2014-2015

Engineering Investigation of the Bunker Hill Basin



Prepared By:



March 2015



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All figures, tables, and appendices are available separately on San Bernardino Valley Water Conservation District's Website: http://www.sbvwcd.org and incorporated by reference.



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Appendix A Water Level Elevations for the Bunker Hill Basin

Appendix B Hydrographs for Key Wells

Appendix C Production Data for the Preceding Water Year

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All figures, tables, and appendices are available separately on San Bernardino Valley Water Conservation District's Website: http://www.sbvwcd.org and incorporated by reference.



1.0 Executive Summary

Article 1, Section 75560 of the California Water Code requires that a Water Conservation District that proposes to levy a groundwater charge "... shall annually cause to be made an engineering investigation and report upon groundwater conditions of the District". In accordance with these requirements, the San Bernardino Valley Water Conservation District (District) must make the following findings and determinations as they relate to the ground and surface water conditions of the Bunker Hill Basin and those areas within the District boundary. Refer to **Figure 1 and 3** for locations.

- **Task 1.** Annual change in storage for the Bunker Hill Basin for the preceding water year (Fall 2013 to Fall 2014);
- **Task 2.** Accumulated change in storage of the Bunker Hill Basin as of the last day of the preceding water year (June 30, 2014);
- **Task 3.** Total groundwater production from the Bunker Hill Basin for the preceding water year (July 1, 2013 June 30, 2014);
- **Task 4.** Estimate of the annual change in the Bunker Hill Basin storage for the current water year (July 1, 2014 June 30, 2015);
- **Task 5.** Estimate of the annual change in the Bunker Hill Basin storage for the ensuing water year (July 1, 2015 June 30, 2016);
- **Task 6.** Average annual change in Bunker Hill Basin storage for the immediate past ten water years (2004 2014);
- Task 7. Estimated amount of agricultural water and other than agricultural water to be withdrawn from the groundwater supplies of the District for the ensuing water year (July 1, 2015 - June 30, 2016);
- Task 8. Estimated amount of water necessary for surface distribution for the ensuing water year for the Bunker Hill Basin and the District (July 1, 2015 June 30, 2016); and



Task 9. The amount of water that is necessary for the replenishment of the groundwater supplies of the Bunker Hill Basin and the District for the ensuing water year (July 1, 2015 - June 30, 2016).

To make the findings and determinations listed above, District staff researched available hydro-geologic and engineering data for the Bunker Hill Basin. These data were compiled and analyzed and a predictive relationship between precipitation, production, and change in basin storage. This relationship was based on empirical data since 1993 and enables the prediction of change in storage, given certain annual production and precipitation levels. In addition, annual and accumulated change in storage values were calculated based on current and historic water level changes throughout the Bunker Hill Basin.

Based on 20 measuring stations, precipitation throughout the contributing watershed was 51% of normal for the period October 1, 2013 to September 31, 2014. The report uses production and water level data from more than 200 wells in the basin.

The required findings for the 2015 Engineering Investigation are provided below. Each of the tasks is further explained in the main body of the report. Throughout this document a positive sign (+) denotes an increase in groundwater storage or groundwater level elevation while a negative sign (-) denotes a decrease in groundwater storage or groundwater level elevation.

Section 75574 of the California Water Code requires that the District Board indicate the amount of water the District is obligated by contract to purchase. The San Bernardino Valley Water Conservation District is not required by contract to purchase any water.



Summary of Findings for the 2015 Engineering Investigation

Task 1. Annual change in storage for the Bunker Hill Basin for the preceding water year (July 1, 2013 to June 30, 2014 groundwater levels)

Change in storage between Fall 2013 and Fall 2014

-85,368 acre-ft (decrease)

The amount of water stored in the Basin decreased by 85,368 acre-ft between 2013 and 2014.

Task 2. Accumulated change in storage of the Bunker Hill Basin as of the last day of the preceding water year (2014)

Accumulated change in storage between July 1993 and June 2014.1

- 529,690 acre-ft (decrease)

The amount in storage in the summer of 2014 is 529,690 acre-ft less than in the summer of 1993.

Task 3. Total groundwater production from the Bunker Hill Basin for the preceding water year (July 1, 2013 - June 30, 2014)

165,799 acre-ft

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¹ In the District's Engineering Investigation (EI) prior to 1993-94, the accumulated change in storage was based on the basin storage in 1984 as considered full. A concern arose regarding high groundwater levels in the Pressure Zone of the Bunker Hill Basin. Therefore, in response to the City of San Bernardino's comments on accumulated change in storage, all EI's since that time are based on 1993 basin storage levels considered as full. The BTAC makes annual recharge recommendations to optimize recharge.



Task 4. Estimate of the annual change in the Bunker Hill Basin storage for the current water year (July 1, 2014 - June 30, 2015)

-94,727 acre-ft (decrease)

The amount of water in the Basin is estimated to decrease by 94,727acreft during the current water year.

Task 5. Estimate of the annual change in the Bunker Hill Basin storage for the ensuing water year (July 1, 2015 - June 30, 2016)

1,351 acre-ft increase (100% average)

88,779 acre-ft decrease (50% average)

91,480 acre-ft increase (150% average)

The amount of water in the Basin is estimated to increase by 1,351 acreft during the ensuing water year presuming average precipitation.

- * The amount of water in the Basin is estimated to decrease by 88,779 acre-ft during the ensuing water year presuming 50% of average precipitation.
- ** The amount of water in the Basin is estimated to increase by 91,480 acre-ft during the ensuing water year presuming 150% of average precipitation.
- **Task 6.** Average annual change in Bunker Hill Basin storage for the immediate past 10 water years (2004-2014) shows a decrease.

-9,141 acre-ft (decrease)



Task 7. Estimated amount of agricultural water and other than agricultural water to be withdrawn from the groundwater supplies of the District for the ensuing water year (July 1, 2015 - June 30, 2016)

Estimated amount of agricultural water withdrawn from the groundwater supplies within the District boundary for the ensuing water year (July 1, 2015 - June 30, 2016)

16,925 acre-ft

Estimated amount of other than agricultural water withdrawn from the groundwater supplies of the District for the ensuing water year (July 1, 2015 - June 30, 2016)

85,358 acre-ft

Task 8. Estimated amount of water necessary for surface distribution for the ensuing water year for the Bunker Hill Basin and the District (July 1, 2015 - June 30, 2016)

Estimated amount of water necessary for surface distribution for the ensuing water year (July 1, 2015 - June 30, 2016) for the Bunker Hill Basin

69,424 acre-ft

Estimated amount of water necessary for surface distribution for the ensuing water year (July 1, 2015 - June 30, 2016) within the District boundary

56,419 acre-ft

Task 9. The amount of water which is necessary for the replenishment of the groundwater supplies of the Bunker Hill Basin and the District for the ensuing water year (July 1, 2015 - June 30, 2016)



The amount of water which is necessary for the replenishment of the groundwater supplies of the Bunker Hill Basin for the ensuing water year (July 1, 2015 - June 30, 2016)

144,158 acre-ft

The amount of water which is necessary for the replenishment of the groundwater supplies within the District boundary for the ensuing water year (July 1, 2015- June 30, 2016)

100,933 acre-ft

In addition to the above findings, Section 75505 of the California Water Code requires that a finding be made as to the amount of water necessary to be replaced in the intake areas of the groundwater basins within the District to prevent the landward movement of salt water into the fresh groundwater body, or to prevent subsidence of the land within the District. Because of its location and the elevations of its water table, the Bunker Hill Basin is not subject to salt-water intrusion and the current groundwater levels do not indicate any significant land subsidence.

Section 75540 of the California Water Code requires that the District Board establish a zone or zones where a groundwater charge is to be implemented. The Code specifically states that a single zone may include the entire District and in May 1993 the Board established the entire District as one zone. This determination may be amended in the future, but lacking any evidence to the contrary, in the 2014-2015 year the entire District will remain as a single zone in regard to any groundwater charge.

Section 75561 of the California Water Code further requires the Engineering Investigation to include a finding related to the amount of water the District is obligated by contract to purchase. At this time the District has no contractual obligation to purchase water for the replenishment of the groundwater supplies. However, instead we recharge local surface water and cooperate with local and regional agencies to recharge the aquifer. The District works with San Bernardino Valley Municipal Water District



(Valley) to spread excess allocation State Project Water in the District's spreading basins. In the past the District has also utilized reserves to offset the cost of water purchases which have spread in its basins. Due to the significant reduction in District reserves it has not purchased water this year.

Based on the results of the 2015 Engineering Investigation, the San Bernardino Valley Water Conservation District finds that:

- Due to the imbalance between groundwater recharge and production since 1993, the Bunker Hill Basin's storage is 529,690 acre-feet below the levee which is considered full for purposes of this investigation. This value is significantly more than 2014 report due to lower local rainfall rates.
- During the ensuing water year (July 1, 2015 June 30, 2016), the Bunker Hill Basin could be recharged, with up to 624,417 acre-feet of water. This recharge quantity would be needed to attain the 1993 storage level that is considered full. The Basin Technical Advisory Committee (BTAC) recommends a maximum of 145,000 acre-ft safely manage and recharge the basin. This amount includes 196,800 acre-ft in Mill Creek and Santa Ana River Basins.
- The District must continue to take all necessary steps to maintain and enhance its capability to conduct recharge operations. These steps may include maintenance and repair of existing, diversion facilities, canals, dikes, basins, roads, and other water recharge facilities. Additionally in December 2011 the District entered into a cooperative agreement with SBVMWD to enhance the recharge of the basin. This project will add significant new recharge facilities in the District's Santa Ana River Recharge Facilities. These facilities will be operated and maintained by the District. These improvements are required to ensure that the groundwater demands on the Basin, especially during drought periods, can be met.
- The District should continue to work cooperatively in the collaborative planning for the Enhanced Recharge Program to plan, design, build and maintain facilities to expand the capabilities for recharge of waters that are developed as a result of water conservation due to the construction of Seven Oaks Dam (SOD).



• The District has begun collaborative construction efforts with Valley to improve the capacities and delivery capabilities of the District's Upper Santa Ana River diverted water conveyance canals and spreading basins. The District should review the single zone of influence/benefit in 2015-2016 and revise if needed.



2.0 Introduction

The 2014-2015 Engineering Investigation (EI) process was very similar to the previous 2013-2014 EI Report. The report uses the same basis of calculation, however updates the document as proposed in the work plan prepared and approved in December 2014. This approach also includes close coordination with other groups particularly San Bernardino Valley Municipal Water District (SBVMWD) who do their own calculations for work similar to the EI Report. We believe this approach makes the best use of the resources of all water entities within the basin. This year's report provides additional research, source documentation, and summary illustration of surface and groundwater activities within the Bunker Hill Basin and specifically within the Water Conservation District's boundaries.

2.1 Purpose and Scope

The San Bernardino Valley Water Conservation District (District) was created by a vote of the people in 1931 for the purpose of managing the recharge activities that were previously conducted by the Water Conservation Association. The Water Conservation Association was incorporated in 1909 and had been diverting flows from the Santa Ana River for groundwater recharge since 1911. Currently the District has ownership, as well as easements and/or use of properties owned by the Bureau of Land Management (BLM), on a total of 3,735 acres within the Santa Ana River and Mill Creek Wash areas. The District boundary covers an area of approximately 50,000 acres, which represents about 60% of the Bunker Hill Basin. **Figure 1** displays the project area map for the Engineering Investigation. The figure shows the District boundary along with its location relative to the County and State boundaries. **Figure 2** shows the District Boundaries relative to the water agencies served by the District.

Article 1, Section 75560 of the California Water Code requires that a Water Conservation District that proposes to levy a groundwater charge "... shall annually cause to be made an engineering investigation and report upon groundwater conditions of the District". In accordance with these requirements, the San Bernardino Valley Water Conservation



District (District) must make the following findings and determinations as they relate to the ground and surface water conditions of the Bunker Hill Basin and those areas within the District boundary. Sub-Basins of the Bunker Hill Basin are shown in **Figure 3.**

- **Task 1.** Annual change in storage for the Bunker Hill Basin for the preceding water year (Fall 2013 to Fall 2014);
- Task 2. Accumulated change in storage of the Bunker Hill Basin as of the last day of the preceding water year (June 30, 2014);
- **Task 3.** Total groundwater production from the Bunker Hill Basin for the preceding water year (July 1, 2013 June 30, 2014);
- **Task 4.** Estimate of the annual change in the Bunker Hill Basin storage for the current water year (July 1, 2014 June 30, 2015);
- **Task 5.** Estimate of the annual change in the Bunker Hill Basin storage for the ensuing water year (July 1, 2015 June 30, 2016);
- **Task 6.** Average annual change in Bunker Hill Basin storage for the immediate past 10 water years (2004-2014);
- Task 7. Estimated amount of agricultural water and other than agricultural water to be withdrawn from the groundwater supplies of the District for the ensuing water year (July 1, 2015 June 30, 2016);
- Task 8. Estimated amount of water necessary for surface distribution for the ensuing water year for the Bunker Hill Basin and the District (July 1, 2015 June 30, 2016); and
- **Task 9.** The amount of water that is necessary for the replenishment of the groundwater supplies of the Bunker Hill Basin and the District for the ensuing water year (July 1, 2015 June 30, 2016).

To make the findings and determinations listed above, District staff researched available hydrogeologic, precipitation, and engineering data for the Bunker Hill Basin and surrounding areas. These data were compiled and analyzed and a predictive relationship between precipitation, production, and change in basin storage was adapted from similar relationships developed by Geoscience Support Services in the preparation



of previous Engineering Investigations. This relationship was based on empirical data enables the prediction of change in storage, given certain annual production and precipitation levels. Precipitation trends and stations are shown in **Figure 4**. In addition, annual and accumulated change in storage was calculated based on historic water level changes throughout the Bunker Hill Basin.

2.2 Location, Topography and Climate

The Bunker Hill Basin is located at the top of the Santa Ana River Watershed and receives all the surface water runoff from the headwaters of the Santa Ana River, Mill Creek, and a portion of that from the Lytle Creek area as well as smaller periodic flows from Plunge, City, Devil Canyon, Cajon and Elder Creeks. It is part of the inland valley called the San Bernardino Valley located in San Bernardino County, California and encompasses approximately 89,600 acres. Once past the Bunker Hill Basin, the Santa Ana River continues to flow southwesterly for approximately 60 miles until it reaches the Pacific Ocean.

The Bunker Hill Basin is bounded on the northwest by the San Gabriel Mountains, on the northeast by the San Bernardino Mountains, on the south by the Crafton Hills and the Badlands, and on the southwest by a low east-facing escarpment produced by the San Jacinto fault. These geologic features are easily identified on **Figure 5** and **Figure 6**.

The major streams providing inflows and outflows for the Bunker Hill Basin are provided on **Figure 1**. The United States Geological Survey (USGS) administers stream flow gauging stations on all of these waterways except Mill Creek. Mill Creek flow is assumed to be 56% of the Santa Ana River flow in this location based on historic data. Total diversions for direct use and recharge on the Santa Ana River may exceed the stream flows due to measurements by different agencies.

The Bunker Hill Basin is also utilized by a large group of City and Water Agencies that are working to collaborate for improved transparency. **Figure 2** presents an overview of the Water Agency Jurisdictions with an overlay of City boundaries.



The climate in the region is a semi-arid Mediterranean-type characterized by long dry summers and relatively short mild winters. The annual average temperature in the valley is 62° F, with extremes ranging from as low as 18° F to as high as 116° F (Burnham and Dutcher, 1960). Precipitation in the region is highly variable depending on location and elevation. Historical annual averages range from 10.9 inches near Loma Linda Fire Department located at the southwest end of the basin to over 40.1 inches at the Lake Arrowhead located at the upper end of the mountain watershed contributing flow to the basin. Precipitation data provided by the Water Resources Division for 20 stations are summarized in **Table 1** and displayed on **Figure 4**.

2.3 Definition of Terms

For the purposes of this report, the following terms are defined:

- Bunker Hill Basin The Bunker Hill Basin is the groundwater basin that underlies the San Bernardino Valley. By strict definition according to (Dutcher and Garrett, 1963), the Bunker Hill Basin is separate from the Lytle Groundwater Basin, but receives groundwater underflow from the Lytle Basin. However, for completeness, the definition of the Bunker Hill Basin is extended to include the Lytle Basin for the purposes of this report.
- <u>Production</u> The term production includes extraction of water by groundwater pumping from wells and surface diversions from the Santa Ana River, Mill Creek, City Creek, Devil Canyon Creek, Cajon Creek, Plunge Creek, and Lytle Creek.
- Preceding Water Year As per the California Water Code, the preceding water year is the period July 1, 2013 through June 30, 2014.
- <u>Current Water Year</u> As per the California Water Code, the current water year is the period July 1, 2014 through June 30, 2015.



 Ensuing Water Year - As per the California Water Code, the ensuing water year is the period July 1, 2015 through June 30, 2016.

2.4 Sources of Data

Data used in the development of this engineering investigation were obtained from a variety of sources including public and private agencies. The data analysis tasks involved tabulating and summarizing information from documented and undocumented reports, public and private files, and personal communication with local, State, and Federal agencies. Some of the more important data sources are listed below.

Data for Fall 2013 and Fall 2014 groundwater elevations and preceding water year (July 2013 to June 2014) production were obtained from the primary water purveyors in the Bunker Hill Basin including:

- City of Colton
- City of Loma Linda
- City of Redlands
- City of Riverside
- City of San Bernardino
- Devore Water Company
- East Valley Water District
- Elsinore Valley Municipal Water District/Meeks and Daley Water Company
- Gage Canal Company
- Riverside Highland Water Company
- Southern California Edison
- San Bernardino Valley Municipal Water District
- West Valley Water District
- United States Geological Survey, Santee, CA Office



Data for Fall 2013 and Fall 2014 groundwater elevations and preceding water year (July 2013 to June 2014) production was not obtained from:

- City of Rialto
- Fontana Water Company

Historic precipitation data were obtained from the San Bernardino County Department of Transportation and Flood Control:

http://www.sbcounty.gov/dpw/floodcontrol/water_resources.asp

Currently precipitation data is downloaded from USGS stations.

 $\underline{http://www.sbcounty.gov/trnsprtn/pwg/Online_Data/Online_Data_Intro.htm}$



3.0 Fall 2013 and Fall 2014 Groundwater Elevation Contours

The District, the Western Municipal Water District, and the primary water purveyors in the Bunker Hill Basin provided Fall 2013 and 2014 water level data. Static groundwater elevations for wells throughout the Bunker Hill Basin are compiled in **Appendix A**. These elevations were plotted for 186 wells using a Geographic Information System (GIS) are plotted in **Figures 5 & 6** for Fall 2013 and Fall 2014. The water elevation values were used to derive an interpolated surface for the extent of the Bunker Hill Basin. For purposes of comparison, Fall 2013 and Fall 2014 static groundwater elevation surface contours are provided in **Figures 5 & 6** respectively.



4.0 <u>Task 1</u> - Annual Change in Storage (Fall 2013 to Fall 2014)

4.1 Hydrologic Sub-areas

Using a Geographic Information System, the average groundwater elevation changes were determined for each of the nine hydrologic sub-areas shown in **Figure 3** and listed below.

- Bunker Hill I Southwest of Interstate 215
- Bunker Hill I Northeast of Interstate 215
- Bunker Hill II West of Mentone Fault
- Bunker Hill II East of Mentone Fault
- Lytle Basin Southeast of Barrier J
- Lytle Basin Northwest of Barrier J
- Pressure Zone North of Santa Ana Wash
- Pressure Zone Santa Ana Wash

Due to variations of changes in groundwater level elevation, the Bunker Hill II - East of Mentone Fault was further subdivided into Storage Units North of Redlands Fault and Southeast of Redlands Fault. These Storage Units are also shown in **Figure 3**.

4.2 Area and Storativity

Digitizing each polygon made estimates of the area extent of the sub-areas and storage. Average storativity for each sub-area was determined based on data from Hardt and Hutchinson, 1980. Both of these values are shown in **Table 3**. Storativity values ranged from 0.02 for the Pressure Zone - North of the Santa Ana Wash to 0.13 for the Lytle Basin - Northwest of Barrier J and Bunker Hill II - East of the Mentone Fault.

4.3 Groundwater Level Elevation Changes

In order to determine the annual change in storage for the Bunker Hill Basin, Fall 2014 groundwater level elevation data were compared with the same from Fall 2013.

Measurements for 181 wells were available for both periods and the differences are provided in **Appendix A**. **Figure 7** shows key wells for the Bunker Hill basins. These wells have long hydrologic histories.



Average changes in groundwater were determined by averaging the changes for all wells in each of the eight sub-areas and storage units as shown in **Table 3**.

4.4 Change in Groundwater Storage

The total annual change in storage for the Bunker Hill Basin was determined by summing the changes from each sub-area. Changes in groundwater storage for the period Fall 2013 to Fall 2014 for the Bunker Hill Basin were calculated using the following formula:

$$Q_{\text{change in storage}} = \sum_i A_i x S_i x \Delta h_i$$

where:

 $Q_{change in storage}$ = Annual change in storage for the Bunker Hill Basin, (acre-feet)

 A_i = Area of sub-area and storage unit i, (acres)

 S_i = Storativity of sub-area and storage unit i

 Δh_i = Average water level change of sub-area and storage unit i, (feet)

As shown in **Table 3**, the change in groundwater storage for the Bunker Hill Basin between Fall 2013 and Fall 2014 decreased a change of -85,368 acre-ft.



5.0 <u>Task 2</u> - Accumulated Change in Storage from Fall 1993 to Fall 2014

For purposes of this report, the accumulated change in storage as of the last day of the preceding water year (July 30, 2014) was based on the changes in water levels between Fall 1993, when the accumulated basin change in storage was considered "zero", and the Fall of 2014.² The accumulated change in storage as of June 30, 2014 was determined by subtracting the change in storage for the preceding water year (July 1, 2013 to June 30, 2014 of -85,368 determined in Section 4.4, from the accumulated change in storage as of June 30, 2012 (-314,377). The result of this calculation is an accumulated change in storage for the Bunker Hill Basin of -529,690 acre-ft.

Table 4 summarizes the accumulated change in storage of the Bunker Hill Basin for the period 1989 to 2014 based on 1993 as the "zero accumulated storage year". As would be expected, storage generally increases with above average rainfall and decreases with normal and below average rainfall.

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² In the District's Engineering Investigation (EI) prior to 1993-94, the accumulated change in storage was based on the basin storage in 1984 as considered full. A concern arose regarding high groundwater levels in the Pressure Zone of the Bunker Hill Basin. Therefore, in response to the City of San Bernardino's comments on accumulated change in storage, all EI's since that time are based on 1993 basin storage levels considered as full. The BTAC makes annual recharge recommendations to optimize recharge.



6.0 <u>Task 3</u> - Total Groundwater Production for the Preceding Water Year (July 1, 2013 to June 30, 2014)

Production data for the preceding water year (July 1, 2013 to June 30, 2014) for the Bunker Hill Basin were obtained from the primary water purveyors as listed in Section 2.4. Production data for wells owned by some smaller water agencies were included if data was available from the Western-San Bernardino Watermaster, Western Municipal Water District and semiannual billing statements issued by the District.

Appendix C shows the production for each groundwater well in the Bunker Hill Basin for the period July 2013 through June 2014. As summarized on the last page of the Appendix, groundwater production from the Bunker Hill Basin for the preceding water year was approximately 165,799 acre-ft. **Table 5** summarizes the Bunker Hill Basin groundwater production for each of the sub-areas defined in Section 4.1.

Groundwater production within the Bunker Hill Basin during the period July 2013 through June 2014 is shown on **Figure 8**. The Pressure Zone has the greatest density of higher producing facilities with pockets of substantial production scattered throughout the rest of the basin.



7.0 <u>Task 4</u> - Estimate of the Annual Change in Storage for the Current Water Year (July 1, 2014 to June 30, 2015)

To estimate annual change in storage for the current water year, a multiple regression analysis was performed for the period between 1991-2013 three parameters.

- Annual Change in Storage
- Precipitation
- Production

This analysis is shown in Figure 9.

In Engineering Investigations (EI) prior to 1998, data for the period 1982 calendar year through 1991 calendar year were also utilized in the regression analysis. The only production data available for this time frame was based on a calendar year period instead of the June to July period required in the EI. Since the 1991-92 period, more accurate and more complete production data for the July to June period has become available, as the District has compiled detailed information for its EI. Since 1998, the regression analysis has not included pre-1991 data to more accurately represent June through July production.

Annual change in storage for the current water year is estimated using the following relationship between change in storage, precipitation, production, and the calculated regression coefficients. The accumulated change in storage is shown in **Figure 10**.

 $Q_{\text{Annual }\Delta \text{ storage}} = -142,365 + 7,948 * Q_{\text{prec}} - 0.171 * Q_{\text{prod}}$

where:

 $Q_{Annual \Delta \text{ storage}} = Annual \text{ change in storage, (acre-feet)}$

 Q_{prec} = Annual Precipitation, inches Q_{prod} = Annual Production, acre-feet



A nomograph, constructed using the above equation, is shown on **Figure 9**. Through the use of this chart or the equation above, annual change in storage can be estimated for a given set of annual precipitation and production values. The precipitation used in the nomograph is based on the average of the representative Bunker Hill Basin drainage area stations listed in **Table 6**. The historic annual precipitation information is show in **Table 1**.

The historic annual average annual precipitation for nine of the ten stations with recent data is shown in **Table 6** approximately 20.1 inches. Historic annual precipitation values are plotted in **Appendix D** for these nine stations and twelve other local stations.

Table 6 shows that for the period between July 1, 2013 and December 31, 2013, precipitation was 63.7 percent of normal for the nine stations with data. Remainder of the water year, January 1 to June 30, 2014, the rainfall averaged 39.2 percent of the long term average. Annually, precipitation for the 2013-2014 water year averaged 46.7 percent. For purposes of this report, it was assumed that precipitation for the current water year (July 1, 2014 to June 30, 2015) would be 10.96 inches, 46.7 percent of the 22.68 inch average for the 2013 to 2014 season. The precipitation for the ensuing water year (July 1, 2015 to June 30, 2016) was estimated, as 100 percent of normal, or 22.68 inches of rainfall.

Based on these assumptions, the estimated production for the current water year will be approximately 215,852 acre-ft as shown in **Figure 10**. Using this result in **Figure 9** an estimated change in storage for the current water year (July 2014 to June 2015) of -94,679 acre-ft was determined.

8.0 <u>Task 5</u> - Estimate of the Annual Change in Storage for the Ensuing Water Year (July 1, 2015 to June 30, 2016)

The annual change in storage for the ensuing water year (July 1, 2015 to June 30, 2016) was estimated using the same method as described in Section 7.0. It was assumed that precipitation for the ensuing water year would be 100% of normal or 22.68 inches.



Based on this assumption, the estimated production for the ensuing water year will be approximately 214,933 acre-ft as shown in **Figure 11**. Again, using this result in the nomograph shown in **Figure 9**, the estimated annual change in storage for the ensuing water year (July 1, 2015 to June 30, 2016) is 1,351 acre-ft.

If it is assumed that precipitation for the ensuing water year would be 50% of normal or 11.34 inches, the estimated production for the ensuing water year will be approximately 215,542 acre-ft. This is an approximation of the historical low-precipitation year.

If it is assumed that precipitation for the ensuing water year would be 150% of normal or 34.02 inches, the estimated production for the ensuing water year will be approximately 214,325 acre-ft. This is an approximation of the historical high-precipitation year.

9.0 <u>Task 6</u> - Average Annual Change in Storage for the Immediate Past 10 Water Years

Table 7 shows the average annual change in storage for the immediate past ten water years (July 2004 to June 2014) using the same method as described in Section 4.0. By summing the average annual change in storage for each sub-area, a total average annual change in storage for the Bunker Hill Basin for the immediate past ten water years was determined to be -9,141 acre-feet/year.

10.0 <u>Task 7</u> - Estimated Amount of Agricultural Water and Other Than Agricultural Water to be Withdrawn for the Ensuing Water Year (July 1, 2014 to June 30, 2015)

The estimated amount of agricultural water and other than agricultural water to be withdrawn within the District for the ensuing water year (July 1, 2015 to June 30, 2016) was based on the following equations:



$$Q_{agr(12-13)} = Q_{agr(12-13)} \times \left[\left(Q_{total(14-15)} - Q_{surf(14-15)} \right) / \left(Q_{total(12-13)} - Q_{surf(12-13)} \right) \right]$$
 and
$$Q_{non-agr(12-13)} = Q_{non-agr(12-13)} \times \left[\left(Q_{total(14-15)} - Q_{surf(14-15)} \right) / \left(Q_{total(12-13)} - Q_{surf(12-13)} \right) \right]$$
 where:
$$Q_{agr(14-15)} = Agricultural \ use \ within \ the \ District \ for \ the \ ensuing \ water \ year, \ acre-ft}$$

$$Q_{agr(12-13)} = Agricultural \ use \ within \ the \ District \ for \ the \ preceding \ water \ year, \ acre-ft \ (Appendix \ C)$$

$$Q_{total(14-15)} = Production \ (including \ surface \ diversion) \ from \ the \ Bunker \ Hill \ Basin \ for \ the \ ensuing \ water \ year, \ acre-ft \ (Appendix \ C)$$

$$Q_{non-agr(14-15)} = Production \ (including \ surface \ diversion) \ from \ the \ Bunker \ Hill \ Basin \ for \ the \ ensuing \ water \ year, \ acre-ft \ (Appendix \ C)$$

$$Q_{non-agr(14-15)} = All \ other \ uses \ within \ the \ District \ for \ the \ ensuing \ water \ year, \ acre-ft \ (Appendix \ C)$$

$$Q_{surf(14-15)} = All \ other \ uses \ within \ the \ District \ for \ the \ preceding \ water \ year, \ acre-ft \ (Appendix \ C)$$

$$Q_{surf(14-15)} = Surface \ diversions \ from \ the \ Bunker \ Hill \ Basin \ for \ the \ ensuing \ water \ year, \ acre-ft \ (Table \ 8)$$

$$Q_{surf(12-13)} = Surface \ diversions \ from \ the \ Bunker \ Hill \ Basin \ for \ the \ preceding$$

Data on agricultural use and other uses within the District for the preceding water year (July 1, 2013 to June 30, 2014) are provided in **Appendix C**. For the period July 1, 2013 through June 30, 2014 approximately 16,925 acre-ft of groundwater was produced for agricultural applications within the District boundary. For the same period, approximately 85,358 acre-ft of groundwater was produced for all other uses within the District boundary. Using the equations presented above with the following values inserted:

water year, acre-ft (Appendix C)



 $Q_{agr(13-14)}$ = 15,014 acre-ft (Appendix C)

 $Q_{total(14-15)}$ = 284,358 acre-ft (Figure 13)

 $Q_{\text{total}(13-14)}$ = 193,087 acre-ft (Appendix C)

 $Q_{\text{non-agr}(13-14)}$ = 75,719 acre-ft (Appendix C)

 $Q_{surf(14-15)} = 69,424 \text{ acre-ft (Task 8)}$

 $Q_{surf(13-14)}$ =2,426 acre-ft (Table 8)

The estimated production within the District for the ensuing water year for agricultural uses and other than agricultural uses is:

 $Q_{\text{total}(14-15)}$ = 18,864 + 87,309 = 102,283 acre-ft

 $Q_{agr(14-15)}$ = 15,014 x [(284,358 - 64,424) / (193,087 - 2,426)]

= 18,864 acre-ft

 $Q_{\text{non-agr}(14-15)} = 75,719 \times [(284,358 - 64,424) / (193,087 - 2,426)]$

= 87,309 acre-ft

 $Q_{agr(14-15)} = 16,925 \text{ acre-ft}$

 $Q_{\text{non-agr}(14-15)} = 85,358 \text{ acre-ft}$

 $Q_{Dist(14-15)}$ = 102,283 acre-ft

By summing these two results, it is estimated that 88,166 acre-feet of groundwater will be withdrawn within the District for the ensuing water year (July 1, 2014 to June 30, 2015). **Appendix C** shows the Agriculture and Non-Agriculture trends for the District by sub-basin using approximately 207 wells within the District Boundary reporting type of use.



11.0 <u>Task 8</u> - Estimated Amount of Water for Surface Distribution for the Ensuing Water Year (July 1, 2015 to June 30, 2016)

The amount of water for surface distribution for the ensuing water year (July 1, 2015 to June 30, 2016) was estimated based on the average surface diversions for the Santa Ana River, Mill Creek, and Lytle Creek for the period 1986 to 2014.

As shown in **Table 8**, average surface diversions for the Santa Ana River, Mill Creek, Lytle Creek and smaller tributary creeks collectively called "Bunker Hill Creeks," between 1986 and 2014 were 40,259; 1,195; 21,315; and 11,950 acre-feet, respectively. Therefore, the total estimated amount of water for surface distribution from the Bunker Hill Basin for the ensuing water year (July 1, 2015 to June 30, 2016) is found by summing the diversions as follows:

Bunker Hill Surface Distribution = 11,827 + 19,441 + 1,178 + 36,978 = 69,424 acre-ft

As Lytle Creek and Bunker Hill Creeks are not within the District, the estimated amount of surface distribution from the District for the ensuing water year (July 1, 2015 to June 30, 2016) is the sum of the Santa Ana River and Mill Creek distributions.

District Surface Distribution = 36,977 + 19,441 = 56,419 acre-ft

12.0 <u>Task 9</u> - Estimated Amount of Water for Replenishment of the Groundwater Supplies for the Ensuing Water Year (July 1, 2015 to June 30, 2016)

The amount of water necessary for replenishment of the groundwater supplies of the Bunker Hill Basin for the ensuing water year (July 1, 2015 to June 30, 2016) was estimated based on:

Replenishment = Total Production - Surface Diversions - Change in Storage



The estimated production and surface diversions from the Bunker Hill Basin for the ensuing water year (July 1, 2015 to June 30, 2016) were estimated at approximately 215,200 acre-feet (from **Figure 13**) and 71,861 acre-feet (from **Table 8**), respectively. The estimated change in storage determined in Section 8.0 and shown on **Figure 9** is an increase of 2,253 acre-feet. Therefore, the amount of water necessary for replenishment of the groundwater supplies of the Bunker Hill Basin is estimated as follows:

The amount of water necessary for replenishment of the District's groundwater supplies for the ensuing water year (July 1, 2015 to June 30, 2016) was estimated using the same equation as shown above and substituting values for the District area. The estimated production within the District for the ensuing water year was estimated at approximately 106,964 acre-ft (from Section 10.0) and 56,419 acre-ft (from Section 11.0), respectively. The change in storage for the ensuing water year for the District was estimated as an increase of 2,253 acre-ft. Therefore, the amount of water necessary for replenishment of the District's groundwater supplies for the ensuing water year (July 1, 2015 to June 30, 2016) is:

Replenishment = Total Production - Surface Diversions - Change in Storage Replenishment = (214,933) - 102,283 - 1,351 = 100,933 acre-ft

13.0 Quality Assurance and Quality Control

Quality Assurance and Quality Control (QA/QC) efforts for the Engineering Investigation Report are distributed. Virtually all information is provided by other programs and agencies that have their own QA/QC processes and this report relies on them for providing accurate data. Additionally, most of the data is used in other reports and would be flagged if in error; examples include Watermaster reports, other basin models, etc. This section will briefly discuss the QA/QC process and standards.



Process and Method: The EI process produces results that are obtained by inputting the data we receive from the cooperating agencies into a series of linked spreadsheets in an MS Excel workbook. Many different calculations are then performed on the data entered. The results from these calculations are reported in the EI. Like all reports, the EI can contain error. SBVWCD makes a great effort to identify and eliminate the sources of possible errors.

The EI has established standards for precision and representativeness in the development of the report since the process initiation in 1993. The report uses a set of key wells, which can change over time to represent the groundwater basins. If changes to the wells are made, they are reviewed to see they are consistent with prior years. The level of precision in the data supplied varies, because the District must rely on the data quality produced by others for their work. We do not have specific requirements for precision of well level or production data, because other programs use the data and because the report averages the levels over entire groundwater basins; the precision of the other programs is adequate for our change in storage calculations.

