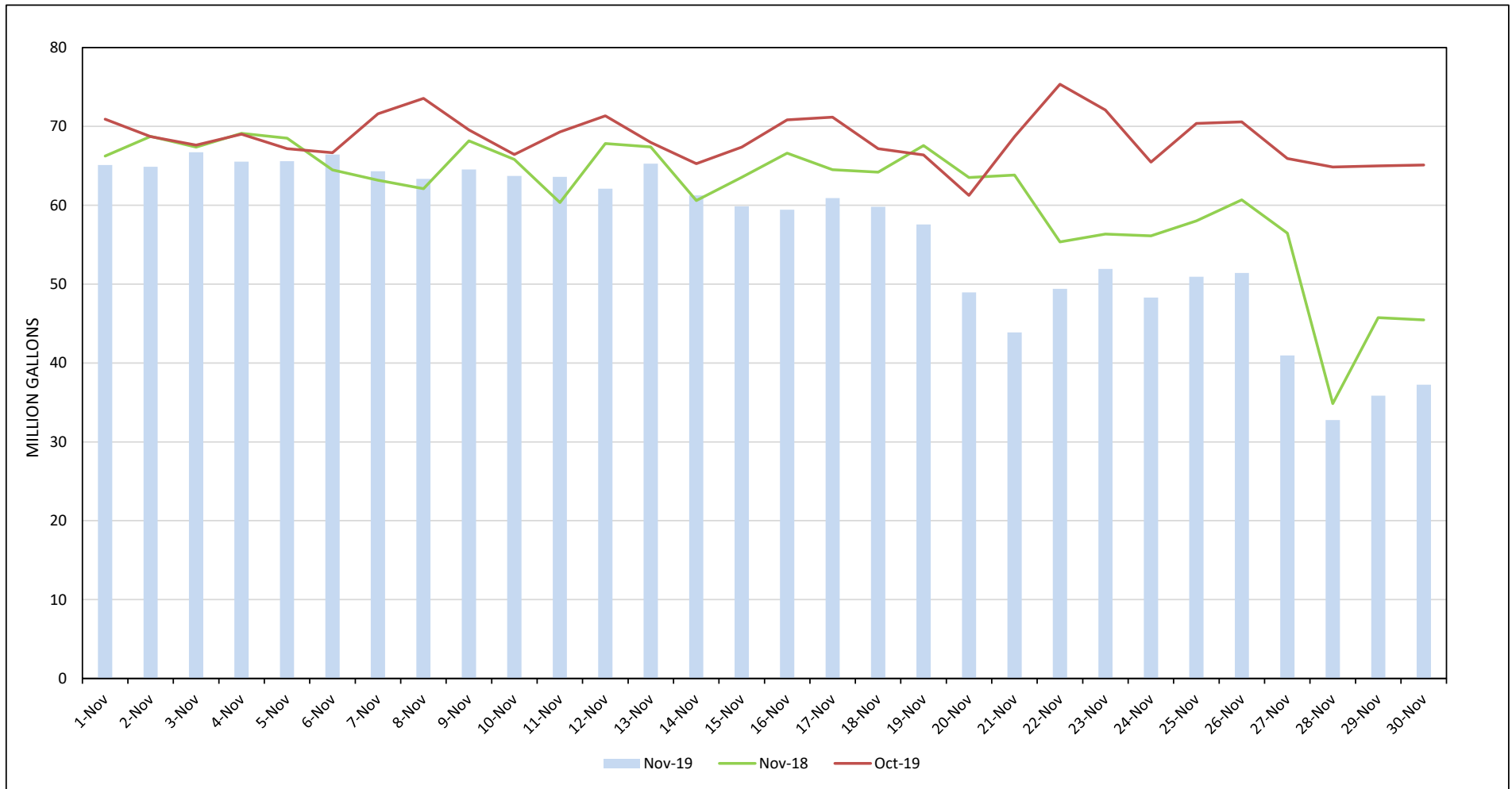
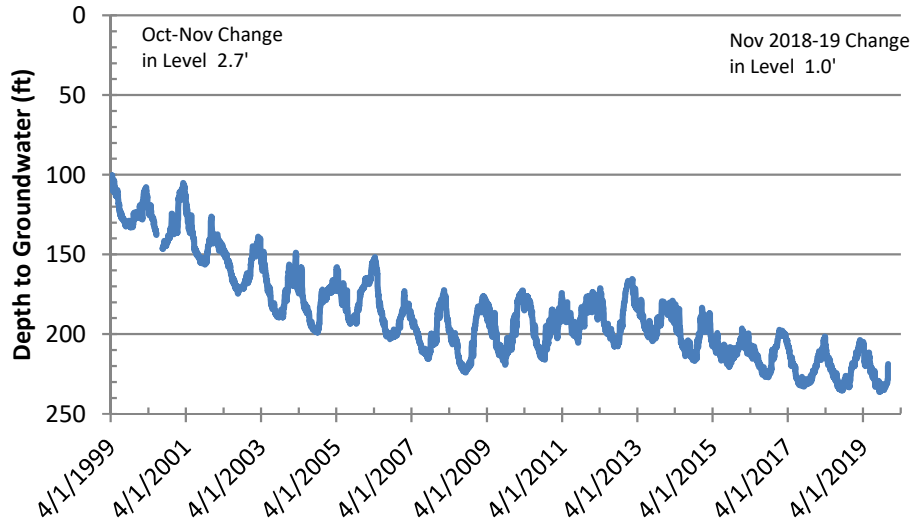