In order for accurate conclusions to be drawn from the EI, the following must happen:

- 1) High quality data must be input into the Daily Flow Report (DFR) by field staff
- DFR and data from other agencies must be accurately transferred to EI spreadsheets;
- 3) Correct calculations must be made using this data

Data Accuracy: The EI uses a large amount of production, water level, and flow measurements in calculating the change in storage and related tasks. The data received for the study is reviewed for completeness so that all wells and flows are reported. SBVWCD verifies that DFR data is accurate by cross checking with other data and verifying the data is in the historical range. The District implements several methods to maintain the accuracy of the Engineering Investigation Report. These methods are discussed in the following sections.

The input data for the EI comes from many agencies, in many different formats, over a range of several months. The data is checked when entered to ensure that the correct



data is being provided in the correct units. To ensure this check occurs, all data entered into the EI spreadsheets is highlighted. Once all data entry has occurred, a second staff person checks the highlighted input data to make sure it is the correct value and in the correct units.

Generally, data is transferred (copied and pasted) into the EI spreadsheets rather than retyped to reduce entry errors. When data is provided in a format that cannot be transferred, hand entered data is double checked upon entry. Once all the data has been entered, it is checked again to make sure there is not any data out of historical range. Any data that is out of range is rechecked at the source, and if necessary confirmed by the providing agency.

A final check of the data is done by the reporting agencies. SBVWCD sends out a draft EI to all data providers. Any error reported by the data providers is addressed and corrected before the Final EI is approved.

Calculation Accuracy: To ensure the calculations used to obtain the results for the EI are correct, the District uses a copy of the prior year spreadsheets for the ensuing year. The spreadsheets are directly recreated from the copies, only the data is stripped out of the spreadsheet so that all cell references are maintained. This maintains the consistency of the calculations. As an additional check, the cell references and formulas are reconfirmed each year. In addition to rechecking of the structure of the spreadsheets, the methodology and logic is also rechecked in this process.

Comparability: After all the data and calculations are checked, the final results are obtained. The District compares the results from the EI to SBVMWD's groundwater modeling program change in storage calculation. The programs cover nearly the same area with very similar input data. However, the basin boundaries and methods of calculations are different. If District results and SBVMWD's results are significantly different, more than 10%, the District and SBVMWD both review data and calculations, identify any errors, and verify the new EI results are comparable and accurate.



Approval: Once the results are confirmed through the previous steps, the District Management reviews the report and recommends it to the SBVWCD's Board of Director for reviews and approval.

14.0 General Findings

In addition to the above findings, Section 75505 of the California Water Code requires that a finding be made as to the amount of water necessary to be replaced in the intake areas of the groundwater basins within the District to prevent the landward movement of salt water into the fresh groundwater body, or to prevent subsidence of the land within the District. Because of its location and the elevations of its water table, the Bunker Hill Basin is not subject to salt-water intrusion and the current groundwater levels will not (lowest=593 msl) result in any significant land subsidence.

Section 75540 of the California Water Code requires that the District Board establish a zone or zones where a groundwater charge is to be implemented. The Code specifically states that a single zone may include the entire District and in May 1993 the Board established the entire District as one zone. This determination may be amended in the future, but lacking any evidence to the contrary, in the 2014-2015 year the entire District will remain as a single zone in regard to any groundwater charge.

Section 75561 of the California Water Code further requires the Engineering Investigation to include a finding related to the amount of water the District is obligated by contract to purchase. At this time the District has no contractual obligation to purchase water for the replenishment of the groundwater supplies.

15.0 Conclusions

Based on the results of the 2014 Engineering Investigation, the San Bernardino Valley Water Conservation District finds that:

 Due to the imbalance between recharge and production since 1993, the Bunker Hill Basin's storage is 530,346 acre-feet below that which is considered full for purposes of this Investigation.



- During the ensuing water year (July 1, 2015 to June 30, 2016), the Bunker Hill Basin can be recharged, from all sources, with 650,694 acre-feet of water. This recharge quantity is derived by algebraically adding together the accumulated deficit as of the end of the preceding water year with the estimated quantity needed to maintain the 1993 storage level considered full. The BTAC recommends a maximum basin recharge of 190,000 acre-ft.
- The District should continue to take the necessary steps to work with its partners to enhance its capability to conduct recharge operations, which includes construction of new, or maintenance and repair of existing, diversion facilities, canals, dikes, basins, roads, and other water recharge facilities. These improvements are required to ensure that the increasing demands on the Basin, especially during drought periods, can be met.

16.0 Financial Data

The San Bernardino Valley Water Conservation District, in response to questions previously provided information about the groundwater charge in this section. The District provides a complete budget and report of operations as a companion document to this report.

Any changes to the groundwater charge will not be reflected on the District's financial reports as income until the fiscal year 2015 – 2016, as the first increment of the new charge is not due until that time.



Engineering Investigation of the Bunker Hill Basin 2013-2014

Figures



Figure 1. Project Area. Figure in Development.

Figure 2. Conservation and Water Agency Boundaries. Figure in Development.

Figure 3. Bunker Hill Subbasins. Figure in Development.

Figure 4. Precipitation Trends and Station Locations October 2013 – September 2014. Figure in Development.

Figure 5. Water Elevation Contour Surface Fall 2013. Figure in Development.

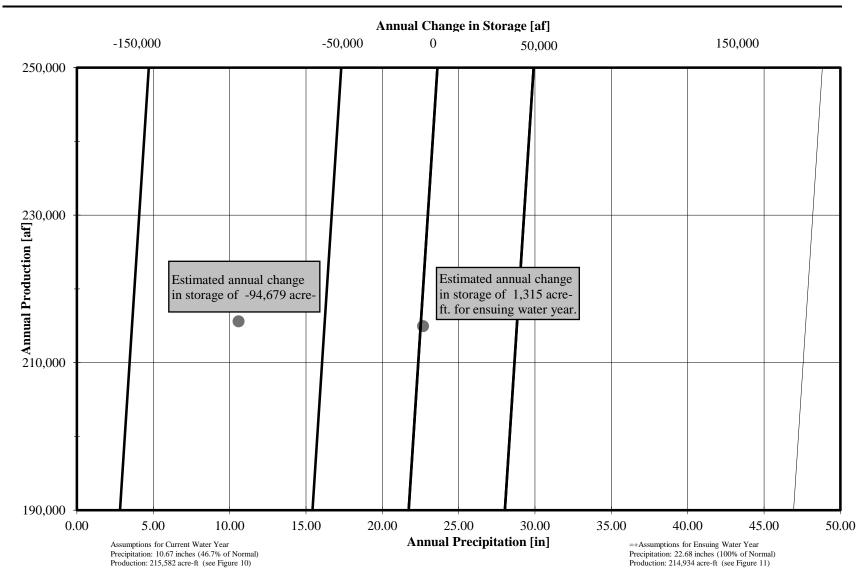
Figure 6. Water Elevation Contour Surface Fall 2014. Figure in Development.

Figure 7. Key Wells (Appendix B Hydrographs). Figure in Development.

Figure 8. Groundwater Production – Bunker Hill Basin Subbasins. Total Well Production for July 2013 – June 2014 (Water Year). Figure in Development.



Prediction Chart for Annual Change in Storage (Figure 9)

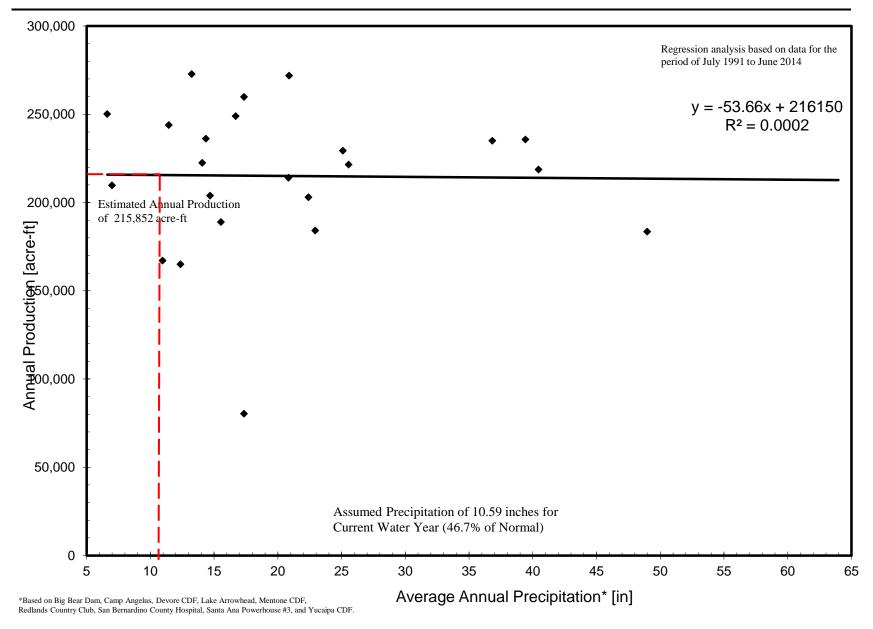


^{*} Based on Big Bear Dam, Camp Angelus, Devore CDF, Lake Arrowhead, Mentone CDF, Redlands Country Club, San Bernardino County Hospital, Santa Ana Powerhouse #3, and Yucaipa CDF.

Change in Storage = -125,073+7,935 * Precipitation - 0.249 * Production (R² = 0.80)

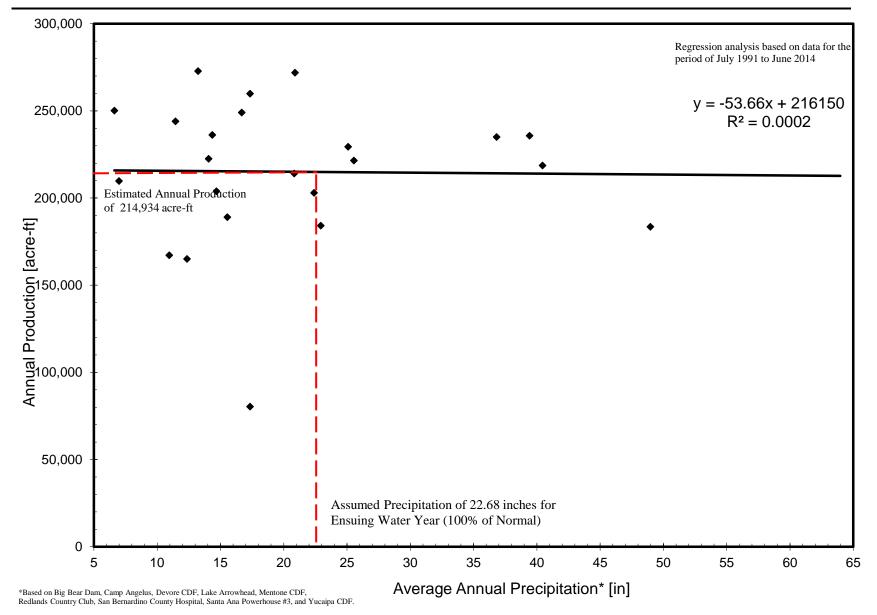


Estimate of Production for Current Water Year (Figure 10)





Estimate of Production for Ensuing Water Year (Figure 11)





Engineering Investigation of the Bunker Hill Basin 2013-2014

Tables



Summary of Percentage of Normal Precipitation

| Station | Historic Annual Avg. [in] | 1986 -1987 [in] | 1987 -1988 [in] | 1988 -1989 [in] | 1989 -1990 [in] | 1990 -1991 [in] | 1991 -1992 [in] | 1992 -1993 [in] | 1993 -1994 [in] | 1994 -1995 [in] | 1995 -1996 [in] | 1996 -1997 [in] | 1997 -1998 [in] | 1998 -1999 [in] | 1999 -2000 [in] | 2000 -2001 [in] | 2001 -2002 [in] | 2002 -2003 [in] | 2003 -2004 [in] | 2004 -2005 [in] | 2005 -2006 [in] | 2006 -2007 [in] | 2007 - 2008 [in] | 2008 - 2009 [in] | 2009 - 2010 [in] | 2010 - 2011 [in] | 2011 - 2012 [in] | 2012 - 2013 [in] | | Each Station 28- Yr. Avg. [in.] |
|--|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|------------------------|------------------------|---------------------|-------|--|
| Big Bear City | 13.75 | 10.18 | 10.59 | 9.37 | 10.23 | 17.81 | 13.96 | 22.92 | 11.53 | 18.59 | 11.17 | 12.06 | 16.83 | 6.53 | 4.75 | 20.14 | 3.33 | 12.62 | 7.55 | 23.25 | 14.36 | 3.67 | 8.53 | 3.51 | 16.24 | 24.55 | 16.27 | 10.46 | 9.2 | 12.51 |
| Big Bear Dam | 35.53 | 19.17 | 28.89 | 20.84 | 17.60 | 34.79 | 38.90 | 81.92 | 28.67 | 52.65 | 24.40 | 29.97 | 51.70 | 14.20 | 20.60 | 21.40 | 9.20 | 38.10 | 19.60 | 59.10 | 26.40 | 10.30 | 23.00 | 19.70 | 26.00 | 20.24 | 11.83 | 18.73 | 13.34 | 27.90 |
| Camp Angelus | 28.41 | 20.50 | 4.95 | 17.20 | 17.90 | 26.44 | 28.16 | 61.14 | 17.20 | 46.70 | 26.00 | 29.00 | 49.52 | 16.10 | 21.10 | 21.50 | 7.70 | 35.40 | 13.20 | 35.20 | 41.90 | 0.00 | 2.70 | 18.00 | 18.80 | 1.60 | 17.49 | 13.89 | 9.93 | 22.12 |
| Crafton Hills | 12.47 | 9.00 | 12.11 | 10.00 | 6.30 | 12.27 | 10.69 | 22.99 | 5.45 | 27.10 | 7.84 | 16.67 | 25.55 | 7.29 | 6.40 | 10.49 | 2.46 | 17.57 | 9.47 | 31.39 | 11.45 | 3.34 | 13.34 | 8.82 | 17.80 | 24.52 | 9.57 | 9.16 | 6.55 | 12.70 |
| Del Rosa Ranger Station | 18.20 | 9.48 | 18.92 | 13.16 | 12.85 | 8.79 | 24.24 | 41.39 | 12.30 | 27.69 | 14.21 | 17.31 | 37.26 | 8.30 | 12.73 | 16.60 | 6.09 | 19.69 | 13.02 | 38.55 | 17.40 | 8.77 | 17.77 | 13.57 | 22.01 | 30.84 | 13.57 | 2.22 | 4.54 | 17.26 |
| Devore CDF | 27.34 | 12.39 | 17.90 | 10.75 | 15.00 | 20.41 | 31.32 | 63.98 | 15.40 | 45.44 | 20.58 | 33.10 | 45.13 | 13.61 | 8.04 | 15.52 | 10.90 | 35.35 | 16.44 | 60.36 | 24.80 | 8.86 | 25.21 | 16.51 | 34.12 | 43.20 | 17.47 | 14.04 | 13.81 | 24.63 |
| Fallsvale | 31.67 | 23.00 | 20.30 | 3.50 | 51.00 | 22.50 | 36.00 | 71.90 | 52.00 | 54.90 | 22.10 | 33.80 | 53.00 | 16.30 | 21.20 | 15.30 | 6.50 | 37.50 | 25.20 | 61.40 | 26.90 | 11.10 | 29.30 | 24.70 | 2.85 | 29.52 | 22.9 | 14.1 | 26.3 | 29.11 |
| Lake Arrowhead | 40.09 | 23.74 | 40.39 | 28.51 | 26.62 | 23.68 | 45.24 | 85.00 | 28.20 | 74.51 | 30.84 | 36.50 | 72.80 | 18.10 | 25.80 | 28.60 | 10.70 | 36.50 | 22.70 | 69.70 | 46.20 | 18.50 | 41.91 | 30.28 | 26.00 | 37.76 | 25.1 | 32.6 | 26.7 | 36.19 |
| Loma Linda FD | 10.92 | 7.41 | 10.45 | 8.84 | 7.69 | 7.16 | 13.44 | 25.56 | 10.99 | 19.02 | 7.15 | 9.78 | 22.74 | 5.12 | 7.74 | 6.38 | 2.45 | 14.48 | 8.06 | 22.59 | 11.06 | 3.51 | 9.63 | 8.95 | 13.10 | 18.24 | 6.79 | 7.32 | 9.06 | 10.88 |
| Lytle Creek at Foothill | 13.40 | 7.00 | 12.96 | 3.90 | 8.50 | 15.51 | 14.91 | 31.61 | 9.16 | 25.51 | 12.23 | 13.83 | 25.84 | 6.25 | 9.81 | 12.12 | 4.00 | 13.60 | 7.16 | 27.23 | 11.22 | 3.84 | 11.89 | 9.03 | 13.03 | 0.23 | 6.9 | 4.51 | 8.34 | 11.79 |
| Lytle Creek Fire Station | 23.56 | 11.20 | 22.40 | 12.83 | 17.90 | 32.07 | 49.09 | 87.71 | 20.50 | 47.57 | 24.49 | 23.10 | 52.18 | 11.81 | 20.40 | 18.34 | 4.47 | 16.96 | 12.09 | 44.11 | 18.92 | 4.22 | 21.89 | 3.32 | 0.00 | 28.46 | 8.18 | 7.32 | 8.03 | 22.48 |
| Mentone CDF | 12.54 | 9.23 | 8.85 | 8.64 | 6.13 | 12.55 | 15.93 | 23.85 | 8.35 | 17.10 | 9.42 | 15.73 | 27.09 | 4.28 | 9.08 | 10.16 | 4.06 | 15.00 | 10.38 | 24.94 | 11.01 | 5.41 | 10.75 | 9.38 | 14.96 | 17.77 | 7.9 | 7.33 | 3.11 | 11.73 |
| Oak Glen | 26.80 | 19.29 | 21.46 | 17.82 | 17.71 | 26.92 | 30.78 | 57.96 | 18.76 | 57.92 | 20.04 | 30.39 | 49.46 | 11.32 | 17.12 | 12.28 | 6.72 | 14.28 | 18.39 | 34.14 | 22.58 | 9.71 | 27.60 | 19.92 | 29.72 | 36.82 | 15.13 | 15.65 | 14.07 | 24.07 |
| Redlands - Roth | 12.13 | 7.79 | 11.18 | 8.08 | 7.21 | 13.34 | 14.96 | 25.57 | 10.06 | 20.49 | 8.08 | 10.77 | 22.29 | 6.46 | 7.41 | 10.38 | 3.35 | 12.18 | 9.16 | 24.43 | 9.52 | 3.31 | 9.46 | 8.82 | 15.12 | 17.38 | 4.34 | 1.54 | 2.08 | 10.88 |
| Redlands Country Club | 13.71 | 8.80 | 14.18 | 10.68 | 8.58 | 14.48 | 16.11 | 29.44 | 12.55 | 19.76 | 8.52 | 9.03 | 17.22 | 6.30 | 5.68 | 9.96 | 3.97 | 16.45 | 11.58 | 29.37 | 10.30 | 4.13 | 11.93 | 11.35 | 17.25 | 22.33 | 7.74 | 8.71 | 6.92 | 12.62 |
| San Bernardino CDF | 17.34 | 9.27 | 18.26 | 12.85 | 10.55 | 15.49 | 21.89 | 37.35 | 4.46 | 20.29 | 15.77 | 16.17 | 34.32 | 9.30 | 13.62 | 16.61 | 5.29 | 13.14 | 11.52 | 37.28 | 16.39 | 6.33 | 18.91 | 9.85 | 20.45 | 27.94 | 10.63 | 7.69 | 11.3 | 16.18 |
| San Bernardino Co. Hospital | 15.88 | 8.08 | 13.53 | 12.63 | 8.12 | 15.48 | 16.54 | 30.78 | 11.65 | 24.10 | 11.92 | 17.80 | 32.67 | 8.02 | 11.09 | 2.33 | 3.60 | 17.06 | 10.49 | 29.89 | 13.20 | 4.68 | 12.81 | 10.05 | 17.03 | 21.76 | 9.58 | 9.31 | 10.97 | 14.11 |
| Santa Ana Pumphous e #3 | 16.94 | 12.28 | 14.67 | 9.38 | 10.32 | 15.84 | 18.38 | 22.98 | 15.92 | 24.85 | 11.05 | 16.60 | 27.95 | 7.01 | 6.78 | 8.63 | 3.23 | 18.24 | 9.40 | 27.65 | 11.78 | 6.13 | 10.73 | 9.73 | 14.58 | 20.18 | 8.62 | 9.05 | 7.42 | 13.55 |
| Yucaipa CDF | 15.82 | 11.02 | 11.33 | 9.74 | 7.25 | 11.16 | 17.85 | 34.20 | 11.40 | 30.24 | 10.52 | 15.62 | 24.70 | 7.63 | 11.10 | 9.92 | 5.66 | 19.47 | 11.84 | 32.70 | 13.14 | 6.56 | 14.67 | 12.11 | 18.79 | 25.09 | 11.8 | 11.1 | 6.87 | 14.77 |
| Yucaipa Valley Water District | 15.85 | 10.55 | 14.36 | 10.55 | 10.84 | 16.98 | 18.68 | 18.08 | 12.51 | 25.20 | 10.88 | 16.93 | 28.60 | 9.87 | 9.63 | 9.65 | 5.27 | 19.50 | 11.10 | 32.73 | 12.52 | 5.53 | 14.79 | 12.11 | 17.68 | 22.74 | 10.8 | 9.37 | 7.58 | 14.47 |
| Percent of Normal | 100% | 62% | 81% | 59% | 69% | 90% | 119% | 218% | 79% | 169% | 76% | 100% | 178% | 48% | 62% | 69% | 27% | 105% | 64% | 185% | 92% | 32% | 84% | 65% | 88% | 117% | 60% | 53% | 51% | 89% |

Total
Station 20.12
Average



Change in Groundwater Levels in Key Wells

| | | | | 2013 | 2014 | | | |
|-----------------------|----------------------|---------------------|-------------------------------|---------------------------|---------------------------|---|--|--|
| Recordation Number | State Well Number | Well Name | Owner Or Measuring Agency | Depth To Water (ft) | Depth To Water (ft) | Difference Fall 2013 to Fall 2014 | | |
| 3601675 | 1N4W25A01S | 27 | East Valley Water District | 191.6 | | | | |
| 3602113 | 1N3W30N01S | 41 | East Valley Water District | 290 | 290.2 | -0.2 | | |
| 3601308 | 1S2W19K01S | Agate #1 | Redlands, City of | 102 | 148 | -46 | | |
| 3601287 | 1S2W21B02S | E. Lugonia #3 | Redlands, City of | 26 | 31 | -5 | | |
| 3601290 | 1S2W21D01S | E. Lugonia #6 | Redlands, City of | 42 | 36 | 6 | | |
| 3602065 | 1S3W32J02S | Lee Well | Redlands, City of | 209 | 206 | 3 | | |
| 3601281 | 1S2W36F01S | Maguet #1 | Redlands, City of | 21 | 23 | -2 | | |
| 3601284 | 1S2W21E01S | Maguet #2 | Redlands, City of | 42 | 57 | -15 | | |
| 3601586 | 1S3W15F01S | Orange Street | Redlands, City of | 118 | 139 | -21 | | |
| 3600918 | 2S3W01E01S | Redlands Heights | Redlands, City of | 167 | 169 | -2 | | |
| 3601294 | 1S3W35G09S | Well #13 | Redlands, City of | 56 | 60 | -4 | | |
| 3601296 | 1S3W35H03S | Well #16 | Redlands, City of | 38 | 42 | -4 | | |
| 3601298 | 1S3W21H01S | Well #32 | Redlands, City of | 172 | 188 | -16 | | |
| 3601299 | 1S4W24K01S | Well #34 | Redlands, City of | 180 | 193 | -13 | | |
| 3602032 | 1S3W22A02S | Well #35 | Redlands, City of | 196 | 216 | -20 | | |
| 3601263 | 1N5W23Q01S | City 1 | Rialto, City of | 206 | 225 | -19 | | |
| 3601225 | 01S/04W-02P002S | Cooley D | Riverside, City of | 137.98 | 176 | -38.02 | | |
| 3601218 | 1S4W14P02S | Raub 1 | Riverside, City of | 128.41 | 164.8 | -36.39 | | |
| 3601234 | 1S4W27A19S | Stewart 19 | Riverside, City of | 121.16 | | | | |
| 3601431 | 1S4W27H01S | Stewart 20 | Riverside, City of | 115.36 | 150 | -34.64 | | |
| 3600787 | 1S4W23A02S | 26-1 | Riverside, City Of-Gage Canal | 167 | 181 | -14 | | |
| 229101 | 1S2W07B01S | SBVWCD #1 | San Bernardino Valley WCD | 205.54 | 247.13 | -41.59 | | |
| 229001 | 1S2W07K01S | SBVWCD #2 | San Bernardino Valley WCD | 166.92 | 222.49 | -55.57 | | |
| 228601 | 1S3W12J01S | SBVWCD#3 | San Bernardino Valley WCD | 157.47 | 227.15 | -69.68 | | |
| 228801 | 1S3W11H01S | SBVWCD #4 | San Bernardino Valley WCD | 133.09 | 175.61 | -42.52 | | |
| 3600717 | 1N4W32D03S | 19th Street No. 1 | San Bernardino, City of | 308.3 | 315 | -6.7 | | |
| 3600720 | 1N4W27M02S | 27th Street Well | San Bernardino, City of | 270.4 | 273.2 | -2.8 | | |
| 3600719 | 1N4W27G01S | 30th & Mtn. View | San Bernardino, City of | 305.7 | 305.3 | 0.4 | | |
| 3602081 | 1N4W27B01S | 31st & Mtn. View | San Bernardino, City of | 301.3 | 310.6 | -9.3 | | |
| 3602422 | 1S4W02K08S | Antil Well #6 | San Bernardino, City of | 161.4 | 169.7 | -8.3 | | |
| 3602400 | 1N4W32N01S | Baseline Well | San Bernardino, City of | 290 | 312 | -22 | | |
| 3600710 | 2N5W19K02S | Cajon Canyon Well | San Bernardino, City of | 69.9 | 111.2 | -41.3 | | |
| 3601844 | 1N5W03H02S | Cajon Well #2 | San Bernardino, City of | 167.2 | 212.6 | -45.4 | | |
| 3602821 | 1N5W03A02S | Cajon Well #3 | San Bernardino, City of | 170.4 | 218 | -47.6 | | |
| 3602206 | 1N4W06H02S | Devil Canyon #3 | San Bernardino, City of | 23.3 | 27.5 | -4.2 | | |
| 3602205 | 1N4W06H01S | Devil Canyon #4 | San Bernardino, City of | 29.7 | 33.4 | -3.7 | | |
| G363790 | 01N/04W-32PS | EPA EXTRAC WELL 112 | San Bernardino, City of | | 474.9 | | | |
| 3600737 | 1S4W10N06S | Mill & D | San Bernardino, City of | 96.3 | 99.5 | -3.2 | | |
| 3600319 | 1N4W31A01S | Mt. Vernon | San Bernardino, City of | 331.7 | 338.9 | -7.2 | | |
| 3600714 | 1N4W16E01S | Newmark #1 | San Bernardino, City of | 158 | 162.7 | -4.7 | | |
| 3600716 | 1N4W16E03S | Newmark #3 | San Bernardino, City of | | 159.8 | | | |
| 3601115 | 1N4W26P03S | Perris Hill #5 | San Bernardino, City of | 253.2 | 249.1 | 4.1 | | |
| 3601944 | 1N5W23Q01S | 2/Lower 7 | West Valley Water District | 200 | 287 | -87 | | |
| 3600305 | 1N5W25E01S | 5A/Lower 5 | West Valley Water District | 206 | 265 | -59 | | |



Annual Change is Storage for Bunker Hill Basin

| Sub-area | [1] Annual Change in Water Level 2014 | [2] Area | [3] Storativity (S) | [4] Annual Change in Storage** |
|---|---|-------------|---------------------|--------------------------------|
| | [ft] | [acres] | | [acre-ft] |
| Bunker Hill I - Northeast of 215 Freeway | -9.2 | 7,795 | 0.11 | -7,915 |
| Bunker Hill I - Southwest of 215 Freeway | 1.5 | 11,714 | 0.09 | 1,622 |
| Bunker Hill II - West of Mentone Fault | -20.1 | 35,206 | 0.06 | -42,486 |
| Bunker Hill II - East of Mentone Fault, North | -21.7 | 8,584 | 0.13 | -24,263 |
| Bunker Hill II - East of Mentone Fault, South | -4.4 | 2,507 | 0.13 | -1,426 |
| Lytle Basin - Northwest of Barrier J | 0.0 | 1,924 | 0.13 | 0 |
| Lytle Basin - Southeast of Barrier J | -25.3 | 5,237 | 0.07 | -9,275 |
| Pressure Zone - North of Santa Ana Wash | -1.5 | 11,920 | 0.02 | -358 |
| Pressure Zone - Santa Ana Wash | -9.5 | 6,686 | 0.02 | -1,267 |

| Total = | -85.368 |
|----------|---------|
| i Otai - | -05,500 |

^[1] Based on average changes in water level within each Sub-area

^[2] Estimated using GIS

^[3] Based on data from Hardt and Hutchinson (1980).

S, storativity: The amount of water stored or released per unit area of aquifer given unit head change.

 $^{[4] = [1] \}times [2] \times [3]$

^{*}A positive sign denotes an increase in water level and a negative sign represents a decline in water level.



Accumulated Change in Storage for Bunker Hill Basin

| | Accumulated Storage |
|------|---------------------|
| Year | [acre-ft] |
| 1989 | -58,000 |
| 1990 | -170,700 |
| 1991 | -196,000 |
| 1992 | -191,000 |
| 1993 | 0 |
| 1994 | -50,000 |
| 1995 | 41,100 |
| 1996 | -43,100 |
| 1997 | -75,500 |
| 1998 | 40,400 |
| 1999 | -85,700 |
| 2000 | -131,100 |
| 2001 | -212,200 |
| 2002 | -301,500 |
| 2003 | -338,800 |
| 2004 | -406,900 |
| 2005 | -183,100 |
| 2006 | -245,500 |
| 2007 | -359,400 |
| 2008 | -362,000 |
| 2009 | -397,600 |
| 2010 | -340,623 |
| 2011 | -224,603 |
| 2012 | -314,377 |
| 2013 | -444,322 |
| 2014 | -529,690 |

Note: A negative sign indicates a decline in storage and a positive sign represents an increase in storage.



Production of Sub-basins of Bunker Hill Basin

| Sub-area | Production July 2013 to June 2014 [acre-ft] ² |
|---|---|
| Bunker Hill I - Northeast of Interstate 215 | 3,432 |
| Bunker Hill I - Southwest of Interstate 215 | 731 |
| Bunker Hill II - West of Mentone Fault | 36,816 |
| Bunker Hill II - East of Mentone Fault, North | 9,288 |
| Bunker Hill II - East of Mentone Fault, South | 8,369 |
| Lytle Basin - Northwest of Barrier J | 838 |
| Lytle Basin - Southeast of Barrier J | 12,297 |
| Pressure Zone - North of Santa Ana Wash | 37,229 |
| Pressure Zone - Santa Ana Wash | 35,871 |
| Total | 165,799 |

Notes: 207 Wells Used in these Calculations

- 1 Refer to Appendix C for Well Values Compiled for Estimate.
- 2 Estimated for Water Year July 2013-June 2014 production.

Data Sources: 25 Primary Water Purveyors (excluding Fontana Union),

as well as San Bernardino Watermaster, and SBVMWD.



Estimates of Percentage of Normal Precipitation for Previous Water Year

| | | [0] | [1] | [2] | [3] | [4] | [5] | [6] | [7] | | |
|---|-------------------------------|-----------------|---------------------|--|----------------|---------------------|--------------------------------|----------------|------------------------------|--|--|
| | July to June | July to June | Season - | Season - July to December Season - January to June | | | | | | | |
| Station | Historic Average Annual | 2013- 2014 | Historic Average | Sum Jul 2013 to Dec 2013 | % of Normal | Historic Average | Sum Jan 2014 to Jun 2014 | % of Normal | Water Year % of Normal | | |
| | [inches] | [inches] | [inches] | [inches] | [%] | [inches] | [inches] | [%] | [%] | | |
| Big Bear Dam | 35.01 | 14.86 | 11.61 | 2.53 | 22% | 23.40 | 12.33 | 53% | 42% | | |
| Devore CDF | 27.33 | 13.05 | 8.47 | 5.07 | 60% | 18.86 | 7.98 | 42% | 48% | | |
| Camp Angelus | 27.89 | 11.61 | 9.60 | 3.90 | 41% | 18.29 | 7.71 | 42% | 42% | | |
| Lake Arrowhead | 40.15 | 24.50 | 13.04 | 9.90 | 76% | 27.10 | 14.60 | 54% | 61% | | |
| Mentone CDF | 12.51 | 3.50 | 3.86 | 2.13 | 55% | 8.65 | 1.37 | 16% | 28% | | |
| Redlands Country Club | 13.98 | 7.40 | 4.25 | 3.90 | 92% | 9.73 | 3.50 | 36% | 53% | | |
| San Bernardino County Hospital | 15.85 | 8.90 | 4.95 | 4.81 | 97% | 10.89 | 4.09 | 38% | 56% | | |
| Santa Ana Pumphouse #3 | 16.84 | 6.88 | 5.43 | 2.93 | 54% | 11.41 | 3.95 | 35% | 41% | | |
| Yucaipa CDF | 15.86 | 7.91 | 4.94 | 3.79 | 77% | 10.93 | 4.12 | 38% | 50% | | |

Avg (in) = 22.83 10.96

Average = 63.7%

Average = 39.2%



Average Annual Change in Storage for Bunker Hill Basin

| | [1] | [2] | [3] | [4] |
|--|--|---------|-----------------|---|
| Sub-area | Average Change in 10 Years in Water Level* | Area | Storativity (S) | Average Annual Change in Storage** |
| | [ft] | [acres] | | [acre-ft] |
| Bunker Hill I - Southwest of 215 Freeway | -0.31 | 11,714 | 0.09 | -318 |
| Bunker Hill I - Northeast of 215 Freeway | -3.56 | 7,795 | 0.11 | -3,051 |
| Bunker Hill II - West of Mentone Fault | -6.61 | 35,206 | 0.06 | -13,729 |
| Bunker Hill II - East of Mentone Fault | -3.36 | 11,091 | 0.13 | -4,501 |
| Lytle Basin - Southeast of Barrier J | 25.13 | 5,237 | 0.07 | 9,275 |
| Lytle Basin - Northwest of Barrier J | -1.03 | 1,924 | 0.13 | -258 |
| Pressure Zone - North of Santa Ana Wash | 17.70 | 11,920 | 0.02 | 4,226 |
| Pressure Zone - Santa Ana Wash | -5.85 | 6,686 | 0.02 | -785 |

| Total = -9,141 |
|----------------|
|----------------|

^[1] Based on average annual changes in water level within each Sub-area over last 10 years.

S storativity: The amount of water stored or released per unit area of aquifer given unit head change.

$$[4] = [1] \times [2] \times [3]$$

^[2] Estimated using GIS.

^[3] Based on data from Hardt and Hutchinson (1980).

^{*}A positive sign denotes an increase in water level and a negative sign represents a decline in water level.



Summary of Surface Distribution Water for Bunker Hill Basin

| Streamflow Diversions | 1987 [acre-ft] | 1988 [acre-ft] | 1989 [acre-ft] | 1990 [acre-ft] | 1991 [acre-ft] | 1992 [acre-ft] | 1993 [acre-ft] | 1994 [acre-ft] | 1995 [acre-ft] | 1996 [acre-ft] | 1997 [acre-ft] | 1998 [acre-ft] | 1999 [acre-ft] | 2000 [acre-ft] | 2001 [acre-ft] |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Lytle Creek | | | | | | | | | | | | | | | |
| Fontana Union WC | 2,725 | 2,991 | 2,245 | 204 | 1,633 | 12,980 | 7,860 | 12,270 | 10,000 | 10,100 | | | | | |
| Mount Vernon WC | 724 | 724 | 724 | 724 | 724 | 724 | 1,143 | 102 | 0 | 0 | 0 | 0 | 312 | 786 | 778 |
| Rialto, City of | 539 | 1,111 | 1,005 | 792 | 1,014 | 743 | 193 | 843 | 44 | 1,070 | 393 | 896 | 1,461 | NA | 1,305 |
| San Bernardino, City of | 1,448 | 1,448 | 1,448 | 1,448 | 1,448 | 1,448 | 520 | | 2,400 | 2,400 | 0 | 0 | 0 | 0 | 0 |
| West Valley Water District | 3,686 | 3,696 | 3,696 | 2,554 | 3,701 | 3,696 | 3,696 | 3,697 | 3,696 | 3,686 | 4,079 | 3,696 | 3,408 | 3,047 | 3,175 |
| Subtotal | 9,122 | 9,970 | 9,118 | 5,722 | 8,520 | 19,591 | 13,412 | 16,912 | 16,140 | 17,256 | 4,472 | 4,592 | 5,181 | 3,833 | 5,258 |
| Mill Creek | | | | | | | | | | | | | | | |
| Redlands, City of | 11,178 | 7,731 | 8,285 | 6,794 | 11,109 | 14,559 | 19,086 | 14,505 | 9,786 | 12,250 | 10,250 | 11,224 | 11,951 | 8,852 | 9,496 |
| SBVWCD Mill Creek Spreading | | | | | | | | | | | | | | | |
| SBVWCD-MC-DWR | | | | | | | | | | | | | | | |
| Subtotal | 11,178 | 7,731 | 8,285 | 6,794 | 11,109 | 14,559 | 19,086 | 14,505 | 9,786 | 12,250 | 10,250 | 11,224 | 11,951 | 8,852 | 9,496 |
| Bunker Hill Creeks | | | | | | | | | | | | | | | |
| Arrowhead Water & Power West Twin Crk | | | | | | | | | | | | | | | |
| Arrowhead Water & Power East Twin Crk | | | | | | | | | | | | | | | |
| Devore Water Company Kimbark Lower Cajon | | | | | | | | | | | | | | | |
| Subtotal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Santa Ana River | | | | | | | | | | | | | | | |
| Bear Valley Mutual WC | 16,373 | 14,170 | 14,785 | 11,244 | 20,651 | 26,014 | 42,079 | 23,812 | 30,794 | 38,252 | 31,479 | 36,632 | 30,245 | 29,498 | 26,301 |
| Redlands Water Co | 961 | 963 | 890 | 577 | | | | | | | 760 | | | | |
| SBVWCD SAR Spreading | | | | | | | | | | | | | | | |
| SBVWCD-DWR-SAR | | | | | | | | | | | | | | | |
| Subtotal | 17,334 | 15,133 | 15,675 | 11,821 | 20,651 | 26,014 | 42,079 | 23,812 | 30,794 | 38,252 | 32,239 | 36,632 | 30,245 | 29,498 | 26,301 |

| Streamflow Diversions | 2002 [acre-ft] | 2003 [acre-ft] | 2004 [acre-ft] | 2005 [acre-ft] | 2006 [acre-ft] | 2007 [acre-ft] | 2008 [acre-ft] | 2009 [acre-ft] | 2010 [acre-ft] | 2011 [acre-ft] | 2012 [acre-ft] | 2013 [acre-ft] | 2014 [acre-ft] | Avg. [acre-ft] |
|---------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Lytle Creek | | | | | | | | | | | | • | • | |
| Fontana Union WC | | | | | | 8,209 | 7,336 | 5,050 | 5,000 | 6027 | 6027 | 5424.3 | | 6,240 |
| Mount Vernon WC | 975 | 1,442 | 754 | 70 | 250 | 437 | 927 | 1,132 | 167 | 685 | 578 | 520 | | 570 |
| Rialto, City of | 1,143 | 726 | 1,707 | 1,209 | 1,448 | 1,160 | 1165.00 | 1,135 | 1,000 | 1,148 | 1,319 | 1070 | | 986 |
| San Bernardino, City of | 0 | 0 | 580 | 5 | 254 | 483 | 498 | 450 | 450 | 757 | 757 | 681.3 | | 728 |
| West Valley Water District | 2,573 | 2,380 | 4,710 | 2,079 | 3,081 | NA | 3,369 | 2,435 | 3,322 | 3382 | 2954 | 2369 | | 3,302 |
| Subtotal | 4,691 | 4,548 | 7,751 | 3,363 | 5,033 | 10,289 | 13,295 | 10,202 | 9,939 | 11,999 | 11,635 | 10,065 | 0 | 11,827 |
| Mill Creek | | | | | | | | | | | | | | |
| Redlands, City of | 5,867 | 12,541 | 10,168 | 12,574 | 15,409 | 9,607 | 12,332 | 7,785 | 10,076 | 13,492 | 10,353 | 9317.7 | | 10,984 |
| SBVWCD MC | | | | 29,138 | 9,510 | 1,531 | 3,810 | 4,450 | 8,891 | 16,185 | 4,666 | 1,734 | 888 | 8,080 |
| SBVWCD-MC-DWR | | | | 0 | 0 | 0 | 431 | 555 | 831 | 1,434 | 0 | 515 | 0 | 377 |
| Subtotal | 5,867 | 12,541 | 10,168 | 41,712 | 24,919 | 11,138 | 16,573 | 12,790 | 19,798 | 31,111 | 15,019 | 11,567 | 888 | 19,441 |
| Bunker Hill Creeks | | | | | | | | | | | | | | |
| Arrowhead Water & Power West Twin Crk | | | 50 | 50 | 50 | 50 | 40 | 40 | 40 | 46 | 46 | 41.4 | | 45 |
| Arrowhead Water & Power East Twin Crk | | | 2,500 | 1,750 | 1,700 | 1,725 | 3 | 0 | 0 | 1097 | 1097 | 987.3 | | 1,086 |
| Devore Water Company Kimbark | | | 29 | 97 | 80 | 62 | 68 | 68 | 68 | 0 | 0 | 0 | | 47 |
| Subtotal | 0 | 0 | 2,579 | 1,897 | 1,830 | 1,837 | 111 | 108 | 108 | 1,143 | 1,143 | 1,029 | 0 | 1,178 |
| Santa Ana River | | | | | | | | | | | | | | |
| Bear Valley Mutual WC | 23,458 | 12,633 | 11,227 | 12,516 | 17,689 | 11,560 | 13,519 | 7,303 | 7,000 | 15,445 | 17,218 | 5,923 | | 20,290 |
| Redlands Water Co | | | 588 | 981 | 1,044 | 884 | 625 | 654 | 629 | 739 | 816 | 734 | | 790 |
| SBVWCD SAR Spreading | | | | 27,841 | 14,476 | 4,002 | 17,550 | 8,456 | 21,662 | 36,801 | 9,073 | 5,519 | 1,537 | 14,692 |
| SBVWCD-DWR-SAR | | | | 0 | 5,855 | 1,993 | 0 | 981 | 1,115 | 1,511 | 441 | 169 | 0 | 1,207 |
| Subtotal | 23,458 | 12,633 | 11,815 | 41,338 | 39,064 | 18,439 | 31,694 | 17,394 | 30,406 | 54,496 | 27,548 | 12,345 | 1,537 | 36,978 |

Assumed as average and are provisional data.

 $Source: Calendar\,year\,totals\,from\,Western\,Municipal\,Water\,District$

Total = 69,424

2014 Total = 2,426



Engineering Investigation of the Bunker Hill Basin 2013-2014

Appendices

| | | | | | | 2013 | | 2014 | | | | |
|-----------------------|----------------------|----------------------|------------------------------|---------------------------------|---------------------------|--|------------------|---------------------------|--|------------------|---|--|
| Recordation Number | State Well Number | Well Name | Owner Or Measuring Agency | Measuring Point Elevation | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Difference Fall 2012 to Fall 2013 | Sub_Basin_WCD |
| 3601257 | 01S04W08F007S | 13 | Colton, City of | 1095.11 | 277 | 818.11 | 12/13/2013 | 286 | 809.11 | 12/14/2014 | -9.0 | Bunker Hill I Southwest of 215 Freeway |
| 3601260 | 1S4W08F01S | 16 | Colton, City of | 1096.22 | 294 | 802.22 | 12/1/2013 | 286 | 810.22 | 12/14/2014 | 8.0 | Bunker Hill I Southwest of 215 Freeway |
| 3602405 | 1S4W08F | 19 | Colton, City of | 1104.10 | 271 | 833.1 | 12/1/2013 | 280 | 824.1 | 12/14/2014 | -9.0 | Bunker Hill I Southwest of 215 Freeway |
| 3602793 | 1S4W08F15S | 21 | Colton, City of | 1093.68 | 281 | 812.68 | 12/1/2013 | 278 | 815.68 | 12/14/2014 | 3.0 | Bunker Hill I Southwest of 215 Freeway |
| 3603704 | 1S4W08J02S | 26 | Colton, City of | 1025.00 | | | | 233 | 792 | 12/14/2014 | | Bunker Hill I Southwest of 215 Freeway |
| 3604006 | 01S/04W-08R | 27 | Colton, City of | 1078.50 | | | | | | | | Bunker Hill I Southwest of 215 Freeway |
| 3604007 | 01S/04W-08F | 28 | Colton, City of | 1091.50 | 296 | 795.5 | 12/1/2013 | 276 | 815.5 | 12/14/2014 | 20.0 | Bunker Hill I Southwest of 215 Freeway |
| 3604008 | 01S04W08Q | 29 | Colton, City of | 0.00 | 187 | -187 | 12/1/2013 | 189 | -189 | 8/14/2014 | -2.0 | Bunker Hill I Southwest of 215 Freeway |
| 3602428 | 02N/05W-34E001S | 4 | Devore Water Company | 2020.00 | | | | | | | | Bunker Hill I Southwest of 215 Freeway |
| 3602383 | 02N/05W-28C002S | 2A | Devore Water Company | 2475.00 | | | | | | | | Bunker Hill I Northeast of 215 Freeway |
| 3602384 | 02N/05W-28C003S | 3 (3a) | Devore Water Company | 2466.00 | | | | | | | | Bunker Hill I Northeast of 215 Freeway |
| 3601675 | 1N4W25A01S | 27 | East Valley Water District | 1295.60 | | | | | | | | Bunker Hill II West of Mentone Fault |
| 3602274 | 1N3W30J05S | 39 | East Valley Water District | 1350.29 | 362 | 988.29 | 12/1/2013 | 398 | 952.29 | 12/14/2014 | -36.0 | Bunker Hill II West of Mentone Fault |
| 3602113 | 1N3W30N01S | 41 | East Valley Water District | 1232.29 | | | | | | - | | Bunker Hill II West of Mentone Fault |
| 3602370 | 1N4W25F04S | 107 | East Valley Water District | 1217.29 | 277 | 940.29 | 12/1/2013 | 290 | 927.29 | 12/14/2014 | -13.0 | Bunker Hill II West of Mentone Fault |
| 3602799 | 1S2W07F01S | 125 | East Valley Water District | 1600.00 | 266 | 1334 | 12/1/2013 | | | 12/14/2014 | -69.0 | Bunker Hill II East of Mentone Fault North |
| 3603734 | 01S/03W-02P006S | 147 | East Valley Water District | 1362.00 | 146 | 1216 | 12/1/2013 | | 1096 | 12/14/2014 | -120.0 | Bunker Hill II West of Mentone Fault |
| 3602563 | 1S4W02Q09S | 11A | East Valley Water District | 1056.89 | 157.4 | 899.49 | 12/1/2013 | 257.5 | 799.39 | 12/14/2014 | -100.1 | Pressure Zone North of Santa Ana Wash |
| 3600680 | 1S3W02J02S | 120 Cram Well | East Valley Water District | 1410.00 | 150 | 1260 | 12/1/2013 | 194 | 1216 | 12/14/2014 | -44.0 | Bunker Hill II West of Mentone Fault |
| 3602034 | 1S4W02Q08S | 12A | East Valley Water District | 1057.00 | 180 | 877 | 12/1/2013 | | 874 | 12/14/2014 | -3.0 | Pressure Zone North of Santa Ana Wash |
| 3603247 | 1S3W06P18S | 141, McDaniel | East Valley Water District | 1120.00 | 241 | 879 | 12/1/2013 | | | 12/14/2014 | 36.0 | Pressure Zone North of Santa Ana Wash |
| 3600220 | 1S3W01H01S | 142 Mt. Harrison | East Valley Water District | 1520.00 | 250.4 | 1269.6 | 12/1/2013 | | | 12/14/2014 | 54.4 | Bunker Hill II West of Mentone Fault |
| 3603583 | 1S3W02N02S | 143 Abbey Way | East Valley Water District | 1339.00 | 170 | 1169 | 12/1/2013 | | 1139 | 12/14/2014 | -30.0 | Bunker Hill II West of Mentone Fault |
| 3601639 | 1S3W03R01S | 146 EHR Well | East Valley Water District | 1327.26 | 266 | 1061.26 | 12/1/2013 | | 1015.26 | 12/14/2014 | -46.0 | Bunker Hill II West of Mentone Fault |
| 3603774 | 01S/03W-03R004S | 146A (Church Street) | East Valley Water District | 1320.00 | 266 | 1054 | 12/1/2013 | | | 12/14/2014 | -49.0 | Bunker Hill II West of Mentone Fault |
| 3601671 | 1N4W26A02S | 24A | East Valley Water District | 1242.99 | 297 | 945.99 | 12/1/2013 | | | 12/14/2014 | -41.0 | Bunker Hill II West of Mentone Fault |
| 3602337 | 1N4W26A03S | 24B | East Valley Water District | 1244.58 | 277 | 967.58 | 12/1/2013 | | | 12/14/2014 | 2.1 | Bunker Hill II West of Mentone Fault |
| 3601673 | 1N4W25C02S | 25A | East Valley Water District | 1246.39 | 304 | 942.39 | 12/1/2013 | | | 12/14/2014 | -42.0 | Bunker Hill II West of Mentone Fault |
| 3602564 | 1S4W12B06S | 28A | East Valley Water District | 1090.10 | 186.5 | 903.6 | 12/1/2013 | | | 12/14/2014 | -12.5 | Pressure Zone North of Santa Ana Wash |
| 3602338 | 1S3W04N03S | 40-A | East Valley Water District | 1198.64 | 221 | 977.64 | 12/1/2013 | _ | | 12/14/2014 | -15.0 | Bunker Hill II West of Mentone Fault |
| | 1S3W06H04S | 9A | East Valley Water District | 1151.54 | | 937.84 | 12/1/2013 | | | 12/14/2014 | -9.3 | Pressure Zone North of Santa Ana Wash |
| 3602417 | 1S3W05D03S | Cull #2 / 132-2 | East Valley Water District | 1155.00 | 219.3 | 935.7 | 12/1/2013 | + | | | | Pressure Zone North of Santa Ana Wash |
| | 1S4W25D06S | Anderson II | Loma Linda University | 1075.00 | | | | | | | | Pressure Zone Santa Ana Wash |
| 3602855 | 01S/04W-25D007S | Anderson III | Loma Linda University | 1070.00 | | | | | | | | Pressure Zone Santa Ana Wash |
| | 01S/04W-24A005S | Mt. View Well 3 | Loma Linda, City of | 1095.00 | 184.5 | 910.5 | 12/23/2013 | 198.5 | 896.5 | 12/14/2014 | -14.0 | Pressure Zone Santa Ana Wash |
| 3603721 | 01S04W24R008S | Mt. View Well 4 | Loma Linda, City of | 1106.00 | 193.8 | 912.2 | | + | | 12/14/2014 | -9.6 | Pressure Zone Santa Ana Wash |
| 3603776 | 01S/04W-24B003S | Mt. View Well 5 | Loma Linda, City of | 1085.00 | 172.8 | 912.2 | | | | | -14.8 | Pressure Zone Santa Ana Wash |
| | 01S/04W-24B004S | Mt. View Well 6 | Loma Linda, City of | 1090.00 | 187 | 903 | | | | | -3.0 | Bunker Hill II West of Mentone Fault |
| 3603057 | 01S04W24C001S | Richardson 1 | Loma Linda, City of | 1077.00 | 178.5 | 898.5 | | | | 12/14/2014 | 40552.9 | Pressure Zone Santa Ana Wash |
| 3603523 | 1S4W24C04S | Richardson 3 | Loma Linda, City of | 1079.00 | 186 | 893 | | | 41441.8 | 12/30/2014 | 40548.8 | Bunker Hill II West of Mentone Fault |
| 3603720 | 01S/04W-24F011S | Richardson 4 | Loma Linda, City of | 1070.00 | 174.8 | 895.2 | | | 41455.6 | | 40560.4 | Pressure Zone Santa Ana Wash |
| | 01S/04W-24B005S | Richardson 5 | Loma Linda, City of | 1080.00 | 184 | 896 | | | 41445.2 | | 40549.2 | Bunker Hill II West of Mentone Fault |
| | 01S/04W24L007S | Richardson 6 | Loma Linda, City of | 1095.00 | 185 | 910 | | + | 41445.8 | | 40535.8 | Bunker Hill II West of Mentone Fault |
| 3601308 | 1S2W19K01S | Agate #1 | Redlands, City of | 1723.00 | 148 | 1575 | 12/1/2013 | | | 12/14/2014 | -2.0 | Bunker Hill II East of Mentone Fault North |
| 3602792 | 1S2W19A01S | Agate #2 | Redlands, City of | 1720.00 | 204 | 1516 | | | | | -37.0 | Bunker Hill II East of Mentone Fault North |
| 3602895 | 1S3W13H02S | Airport #1 | Redlands, City of | 1530.00 | 249 | | | | | | -52.0 | Bunker Hill II West of Mentone Fault |
| | | Airport #2 | Redlands, City of | 0.00 | 245 | 1224 | 12/1/2013 | | | 12/1/2014 | -35.0 | Bunker Hill II West of Mentone Fault |
| 3600053 | 1S3W29Q01S | Bryn Mawr #1 | Redlands, City of | 1215.00 | | | | | | | | Bunker Hill II West of Mentone Fault |

| | | | | | | 2013 | | | 2014 | | 1 | |
|-----------------------|----------------------|---------------------|------------------------------|---------------------------------|---------------------------|--|------------------|---------------------------|--|------------------|---|--|
| Recordation Number | State Well Number | Well Name | Owner Or Measuring Agency | Measuring Point Elevation | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Difference Fall 2012 to Fall 2013 | Sub_Basin_WCD |
| 3602109 | 1\$3W31B | Bryn Mawr #4 | Redlands, City of | 1190.00 | | | | | | | | Bunker Hill II West of Mentone Fault |
| | | Calif St Irr | Redlands, City of | 0.00 | 218 | 938 | 12/1/2013 | 226 | 930 | 12/1/2014 | -8.0 | Bunker Hill II West of Mentone Fault |
| | | Chicken Hill | Redlands, City of | 0.00 | 121 | 2079 | 12/1/2013 | 140 | 2060 | 12/14/2014 | -19.0 | Bunker Hill II East of Mentone Fault South |
| 3604001 | 1S3W14E01S | Church Street | Redlands, City of | 1340.00 | 171 | 1169 | 12/1/2013 | 191 | 1149 | 12/1/2014 | -20.0 | Bunker Hill II West of Mentone Fault |
| 3602654 | 1S2W19J02S | Crafton | Redlands, City of | 1780.00 | 163 | 1617 | 11/1/2013 | 172 | 1608 | 12/14/2014 | -9.0 | Bunker Hill II East of Mentone Fault North |
| 3601287 | 1S2W21B02S | E. Lugonia #3 | Redlands, City of | 2091.00 | 31 | 2060 | 12/1/2013 | 30 | 2061 | 12/14/2014 | 1.0 | Bunker Hill II East of Mentone Fault North |
| 3602791 | 1S2W20B01S | E. Lugonia #4 | Redlands, City of | 1831.58 | 145 | 1686.58 | 12/1/2013 | 163 | 1668.58 | 12/14/2014 | -18.0 | Bunker Hill II East of Mentone Fault North |
| 3601290 | 1S2W21D01S | E. Lugonia #6 | Redlands, City of | 1970.00 | 36 | 1934 | 12/1/2013 | 68 | 1902 | 12/14/2014 | -32.0 | Bunker Hill II East of Mentone Fault North |
| | | Hog Canyon #2 | Redlands, City of | 0.00 | 165 | 2085 | 12/1/2013 | 172 | 2078 | 12/14/2014 | -7.0 | Bunker Hill II East of Mentone Fault South |
| 3602065 | 1S3W32J02S | Lee Well | Redlands, City of | 1357.00 | 206 | 1151 | 12/1/2013 | 223 | 1134 | 12/1/2014 | -17.0 | Bunker Hill II West of Mentone Fault |
| 3602896 | 1S2W20D01S | Madeira | Redlands, City of | 1770.00 | 162 | 1608 | 12/1/2013 | 255 | 1515 | 12/14/2014 | -93.0 | Bunker Hill II East of Mentone Fault North |
| 3601281 | 1S2W36F01S | Maguet #1 | Redlands, City of | 1955.00 | 23 | 1932 | 12/1/2013 | | | | | Bunker Hill II East of Mentone Fault North |
| 3601284 | 1S2W21E01S | Maguet #2 | Redlands, City of | 2016.90 | 57 | 1959.9 | 12/1/2013 | 58 | 1958.9 | 12/14/2014 | -1.0 | Bunker Hill II East of Mentone Fault North |
| 3600748 | | Mentone Acres #1 | Redlands, City of | 0.00 | 268 | 1316 | 11/1/2013 | | | | | Bunker Hill II West of Mentone Fault |
| 3600749 | 1S3W13P01S | Mentone Acres #2 | Redlands, City of | 1520.00 | 230 | 1290 | 12/1/2013 | 260 | 1260 | 12/1/2014 | -30.0 | Bunker Hill II West of Mentone Fault |
| 3601285 | 1S1W10L01S | Mill Creek #2 | Redlands, City of | 4140.00 | 1 | 4140 | 12/1/2013 | | | | | Bunker Hill II East of Mentone Fault North |
| 3603045 | 1S1W09J01S | Mill Creek #2A | Redlands, City of | 3950.00 | | | 12/1/2013 | | | | 1 | Bunker Hill II East of Mentone Fault North |
| 3601288 | 1S1W11Q01S | Mill Creek #4 | Redlands, City of | 4575.00 | | | 11/1/2013 | | | | 1 | Bunker Hill II East of Mentone Fault North |
| 3600756 | 1S3W19L01S | Mission #1 | Redlands, City of | 1130.00 | 1 | | 12/1/2013 | 196 | 934 | 12/14/2014 | -9.0 | Pressure Zone Santa Ana Wash |
| 3602346 | 1S3W28J02S | New York Street | Redlands, City of | 1310.00 | | | 12/1/2013 | 173 | | 12/1/2014 | 15.0 | Bunker Hill II West of Mentone Fault |
| 3603766 | | No.Orange #1 | Redlands, City of | 0.00 | | | 12/1/2013 | 156 | | 12/1/2014 | -17.0 | Bunker Hill II West of Mentone Fault |
| 3603767 | | No.Orange #2 | Redlands, City of | 0.00 | 1 | | 12/1/2013 | | | 12/1/2014 | 0.0 | Bunker Hill II West of Mentone Fault |
| 3601586 | 1S3W15F01S | Orange Street | Redlands, City of | 1290.00 | | | 12/1/2013 | | | 12/1/2014 | -22.0 | Bunker Hill II West of Mentone Fault |
| 3600918 | 2S3W01E01S | Redlands Heights | Redlands, City of | 1790.00 | | | 12/1/2013 | 171 | | 12/14/2014 | -2.0 | Bunker Hill II East of Mentone Fault South |
| 3601291 | 1\$3W35G08\$ | Well #10 | Redlands, City of | 1565.80 | | | 12/1/2013 | 37 | | 12/14/2014 | -1.0 | Bunker Hill II East of Mentone Fault South |
| 3601292 | 1S3W35G07S | Well #11 | Redlands, City of | 1565.50 | 36 | | 12/1/2013 | 37 | | 12/14/2014 | -1.0 | Bunker Hill II East of Mentone Fault South |
| 3601293 | 1S3W35H02S | Well #12 | Redlands, City of | 1568.00 | | | 12/1/2013 | | 1320.3 | 12/11/2011 | 110 | Bunker Hill II East of Mentone Fault South |
| 3601294 | 1\$3W35G09\$ | Well #13 | Redlands, City of | 1577.20 | 1 | | 12/1/2013 | 60 | 1517.2 | 12/14/2014 | 0.0 | Bunker Hill II East of Mentone Fault South |
| 3601295 | 1S3W35H04S | Well #14 | Redlands, City of | 1585.30 | | | 12/1/2013 | | | 12/14/2014 | -1.0 | Bunker Hill II East of Mentone Fault South |
| 3601296 | 1\$3W35H03\$ | Well #16 | Redlands, City of | 1572.20 | | | 12/1/2013 | | | 12/14/2014 | -4.0 | Bunker Hill II East of Mentone Fault South |
| 3602031 | 1S3W21H06S | Well #30A | Redlands, City of | 1314.80 | | | 12/1/2013 | | | 12/1/2014 | -19.0 | Bunker Hill II West of Mentone Fault |
| 3602036 | 1S3W21H07S | Well #31A | Redlands, City of | 1319.00 | | | 12/1/2013 | | | 12/1/2014 | -14.0 | Bunker Hill II West of Mentone Fault |
| 3601298 | 1S3W21H01S | Well #32 | Redlands, City of | 1318.10 | | | 12/1/2013 | | | 12/1/2014 | -21.0 | Bunker Hill II West of Mentone Fault |
| 3601299 | 1S4W24K01S | Well #34 | Redlands, City of | 1090.00 | | | 12/1/2013 | | 890 | 12/14/2014 | -7.0 | Pressure Zone Santa Ana Wash |
| 3602032 | 1S3W22A02S | Well #35 | Redlands, City of | 1395.00 | | | 12/1/2013 | | | 12/1/2014 | -9.0 | Bunker Hill II West of Mentone Fault |
| 3602082 | 2S3W03K01S | Well #36 | Redlands, City of | 1675.20 | | 1175 | 12/1/2013 | 161 | | 12/14/2014 | 7.0 | Bunker Hill II East of Mentone Fault South |
| 3602211 | 1S3W26C01S | Well #37 | Redlands, City of | 1435.00 | | 1230 | 12/1/2013 | | 1215 | 12/1/2014 | -15.0 | Bunker Hill II West of Mentone Fault |
| 3604002 | 1S3W29Q01S | Well #38 | Redlands, City of | 1215.00 | | | 12/1/2013 | | | 12/1/2014 | -16.0 | Bunker Hill II West of Mentone Fault |
| 3603760 | 10011270013 | Well #39 | Redlands, City of | 0.00 | | | 12/1/2013 | | | 12/1/2014 | -8.0 | Bunker Hill II West of Mentone Fault |
| 3603537 | 1S5W14B01S | Chino #2 | Rialto, City of | 1137.00 | | 1078 | 12/1/2013 | 133 | 10/0 | 12/1/2014 | 0.0 | Danker this is west of wichterfelle Fault |
| 3601263 | 1N5W23Q01S | City 1 | Rialto, City of | 1430.00 | | | | 1 | | | 1 | Lytle Basin Southeast of Barrier J |
| 3602080 | 1N5W23Q01S | City 2 | Rialto, City of | 1430.00 | | | | | | | 1 | Lytle Basin Southeast of Barrier J |
| 3602848 | 1N5W36B01S | City 3 | Rialto, City of | 1300.00 | | | | | | | 1 | Lytle Basin Southeast of Barrier J |
| 3603538 | 1S4W06H03S | City 4 | Rialto, City of | 1158.00 | | | | 1 | | | 1 | Bunker Hill I Southwest of 215 Freeway |
| 3603030 | 1S4W06B01S | City 5 | Rialto, City of | 1211.00 | | | | | | | 1 | Bunker Hill I Southwest of 215 Freeway |
| 3601929 | 1S4W06C04S | City 6 | Rialto, City of | 1211.00 | | | | | | | ł | Bunker Hill I Southwest of 215 Freeway |
| 3602253 | 1N5W27D01S | Rialto 1 (Cedar) | Rialto, City of | 1137.00 | | | | | | | ł | Danker Hill I Joutiliwest Of 213 Fleeway |
| | | · | | | | | | | | | ł | |
| 3601993 | 1N5W34B01S | Rialto 2 (Highland) | Rialto, City of | 1430.00 | <u> </u> | L | | | | | j | |

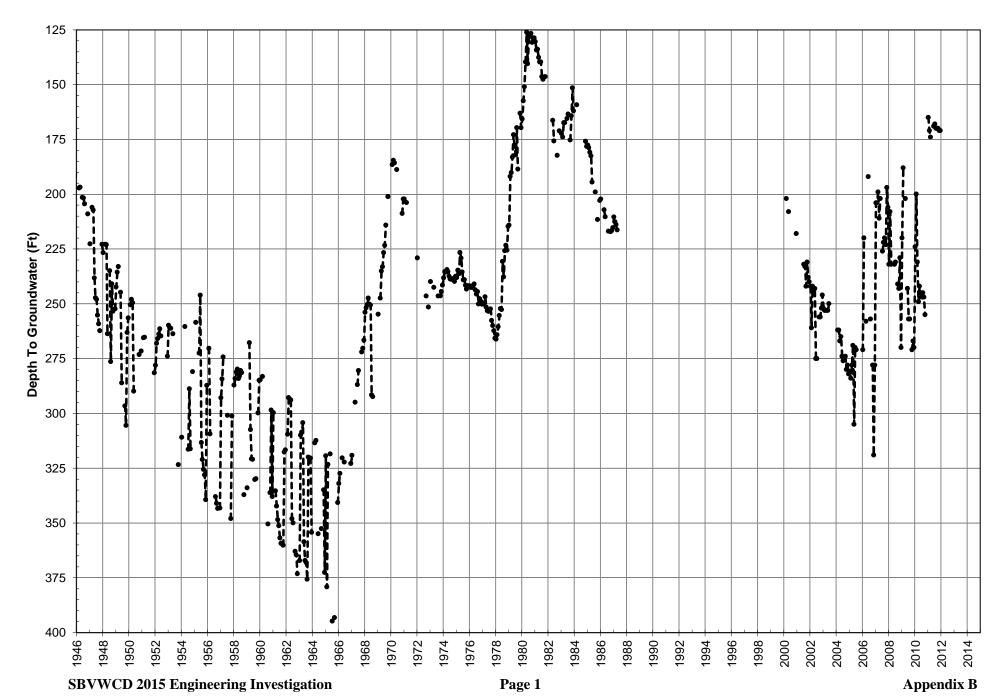
| | | | | | | 2013 | | | 2014 | 2014 | | |
|-----------------------|--------------------------|---|---|---------------------------------|---------------------------|--|------------------|---------------------------|--|------------------|---|--|
| Recordation Number | State Well Number | Well Name | Owner Or Measuring Agency | Measuring Point Elevation | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Difference Fall 2012 to Fall 2013 | Sub_Basin_WCD |
| 3602558 | 1N5W34M01S | Rialto 3 (Airport) | Rialto, City of | 1417.00 | | | | | | | | |
| 3602182 | 1S4W28K02S | CR #4A | Riverside Highland Water Company | 948.00 | 84 | 864 | 12/1/2013 | 77 | 871 | 12/1/2014 | 7.0 | |
| 3601530 | 1S4W22L08S | FW #12 | Riverside Highland Water Company | 985.44 | | | | | | | | Pressure Zone Santa Ana Wash |
| 3603514 | 01S/04W-22L17S | FW #5 | Riverside Highland Water Company | 989.00 | 110 | 879 | 12/1/2013 | 115 | 874 | 12/14/2014 | -5.0 | Pressure Zone Santa Ana Wash |
| 3601535 | 01N/04W-31D02S | LC#1 | Riverside Highland Water Company | 1264.00 | 393 | 871 | 12/1/2013 | 403 | 861 | 12/14/2014 | -10.0 | Lytle Basin Southeast of Barrier J |
| 3603470 | 01N/04W-31E03S | LC#10 | Riverside Highland Water Company | 1264.00 | 391 | 873 | 12/1/2013 | 402 | 862 | 12/14/2014 | -11.0 | Lytle Basin Southeast of Barrier J |
| 3603139 | 01S/04W-32M04S | LV #3 | Riverside Highland Water Company | 924.00 | 127 | 797 | 12/1/2013 | 129 | 796 | 10/14/2014 | -1.0 | |
| 3601531 | 1S4W33B05S | RN #16 | Riverside Highland Water Company | 945.45 | 92 | 853.45 | 12/1/2013 | 94 | 851.45 | 12/1/2014 | -2.0 | |
| 3601532 | 01S/04W-28N05S | RN #17 | Riverside Highland Water Company | 931.00 | 113 | 818 | 12/1/2013 | 114 | 817 | 12/1/2014 | -1.0 | |
| 3601534 | 01S/04W-28L02S | RN #20 | Riverside Highland Water Company | 939.00 | 107 | 832 | 12/1/2013 | 108 | 831 | 12/1/2014 | -1.0 | |
| 3301655 | 02S/04W-08M01S | RN #21 | Riverside Highland Water Company | 1000.00 | 209 | 791 | 12/1/2013 | 206 | 794 | 12/1/2014 | 3.0 | |
| 3301656 | 02S/04W-08MO2S | RN #22 | Riverside Highland Water Company | 983.00 | 192 | 791 | 12/1/2013 | 195 | 788 | 12/1/2014 | -3.0 | |
| 3603738 | 02S04W05F03S | RN #6 | Riverside Highland Water Company | 988.00 | 197 | 791 | 12/1/2013 | 204 | | 12/1/2014 | -7.0 | Bunker Hill II West of Mentone Fault |
| 3601526 | 02S/04W-06R01S | RN #7 | Riverside Highland Water Company | 948.00 | 158 | 790 | 12/1/2013 | 160 | 788 | 12/1/2014 | -2.0 | |
| 3601225 | 01S/04W-02P002S | Cooley D | Riverside, City of | 1037.60 | | | | | | | | Pressure Zone North of Santa Ana Wash |
| 3601218 | 1S4W14P02S | Raub 1 | Riverside, City of | 1026.80 | 164.8 | 862 | 11/18/2013 | 176.63 | 850.17 | 10/20/2014 | -11.8 | Pressure Zone Santa Ana Wash |
| 3601234 | 1S4W27A19S | Stewart 19 | Riverside, City of | 1020.00 | 143.01 | 876.99 | 12/18/2013 | 131.33 | | 12/29/2013 | 11.7 | Bunker Hill II West of Mentone Fault |
| 3601431 | 1S4W27H01S | Stewart 20 | Riverside, City of | 1020.00 | 150 | 870 | 11/15/2013 | 130.32 | 889.68 | 12/30/2014 | 19.7 | Bunker Hill II West of Mentone Fault |
| 3601463 | 01S/04W-02A003S | Stiles | Riverside, City of | 1072.00 | 198.4 | 873.6 | 10/31/2013 | | | 11/17/2014 | 102.5 | Pressure Zone North of Santa Ana Wash |
| 3601471 | 1S4W22G14S | Thorne 3 | Riverside, City of | 994.90 | 110 | 884.9 | 12/18/2013 | 110.64 | | 12/30/2014 | -0.6 | Pressure Zone Santa Ana Wash |
| 3601477 | 1S4W22B01S | Thorne 9 | Riverside, City of | 1002.90 | 119.7 | 883.2 | 11/18/2013 | 114.26 | | 12/29/2014 | 5.4 | Pressure Zone Santa Ana Wash |
| 3603555 | 1S4W14N | Raub 8 | Riverside, City of | 1016.44 | 126.2 | 890.24 | 12/4/2013 | 151.7 | | 11/30/2014 | -25.5 | Pressure Zone Santa Ana Wash |
| 3600787 | 1S4W23A02S | 26-1 | Riverside, City Of-Gage Canal | 1045.33 | 181 | 864.33 | 12/17/2013 | | | 11/16/2014 | 19.0 | Pressure Zone Santa Ana Wash |
| 3600788 | 1S4W23H01S | 27-1 | Riverside, City Of-Gage Canal | 1044.64 | 159 | 885.64 | 12/17/2013 | | | 11/16/2014 | -1.0 | Pressure Zone Santa Ana Wash |
| 3600789 | 1S4W23K01S | 27-2 | Riverside, City Of-Gage Canal | 1044.64 | 152 | 892.64 | 12/17/2013 | 170 | | 10/5/2014 | -18.0 | Pressure Zone Santa Ana Wash |
| 3600790 | 1S4W23K02S | 29-1 | Riverside, City Of-Gage Canal | 1044.43 | 153 | 891.43 | 12/17/2013 | 159 | | 11/16/2014 | -6.0 | Pressure Zone Santa Ana Wash |
| 3600791 | 1S4W13N01S | 29-2 | Riverside, City Of-Gage Canal | 1046.31 | 172 | 874.31 | | | | 11/16/2014 | -6.0 | Pressure Zone Santa Ana Wash |
| | 1S4W13N02S | 29-3 | Riverside, City Of-Gage Canal | 1048.75 | 207 | 841.75 | | 163 | | 11/16/2014 | 44.0 | Pressure Zone Santa Ana Wash |
| 3600793 | 1S4W13M02S | 30-1 | Riverside, City Of-Gage Canal | 1054.17 | 207 | 841.73 | 12/17/2013 | 103 | 883.73 | 11/10/2014 | 44.0 | Pressure Zone Santa Ana Wash |
| | 1S4W13F02S | 31-1 | Riverside, City Of-Gage Canal | 1054.17 | 163 | 901.64 | 12/15/2013 | 209 | 845.64 | 11/16/2014 | -46.0 | Pressure Zone Santa Ana Wash |
| | 1S4W13G02S | 46-1 | Riverside, City Of-Gage Canal | 1065.50 | | 831.04 | 12/13/2013 | 203 | 843.04 | 11/10/2014 | -40.0 | Pressure Zone Santa Ana Wash |
| | 1S4W13G02S | 51-1 | Riverside, City Of-Gage Canal | 1003.30 | 175 | 869.64 | 11/18/2013 | 227 | 817.64 | 11/16/2014 | -52.0 | Pressure Zone Santa Ana Wash |
| | 1S4W13G03S | 56-1 | Riverside, City Of-Gage Canal | 1044.64 | 208 | 857.5 | 11/17/2013 | | | 11/16/2014 | 6.0 | Pressure Zone Santa Ana Wash |
| 3000797 | 01S/04W-23A006S | 98-1 | Riverside, City Of-Gage Canal | 1005.50 | 235 | 811.7 | 11/17/2013 | | | 11/16/2014 | -3.0 | Pressure Zone Santa Ana Wash |
| 228701 | | | | | 151.55 | | | | | | | Bunker Hill II East of Mentone Fault North |
| | 1S2W17L01S 1S2W17L02S | Mill Ck Monitoring #1 Mill Ck Monitoring #2 | San Bernardino Valley Water Cons. Dist. | 1800.00 1800.00 | 183.24 | 1648.45 | | | | 12/16/2014 | | |
| | | | San Bernardino Valley Water Cons. Dist. | | | 1616.76 | | | | 12/16/2014 | | Bunker Hill II East of Mentone Fault North |
| | 1S2W17E01S | Mill Ck Monitoring #4 | San Bernardino Valley Water Cons. Dist. | 1760.00 | 206.9 | 1553.1 | | | | 8/5/2014 | | Bunker Hill II East of Mentone Fault North |
| 453201 | 1S2W17E02S | Mill Ck Monitoring #5 | San Bernardino Valley Water Cons. Dist. | 1760.00 | 243.57 | 1516.43 | | | | 12/16/2014 | -26.9 | Bunker Hill II East of Mentone Fault North |
| 459301 | 01S03W07C | SAR #1 | San Bernardino Valley Water Cons. Dist. | 1624.00 | 269.82 | 1354.18 | | | | 12/16/2014 | -46.7 | Bunker Hill II West of Mentone Fault |
| 459401 | 01S03W12N | SAR #2 | San Bernardino Valley Water Cons. Dist. | 1442.00 | 204.96 | 1237.04 | | | 1196.83 | 12/16/2014 | -40.2 | Bunker Hill II West of Mentone Fault |
| 229101 | 1S2W07B01S | SBVWCD #1 | San Bernardino Valley Water Cons. Dist. | 1650.50 | 247.13 | 1403.37 | | | 444 | 42/46/22: | | Bunker Hill II East of Mentone Fault North |
| 229001 | 1S2W07K01S | SBVWCD #2 | San Bernardino Valley Water Cons. Dist. | 1646.40 | 222.49 | 1423.91 | 12/16/2013 | | | 12/16/2014 | | Bunker Hill II East of Mentone Fault North |
| 228601 | 1S3W12J01S | SBVWCD #3 | San Bernardino Valley Water Cons. Dist. | 1541.70 | 227.15 | 1314.55 | | 271.33 | | 12/16/2014 | | Bunker Hill II West of Mentone Fault |
| | 1S3W11H01S | SBVWCD #4 | San Bernardino Valley Water Cons. Dist. | 1411.20 | 175.61 | 1235.59 | | | | 11/18/2014 | | Bunker Hill II West of Mentone Fault |
| - | 1S4W10F | #40, Handford #1, SCE | San Bernardino, City of | 1030.40 | 122.3 | 908.1 | | | | 12/17/2014 | -5.3 | Pressure Zone Santa Ana Wash |
| 3603207 | 1S4W04B04S | 10th & "J" Street | San Bernardino, City of | 1113.82 | | 890.82 | | | | 12/15/2014 | -5.0 | Pressure Zone North of Santa Ana Wash |
| 3600726 | 1N4W34G03S | 16th & Sierra Way | San Bernardino, City of | 1135.13 | 248.9 | 886.23 | | | | 12/17/2014 | 7.0 | Pressure Zone North of Santa Ana Wash |
| 3600718 | 1N4W32D04 | 19th St. No. 2 | San Bernardino, City of | 1236.34 | 334.3 | 902.04 | 12/18/2013 | 332.2 | 904.14 | 12/17/2014 | 2.1 | Bunker Hill I Southwest of 215 Freeway |