FIGURE 5: RPU WATER - TOTAL GPCD AND R-GPCD ANNUAL ROLLING

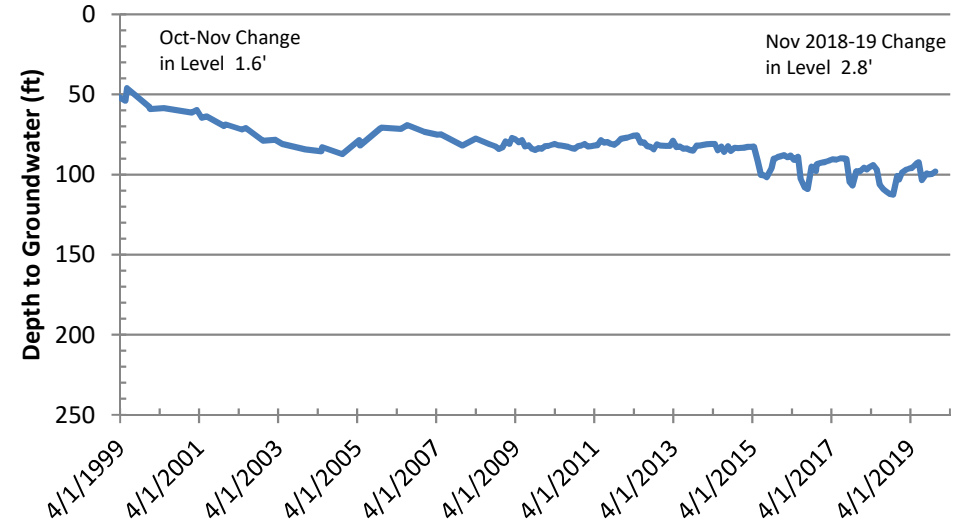


Figure 6: Basin Groundwater Levels

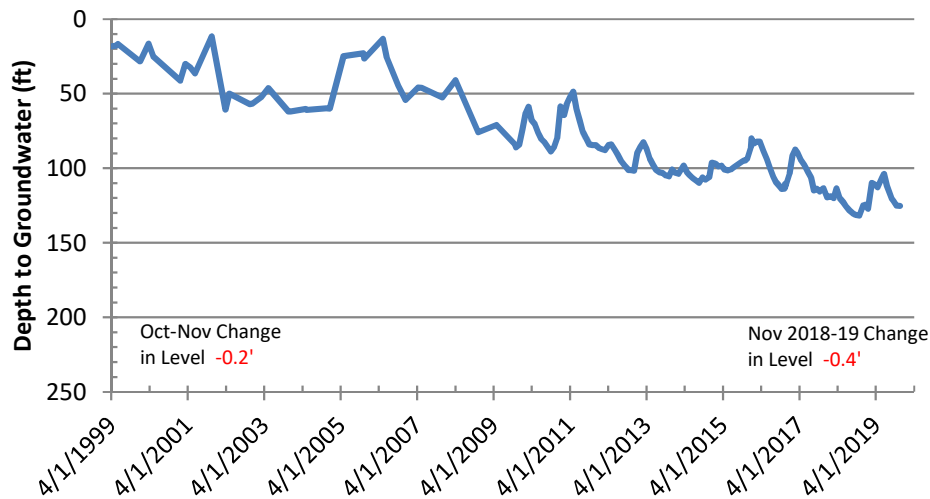
Bunker Hill Basin Sierra High School (USGS)



Rialto-Colton Basin Johnson 1



Riverside North Basin Flume 5



Riverside South Basin Cunningham

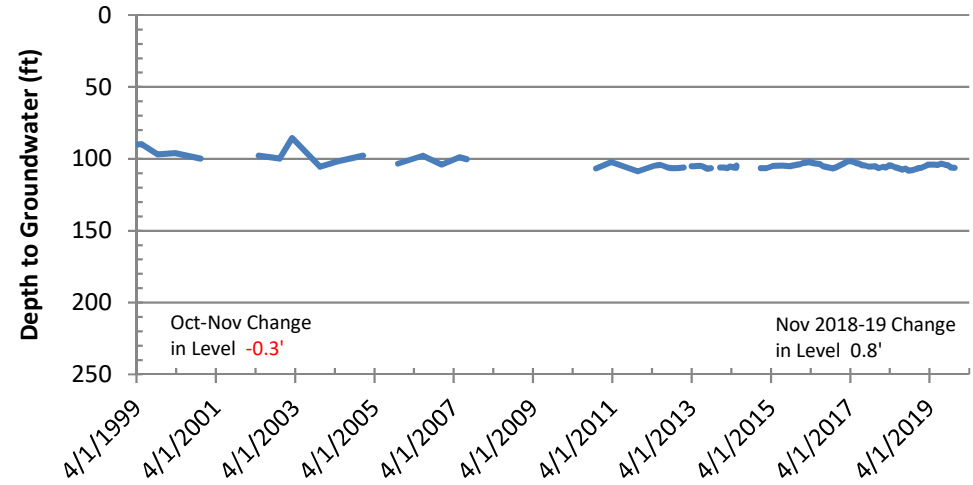


Figure 7: Groundwater Basin Vicinity Map