| Number Number 3600717 1N4W32D0 3600721 01N/04W- 3600720 1N4W27M 3600719 1N4W27B0 3602081 1N4W27B0 3602421 1N04W14B1 3602265 1S4W03J0 01S/04W-1 3602402 1S4W02K0 3602400 1N4W32N 3603792 01N/05W- 3600710 2N5W19K0 3601844 1N5W03H0 3602821 1N5W03H0 3602712 1N4W08H0 3602206 1N4W06H0 3602205 1N4W06H0 3603580 01N/04W- 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603693 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | AW-27M001S 27M02S 27G01S 27B01S 714P01 3J05S W-15R03S 2K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | Well Name 19th Street No. 1 25TH & NORTH E ST WELL 27th Street Well 30th & Mtn. View 31st & Mtn. View 40TH & VALENCIA 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | Owner Or Measuring Agency San Bernardino, City of | Measuring Point Elevation 1231.03 1192.10 1184.07 1227.38 1233.01 1355.10 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | Depth To Water (ft) 315 273.2 273.2 305.3 310.6 272.5 171.8 123.2 169.7 312 215 | Groundwater Elevation (ft, AMSL) 916.03 918.9 910.87 922.08 922.41 1082.6 885.59 889.8 884.14 873.56 | Date Measured 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 | Depth To Water (ft) 325.5 275.2 290.4 336.1 326.4 298.4 179.2 123.5 | Groundwater Elevation (ft, AMSL) 905.53 916.9 893.67 891.28 906.61 1056.7 878.19 | 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 | Difference Fall 2012 to Fall 2013 -10.5 -2.0 -17.2 -30.8 -15.8 -25.9 -7.4 | Sub_Basin_WCD Bunker Hill I Southwest of 215 Freeway Bunker Hill II West of Mentone Fault |
|--|--|---|--|---|--|--|--|---|---|--|--|--|
| 3600721 01N/04W-3600720 3600720 1N4W27M 3600719 1N4W27G 3602081 1N4W27B 3603472 1N04W14I 3602465 1S4W03JO 01S/04W-3 01S/04W-3 3602422 1S4W02KO 3602400 1N4W32N 3603792 01N/05W-3 3600710 2N5W19KO 3601844 1N5W03HO 3602821 1N5W03HO 3602712 1N4W08HO 3602205 1N4W06HO 3602205 1N4W06HO 3603580 01N/04W-3 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603693 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | AW-27M001S 27M02S 27G01S 27B01S 714P01 3J05S W-15R03S 2K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | 25TH & NORTH E ST WELL 27th Street Well 30th & Mtn. View 31st & Mtn. View 40TH & VALENCIA 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1192.10 1184.07 1227.38 1233.01 1355.10 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | 273.2 273.2 305.3 310.6 272.5 171.8 123.2 169.7 312 | 918.9 910.87 922.08 922.41 1082.6 885.59 889.8 884.14 | 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 | 275.2 290.4 336.1 326.4 298.4 179.2 | 916.9 893.67 891.28 906.61 1056.7 878.19 | 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 | -2.0 -17.2 -30.8 -15.8 -25.9 | Bunker Hill II West of Mentone Fault |
| 3600720 1N4W27M 3600719 1N4W27G 3602081 1N4W27B 3603472 1N04W14I 3602265 1S4W03J0 01S/04W-3 01S/04W-3 3602422 1S4W02K0 3602400 1N4W32N 3603792 01N/05W-3 3600710 2N5W19K0 3601844 1N5W03H0 3600712 1N4W08M 3600712 1N4W08H0 3602206 1N4W06H0 3602205 1N4W06H0 3603580 01N/04W-3603579 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603693 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | 27M02S 27G01S 27B01S 714P01 3J05S W-15R03S 12K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | 27th Street Well 30th & Mtn. View 31st & Mtn. View 40TH & VALENCIA 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1184.07 1227.38 1233.01 1355.10 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | 273.2 305.3 310.6 272.5 171.8 123.2 169.7 312 | 910.87 922.08 922.41 1082.6 885.59 889.8 884.14 | 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 | 290.4 336.1 326.4 298.4 179.2 | 893.67 891.28 906.61 1056.7 878.19 | 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 | -17.2 -30.8 -15.8 -25.9 | Bunker Hill II West of Mentone Fault |
| 3600719 1N4W27G 3602081 1N4W27B 3603472 1N04W14I 3602265 1S4W03J0 01S/04W-3 01S/04W-3 3602422 1S4W02K0 3602400 1N4W32N 3603792 01N/05W-3 3601844 1N5W03H 3602821 1N5W03AI 3600712 1N4W08M 3602206 1N4W06H 3602205 1N4W06H 3602844 2N4W08M 3603580 01N/04W-3603580 3603688 01S/04W-03603688 3603689 01S/04W-03603689 3603690 01S/04W-03603691 3603691 01S/04W-03603693 3603694 01N/04W-3603786 3603786 01N/04W-3603786 | 27G01S 27B01S /14P01 3J05S W-15R03S 2K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | 30th & Mtn. View 31st & Mtn. View 40TH & VALENCIA 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1227.38 1233.01 1355.10 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | 305.3 310.6 272.5 171.8 123.2 169.7 312 | 922.08 922.41 1082.6 885.59 889.8 884.14 | 12/18/2013 12/18/2013 12/18/2013 12/18/2013 12/18/2013 | 336.1 326.4 298.4 179.2 | 891.28 906.61 1056.7 878.19 | 12/17/2014 12/17/2014 12/17/2014 12/17/2014 | -30.8 -15.8 -25.9 | Bunker Hill II West of Mentone Fault Bunker Hill II West of Mentone Fault Bunker Hill II West of Mentone Fault |
| 3602081 1N4W27BI 3603472 1N04W14I 3602465 1S4W03JO 01S/04W-1 01S/04W-2 3602422 1S4W02KO 3602400 1N4W32NI 3603792 01N/05W-3 3600710 2N5W19KO 3601844 1N5W03AI 3602821 1N5W03AI 3600712 1N4W08M 3602206 1N4W06HI 3602205 1N4W06HI 3602844 2N4W08MI 3603580 01N/04W-3603579 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | 27801S 714P01 13J05S 1W-15R03S 12K08S 132N01S 15W-03A 19K02S 103H02S 103H02S 103H02S 105H01S 106H01S | 31st & Mtn. View 40TH & VALENCIA 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1233.01 1355.10 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | 310.6 272.5 171.8 123.2 169.7 312 | 922.41 1082.6 885.59 889.8 884.14 | 12/18/2013 12/18/2013 12/18/2013 12/18/2013 | 326.4 298.4 179.2 | 906.61 1056.7 878.19 | 12/17/2014 12/17/2014 12/17/2014 | -15.8 -25.9 | Bunker Hill II West of Mentone Fault Bunker Hill II West of Mentone Fault |
| 3603472 1N04W14I 3602265 1S4W03J0 01S/04W-3 3602422 1S4W02K0 3602400 1N4W32N 3603792 01N/05W-3 3600710 2N5W19K0 3601844 1N5W03H0 3602821 1N5W03A0 3600712 1N4W08M0 3600711 1N4W07F0 3602206 1N4W06H0 3602205 1N4W06H0 3602205 1N4W06H0 3603580 01N/04W-3 3603690 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-3 3603786 01N/04W-3 3603786 01N/04W-3 3603786 01N/04W-3 | 7/14P01 93J05S W-15R03S 92K08S 932N01S 95W-03A 19K02S 93H02S 93A02S 98M01S 97F01S 96H02S 96H01S | 40TH & VALENCIA 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1355.10 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | 272.5 171.8 123.2 169.7 312 | 1082.6 885.59 889.8 884.14 | 12/18/2013 12/18/2013 12/18/2013 | 298.4 179.2 | 1056.7 878.19 | 12/17/2014 12/17/2014 | -25.9 | Bunker Hill II West of Mentone Fault |
| 3602265 1S4W03J0 01S/04W-3 3602422 1S4W02K0 3602400 1N4W32N 3603792 01N/05W-3600710 2N5W19K0 3601844 1N5W03H0 3602821 1N5W03A0 3600712 1N4W08N 3600711 1N4W07F0 3602206 1N4W06H0 3602205 1N4W06H0 3602844 2N4W08N 3603579 01N/04W-3603579 01N/04W-3603690 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-3603786 01N/04W-3603 | 3J05S W-15R03S 2K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S | 7th Street Well ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1057.39 1013.00 1053.84 1185.56 1923.00 2331.92 | 171.8 123.2 169.7 312 | 885.59 889.8 884.14 | 12/18/2013 12/18/2013 | 179.2 | 878.19 | 12/17/2014 | | |
| 01S/04W-3 3602422 1S4W02K0 3602400 1N4W32N 3603792 01N/05W-3 600710 2N5W19K0 3601844 1N5W03H0 3602821 1N5W03A0 3600712 1N4W08M 3600711 1N4W07F0 3602206 1N4W06H0 3602205 1N4W06H0 3602205 1N4W08M 3603579 01N/04W-3603579 01N/04W-3603690 01S/04W-03603690 01S/04W-03603691 01S/04W-03603691 01S/04W-03603693 01N/04W-3603786 01N/04W- | W-15R03S 12K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | ANDERSON Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1013.00 1053.84 1185.56 1923.00 2331.92 | 123.2 169.7 312 | 889.8 884.14 | 12/18/2013 | | | | -7.4 | |
| 3602422 154W02K0 3602400 1N4W32N 3603792 01N/05W- 3600710 2N5W19K0 3601844 1N5W03H0 3602821 1N5W03A0 3600712 1N4W08M0 3602206 1N4W06H0 3602205 1N4W06H0 3602844 2N4W08M0 3603580 01N/04W- 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | 2K08S 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | Antil Well #6 Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1053.84 1185.56 1923.00 2331.92 | 169.7 312 | 884.14 | | 122 E | 222 - | 10/17/0011 | | Pressure Zone North of Santa Ana Wash |
| 3602400 1N4W32N 3603792 01N/05W- 3600710 2N5W19K0 3601844 1N5W03H0 3602821 1N5W03A0 3600712 1N4W08M0 3600711 1N4W06H0 3602206 1N4W06H0 3602205 1N4W06H0 3603580 01N/04W- 3603579 01N/04W- 3603688 01S/04W- 3603689 01S/04W- 3603690 01S/04W- 3603691 01S/04W- 3603692 01S/04W- 3603693 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | 32N01S 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S 06H01S | Baseline Well CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1185.56 1923.00 2331.92 | 312 | | 10/10/10010 | 123.5 | 889.5 | 12/17/2014 | -0.3 | Bunker Hill II West of Mentone Fault |
| 3603792 01N/05W- 3600710 2N5W19K0 3601844 1N5W03H1 3602821 1N5W03A1 3600712 1N4W08W1 3600711 1N4W06H1 3602206 1N4W06H1 3602205 1N4W06H1 3602844 2N4W08W1 3603580 01N/04W- 3603579 01N/04W- 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | 5W-03A 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S | CAJON 4 Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1923.00 2331.92 | | 972 56 | 12/18/2013 | 185.3 | 868.54 | 12/17/2014 | -15.6 | Pressure Zone North of Santa Ana Wash |
| 3600710 2N5W19Kt 3601844 1N5W03Ht 3602821 1N5W03At 3600712 1N4W08Mt 3600711 1N4W07Ft 3602206 1N4W06Ht 3602205 1N4W06Ht 3602844 2N4W08Mt 3603579 01N/04W-t 3603688 01S/04W-t 3603689 01S/04W-t 3603690 01S/04W-t 3603691 01S/04W-t 3603693 01N/04W-t 3603694 01N/04W-t 3603786 01N/04W-t 3603786 01N/04W-t | 19K02S 03H02S 03A02S 08M01S 07F01S 06H02S | Cajon Canyon Well Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of San Bernardino, City of San Bernardino, City of | 2331.92 | 215 | 673.30 | 12/16/2013 | 324 | 861.56 | 12/15/2014 | -12.0 | Bunker Hill I Southwest of 215 Freeway |
| 3601844 1N5W03H 3602821 1N5W03A 3600712 1N4W08M 3600711 1N4W07F 3602206 1N4W06H 3602205 1N4W06H 3602844 2N4W08M 3603580 01N/04W- 3603579 01N/04W- 3603688 01S/04W- 3603689 01S/04W- 3603690 01S/04W- 3603691 01S/04W- 3603693 01N/04W- 3603694 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | 03H02S 03A02S 08M01S 07F01S 06H02S | Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of San Bernardino, City of San Bernardino, City of | | | 1708 | 12/16/2013 | 231.2 | 1691.8 | 12/15/2014 | -16.2 | Bunker Hill I Northeast of 215 Freeway |
| 3601844 1N5W03H 3602821 1N5W03A 3600712 1N4W08M 3600711 1N4W07F 3602206 1N4W06H 3602205 1N4W06H 3602844 2N4W08M 3603580 01N/04W- 3603579 01N/04W- 3603688 01S/04W- 3603689 01S/04W- 3603690 01S/04W- 3603691 01S/04W- 3603693 01N/04W- 3603694 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | 03H02S 03A02S 08M01S 07F01S 06H02S | Cajon Well #2 Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of San Bernardino, City of | | 111.2 | 2220.72 | 12/16/2013 | 94.6 | 2237.32 | 12/15/2014 | 16.6 | Bunker Hill I Northeast of 215 Freeway |
| 3602821 1N5W03AI 3600712 1N4W08M 3600711 1N4W07F(3602206 1N4W06HI 3602205 1N4W06HI 3602844 2N4W08M 3603580 01N/04W- 3603579 01N/04W- 3603691 01S/04W-(3603691 01S/04W-(3603692 01S/04W-(3603693 01N/04W-(3603694 01N/04W-(3603786 01N/04W-(| 03A02S 08M01S 07F01S 06H02S 06H01S | Cajon Well #3 Devil Canyon #1 Devil Canyon #2 | San Bernardino, City of | 1897.17 | 212.6 | 1684.57 | 12/16/2013 | 268 | 1629.17 | 12/15/2014 | -55.4 | Bunker Hill I Southwest of 215 Freeway |
| 3600712 1N4W08M 3600711 1N4W07F0 3602206 1N4W06H0 3602205 1N4W06H0 3602844 2N4W08M0 3603580 01N/04W0 3603579 01N/04W0 3603579 1N4W08P0 3603688 01S/04W0 3603689 01S/04W0 3603690 01S/04W0 3603691 01S/04W0 3603692 01S/04W0 3603693 01N/04W0 3603694 01N/04W0 3603786 01N/04W0 | 08M01S 07F01S 06H02S 06H01S | Devil Canyon #1 Devil Canyon #2 | | 1894.00 | 218 | 1676 | 12/16/2013 | 225 | 1669 | 12/15/2014 | -7.0 | Bunker Hill I Southwest of 215 Freeway |
| 3600711 1N4W07F0 3602206 1N4W06H0 3602205 1N4W06H0 3602844 2N4W08M0 3603580 01N/04W0 3603579 01N/04W0 36036712 1N4W08P0 3603688 01S/04W0 3603689 01S/04W0 3603690 01S/04W0 3603691 01S/04W0 3603692 01S/04W0 3603693 01N/04W0 3603786 01N/04W0 3603786 01N/04W0 | 07F01S 06H02S 06H01S | Devil Canyon #2 | San Bernardino, City of | 1530.00 | 170.2 | 1359.8 | 12/16/2013 | 188.2 | 1341.8 | 12/15/2014 | -18.0 | Bunker Hill I Northeast of 215 Freeway |
| 3602206 1N4W06H 3602205 1N4W06H 3602844 2N4W08M 3603580 01N/04W- 3603579 01N/04W- 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 | 06H02S 06H01S | • | San Bernardino, City of | 1621.96 | 154.1 | 1467.86 | 12/16/2013 | 165.9 | 1456.06 | 12/15/2014 | -11.8 | Bunker Hill I Northeast of 215 Freeway |
| 3602205 1N4W06H 3602844 2N4W08M 3603580 01N/04W- 3603579 01N/04W- 3602712 1N4W08P0 3603688 01S/04W-0 3603689 01S/04W-0 3603691 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603786 01N/04W-0 | 06H01S | Devil Canyon #3 | San Bernardino, City of | 1888.46 | 27.5 | 1860.96 | 12/16/2013 | 27.4 | 1861.06 | 12/15/2014 | 0.1 | Bunker Hill I Northeast of 215 Freeway |
| 3602844 2N4W08M 3603580 01N/04W- 3603579 01N/04W- 3602712 1N4W08P(3603688 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-1 3603694 01N/04W-1 3603786 01N/04W-1 | | Devil Canyon #4 | San Bernardino, City of | 1903.44 | 33.4 | 1870.04 | 12/16/2013 | 41 | 1862.44 | 12/15/2014 | -7.6 | Bunker Hill I Northeast of 215 Freeway |
| 3603580 01N/04W- 3603579 01N/04W- 3602712 1N4W08P0 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | 08M01S | Devil Canyon #5 | San Bernardino, City of | 1549.00 | 168.6 | 1380.4 | 12/16/2013 | 180 | 1369 | 12/15/2014 | | Bunker Hill I Northeast of 215 Freeway |
| 3603579 01N/04W- 3602712 1N4W08P0 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 | | DEVIL CANYON 6 | San Bernardino, City of | 2042.00 | 21 | 2021 | 12/16/2013 | 28.3 | 2013.7 | 12/15/2014 | -7.3 | Bunker Hill I Northeast of 215 Freeway |
| 3602712 1N4W08P0 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-3603694 01N/04W-3603786 01N/04W-3603786 01N/04W-3603786 | | DEVIL CANYON 7 | San Bernardino, City of | 2037.00 | 23.3 | 2013.7 | 12/16/2013 | 19.4 | 2017.6 | 12/15/2014 | 3.9 | Bunker Hill I Northeast of 215 Freeway |
| 3603688 01S/04W-0 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | | Ellena Bros. | San Bernardino, City of | 1477.96 | 147 | 1330.96 | 12/16/2013 | 201.8 | 1276.16 | 12/15/2014 | -54.8 | Bunker Hill I Northeast of 215 Freeway |
| 3603689 01S/04W-0 3603690 01S/04W-0 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-0 3603694 01N/04W-0 3603786 01N/04W-0 3603786 01N/04W-0 | | EPA EXTRAC WELL 001 | San Bernardino, City of | 1093.90 | 239.2 | 854.7 | 12/17/2013 | 239.2 | 854.7 | 12/16/2014 | 0.0 | Pressure Zone North of Santa Ana Wash |
| 3603690 01\$/04W-0 3603691 01\$/04W-0 3603692 01\$/04W-0 3603693 01N/04W-3603694 01N/04W-3603786 01N/04W-3603786 01N/04W- | | EPA EXTRAC WELL 002 | San Bernardino, City of | 1091.70 | 224.2 | 867.5 | 12/17/2013 | 226.3 | 865.4 | 12/16/2014 | -2.1 | Pressure Zone North of Santa Ana Wash |
| 3603691 01S/04W-0 3603692 01S/04W-0 3603693 01N/04W-3603694 01N/04W-3603786 01N/04W-3603786 01N/04W- | | EPA EXTRAC WELL 003 | San Bernardino, City of | 1090.20 | 235 | 855.2 | 12/17/2013 | 238 | 852.2 | 12/16/2014 | -3.0 | Pressure Zone North of Santa Ana Wash |
| 3603692 01S/04W-0 3603693 01N/04W- 3603694 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | | EPA EXTRAC WELL 004 | San Bernardino, City of | 1086.30 | 216.4 | 869.9 | 12/17/2013 | 217.6 | 868.7 | 12/16/2014 | -1.2 | Pressure Zone North of Santa Ana Wash |
| 3603693 01N/04W- 3603694 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | | EPA EXTRAC WELL 005 | San Bernardino, City of | 1083.30 | 197.1 | 886.2 | 12/17/2013 | 200.3 | 883 | 12/16/2014 | -3.2 | Pressure Zone North of Santa Ana Wash |
| 3603694 01N/04W- 3603786 01N/04W- 3603786 01N/04W- | | EPA EXTRAC WELL 006 | San Bernardino, City of | 1396.60 | 161.7 | 1234.9 | 12/17/2013 | 195.2 | 1201.4 | 12/16/2014 | -33.5 | Bunker Hill II West of Mentone Fault |
| 3603786 01N/04W- 3603786 01N/04W- | | EPA EXTRAC WELL 007 | San Bernardino, City of | 1404.50 | 167.5 | 1237 | 12/17/2013 | 200.6 | 1203.9 | 12/16/2014 | -33.1 | Bunker Hill II West of Mentone Fault |
| 3603786 01N/04W- | | EPA EXTRAC WELL 108 | San Bernardino, City of | 1119.30 | | 836.3 | | 282.4 | 836.9 | 12/16/2014 | | Pressure Zone North of Santa Ana Wash |
| | | EPA EXTRAC WELL 108-S | San Bernardino, City of | 1119.30 | 260.1 | 859.2 | 12/17/2013 | 263.6 | 855.7 | 12/16/2014 | | Bunker Hill II West of Mentone Fault |
| 3603787 01N/04W- | | EPA EXTRAC WELL 109 | San Bernardino, City of | 1137.10 | 312.1 | 825 | 12/16/2013 | 324.5 | 812.6 | 12/17/2014 | -12.4 | Bunker Hill II West of Mentone Fault |
| · | | EPA EXTRAC WELL 110 | San Bernardino, City of | 1146.20 | 318.8 | 827.4 | 12/16/2013 | 378.3 | 767.9 | 12/17/2014 | -59.5 | Bunker Hill II West of Mentone Fault |
| 3603789 01N/04W- | | EPA EXTRAC WELL 111 | San Bernardino, City of | 1165.70 | 343 | 822.7 | 12/16/2013 | 395.7 | 770 | 12/17/2014 | -52.7 | Bunker Hill II West of Mentone Fault |
| G363790 01N/04W- | | EPA EXTRAC WELL 112 | San Bernardino, City of | 1181.80 | 474.9 | 706.9 | 12/16/2013 | 475.4 | 706.4 | 12/17/2014 | -0.5 | Bunker Hill I Southwest of 215 Freeway |
| 3600729 1N4W35M | | Gilbert Street Well | San Bernardino, City of | 1123.54 | 252.9 | 870.64 | 12/18/2013 | 257 | 866.54 | 12/17/2014 | -4.1 | Pressure Zone North of Santa Ana Wash |
| 3601316 01S/04W-2 | | INTER CITY MUTUAL 08 | San Bernardino, City of | 1028.00 | 138.8 | 889.2 | 12/18/2013 | 138.9 | 889.1 | 12/17/2014 | -0.1 | Bunker Hill II West of Mentone Fault |
| Find Lat long | | IVDA WELL 11 | San Bernardino, City of | 1140.00 | 172.5 | 967.5 | 12/18/2013 | 196.7 | 943.3 | 12/17/2014 | -24.2 | Bunker Hill II West of Mentone Fault |
| | | KENWOOD 1 | San Bernardino, City of | 2350.80 | 169.5 | 2181.3 | 12/16/2013 | 205 | 2145.8 | 12/15/2014 | -35.5 | Bunker Hill I Northeast of 215 Freeway |
| · · · · · · · · · · · · · · · · · · · | | KENWOOD 2 | San Bernardino, City of | 2289.00 | 174.2 | 2114.8 | 12/16/2013 | 154.2 | 2134.8 | 12/15/2014 | 20.0 | Bunker Hill I Northeast of 215 Freeway |
| 3602401 1N4W27A | | Leroy Street Well | San Bernardino, City of | 1239.67 | 304 | 935.67 | 12/18/2013 | 316.8 | 922.87 | 12/17/2014 | | Bunker Hill II West of Mentone Fault |
| 3600727 1N4W26E0 | | Lynwood Well | San Bernardino, City of | 1236.23 | 292.9 | 943.33 | 12/18/2013 | 320 | 916.23 | | | Bunker Hill II West of Mentone Fault |
| 3603027 1N5W36J0 | | Lytle Creek #2 | San Bernardino, City of | 1252.25 | 382 | 870.25 | 12/16/2013 | 323 | 310.23 | ,, | | Lytle Basin Southeast of Barrier J |
| 3600713 1N5W36R0 | | Lytle Creek #3 | San Bernardino, City of | 1247.82 | 376.4 | 871.42 | 12/16/2013 | 382.1 | 865.72 | 12/15/2014 | -5.7 | Lytle Basin Southeast of Barrier J |
| 3601845 1N4W30M | | Mallory Well | San Bernardino, City of | 1319.84 | 348 | 971.84 | 12/17/2013 | 364 | 955.84 | 12/15/2014 | | Lytle Basin Southeast of Barrier J |
| | ROMO1S I | Meecham | San Bernardino, City of | 1129.94 | 228.6 | 901.34 | 12/17/2013 | 241.3 | 888.64 | 12/17/2014 | -12.7 | Pressure Zone North of Santa Ana Wash |
| 3600737 1S4W10N0 | | Mill & D | San Bernardino, City of | 1001.00 | 99.5 | 901.5 | 12/18/2013 | 157.3 | 843.7 | 12/17/2014 | -57.8 | Pressure Zone Santa Ana Wash |
| 3600319 1N4W31A | 1W-35L001S | Mt. Vernon | San Bernardino, City of | 1258.75 | 338.9 | 919.85 | | 348.9 | 909.85 | | | Bunker Hill I Southwest of 215 Freeway |

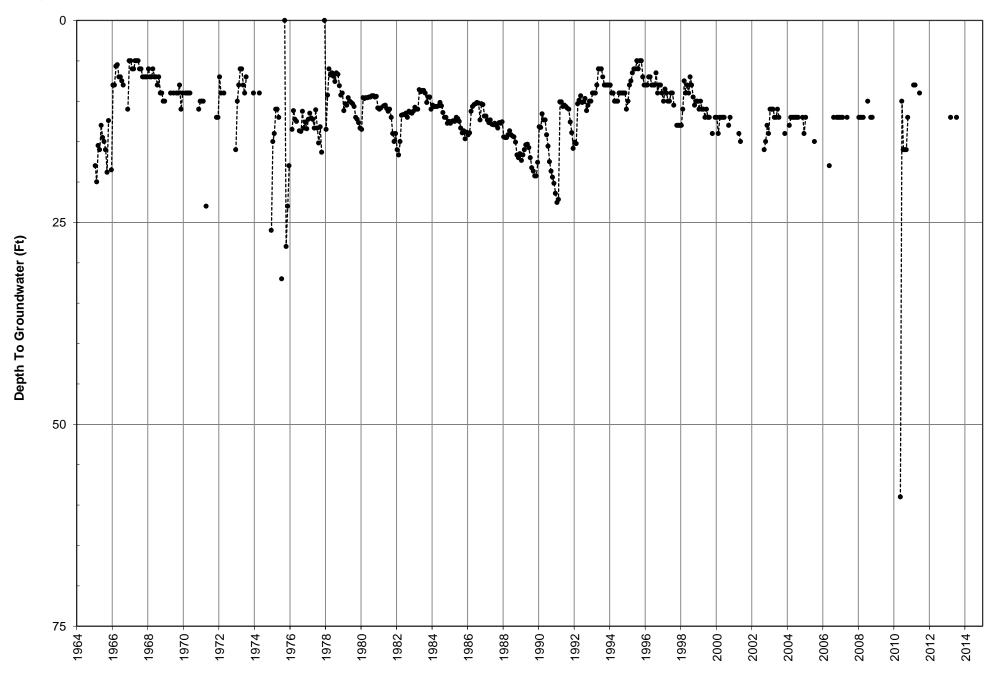
| | | | | | | 2013 | | | 2014 | | | |
|-----------------------|----------------------|----------------------------|---|---------------------------------|---------------------------|--|------------------|---------------------------|--|------------------|---|--|
| Recordation Number | State Well Number | Well Name | Owner Or Measuring Agency | Measuring Point Elevation | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Depth To Water (ft) | Groundwater Elevation (ft, AMSL) | Date Measured | Difference Fall 2012 to Fall 2013 | Sub_Basin_WCD |
| 3600714 | 1N4W16E01S | Newmark #1 | San Bernardino, City of | 1412.99 | 162.7 | 1250.29 | 12/16/2013 | 198.4 | 1214.59 | 12/15/2014 | -35.7 | Bunker Hill II West of Mentone Fault |
| 3600715 | 1N4W16E02S | Newmark #2 | San Bernardino, City of | 1405.26 | 158.8 | 1246.46 | 12/16/2013 | 194 | 1211.26 | 12/15/2014 | -35.2 | Bunker Hill II West of Mentone Fault |
| 3600716 | 1N4W16E03S | Newmark #3 | San Bernardino, City of | 1407.92 | 159.8 | 1248.12 | 12/17/2013 | 201 | 1206.92 | 12/16/2014 | -41.2 | Bunker Hill II West of Mentone Fault |
| 3602399 | 1N4W16E04S | Newmark #4 | San Bernardino, City of | 1413.57 | 159.6 | 1253.97 | 12/16/2013 | 195.3 | 1218.27 | 12/15/2014 | -35.7 | Bunker Hill II West of Mentone Fault |
| 3603206 | 1S4W04D02S | Olive & Garner | San Bernardino, City of | 1132.52 | 270 | 862.52 | 12/18/2013 | 247 | 885.52 | 12/15/2014 | 23.0 | Pressure Zone North of Santa Ana Wash |
| 3601117 | 1N4W35C03S | Perris Hill #4 | San Bernardino, City of | 1168.25 | 244.3 | 923.95 | 12/18/2013 | 260.6 | 907.65 | 12/17/2014 | -16.3 | Pressure Zone North of Santa Ana Wash |
| 3601115 | 1N4W26P03S | Perris Hill #5 | San Bernardino, City of | 1173.46 | 249.1 | 924.36 | 12/18/2013 | 260.1 | 913.36 | 12/17/2014 | -11.0 | Bunker Hill II West of Mentone Fault |
| 3602426 | 2N5W19Q01 | Vincent Well | San Bernardino, City of | 2314.32 | 110.4 | 2203.92 | 12/16/2013 | 108.4 | 2205.92 | 12/15/2014 | 2.0 | Bunker Hill I Northeast of 215 Freeway |
| 3600728 | 1N4W26E02S | Waterman Well | San Bernardino, City of | 1244.77 | 294.8 | 949.97 | 12/18/2013 | 313.2 | 931.57 | 12/17/2014 | -18.4 | Bunker Hill II West of Mentone Fault |
| 9900026 | 1N4W20M | #50, Paperboard | San Bernardino, City of / shallow wells | 1365.00 | 346.3 | 1018.7 | 10/14/2013 | | | | | Bunker Hill I Southwest of 215 Freeway |
| 9900046 | 1S4W23L | #53 Brier/Carnegie #2 | San Bernardino, City of / shallow wells | 1035.00 | 33.5 | 1001.5 | 5/16/2013 | | | | | Pressure Zone Santa Ana Wash |
| 9900043 | 1S4W22J | #55 Airport/Commercenter E | San Bernardino, City of / shallow wells | 1005.00 | 24.9 | 980.1 | 12/18/2013 | 24.3 | 980.7 | 12/17/2014 | 0.6 | Pressure Zone Santa Ana Wash |
| 9900041 | 1S4W23Q | #58 Hospitality/Harriman | San Bernardino, City of / shallow wells | 1027.80 | 22.3 | 1005.5 | 11/19/2013 | 24.7 | 1003.1 | 12/17/2014 | -2.4 | Pressure Zone Santa Ana Wash |
| 9900048 | 1S4W23N | #59 Hospitality/E Carnegie | San Bernardino, City of / shallow wells | 1020.00 | 50.4 | 969.6 | 11/19/2013 | 50.7 | 969.3 | 12/17/2014 | -0.3 | Pressure Zone Santa Ana Wash |
| 244701 | 01S/04W-23G | #60, Brier & Gifford | San Bernardino, City of / shallow wells | 1040.00 | 35.1 | 1004.9 | 11/19/2013 | 35.9 | 1004.1 | 9/17/2014 | -0.8 | Pressure Zone Santa Ana Wash |
| 3601015 | 1S3W18N02S | Deep Well Pump 1 | Southern California Edison | 0.00 | 196.19 | -196.19 | 12/1/2013 | 207.5 | -207.5 | 12/14/2014 | -11.3 | Bunker Hill II West of Mentone Fault |
| 3601014 | 1S3W18N03S | Deep Well Pump 2 | Southern California Edison | 0.00 | 232.98 | -232.98 | 11/1/2013 | 209.8 | -209.8 | 12/14/2014 | 23.2 | Bunker Hill II West of Mentone Fault |
| 3603795 | 01S03W18N06S | Mid Aquifer Pump A | Southern California Edison | 0.00 | 201.66 | -201.66 | 12/1/2013 | 197.1 | -197.1 | 8/14/2014 | 4.6 | Bunker Hill II West of Mentone Fault |
| 3603796 | 01S03W18N01S | MidAquifer Pump B | Southern California Edison | 0.00 | 190.79 | -190.79 | 12/1/2013 | 199 | -199 | 12/14/2014 | -8.2 | Bunker Hill II West of Mentone Fault |
| 9900138 | 1S3W15K01S | Church St.(Riverview) | U.S. Geological Survey/SBVMWD | 1378.78 | 193.31 | 1185.47 | 12/31/2013 | 221.6 | 1157.18 | 12/31/2014 | -28.3 | Bunker Hill II West of Mentone Fault |
| 9900110 | 1S4W20H05S | Colton Plunge Park | U.S. Geological Survey/SBVMWD | 990.00 | | | | | | | | |
| 9900136 | 1S4W22J04S | Commerce Center | U.S. Geological Survey/SBVMWD | 997.70 | | | | | | | | Pressure Zone Santa Ana Wash |
| 9900076 | 1N5W29Q03S | County Landfill | U.S. Geological Survey/SBVMWD | 1540.00 | | | | | | | | |
| 9900075 | 1N5W29Q02S | County Landfill | U.S. Geological Survey/SBVMWD | 1540.00 | | | | | | | | |
| 9900074 | 1N5W29Q01S | County Landfill | U.S. Geological Survey/SBVMWD | 1540.00 | | | | | | | | |
| 9900097 | 1S4W04E06S | Garner Park | U.S. Geological Survey/SBVMWD | 1121.28 | 226.11 | 895.17 | 12/31/2013 | 231.32 | 889.96 | 12/31/2014 | -5.2 | Pressure Zone North of Santa Ana Wash |
| 9900119 | 1S5W11F04S | Lilac Park | U.S. Geological Survey/SBVMWD | 1244.00 | | | | | | | | |
| 9900067 | 1N5W22N06S | Lower Linden Ponds | U.S. Geological Survey/SBVMWD | 1580.00 | | | | | | | | |
| 9900115 | 1S4W22D07S | Orangeshow & "E" St. | U.S. Geological Survey/SBVMWD | 977.47 | | | | | | | | Pressure Zone Santa Ana Wash |
| 9900101 | 1S4W08E04S | Rialto Avenue | U.S. Geological Survey/SBVMWD | 1110.00 | | | | | | | | |
| 9900104 | 1S4W10B04S | San Bernardino/Multi | U.S. Geological Survey/SBVMWD | 1017.70 | 63.69 | 954.01 | 12/31/2013 | 61.3 | 956.4 | 12/30/2014 | 2.4 | Pressure Zone Santa Ana Wash |
| | 1S4W02D08S | Sierra High School | U.S. Geological Survey/SBVMWD | 1078.88 | 163.76 | | | 166.7 | 912.18 | | -2.9 | Pressure Zone North of Santa Ana Wash |
| | 1N5W21K03S | Upper Linden Ponds | U.S. Geological Survey/SBVMWD | 1645.00 | | | - | | | - | | |
| | 1N5W21K04S | Upper Linden Ponds | U.S. Geological Survey/SBVMWD | 1645.00 | | | | | | | | |
| | 1N5W21K01S | Upper Linden Ponds | U.S. Geological Survey/SBVMWD | 1645.00 | | | | | | | | |
| 9900059 | 1N5W21K02S | Upper Linden Ponds | U.S. Geological Survey/SBVMWD | 1645.00 | | | | | | | | |
| 3600303 | 01N/05W-26A006S | #04A | West Valley Water District | 1400.00 | 280 | 1120 | 12/1/2013 | 315 | 1085 | 12/14/2014 | -35.0 | Bunker Hill II West of Mentone Fault |



B.V. Judson Index Well Hydrograph

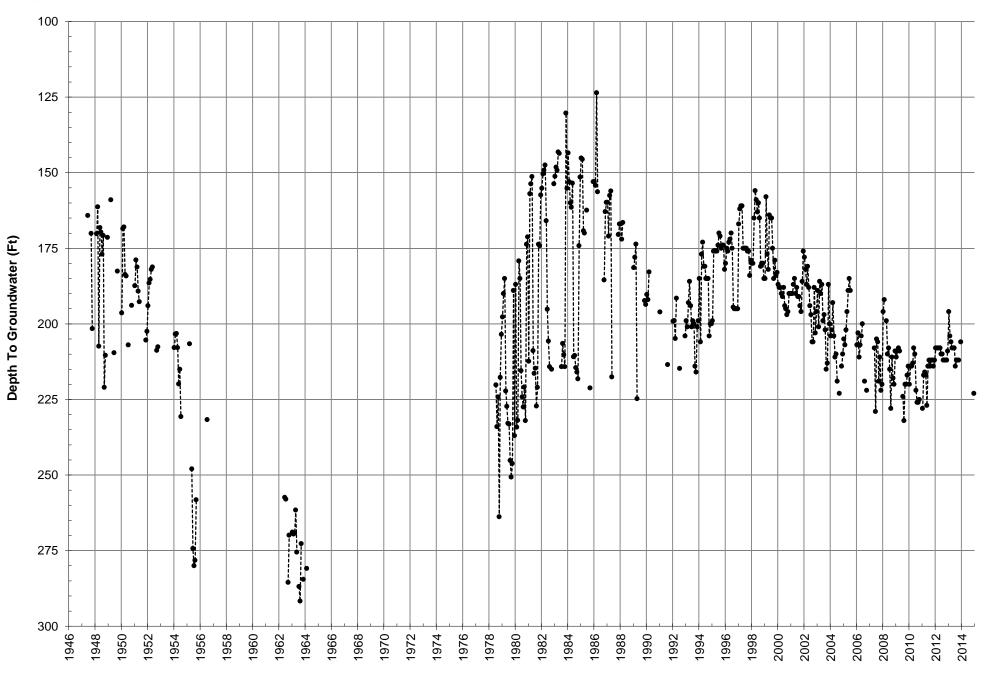


Mill Creek #0A Index Well Hydrograph



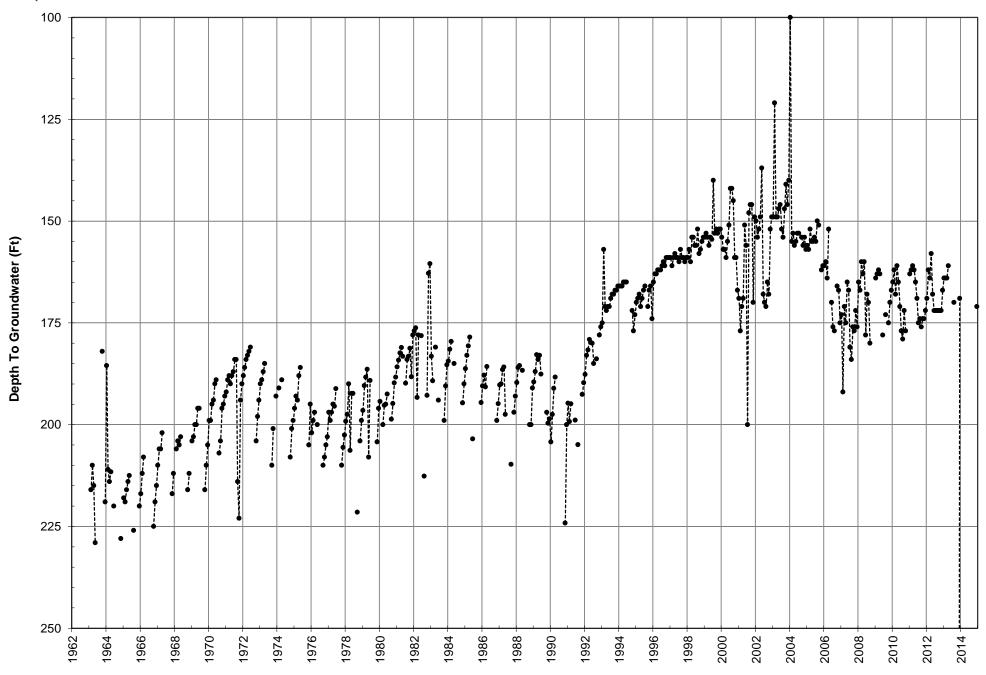


Lee Well Index Well Hydrograph



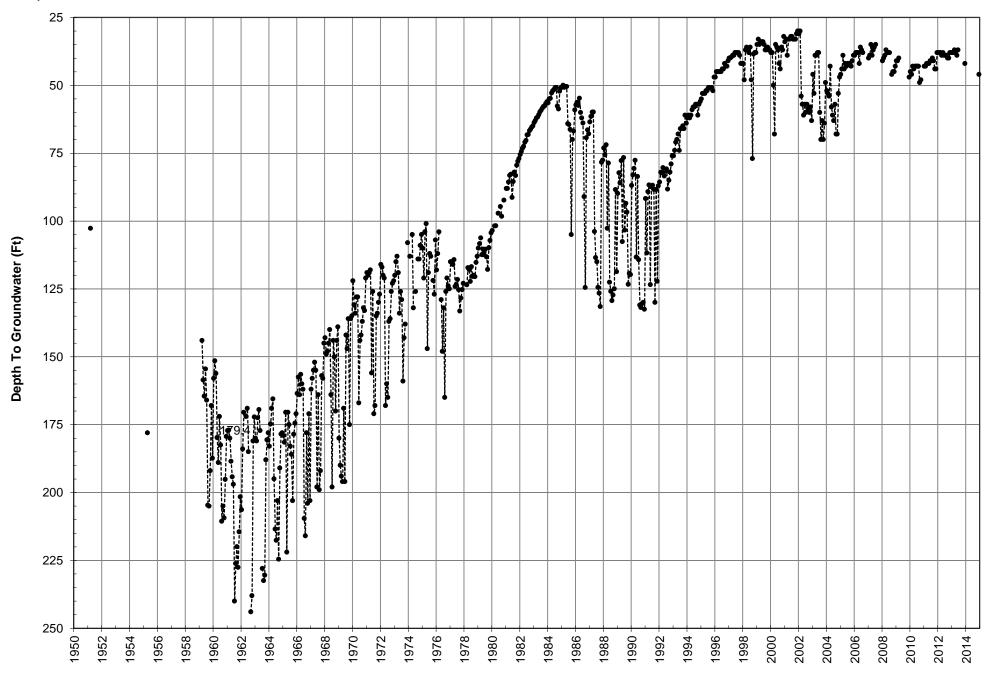


Redlands Heights Index Well Hydrograph



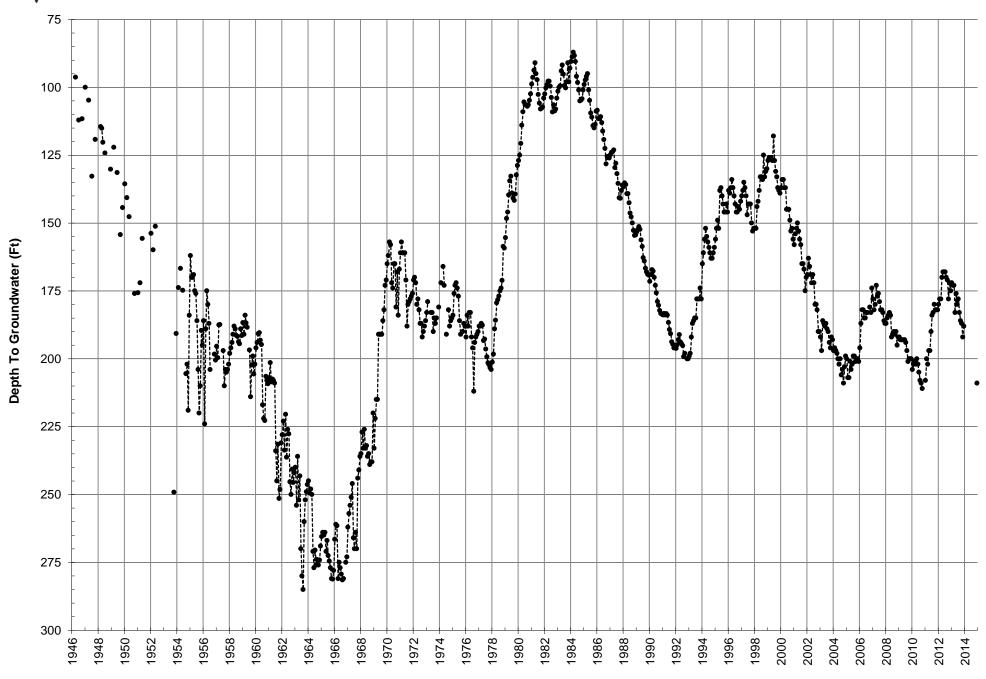


Well #16 Index Well Hydrograph



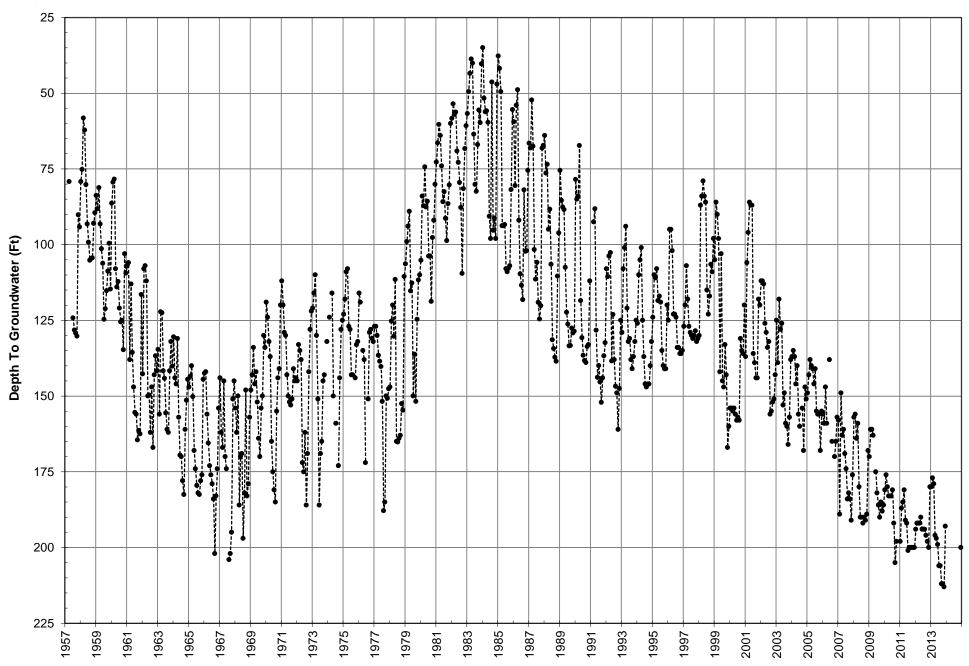


Well #32 Index Well Hydrograph





Well #34 Index Well Hydrograph



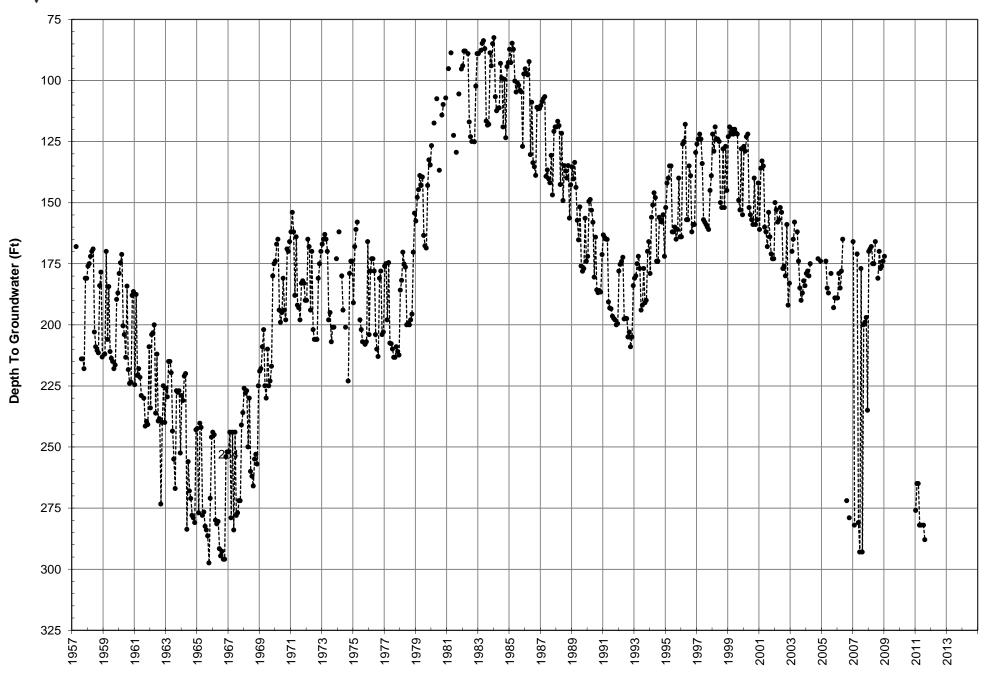


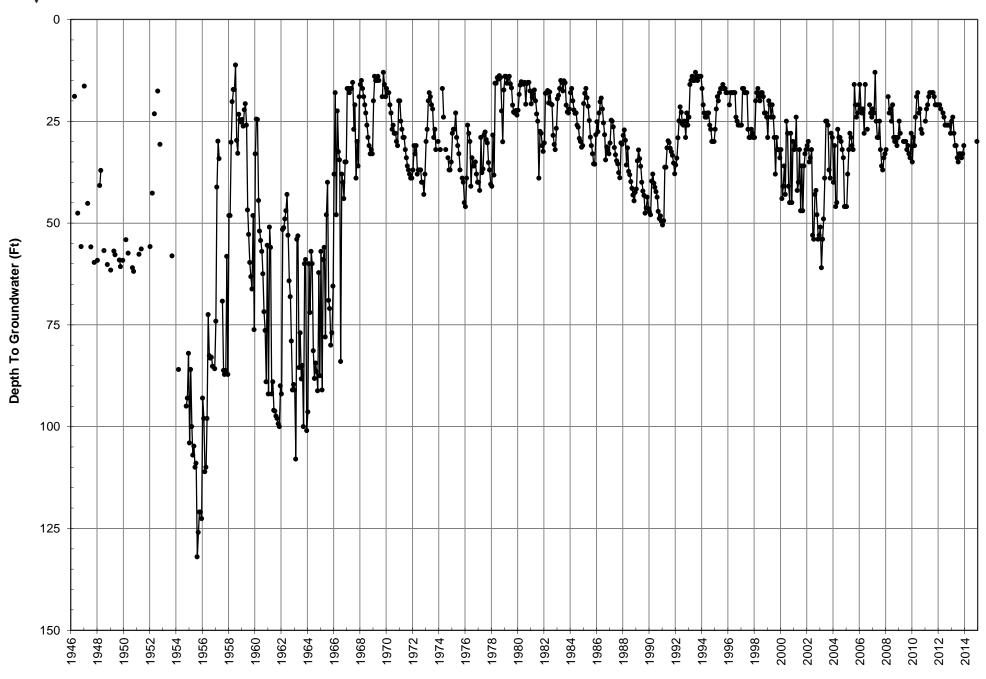
Well #35 Index Well Hydrograph





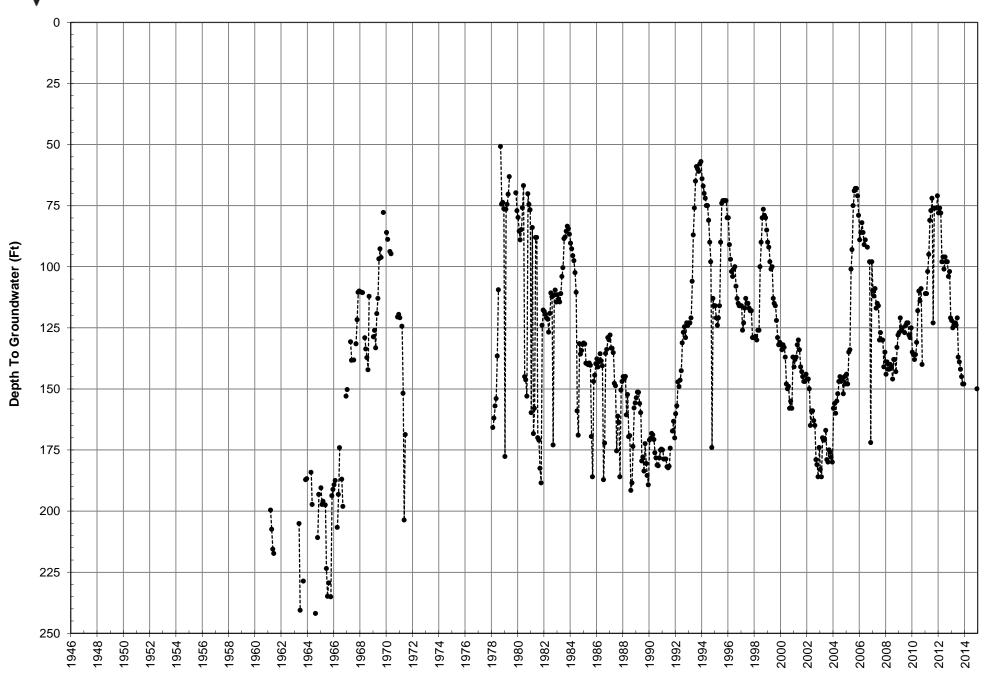
Well #41 Index Well Hydrograph



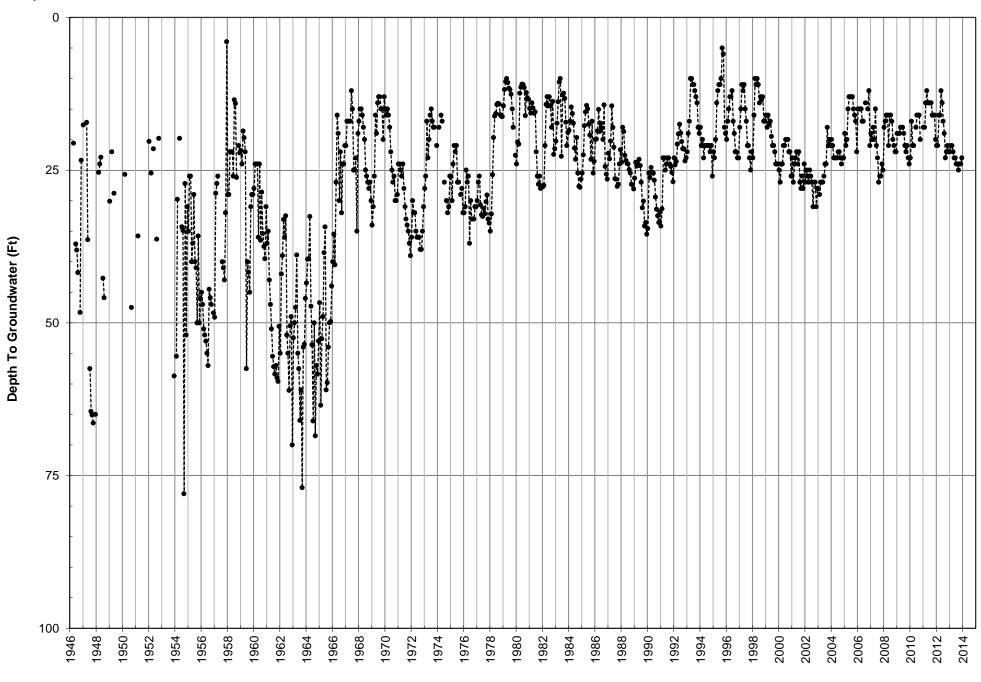




Agate #1 Index Well Hydrograph

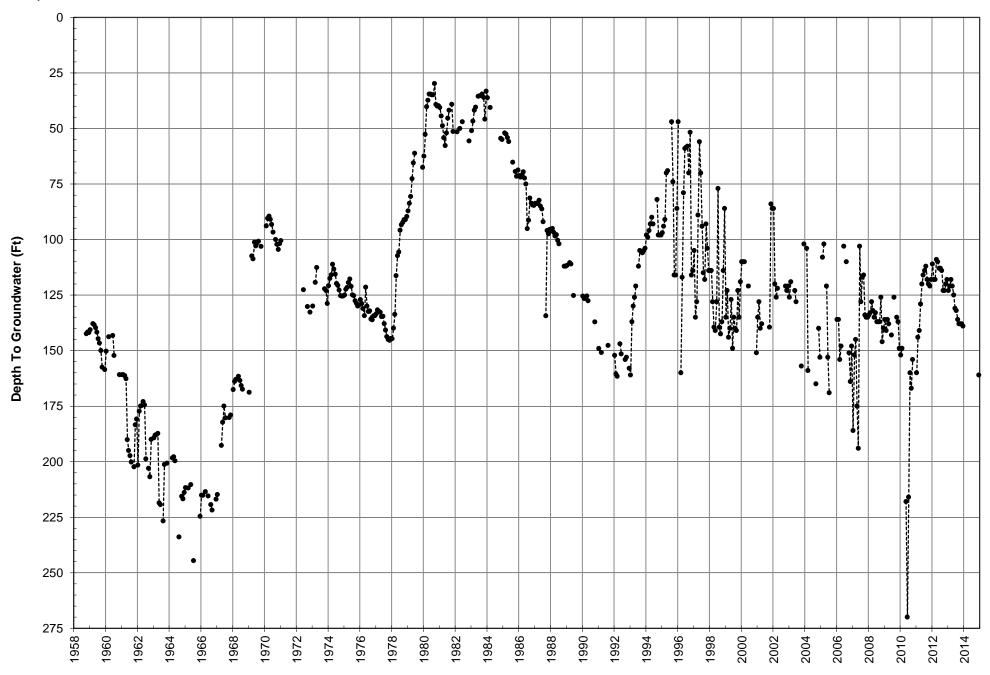


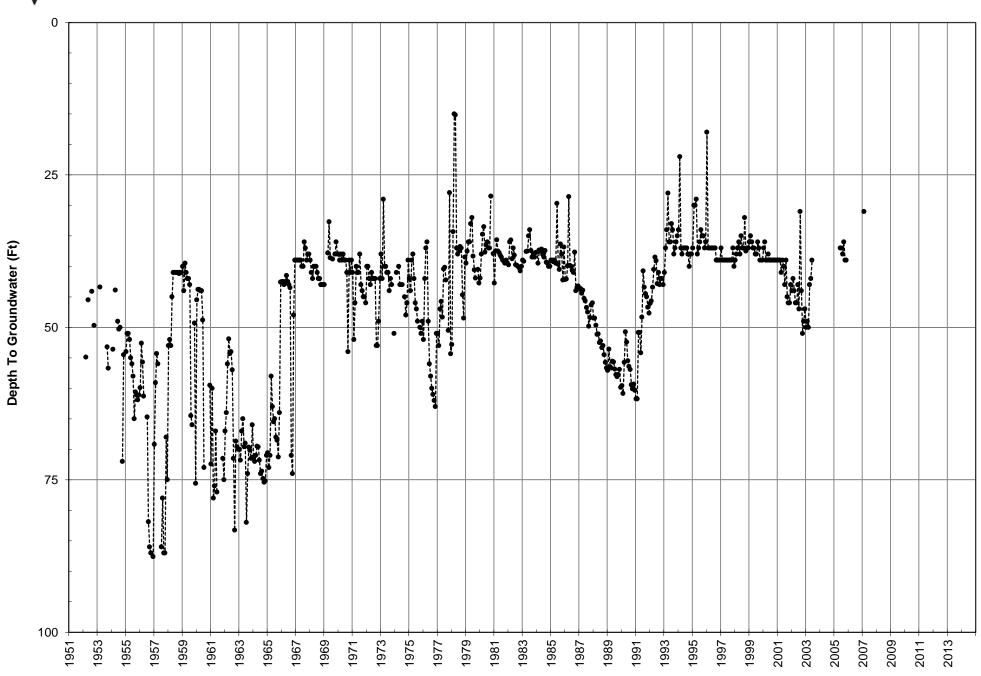
Maguet #1 Index Well Hydrograph





Orange St. Index Well Hydrograph

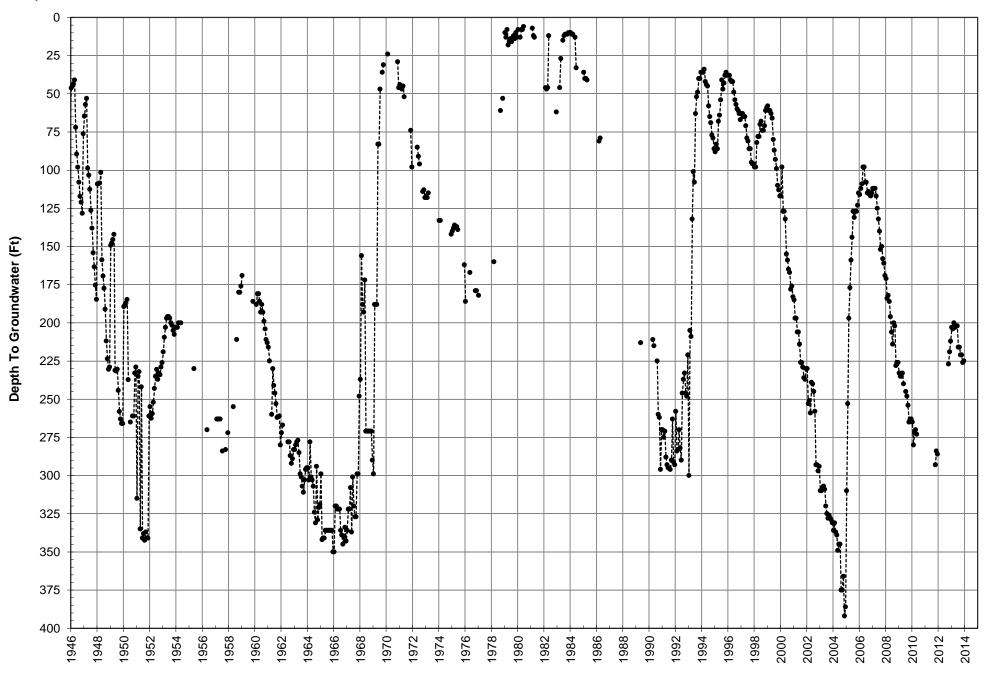






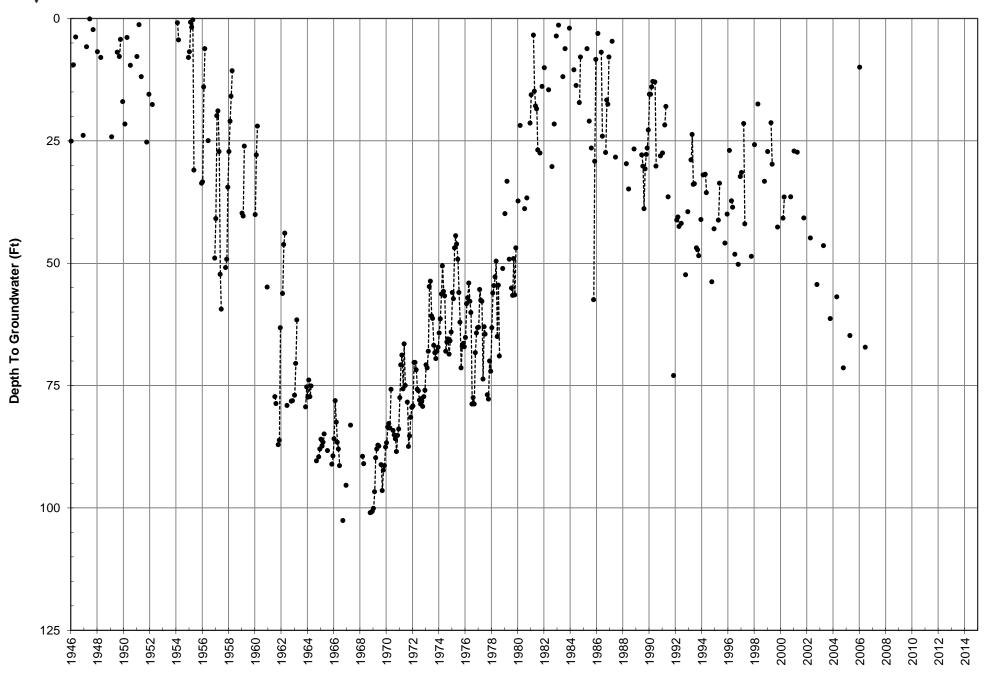
City No. 1 Index Well Hydrograph

City of Rialto



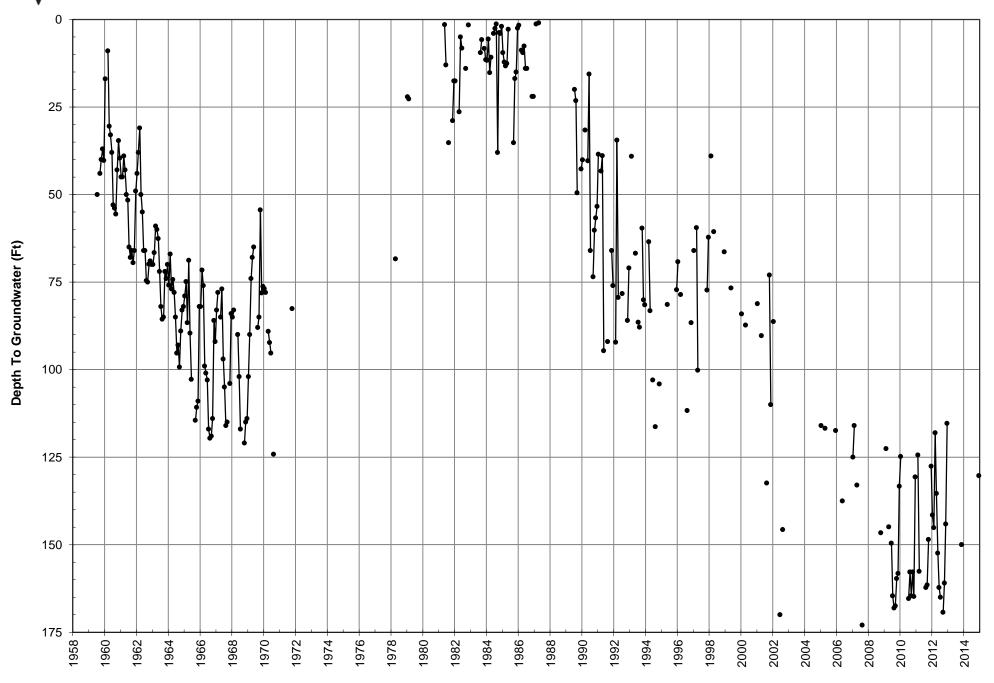
Thorne No. 10 Index Well Hydrograph

City of Riverside



Stewart No. 20 Index Well Hydrograph

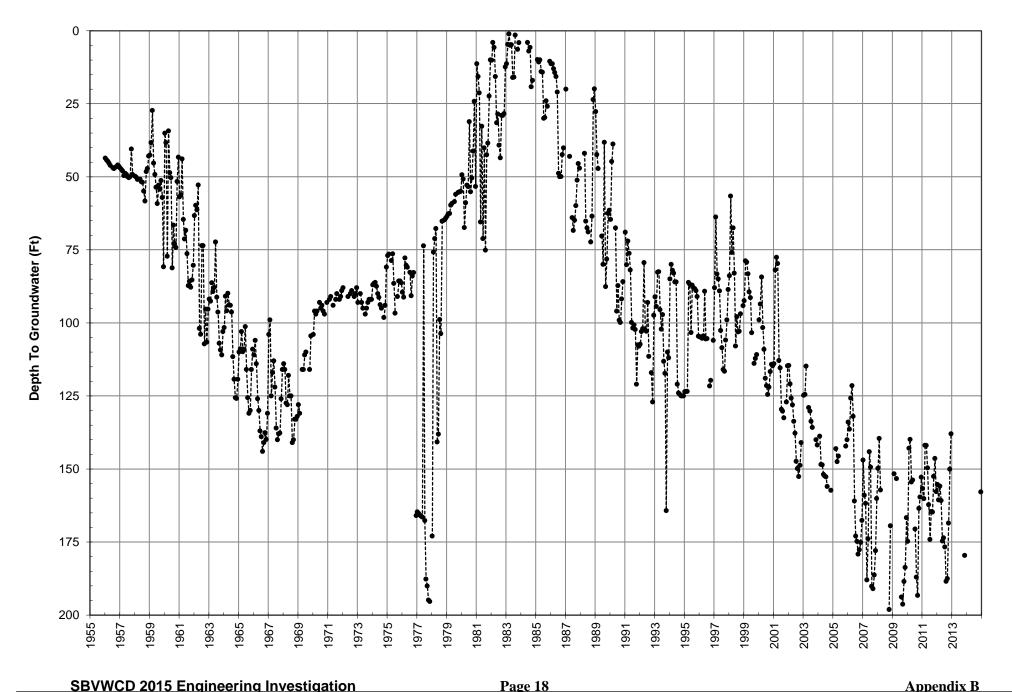
City of Riverside





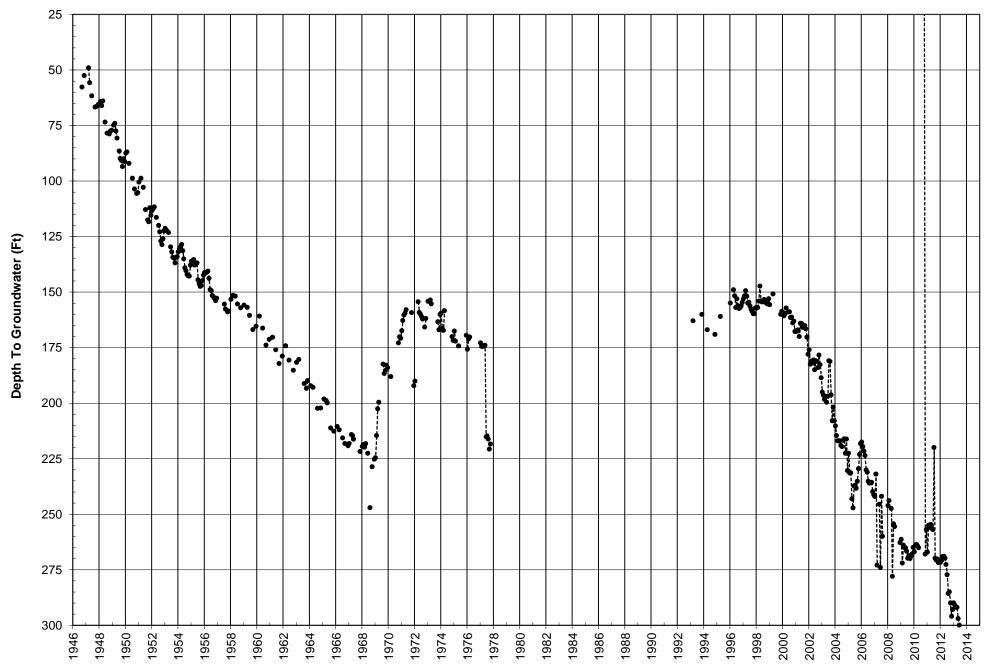
Cooley D Index Well Hydrograph

City of Riverside



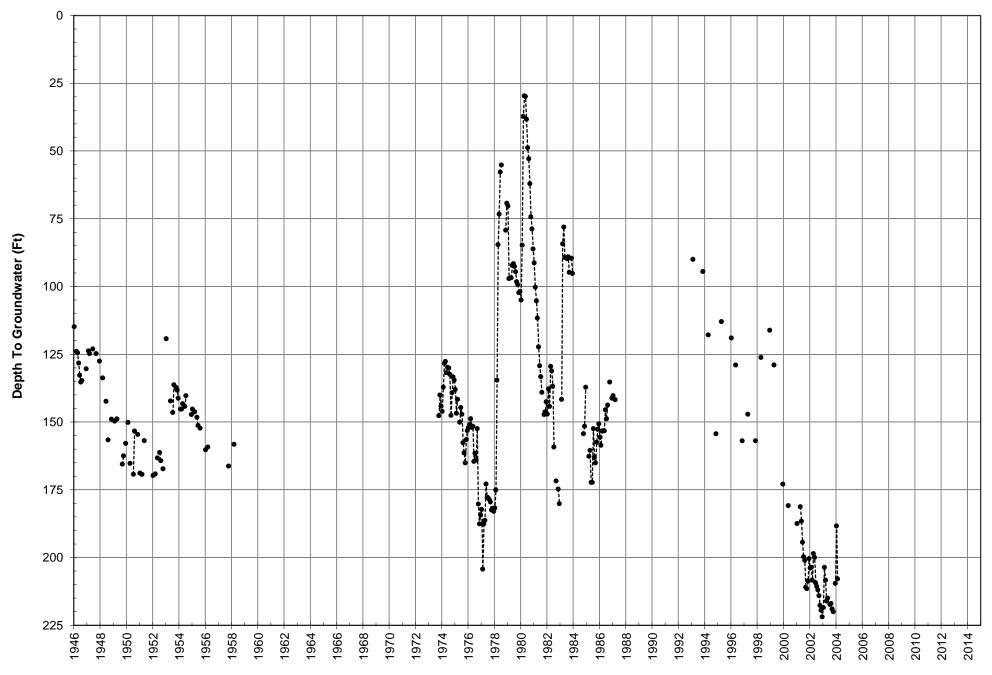


Baseline & California Index Well Hydrograph



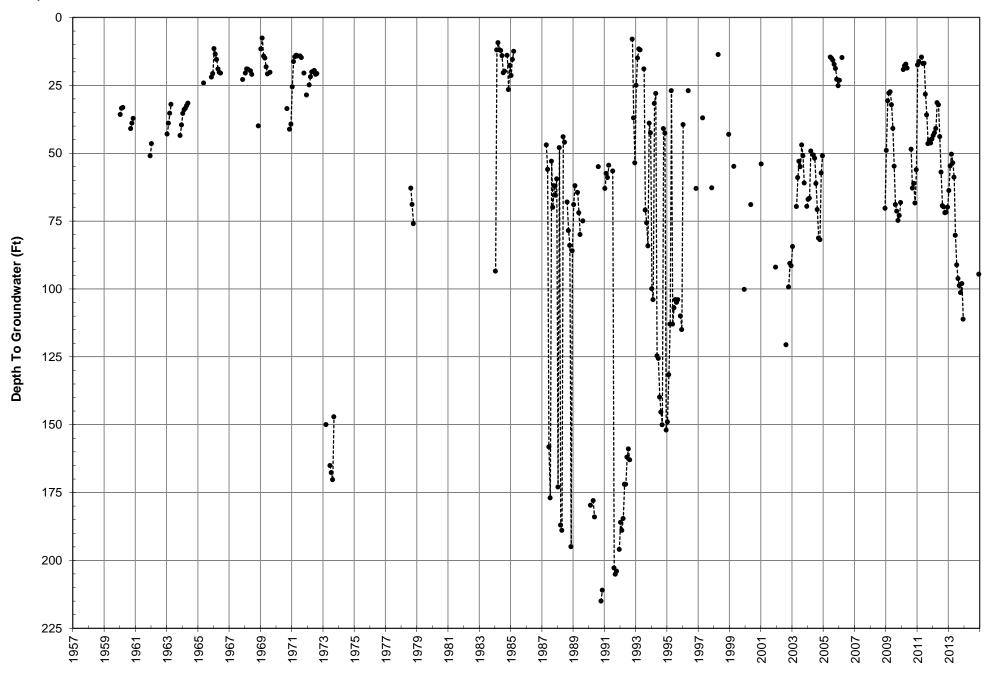


Cajon Well No. 1 Index Well Hydrograph



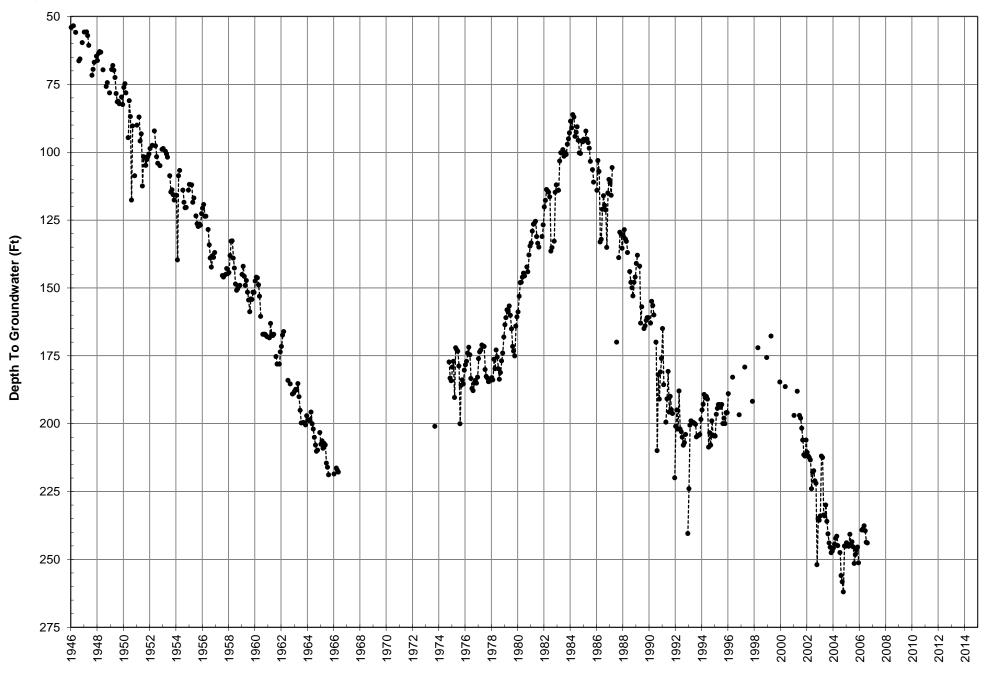


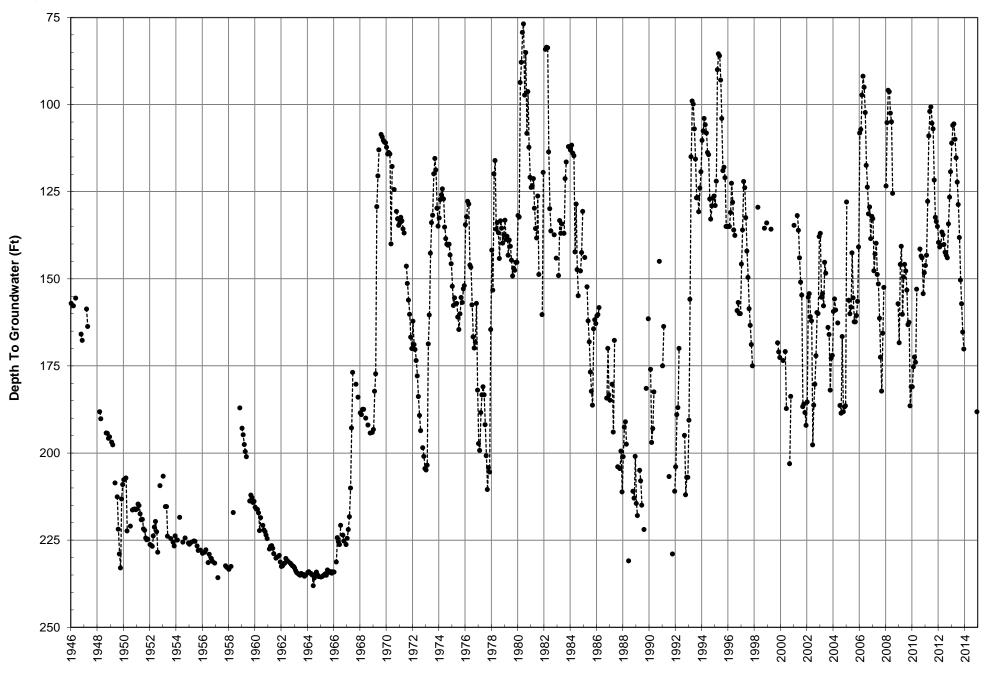
Cajon Canyon Index Well Hydrograph

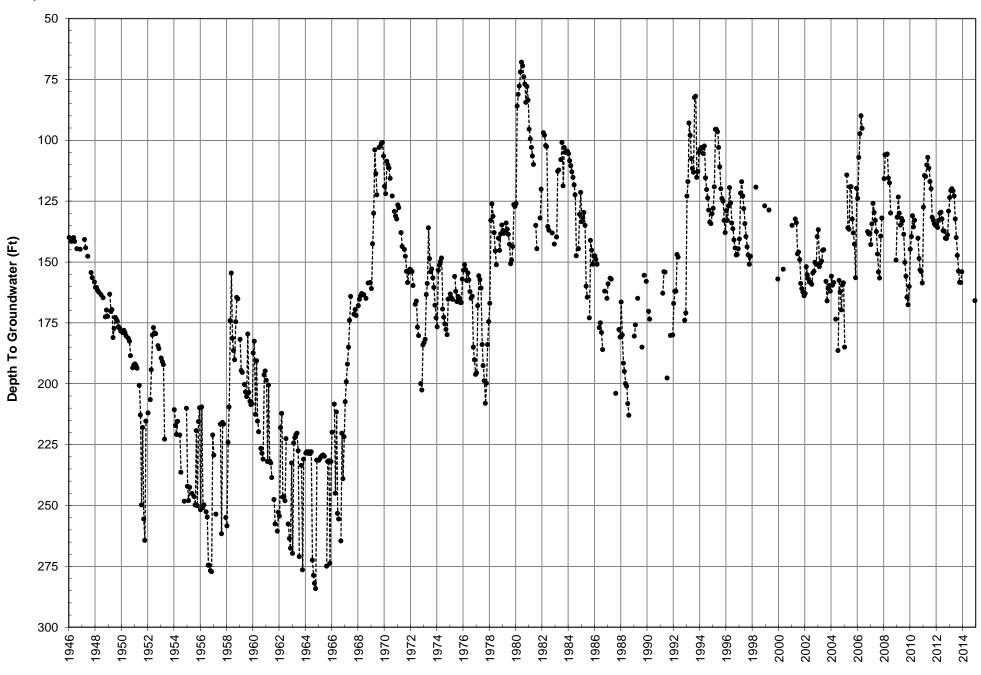




Perris Hill No. 3 Index Well Hydrograph

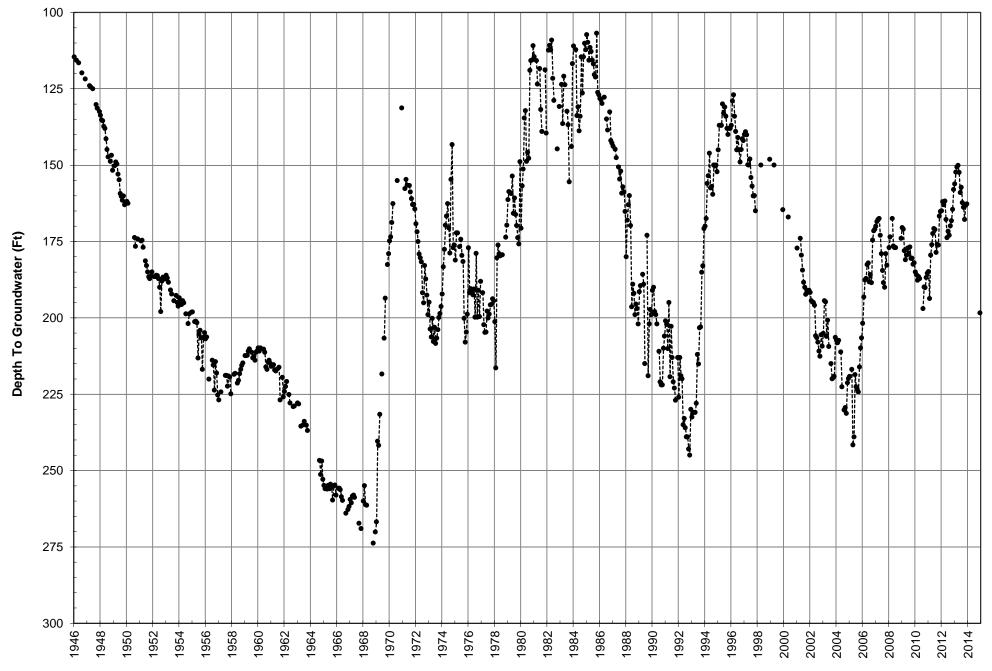






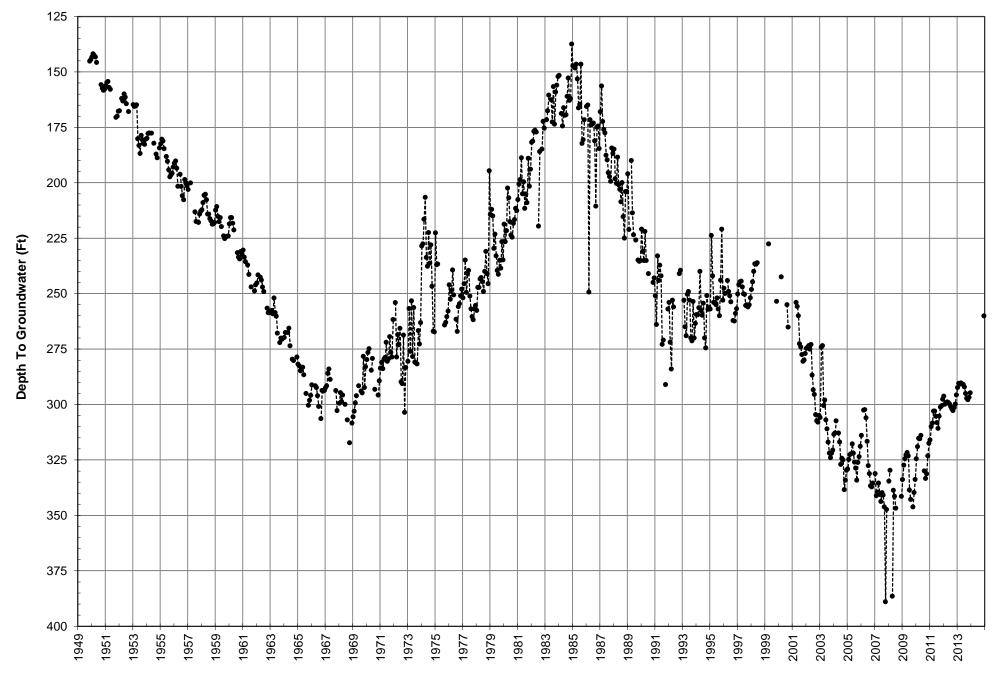


Newmark No. 1 Index Well Hydrograph





Waterman Ave. Index Well Hydrograph





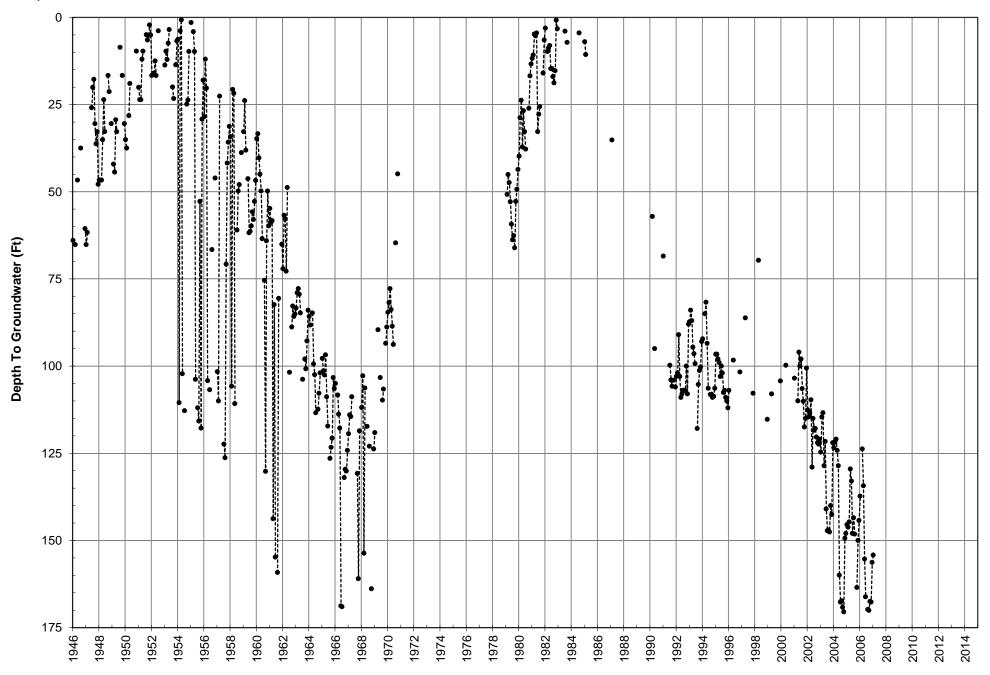
PaperBoard Index Well Hydrograph





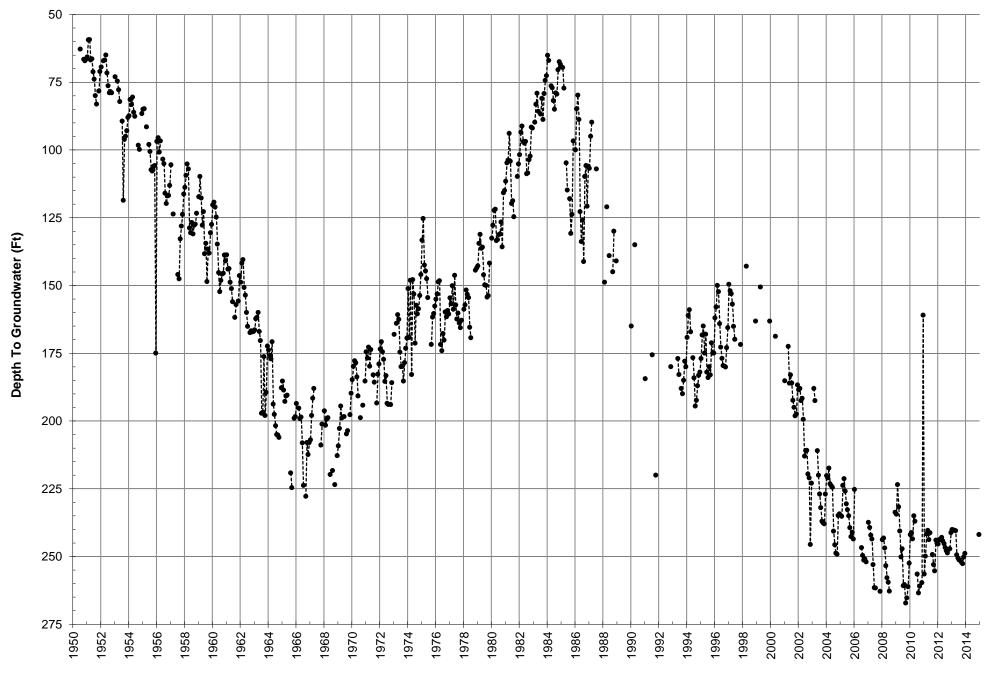


Antil No. 5 Index Well Hydrograph



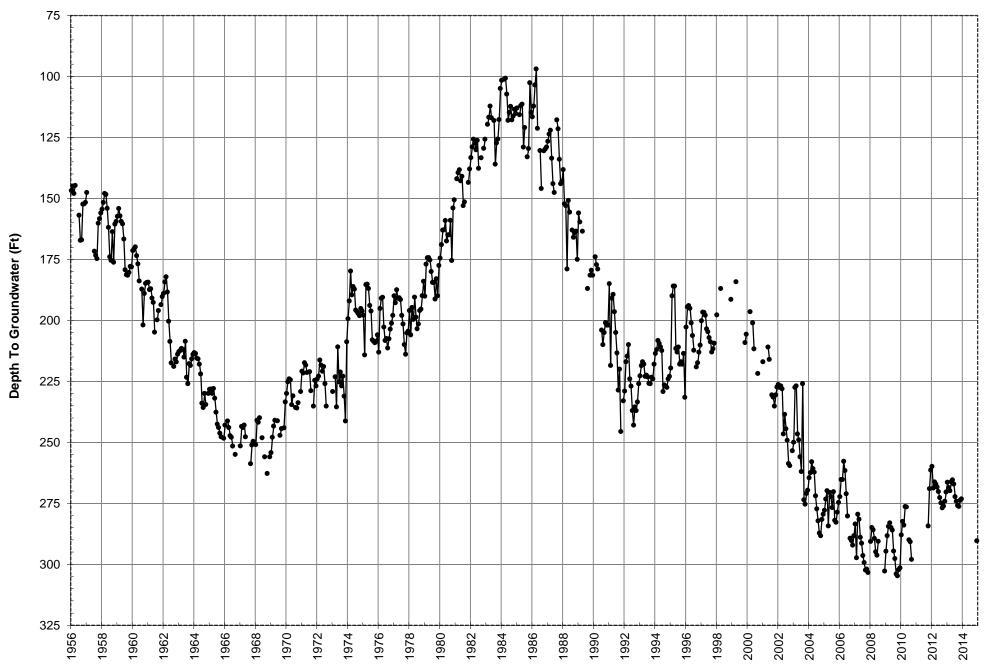


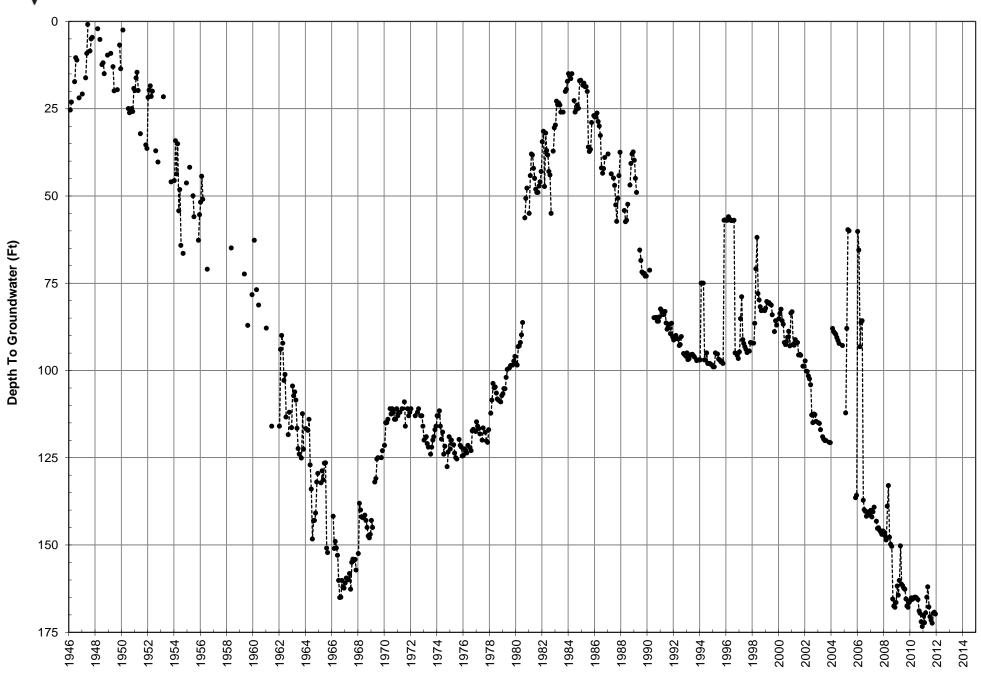
16th St. Index Well Hydrograph

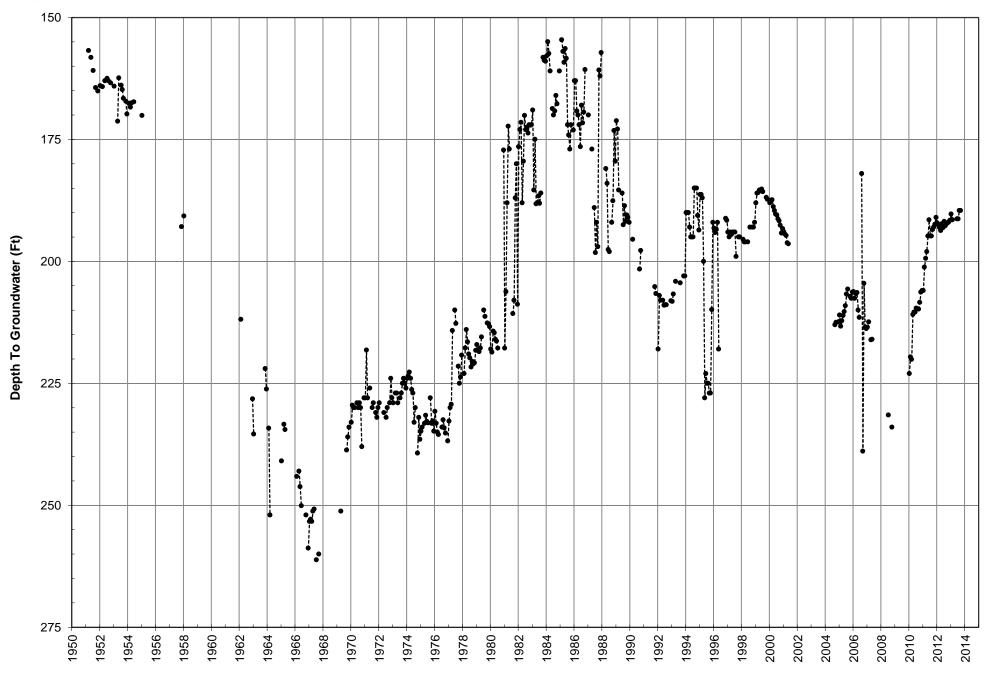




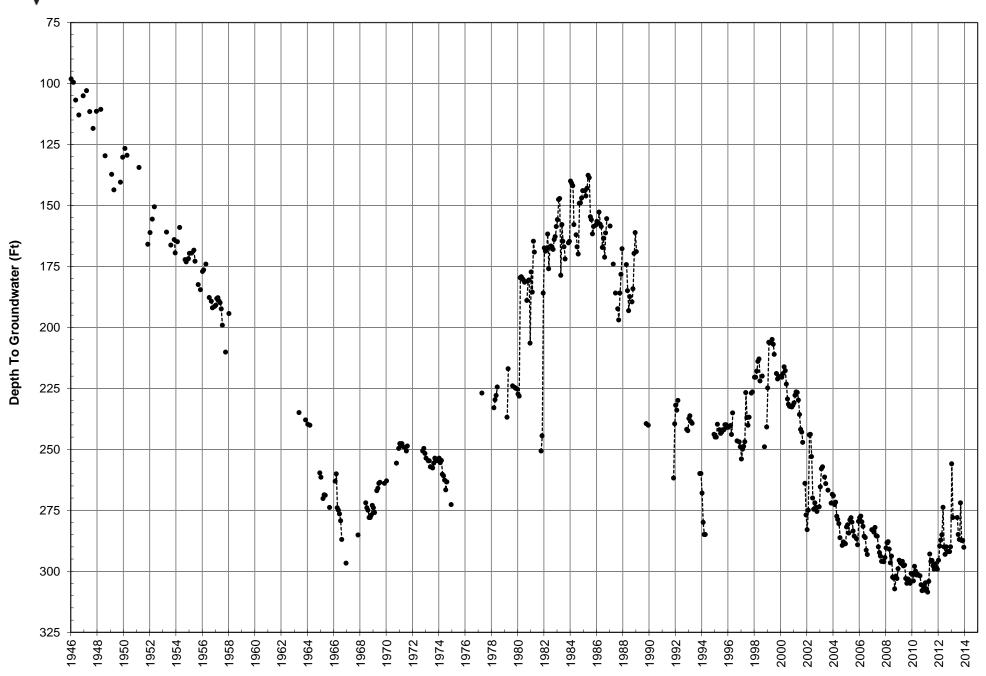
27th St. Index Well Hydrograph

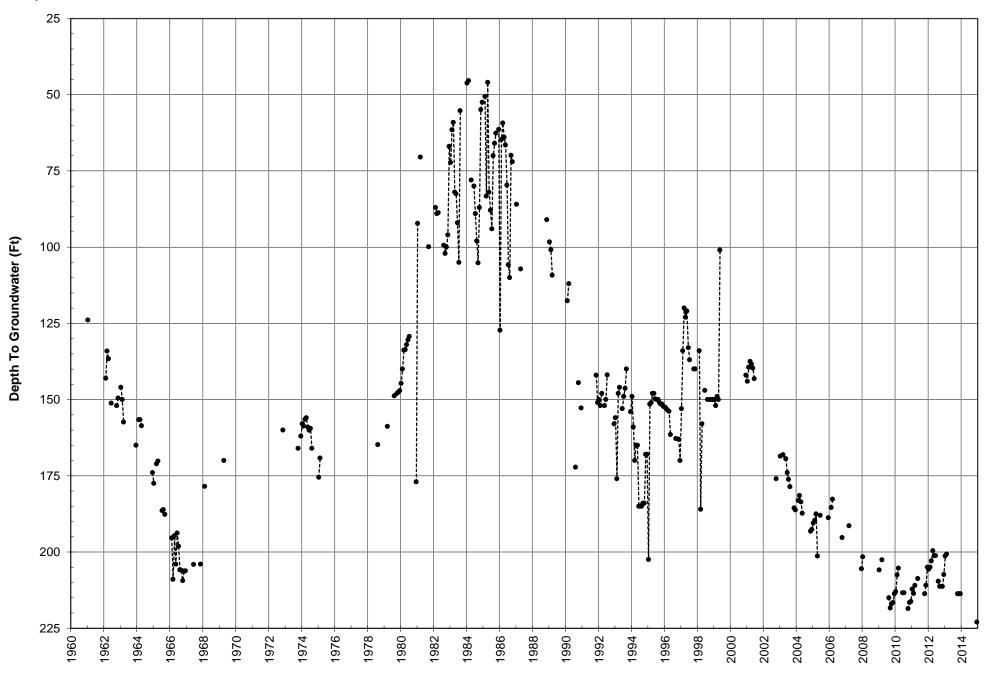


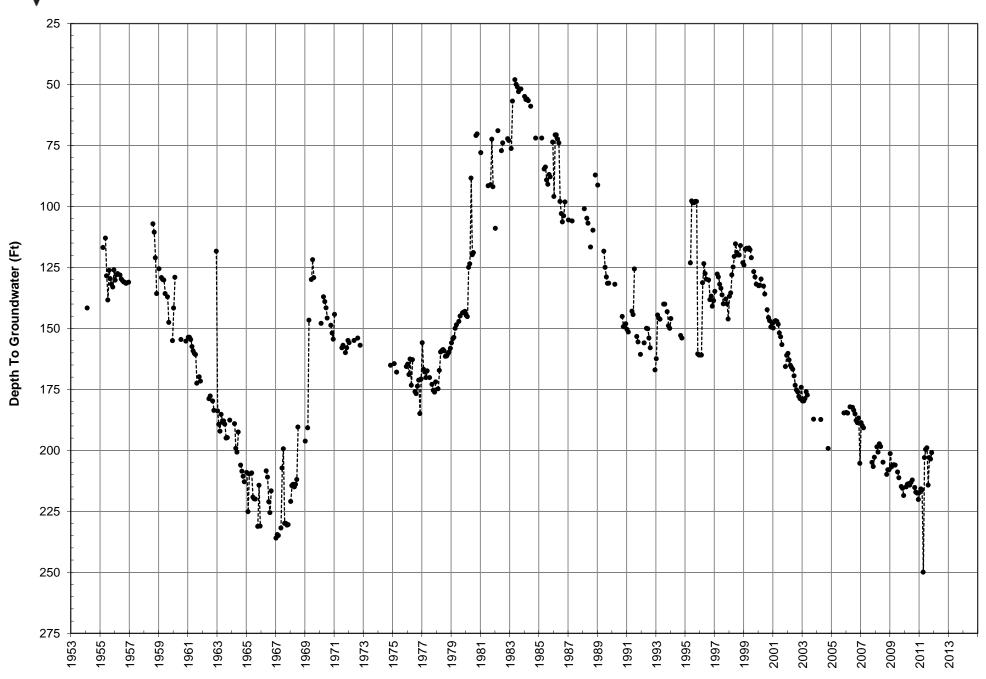


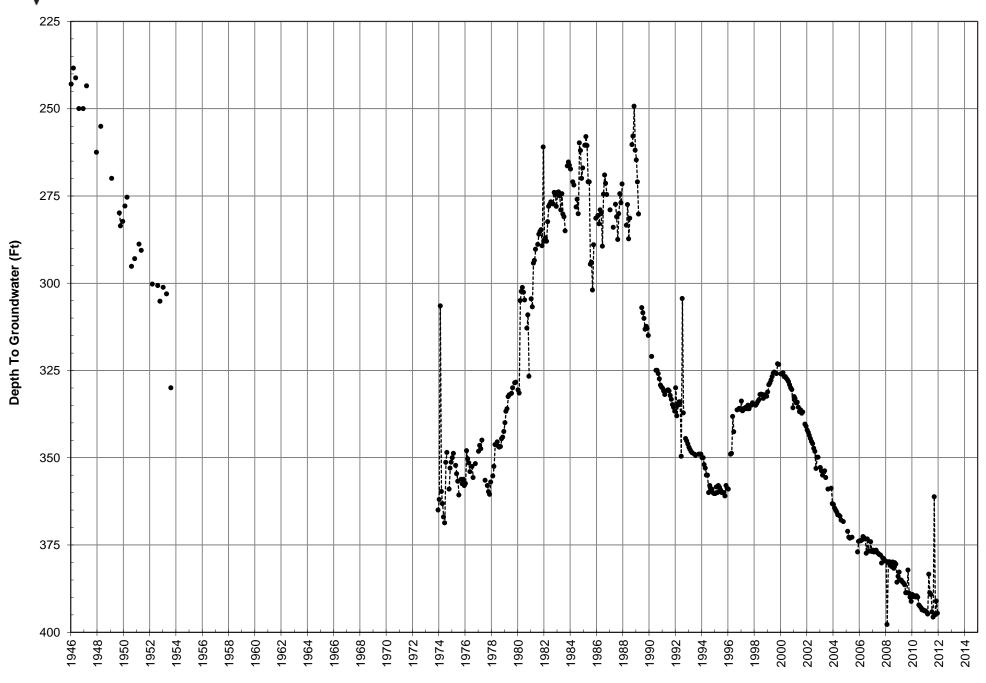


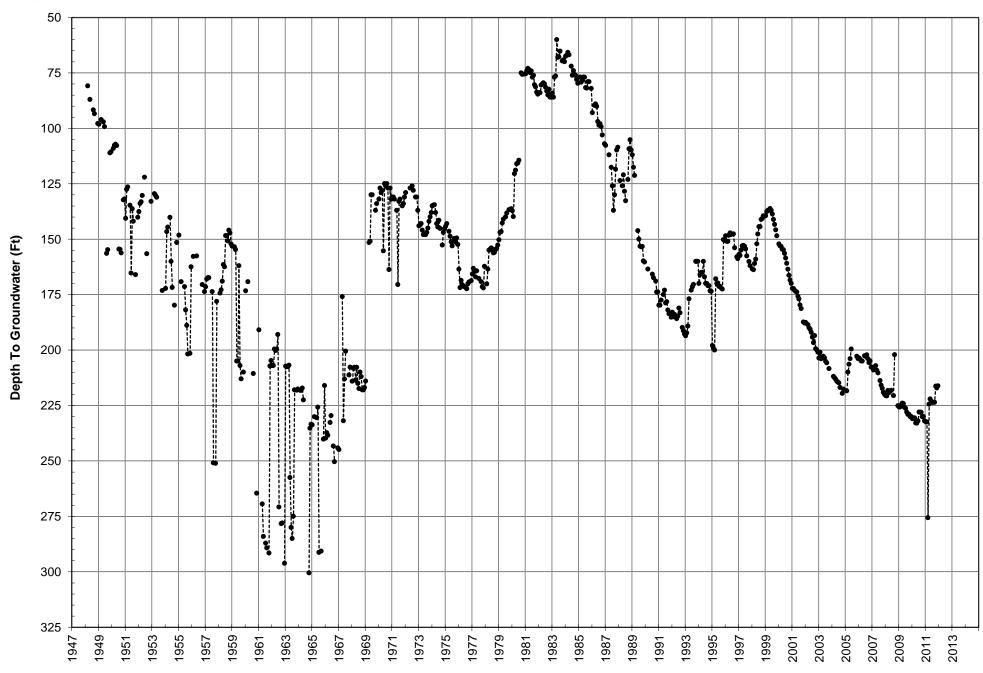
Plant No. 41 Index Well Hydrograph



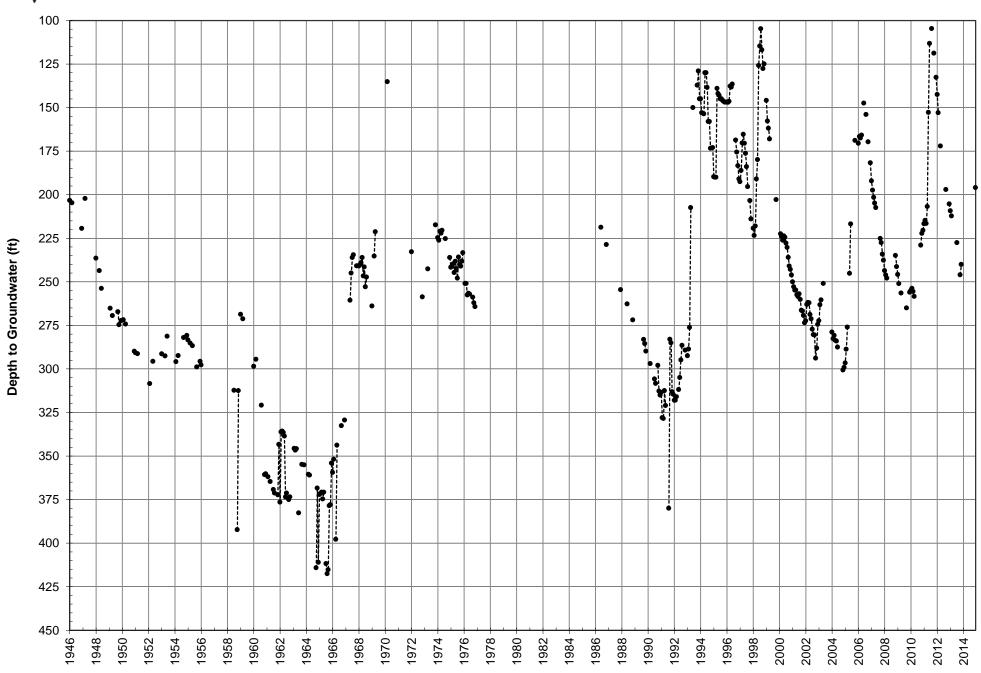








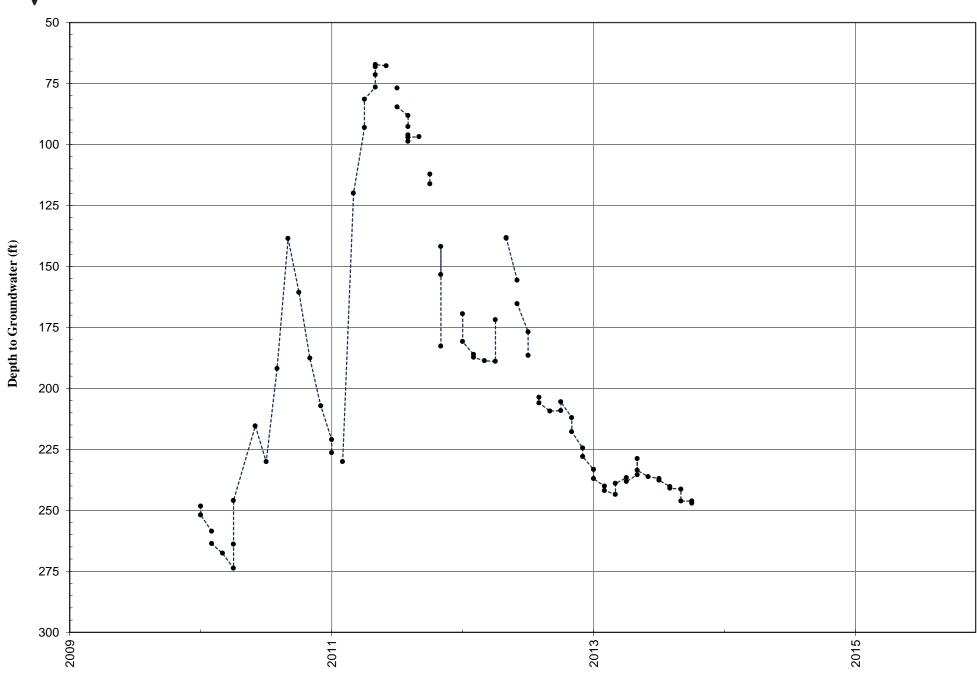
Plant No. 142 Index Well Hydrograph

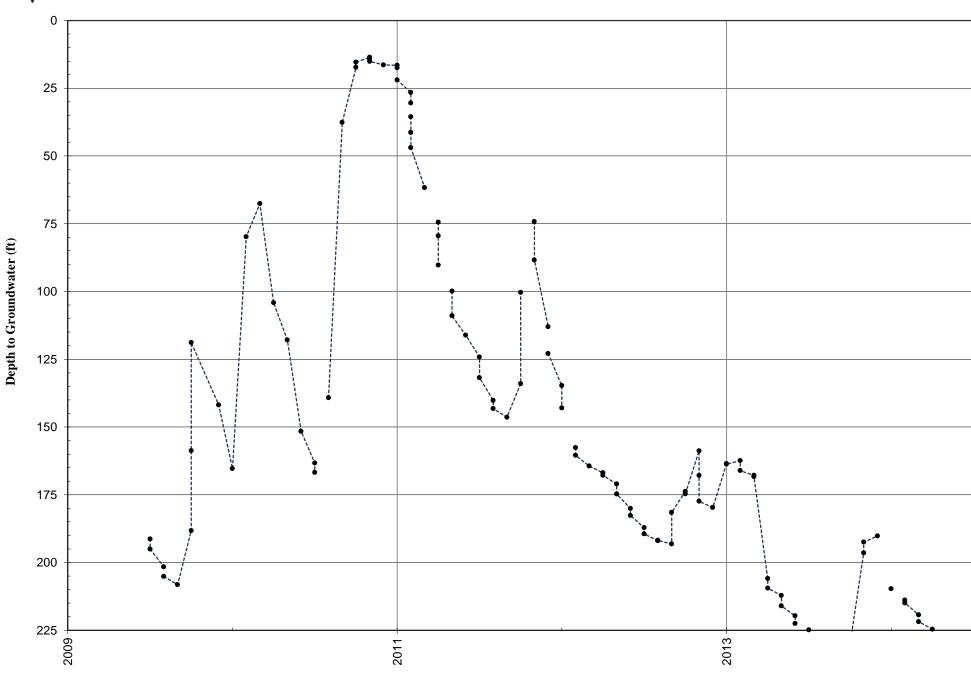




SBVWCD # 1 Index Well Hydrograph

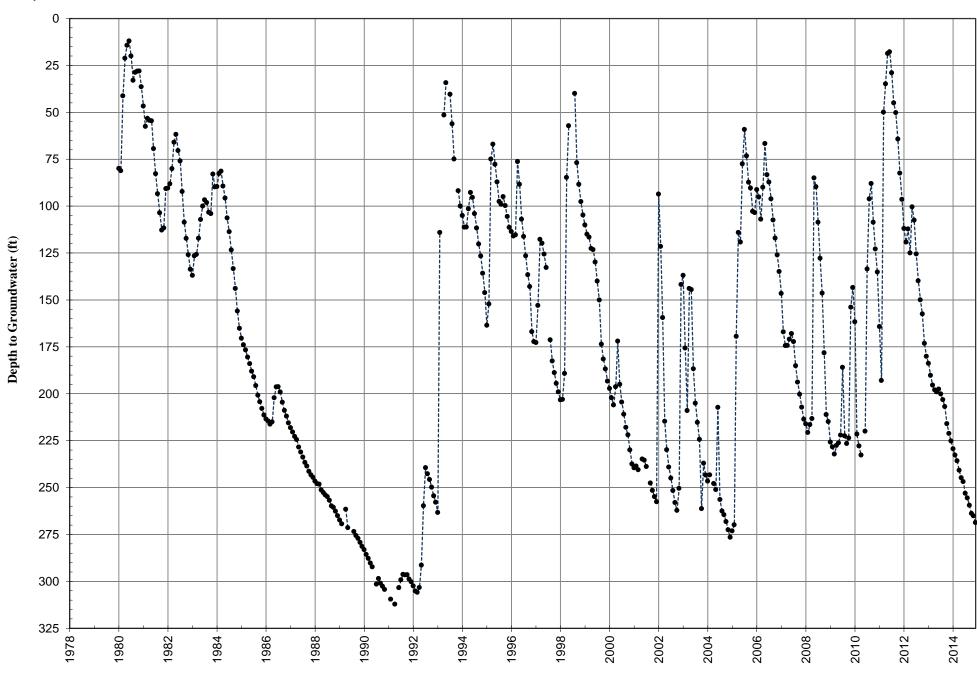
SBVWCD







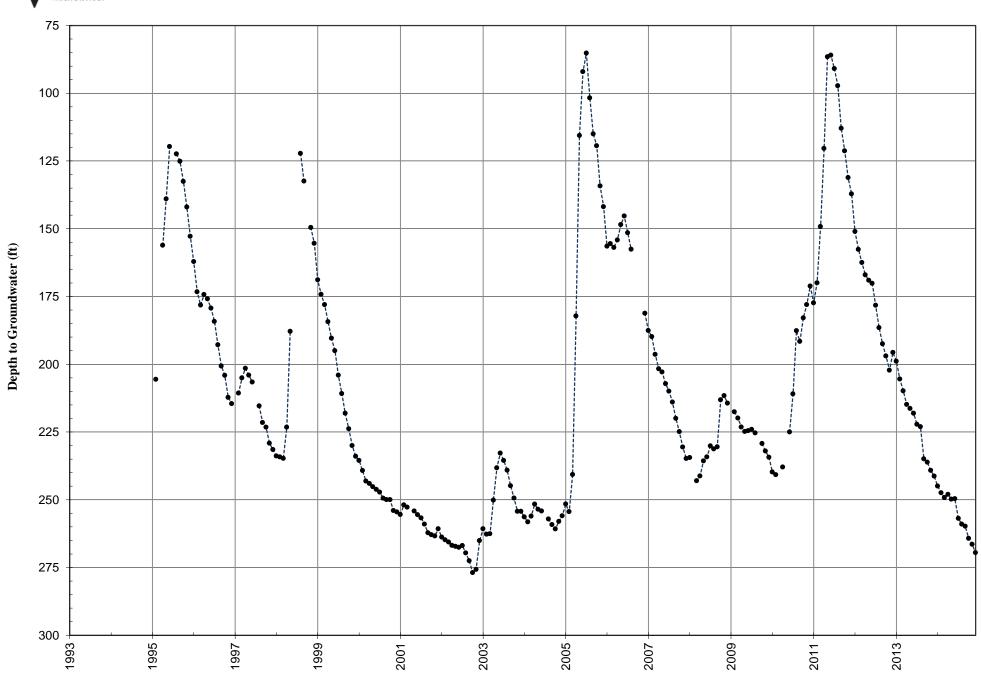
SBVWCD # 3 Index Well Hydrograph





MC-05 Index Well Hydrograph

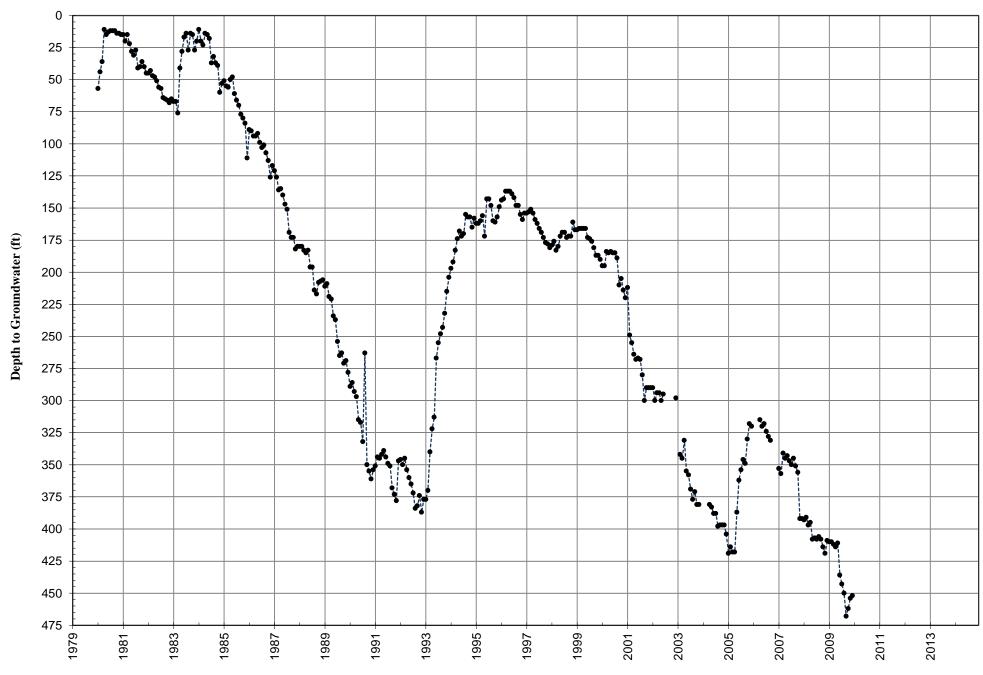






No. 8 Index Well Hydrograph

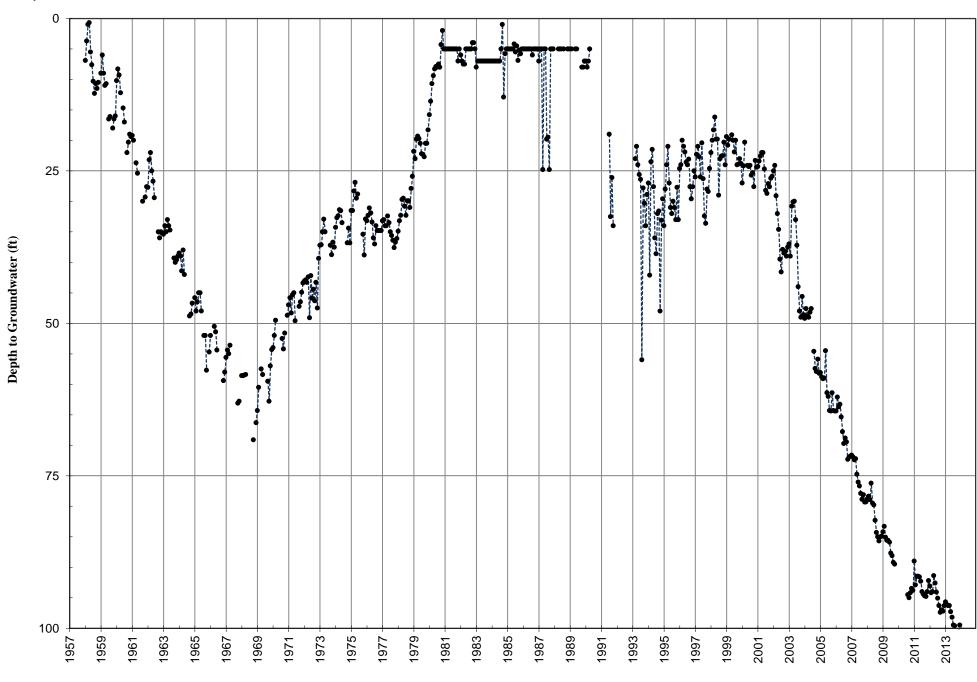






Mill & D Index Well Hydrograph

SBMWD



Production Values (Acre-Feet)

| | | Recordation | | | | | | | | | | | | | SBVWCD | | |
|--------------------------|---------------------------------------|-------------|--------|--------|-----------------|----------------|--------|----------------|--------|--------|--------|----------------|--------|--------|--------|--|------------------|
| WELL NAME | Agency | Number | Jul-13 | Aug-13 | Sep-13 | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | Wells | Subbasin Name | AGG or Non AGG |
| Clock Canyon/Marcum Well | AHD Limited | 3601632 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| 1 | Arrowhead Country Club | 3601925 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| #3 - 7251 Barton Street | Baseline Gardens Mutual Wate | 3602528 | | | | | | | | | | | | | Yes | Bunker Hill I Northeast of 215 Freeway | |
| PS & B2 | Baseline Gardens Mutual Wate | 3600458 | | | | | | | | | | | | | Yes | Bunker Hill I Northeast of 215 Freeway | |
| Well 5 | Baseline Gardens Mutual Wate | 3610007 | | | | | | | | | | | | | Yes | Bunker Hill I Northeast of 215 Freeway | |
| Judson 1 | Bear Valley Mutual Water Com | 3600023 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| San Bernardino Ave. 1 | Bear Valley Mutual Water Com | 3601585 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| Bell Well | Calvary Chapel Packinghouse | 3600449 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Bell Well | Calvary Chapel Packinghouse | 3600449 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Calvary Well | Calvary Chapel Packinghouse | 3603919 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Calvary Well | Calvary Chapel Packinghouse | 3603919 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 13 | Colton, City of | 3601257 | 112.00 | 107.40 | 99.60 | 100.30 | 95.60 | 103.60 | 103.10 | 94.80 | 104.80 | 97.80 | 92.20 | 74.40 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 16 | Colton, City of | 3601260 | 52.20 | 46.90 | 46.50 | 47.90 | 46.80 | 48.10 | 47.90 | | 67.30 | 62.50 | 56.50 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 19 | Colton, City of | 3602405 | 93.50 | 86.90 | 82.30 | 86.00 | 51.60 | 14.80 | 103.20 | 34.20 | 1.50 | 1.40 | 64.10 | 1 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 21 | Colton, City of | 3602793 | 128.00 | 131.40 | 119.90 | 109.80 | 100.70 | 72.10 | 33.60 | 22.30 | 6.80 | 56.50 | 143.60 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 26 | Colton, City of | 3603704 | 40.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| | | | | | 162.80 | | | | 170.90 | | | 166.80 | | 1 | | ' | |
| Well 27 | Colton, City of | 3604006 | 174.00 | 170.70 | | 167.20 | 165.00 | 165.80 | | 155.50 | 175.60 | | 167.10 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 28 | Colton, City of | 3604007 | 0.00 | 0.00 | 72.40 | 24.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 2.40 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 29 | Colton, City of | 3604008 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 8 | Colton, City of | 3601254 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Fifth Ave. 1 | Crafton Water Company | 3600272 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Garnet/2 Zanja Well | Crafton Water Company | 3602186 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Well 107 | East Valley Water District | 3602370 | 4.61 | 3.65 | 3.17 | 3.17 | 0.00 | 2.53 | 0.28 | | 0.02 | 2.14 | 0.36 | 1 | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Well 107 | East Valley Water District | 3602370 | 18.76 | 14.84 | 13.30 | 12.90 | 0.00 | 10.14 | 3.67 | 4.43 | 0.13 | 9.16 | 1.56 | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 11A | East Valley Water District | 3602563 | 28.13 | 17.11 | 3.45 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Well 120 | East Valley Water District | 3600680 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 125 | East Valley Water District | 3602799 | 206.36 | 175.24 | 233.79 | 123.39 | 0.00 | 31.99 | 79.33 | 0.00 | 0.12 | 34.64 | 65.42 | 130.43 | Yes | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Well 12A | East Valley Water District | 3602034 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Well 132-5 | East Valley Water District | 3603904 | 161.00 | 180.23 | 148.85 | 168.38 | 0.00 | 73.35 | 96.59 | 99.79 | 125.28 | 145.55 | 184.57 | 179.09 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Well 141 | East Valley Water District | 3603247 | 441.87 | 261.47 | 290.49 | 172.90 | 0.00 | 80.11 | 86.77 | 103.01 | 137.21 | 183.21 | 193.14 | 207.47 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Well 142 | East Valley Water District | 3600220 | 53.39 | 42.94 | 35.94 | 25.72 | 0.00 | 7.50 | 18.22 | 38.93 | 89.74 | 91.51 | 39.06 | 32.74 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 143 | East Valley Water District | 3603583 | 12.97 | 2.15 | 1.97 | 18.48 | 0.00 | 80.02 | 76.08 | 81.91 | 73.96 | 112.96 | 87.07 | 132.78 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 146 | East Valley Water District | 3601639 | 9.06 | 6.88 | 2.20 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 3.53 | 2.52 | 3.86 | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 146A | East Valley Water District | 3603774 | 111.64 | 111.53 | 106.90 | 108.84 | 0.00 | 0.00 | 0.00 | 0.00 | 85.68 | 106.26 | 116.74 | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 147 | East Valley Water District | 3603734 | 225.94 | 216.99 | 198.62 | 163.15 | 0.00 | 43.25 | 114.66 | | 30.92 | 35.06 | 223.12 | 1 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 151 | East Valley Water District | 3603926 | | 405.59 | | | | | | | | | | | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Well 24A | East Valley Water District | 3601671 | 90.93 | 88.12 | 75.17 | 27.38 | | | 66.57 | | 47.92 | | 31.72 | 1 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 24B | East Valley Water District | 3602337 | 265.17 | 228.09 | 248.06 | 218.84 | | 150.10 | 200.19 | 112.82 | 143.57 | | 120.60 | | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 25A | East Valley Water District | 3601673 | 34.89 | 29.01 | 26.85 | 24.39 | | 16.83 | 18.37 | | 20.53 | 59.33 | 53.06 | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 27 | · · · · · · · · · · · · · · · · · · · | 3601675 | 0.00 | 0.00 | 0.00 | 0.00 | 17.82 | | 0.00 | | 0.00 | 0.00 | 0.00 | 1 | | Bunker Hill II West of Mentone Fault | |
| Well 28A | East Valley Water District | | 26.97 | | | | | | | | | | 124.84 | | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| | East Valley Water District | 3602564 | 103.00 | 35.36 | 41.05 106.24 | 41.34 84.73 | 0.00 | 21.26 14.20 | 29.70 | | 44.39 | 50.37 92.36 | 148.27 | 1 | | | Non-Agricultural |
| Well 39 | East Valley Water District | 3602274 | 103.00 | 119.95 | 106.24 | 84.73 | 26.84 | 14.20 | 15.18 | 41.40 | 55.30 | 92.30 | 148.27 | 148.62 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 40A | East Valley Water District | 3602338 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 41 | East Valley Water District | 3602113 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well 9A | East Valley Water District | 3601660 | 147.60 | 154.93 | 83.33 | 70.10 | 17.60 | 83.49 | 63.93 | 47.06 | 95.48 | 146.56 | 160.65 | 155.58 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Fairview 1 | Fairview Water Company (B Ma | 3600554 | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| Langford | General American Life Insurand | 3601352 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Everett Well | George & Diane Everett | WP0003608 | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault North | |
| Meadows Well | George Meadows | WP0002552 | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| | Gladysta Well & Water Compar | 3600182 | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| PL 102 | Greenspot Village & Market Pla | 3600026 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| 1 | Happe Mutual Well Company | 3600238 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Gauge 46-1R | Happe Mutual Well Company | 3600795 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| Local 2A | Inland Valley Development | 86 | | | | | | | | | | | | | Yes | Pressure Zone North of Santa Ana Wash | |
| Local 3 | Inland Valley Development | 87 | | | | | | | | | | | | | Yes | Pressure Zone North of Santa Ana Wash | |
| Local 5 | Inland Valley Development | 89 | | | | | | | | | | | 1 | | Yes | Pressure Zone North of Santa Ana Wash | |

Production Values (Acre-Feet)

| | | | | | | | , | | (Acre-Fe | | | , | | | | | |
|------------------------|---------------------------------|-----------------------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|----------|----------|-----------------|--|------------------|
| WELL NAME | Agency | Recordation Number | Jul-13 | Aug-13 | Sep-13 | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | SBVWCD Wells | Subbasin Name | AGG or Non AGG |
| Palm Meadows | Inland Valley Development | 91 | | | | | | | | | | | | | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Thorne 10 & 11 | J. G. Golfing Enterprises, Inc. | 3601478 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| Paine | J. G. Golfing Enterprises, Inc. | 3602499 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| Rancho Ladera Roladera | Jack Dangermond | 3602188 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| FAR | Larry Jacinto Construction | 3602020 | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault North | |
| Anderson 2 | Loma Linda University Power P | 3602781 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| Anderson 2 | Loma Linda University Power P | 3602781 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Anderson 3 | Loma Linda University Power P | 3602855 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| Anderson 3 | Loma Linda University Power P | 3602855 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Mt View 5 | Loma Linda, City of | 3603776 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Mt View 6 | Loma Linda, City of | | 244.80 | 243.07 | 227.33 | 152.30 | 43.71 | 85.07 | 102.12 | 85.80 | 41.87 | 86.29 | 100.05 | 132.42 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Mt View 3 | Loma Linda, City of | 3603719 | 109.73 | 108.72 | 104.86 | 100.35 | 85.01 | 59.54 | 61.44 | 43.71 | 57.62 | 60.28 | 83.48 | 88.45 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Mt View 4 | Loma Linda, City of | 3603721 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Richardson 1 | Loma Linda, City of | 3603057 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Richardson 3 | Loma Linda, City of | 3603523 | 63.91 | 71.28 | 55.54 | 24.41 | 1 | 42.78 | 54.65 | 53.73 | 83.35 | 17.19 | 2.20 | 50.49 | 1 | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Richardson 4 | Loma Linda, City of | 3603720 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Station 59 | Meeks & Dailey | 3601887 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 | Pressure Zone Santa Ana Wash | Agricultural |
| Station 91 | Meeks & Dailey | 3603215 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 | Pressure Zone Santa Ana Wash | Agricultural |
| Highland Harvest Barn | Mission Development Compan | 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | , griculturur |
| New Well | Monte LLC (Dangermond) | 3600494 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| 1 | Montecito Memorial Park and | 3600434 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| 2 | Montecito Memorial Park and | 3603949 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| 1 | Mountain View Mortuary & Ce | 3600743 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| 2 | | 3600743 | | | | | | | | | | | | | | Bunker Hill II West of Mentone Fault | |
| 2 | Mountain View Mortuary & Ce | | | | | | | | | | | | | | Yes | | Non-Agricultural |
| | National Orange Show | 3601924 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| 4.4 | New England Water Co. (B Mar | | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| 14 | Patton State Hospital | 3602381 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| Patton 10 | Patton State Hospital | 3600931 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | A . 1: 1 |
| | Pharaoh's Splash Kingdom | 3600415 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| | Pharaoh's Splash Kingdom | 3600415 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| San Bernardino 1 | Pioneer Mutual Water Compan | 3600642 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| 1 Stowe | Ramirez, J.J. Citrus Mgmt | 3601046 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| Buckeye 2 | Ramirez, J.J. Citrus Mgmt | 3600484 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| Frink 1 | Ramirez, J.J. Citrus Mgmt | 3601728 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | |
| Midas | Ramirez, J.J. Citrus Mgmt | 3600527 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Raught | Raught Mutual Well Company | 3602193 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Opal St. | Redlands Unified School Distric | 3601641 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Agate #2 | Redlands, City of | 3602792 | 190.30 | 74.40 | 30.30 | 11.60 | 43.50 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Airport #1 | Redlands, City of | 3602895 | 167.50 | 53.00 | 123.90 | 27.80 | 123.70 | 124.40 | 78.21 | 126.56 | 149.52 | 103.82 | 175.91 | 193.48 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Airport #2 | Redlands, City of | 3603762 | 24.10 | 11.30 | 32.90 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.30 | 26.04 | 103.26 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| California St Irr | Redlands, City of | 3602549 | 47.40 | 45.20 | 21.10 | 3.00 | 0.00 | 0.00 | 45.54 | 41.02 | 35.30 | 45.77 | 48.09 | 54.59 | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Chicken Hill | Redlands, City of | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Church St. | Redlands, City of | 3603656 | 121.20 | 60.40 | 126.40 | 27.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.36 | 274.17 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Crafton | Redlands, City of | 3602654 | 34.00 | 71.80 | 77.10 | 90.30 | 22.60 | 96.30 | 6.19 | 0.00 | 26.05 | 58.95 | 109.88 | 98.52 | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| E. Lugonia #3 | Redlands, City of | 3601287 | 0.00 | 0.00 | 11.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.59 | 16.05 | Yes | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| E. Lugonia #4 | Redlands, City of | 3602791 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| E. Lugonia #6 | Redlands, City of | 3601290 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Hog Canyon #2 | Redlands, City of | | 0.00 | 0.00 | 0.00 | 0.00 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Lee Well | Redlands, City of | 3602065 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Madeira | Redlands, City of | 3602896 | 105.40 | 91.30 | 88.80 | 31.00 | | 100.00 | 69.04 | 77.62 | 73.59 | 5.38 | 97.47 | 103.46 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Maguet #2 | Redlands, City of | 3601284 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Mentone Acres #2 | Redlands, City of | 3600749 | 170.80 | 151.70 | 71.20 | 4.60 | | 16.70 | 0.00 | | | | 213.43 | 219.96 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Mill Creek # 1 | Redlands, City of | 3601282 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 5.00 | | | _512 | 123.13 | | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Mill Creek # 2 | Redlands, City of | 3601282 | 163.80 | 143.90 | 172.40 | 138.00 | | 0.00 | | | | | | | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Mill Creek # 4 | Redlands, City of | 3601288 | 93.90 | 82.80 | 82.60 | 65.50 | 1 | 73.10 | | | | | | | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| IVIIII CI CEN # 4 | neurarius, city or | 3001200 | 93.90 | 02.00 | 02.00 | 05.50 | 32.10 | /3.10 | | | | | <u> </u> | <u> </u> | ļ | Danker till it East of Mentone Fault MOITH | Non-Agricultural |

Production Values (Acre-Feet)

| | | | | | | | | | (Acre-Fe | | | | | | | | |
|------------------|--------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|----------------|--------|--------|--------|-----------------|--|------------------|
| WELL NAME | Agency | Recordation Number | Jul-13 | Aug-13 | Sep-13 | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | SBVWCD Wells | Subbasin Name | AGG or Non AGG |
| Mill Creek # OA | Redlands, City of | 3602351 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Mill Creek 2A | Redlands, City of | 3603045 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | Bunker Hill II East of Mentone Fault North | Non-Agricultural |
| Mission | Redlands, City of | 3600756 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| New York St Well | Redlands, City of | 3602346 | 116.90 | 116.10 | 124.30 | 74.00 | 71.60 | 7.60 | 75.01 | 66.50 | 25.75 | 102.72 | 118.31 | 96.49 | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| No.Orange #1 | Redlands, City of | 3603766 | 160.50 | 145.50 | 119.40 | 154.90 | 57.10 | 31.60 | 116.27 | 83.82 | 143.81 | 190.68 | 173.42 | 338.65 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| No.Orange #2 | Redlands, City of | 3603767 | 362.50 | 267.00 | 151.30 | 77.50 | 159.40 | 200.40 | 50.42 | 223.55 | 193.71 | 96.77 | 380.54 | 212.58 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Orange St. | Redlands, City of | 3601586 | 148.00 | 157.00 | 155.00 | 146.50 | 44.20 | 110.30 | 116.40 | 141.07 | 193.20 | 33.58 | 183.72 | 211.70 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Redlands Hgts. | Redlands, City of | 3600918 | 27.30 | 48.40 | 34.40 | 41.20 | 2.70 | 4.70 | 16.15 | 12.13 | 16.20 | 33.18 | 50.51 | 58.42 | Yes | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Rees Well | Redlands, City of | 3600019 | 158.00 | 157.90 | 153.20 | 157.00 | 132.40 | 149.30 | 151.98 | 137.91 | 143.31 | 143.52 | 151.94 | 146.24 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| SB Muni Well | Redlands, City of | | 204.80 | 184.90 | 143.20 | 0.00 | 0.00 | 0.00 | 0.00 | 6.47 | 0.00 | 0.00 | 0.00 | 224.78 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Well #10 | Redlands, City of | 3601291 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.32 | 39.45 | 0.00 | 0.00 | Yes | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Well #11 | Redlands, City of | 3601292 | 3.30 | 10.70 | 3.40 | 5.90 | 0.40 | 0.30 | 3.97 | 3.27 | 5.06 | 6.06 | 8.68 | 12.77 | Yes | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Well #13 | Redlands, City of | 3601294 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.32 | 73.22 | 0.00 | 0.00 | Yes | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Well #14 | Redlands, City of | 3601295 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Well #16 | Redlands, City of | 3601296 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| Well #30A | Redlands, City of | 3602031 | 0.00 | 71.10 | 31.30 | 0.10 | 0.00 | 0.00 | 0.00 | 0.66 | 3.34 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well #31A | Redlands, City of | 3602036 | 47.30 | 4.80 | 0.00 | 6.10 | 4.50 | 5.50 | 15.05 | 11.63 | 0.03 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well #32 | Redlands, City of | 3601298 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.28 | 10.76 | 36.24 | 46.50 | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Well #34 | Redlands, City of | 3601299 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Well #35 | Redlands, City of | 3602032 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well #36 | Redlands, City of | 3602082 | 27.30 | 27.20 | 20.70 | 18.00 | 3.20 | 6.50 | 8.77 | 18.49 | 5.88 | 16.74 | 21.12 | 27.13 | Yes | Bunker Hill II East of Mentone Fault South | Non-Agricultural |
| Well #37 | Redlands, City of | 3602211 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well #38 | Redlands, City of | 3603655 | 203.10 | 203.00 | 196.90 | 207.10 | 21.40 | 0.00 | 126.00 | 92.01 | 58.16 | 175.06 | 190.71 | 198.52 | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Well #39 | Redlands, City of | 3603760 | 103.00 | 119.95 | 106.24 | 84.73 | 26.84 | 14.20 | 15.18 | 41.40 | 55.30 | 92.36 | 148.27 | 148.62 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Well #41 | Redlands, City of | 3601301 | 41.60 | 27.20 | 15.70 | 23.20 | 17.00 | 0.00 | 0.53 | 4.72 | 0.00 | 13.17 | 14.41 | 11.79 | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Agate #1 | Redlands, City of | 3601301 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Bunker Hill II East of Mentone Fault North | Agricultural |
| City 1 | Rialto, City of | 3601263 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103 | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| City 2 | Rialto, City of | 3602080 | | | | | | | | | | | | | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| City 3 | Rialto, City of | 3602848 | | | | | | | | | | | | | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| City 4 | Rialto, City of | 3603538 | | | | | | | | | | | | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| City 5 | Rialto, City of | 3603030 | | | | | | | | | | | | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| City 6 | Rialto, City of | 3601929 | | | | | | | | | | | | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| FW #18 | Riverside Highland | 3601533 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| FW #2 | Riverside Highland | 3601523 | 0.10 | 0.10 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.10 | 0.10 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| FW #5 | Riverside Highland | 3603514 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.10 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| LC #1 | Riverside Highland | | l | | | | | | | | | | | 0.00 | | | |
| LC #10 | Riverside Highland | 3601535 3603470 | 0.00 138.10 | 0.00 138.30 | 0.00 134.10 | 0.00 165.90 | 0.00 161.20 | 0.00 155.70 | 0.00 171.60 | | 0.00 164.40 | | 126.40 | 90.20 | | Pressure Zone North of Santa Ana Wash Bunker Hill II West of Mentone Fault | Non-Agricultural |
| LC #10 LC #8 | Riverside Highland | 3602840 | 0.00 | 0.00 | 0.00 | | | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| | | | | | | 0.00 | 0.00 | | 0.00 | | | 0.00 | | | | 1 | Non-Agricultural |
| RN #17 | Riverside Highland | 3601532 | 24.50 | 1.40 | 3.40 | 0.50 | 0.40 | 0.50 | 0.10 | 0.30 | 1.00 | 0.20 | 1.80 | 39.40 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| RN #21 | Riverside Highland | 3301655 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Lytle Basin Southeast of Barrier J | Agricultural |
| RN #22 | Riverside Highland | 3301656 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | Bunker Hill II West of Mentone Fault | Agricultural |
| RN #6 | Riverside Highland | 3603738 | 124.20 | 112.10 | 87.90 | 32.10 | 20.60 | 0.60 | 0.80 | 5.60 | 38.90 | 114.60 | 170.10 | 140.00 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| RN #7 | Riverside Highland | 3601526 | 129.70 | 177.80 | 168.50 | 136.60 | 79.50 | 56.10 | 94.20 | | 25.70 | | 63.10 | 123.00 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| COOLEY H WELL | Riverside, City of | 3603911 | 99.03 | 105.42 | 86.59 | 35.37 | 14.84 | 119.70 | 38.38 | | 66.39 | | | 135.53 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| COOLEY I WELL | Riverside, City of | 3603912 | 146.85 | 168.55 | 122.59 | 58.37 | 76.37 | 146.91 | 42.45 | | 102.56 | | 131.20 | 158.80 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| COOLEY J WELL | Riverside, City of | 3603913 | 206.45 | 243.61 | 98.67 | 32.21 | 24.97 | 36.14 | 105.84 | 53.19 | 156.79 | | 185.87 | 170.53 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| GARNER NO.1 WELL | Riverside, City of | 3601464 | 0.13 | 0.08 | 0.00 | 0.21 | 0.02 | 0.54 | 0.00 | 0.00 | 0.03 | 0.00 | 5.77 | 0.00 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| GARNER NO.2 WELL | Riverside, City of | 3601465 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| GARNER NO.5 WELL | Riverside, City of | 3601468 | 154.79 | 121.28 | 201.34 | 192.25 | | 197.07 | 217.65 | | 145.72 | | 138.01 | 184.88 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| GARNER 7 WELL | Riverside, City of | 3302794 | 249.55 | 297.17 | 292.89 | 262.14 | 242.60 | 277.67 | 215.19 | 290.92 | 342.76 | | 205.21 | 301.13 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| GARNER NO.4 WELL | Riverside, City of | 3601467 | 0.23 | 0.00 | 0.00 | 0.03 | | 0.13 | 0.12 | | 0.16 | | 5.46 | 0.00 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| GARNER NO.6 WELL | Riverside, City of | 3603254 | 226.86 | 170.76 | 202.19 | 246.30 | 178.31 | 119.44 | 303.28 | 249.80 | 241.67 | 242.84 | 194.21 | 254.57 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Hunt 10 | Riverside, City of | 3602772 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.40 | 111.53 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Hunt 6 | Riverside, City of | 3602771 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| RAUB NO.4 WELL | Riverside, City of | 3601238 | 157.77 | 149.75 | 141.04 | 154.46 | 136.06 | 166.11 | 164.58 | 142.82 | 165.53 | 152.24 | 132.15 | 135.76 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |

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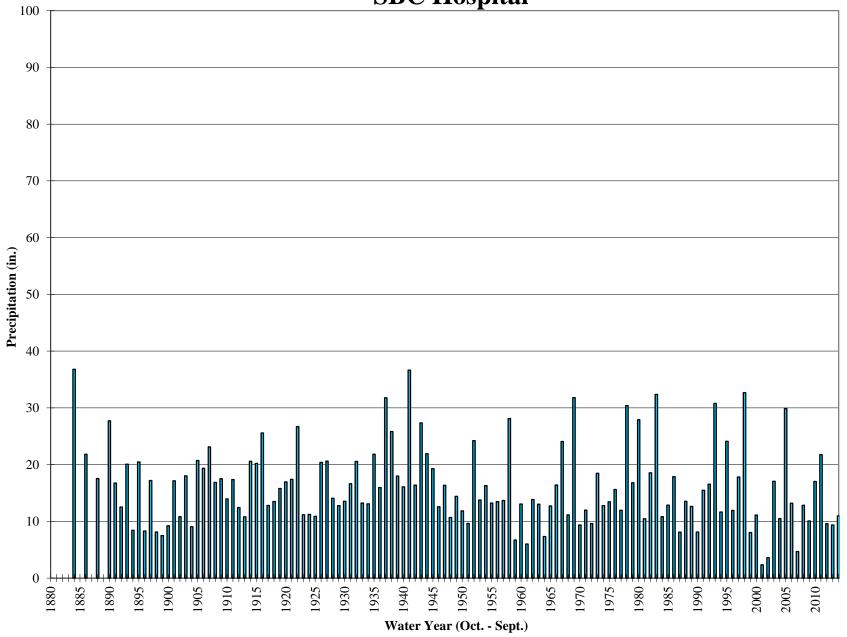
| WELL NAME | Agency | Recordation | Jul-13 | Aug-13 | Sep-13 | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | SBVWCD | Subbasin Name | AGG or Non AGG |
|-------------------------------------|---------------------------------------|--------------------|--------|--------|--------|--------|--------|--------|---------------|--------|----------------|--------|--------|----------|--------------|---|------------------|
| RAUB NO.5 WELL | Riverside, City of | Number 3602484 | 120.49 | 109.64 | 106.78 | 130.44 | 117.49 | 149.80 | 142.65 | 128.58 | 133.51 | 121.25 | 88.17 | 60.11 | Wells Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| RAUB NO.6 WELL | Riverside, City of | 3602778 | 183.15 | 174.16 | 157.62 | 121.59 | 153.09 | 182.35 | 160.07 | 206.77 | 182.22 | 199.58 | 215.26 | | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| RAUB NO.8 WELL | Riverside, City of | 3603555 | 137.10 | 37.67 | 165.35 | 95.66 | 92.50 | 189.23 | 153.10 | 110.95 | 141.38 | 143.57 | 163.07 | 132.60 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| SCHEUER WELL | Riverside, City of | 3601489 | 419.34 | 385.19 | 29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 47.65 | 181.31 | 114.89 | 198.08 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| STILES WELL | Riverside, City of | 3601463 | 88.96 | 90.56 | 89.19 | 94.97 | 92.58 | 66.09 | 95.95 | 85.62 | 93.17 | 87.57 | 53.34 | 81.34 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| THORNE NO.12 | Riverside, City of | 3601403 | 64.40 | 13.45 | 12.60 | 4.01 | 0.00 | 12.16 | 16.06 | 8.63 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | <u> </u> |
| WARREN NO.1 WELL | · · · · · · · · · · · · · · · · · · · | 3601240 | 189.40 | 188.10 | 151.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.31 | 184.01 | 163 | Pressure Zone Santa Ana Wash | Non-Agricultural |
| WARREN NO.3 WELL | Riverside, City of | 3601240 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| | Riverside, City of | | 198.35 | 186.92 | 143.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 91.73 | | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| WARREN NO.4 WELL | Riverside, City of | 3601243 | 329.92 | | 208.89 | | | 0.00 | | | 58.98 | | 163.63 | . | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| GAGE 26-1 WELL | Riverside Gage | 3600787 | | 325.82 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | l | Yes | | Non-Agricultural |
| GAGE 26-1 WELL | Riverside-Gage | 3600787 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | Yes | Pressure Zone North of Santa Ana Wash | Agricultural |
| GAGE 27-1 WELL | Riverside-Gage | 3600788 | 293.80 | 9.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 144.57 | 65.03 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| GAGE 27-1 WELL | Riverside-Gage | 3600788 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 27-2 WELL | Riverside-Gage | 3600789 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.41 | 63.08 | 0.00 | 235.42 | . | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 27-2 WELL | Riverside-Gage | 3600789 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| GAGE 29-1 WELL | Riverside-Gage | 3600790 | 183.07 | 161.95 | 160.09 | 154.92 | 3.86 | 0.20 | 0.00 | 0.28 | 0.00 | 0.00 | 158.42 | 95.69 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| GAGE 29-1 WELL | Riverside-Gage | 3600790 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 29-2 WELL | Riverside-Gage | 3600791 | 300.60 | 297.26 | 285.61 | 301.60 | 206.94 | 159.05 | 309.15 | 269.90 | 319.22 | 297.18 | 295.35 | | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 29-3 WELL | Riverside-Gage | 3600792 | 260.51 | 249.81 | 221.69 | 234.26 | 225.39 | 58.98 | 0.84 | 1.19 | 0.00 | 0.00 | 105.95 | | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 30-1 WELL | Riverside-Gage | 3600793 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 31-1 WELL | Riverside-Gage | 3600794 | 0.00 | 90.45 | 312.18 | 339.06 | 334.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 329.36 | 309.26 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 46-1R WELL | Riverside-Gage | 3600795 | 283.26 | 271.53 | 260.19 | 251.01 | 251.64 | 263.69 | 263.46 | 223.96 | 213.06 | 250.25 | 240.74 | 116.34 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 51-1 WELL | Riverside-Gage | 3600796 | 142.98 | 177.47 | 196.08 | 200.06 | 173.81 | 183.47 | 165.93 | 149.23 | 22.71 | 109.10 | 197.59 | 185.06 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| GAGE 51-1 WELL | Riverside-Gage | 3600796 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 56-1 WELL | Riverside-Gage | 3600797 | 126.64 | 162.31 | 145.93 | 158.34 | 118.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 127.91 | 137.89 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 66-1 WELL | Riverside-Gage | 3602331 | 306.01 | 306.57 | 292.57 | 301.88 | 156.31 | 0.00 | 0.00 | 0.80 | 272.92 | 142.63 | 269.14 | 259.99 | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| GAGE 66-1 WELL | Riverside-Gage | 3602331 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Yes | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 92-1 WELL | Riverside-Gage | 3603558 | 281.63 | 279.28 | 264.25 | 287.48 | 291.30 | 314.05 | 298.06 | 275.67 | 301.60 | 282.63 | 273.52 | 250.45 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 92-2 WELL | Riverside-Gage | 3603557 | 314.05 | 298.10 | 291.22 | 308.92 | 215.89 | 134.91 | 330.43 | 161.32 | 224.72 | 313.01 | 307.60 | 288.79 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 92-3 WELL | Riverside-Gage | 3603556 | 260.59 | 249.30 | 232.23 | 256.97 | 185.90 | 162.31 | 297.06 | 229.45 | 203.52 | 275.74 | 253.23 | 230.84 | | Pressure Zone Santa Ana Wash | Agricultural |
| GAGE 98-1 WELL | Riverside-Gage | 3603728 | 375.32 | 395.03 | 379.97 | 106.44 | 0.00 | 25.61 | 414.77 | 14.00 | 144.74 | 391.59 | 395.78 | 374.75 | | Pressure Zone Santa Ana Wash | Agricultural |
| TIPPECANOE WELL | Riverside-Gage | 3603920 | | | | | | | | | | | | | | Pressure Zone North of Santa Ana Wash | Agricultural |
| TIPPECANOE WELL | Riverside-Gage | 3603920 | 352.61 | 350.71 | 325.28 | 340.04 | 338.23 | 355.70 | | | | | | | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| SB Ave.1/Big Bear | San Bernardino Valley MWD | 3603116 | | | | | | | | | | | | | Yes | Pressure Zone Santa Ana Wash | Non-Agricultural |
| 10th & J STREET WELL | San Bernardino, City of | 3603207 | 279.78 | 276.56 | 270.90 | 223.76 | 1.04 | 0.91 | 21.37 | 0.27 | 3.88 | 141.63 | 243.09 | 255.94 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| 16TH & SIERRA WAY WELL | San Bernardino, City of | 3600726 | | 201.23 | | 242.55 | | 150.65 | 201.45 | 154.53 | | 177.80 | 216.70 | | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| 17TH & SIERRA WAY 2 WELL | San Bernardino, City of | 3600725 | 0.22 | 3.95 | 0.20 | 0.27 | 0.23 | 0.26 | 0.24 | 0.22 | 0.22 | 0.28 | 5.95 | | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| 19TH ST WELL 1 | San Bernardino, City of | 3600717 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| 19TH ST WELL 2 | San Bernardino, City of | 3600718 | 86.47 | 82.21 | 74.58 | 73.48 | 67.12 | 66.42 | 60.12 | 55.07 | 58.55 | 54.97 | 54.12 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| 27TH & ACACIA WELL | San Bernardino, City of | 3600710 | 45.04 | 55.13 | 26.64 | 4.35 | 8.26 | 13.37 | 2.48 | 1.97 | 5.88 | 1.88 | 3.27 | | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| 30TH ST WELL | San Bernardino, City of | 3600719 | 236.01 | 258.94 | 182.91 | 1.10 | 0.59 | 4.07 | 24.08 | 0.82 | 0.80 | 69.61 | 50.14 | | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| 31ST ST & MT. VIEW WELL | San Bernardino, City of | 3602081 | 15.76 | 19.30 | 4.09 | 0.25 | 0.28 | 0.89 | 0.40 | 0.33 | 0.41 | 0.41 | 1.16 | | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| 40TH & VALENCIA WELL | San Bernardino, City of | 3603472 | 0.00 | 3.00 | 4.83 | 4.58 | | 6.57 | 5.71 | 4.63 | 4.71 | 4.87 | 4.57 | | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| 7TH STREET WELL | · · | + | | | 5.01 | | | | | | | | | | | | _ |
| | San Bernardino, City of | 3602265 | 6.23 | 7.81 | | 3.81 | 0.41 | 0.29 | 3.00 | 0.33 | 2.05 | 3.79 | 8.35 | | Voc | Pressure Zone North of Santa Ana Wash Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| ANTIL 6 WELL | San Bernardino, City of | 3602422 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | Yes | | Non-Agricultural |
| BASELINE & CALIFORNIA WELL | San Bernardino, City of | 3602400 | 49.48 | 13.05 | 3.74 | 2.40 | | 0.34 | 0.44 | 0.16 | 0.00 | 1.76 | 0.30 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| CAJON 2 WELL | San Bernardino, City of | 3601844 | 93.82 | 87.25 | 78.70 | 73.93 | | 34.92 | 64.55 | 43.84 | 46.26 | 50.49 | 48.34 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| CAJON 3 WELL | San Bernardino, City of | 3602821 | 110.41 | 106.35 | 99.72 | 100.49 | 62.36 | 1.00 | 80.32 | 64.68 | 62.06 | 77.57 | 81.04 | | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| CAJON 4 WELL | San Bernardino, City of | 3603792 | 168.55 | 160.09 | 149.32 | 129.82 | 146.03 | 157.70 | 152.27 | 108.82 | 132.75 | 128.62 | 131.86 | | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| CAJON CANYON WELL | San Bernardino, City of | 3600710 | 92.05 | 75.35 | 63.00 | 59.30 | 37.46 | 21.32 | 6.45 | 0.30 | 0.48 | 1.33 | 51.20 | 93.58 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| Century | San Bernardino, City of | 3603581 | 59.25 | 59.25 | 59.25 | 59.25 | 59.25 | 59.25 | | | | | | | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| Chandler | San Bernardino, City of | 3603582 | 57.90 | 57.90 | 57.90 | 57.90 | 57.90 | 57.90 | | | | | | | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| DEVIL CANYON 1 WELL | San Bernardino, City of | 3600712 | 193.49 | 178.76 | 164.15 | 120.73 | 23.61 | 83.46 | 127.09 | 79.44 | 65.98 | 82.41 | 97.85 | | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| · · · · · · · · · · · · · · · · · · | I Care Danis and the City of | 1 2600711 | 150.72 | 148.59 | 136.26 | 111.34 | 54.57 | 24.95 | 97.00 | 77.52 | 102 26 | 107.55 | 119.89 | 11205 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| DEVIL CANYON 2 WELL | San Bernardino, City of | 3600711 3602206 | 150.72 | 0.00 | 0.58 | 2.46 | | 3.66 | 87.90 3.53 | 2.87 | 103.36 3.80 | 3.34 | 2.98 | | | Bullker Hill I Northeast Of 215 Freeway | Non-Agricultural |

Production Values

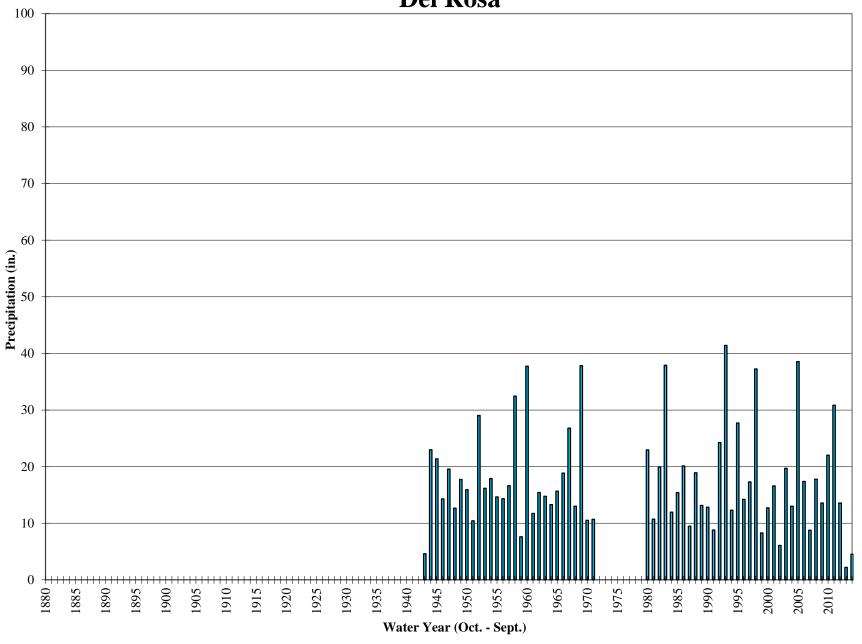
| (A | cr | e- | Fe | et) | ١ |
|----|----|----|----|-----|---|

| WELL NAME | A | Recordation | II. 12 | A 12 | Can 13 | 0 + 12 | Nov. 12 | Dag 12 | lan 14 | Fab 14 | N40 1 4 4 | A 1.1 | N40 1.4 | l 1.1 | SBVWCD | Cubb asia Nama | AGG ou Non AGG |
|-----------------------|--------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|--------|--|------------------|
| WELL NAME | Agency | Number | Jul-13 | Aug-13 | Sep-13 | Oct-13 | Nov-13 | Dec-13 | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | Wells | Subbasin Name | AGG or Non AGG |
| DEVIL CANYON 4 WELL | San Bernardino, City of | 3602205 | 3.85 | 3.79 | 0.37 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 1.69 | | 0.28 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| DEVIL CANYON 5 WELL | San Bernardino, City of | 3602844 | 57.88 | 55.19 | 51.99 | 39.78 | 31.11 | 1.65 | 0.04 | 2.02 | 0.84 | 3.45 | 11.49 | 41.81 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| DEVIL CANYON 6 WELL | San Bernardino, City of | 3603580 | 15.22 | 15.65 | 15.42 | 16.76 | 11.42 | 16.08 | 17.25 | 13.59 | 13.92 | 15.94 | 16.42 | 15.19 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| DEVIL CANYON 7 WELL | San Bernardino, City of | 3603579 | 4.92 | 3.63 | 3.54 | 3.88 | 2.34 | 4.03 | 4.16 | 3.39 | 3.71 | 3.99 | 3.99 | 3.62 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| EPA EXTRAC WELL 001 | San Bernardino, City of | 3603688 | 195.14 | 188.64 | 185.86 | 191.93 | 186.90 | 193.22 | 187.65 | 172.82 | 177.53 | 172.89 | 172.49 | 169.07 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 002 | San Bernardino, City of | 3603689 | 184.27 | 180.45 | 176.85 | 183.95 | 184.30 | 202.82 | 197.45 | 180.80 | 196.51 | 189.14 | 194.74 | 183.02 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 003 | San Bernardino, City of | 3603690 | 190.884 | 185.436 | 212.339 | 214.197 | 211.157 | 249.144 | | 222.188 | 244.777 | 234.417 | 226.251 | 196.807 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 004 | San Bernardino, City of | 3603691 | 195.055 | 191.219 | 187.091 | 194.564 | 211.391 | 205.044 | 213.173 | 195.659 | 213.662 | 205.59 | 200.393 | 196.171 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 005 | San Bernardino, City of | 3603692 | 215.073 | 210.636 | 205.574 | 198.411 | 134.05 | 10.3558 | 1.524 | 0.84252 | 0.92975 | 1.09734 | 28.2691 | 50.4408 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 006 | San Bernardino, City of | 3603693 | 53.5514 | 51.6988 | 50.45 | 48.3632 | 49.1713 | 52.6194 | 52.424 | 49.6166 | 52.9522 | 47.3416 | 47.0822 | 43.7649 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| EPA EXTRAC WELL 007 | San Bernardino, City of | 3603694 | 174.94 | 169.334 | 165.471 | 172.546 | 164.185 | 170.351 | 171.598 | 160.631 | 169.713 | 152.665 | 154.77 | 145.861 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| EPA EXTRAC WELL 108 | San Bernardino, City of | 3603786 | 202.195 | 198.852 | 194.77 | 200.684 | 196.072 | 203.496 | 199.557 | 184.382 | 200.643 | 193.829 | 198.641 | 191.093 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 108-S | San Bernardino, City of | 3603917 | 86.6139 | 84.6832 | 83.037 | 84.5569 | 74.1299 | 74.9334 | 74.13 | 60.955 | 69.41 | 70.714 | 72.0684 | 70.1286 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 109 | San Bernardino, City of | 3603787 | 0 | 0 | 0 | 0 | 21.2718 | 109.302 | 114.017 | 105.216 | 113.77 | 109.55 | 112.073 | 107.02 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 110 | San Bernardino, City of | 3603788 | 0 | 0 | 0 | 34.2264 | 93.8659 | 97.5964 | 94.245 | 40.3512 | 94.5455 | 91.3361 | 92.1097 | 88.1313 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 111 | San Bernardino, City of | 3603789 | 1.80211 | 147.665 | 144.752 | 144.284 | 139.66 | 143.646 | | 91.593 | 138.242 | 133.085 | 134.633 | 128.14 | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| EPA EXTRAC WELL 112 | San Bernardino, City of | 3603790 | 126.839 | 122.461 | 114.555 | | 112.399 | 114.619 | | 105.08 | | 105.865 | | 99.775 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| GILBERT ST WELL. | San Bernardino, City of | 3600729 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 2.38981 | | 224.479 | Yes | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| IVDA WELL 11 | San Bernardino, City of | 3603649 | 0.1584 | 0.3719 | 0.129 | 0.04591 | 0.06198 | 0.07117 | 0.131 | 0.0551 | | 0.07805 | | 0.02755 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| KENWOOD 1 WELL | San Bernardino, City of | 3603471 | | 7.92241 | 0 | 0 | 1.10193 | 20.9412 | 0 | 0.59752 | | 0 | 0 | 19.1047 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| KENWOOD 2 WELL | San Bernardino, City of | 3603791 | | 104.164 | 96.006 | 89.8829 | 85.8517 | 104.667 | 115.875 | 110.902 | | 131.635 | 135.955 | 107.459 | | Bunker Hill I Northeast of 215 Freeway | Non-Agricultural |
| LEROY WELL | San Bernardino, City of | 3602401 | 53.8039 | 60.8471 | 11.83 | 0.94123 | 0.99633 | 3.16804 | 1.203 | 1.26492 | | 1.17539 | 3.26676 | 148.903 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| LYNWOOD WELL | San Bernardino, City of | 3600727 | 177.842 | 134.5 | 134.451 | 19.1873 | 0.83104 | 1.07438 | 10.999 | 2.58724 | | 1.96051 | 124.047 | 158.848 | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| LYTLE CREEK 2 WELL | San Bernardino, City of | 3603027 | 73.3724 | 72.4334 | 70.411 | | 48.0234 | 62.438 | 71.853 | 56.6368 | | 67.2911 | 67.8444 | 66.8343 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| MALLORY NO.3 WELL | San Bernardino, City of | 3601845 | 72.8053 | 63.7098 | 66.166 | 69.2952 | 48.7511 | 31.6047 | 69.405 | 64.0427 | 70.8196 | 67.8053 | 68.82 | 67.3118 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| MILL & D WELL | San Bernardino, City of | 3600737 | 43.067 | 42.5298 | 40.838 | 42.5482 | 41.2466 | 42.7502 | 42.245 | 38.2369 | | 26.1387 | 43.9463 | 42.0753 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| NEWMARK 1 WELL | San Bernardino, City of | 3600714 | 47.6354 | 47.3852 | 44.752 | | 18.742 | 0.18136 | 1.361 | 11.9995 | | 18.2208 | 30.893 | 27.7296 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| NEWMARK 2 WELL | San Bernardino, City of | 3600715 | 114.079 | 193.122 | 180.393 | 36.7034 | 17.9706 | 0.63131 | 5.822 | 27.275 | | 45.8333 | 153.85 | 147.348 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| NEWMARK 3 EXTRAC WELL | San Bernardino, City of | 3600715 | 123.919 | 113.767 | 106.439 | 108.531 | 93.0464 | 45.7874 | 0.022 | 0 | 20.1997 | 66.7952 | | 101.047 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| NEWMARK 4 WELL | San Bernardino, City of | 3602399 | 293.57 | 297.289 | 294.16 | | 122.824 | 0.87925 | 8.85 | 80.9619 | 41.8825 | 138.607 | 264.424 | 261.221 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| OLIVE & GARNER WELL | San Bernardino, City of | 3603206 | | 218.124 | 208.136 | | 106.547 | 7.80073 | 67.656 | 0.23875 | | 22.624 | 153.613 | | | Pressure Zone North of Santa Ana Wash | Non-Agricultural |
| PERRIS HILL 4 WELL | | 3601117 | 224.031 | 210.124 | 206.130 | 101.993 | 100.347 | 7.80073 | 07.030 | 0.23673 | 4.31363 | 22.024 | 133.013 | | Yes | Pressure Zone North of Santa Ana Wash | |
| | San Bernardino, City of | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Yes | | Non-Agricultural |
| PERRIS HILL 5 WELL | San Bernardino, City of | 3601115 | 122 717 | 102.620 | 02 115 | 00 2002 | TO 2F12 | • | 10.45 | 0.3742 | 0.50600 | 0.50735 | 73.5698 | | res | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| VINCENT WELL | San Bernardino, City of | 3602426 | | 103.629 | 83.115 | | 50.3512 | 14.3434 | 10.45 | | | | | 110.083 | | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| WATERMAN AVE. WELL | San Bernardino, City of | 3600728 | | 286.295 | 202.704 | 1.9146 | 1.36823 | 4.21717 | 26.618 | 3.17723 | | | 55.7484 | 109.107 | V | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Deep Well Pump 1 | Southern California Edison | 3601015 | | 0.4 | 0.4 | | 0.3 | 0.3 | | 0.3 | | 0.3 | | 0.4 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Deep Well Pump 2 | Southern California Edison | 3601014 | 42.8 | 44.9 | 42.5 | 22.4 | 24 | 34.5 | 14.2 | 18.8 | 24.9 | 26.2 | | 55.8 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Mid Aquifer Pump A | Southern California Edison | 3603795 | 258.8 | 272.6 | 269.9 | 86.3 | 117.1 | 183.7 | 134.6 | 144.3 | 176.6 | 186.7 | 150.4 | 150 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| MidAquifer Pump B | Southern California Edison | 3603796 | | 0.1 | 0 | 13.3 | 4.1 | 1.5 | 0.6 | 14 | 0.5 | 0 | 0 | 3.8 | | Pressure Zone Santa Ana Wash | Non-Agricultural |
| Stater Well | Stater Bros. | 3602917 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Agricultural |
| Stater Well | Stater Bros. | 3602917 | | | | | | | | | | | | | Yes | Bunker Hill II West of Mentone Fault | Non-Agricultural |
| Pioneer 1 | Tennessee Mutual Well Compa | | | | | | | | | | | | | | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| Upper 2 | West Valley Water District | 3600306 | | | 211.12 | | 133.56 | | | 108.62 | 17.85 | 3.29 | | | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| Well 05A | West Valley Water District | 3605001 | 26.31 | 13.43 | 40.44 | 0.3 | 20.37 | 11.17 | 21.44 | 11.23 | 18.38 | 8.42 | | 30.18 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well 24 | West Valley Water District | 3601931 | | 34.81 | 34.47 | 33.09 | 30.27 | 32.02 | | 27.23 | 18.19 | 0 | 5.34 | 52.88 | | Lytle Basin Northwest of Barrier J | Non-Agricultural |
| Well 4A | · | WVWD4A | 139.6 | 135.88 | 159.56 | 36.57 | 179.35 | 122.17 | 230.01 | 156.79 | 127.25 | 47 | | 121.98 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| Well 54 | West Valley Water District | 3604014 | 91.91 | 92.7 | 91.46 | 115.66 | 110.47 | 113.24 | 111.61 | 99.31 | 105.65 | 97.35 | 95.53 | 66.37 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| Well No 1 | West Valley Water District | 3600307 | 0.5 | 0.23 | 0.18 | 0.2 | 0.17 | 0.2 | 5.09 | 0.16 | 0.35 | 0.3 | 0.174 | 0.3 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| Well No 15 | West Valley Water District | 3601848 | | 169.44 | 138.49 | 62.76 | 155.97 | 97.48 | | 143.93 | 63.39 | 39.34 | 74.58 | 50.6 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well No 30 | West Valley Water District | 3602766 | 59.85 | 78.82 | 71.63 | 84.28 | 155.66 | 56.75 | 101.09 | 1.67 | 0 | 0 | 0 | 0 | | Bunker Hill I Southwest of 215 Freeway | Non-Agricultural |
| Well No 36 | West Valley Water District | 3603055 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| Well No 7 | West Valley Water District | 3600997 | 0.5 | 5.69 | 0 | 0.38 | 0.21 | 0.21 | 3.21 | 1.47 | 0 | 0 | 0 | 0 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| Well No 8A | West Valley Water District | 3603778 | 0.7 | 0 | 2.13 | 0.77 | 0.39 | 0.4 | 1.87 | 0.83 | 0.41 | 0 | 1.86 | 0.53 | | Lytle Basin Southeast of Barrier J | Non-Agricultural |
| | Williams Well Corporation, LTE | 3600828 | | | | | | | | | | - | | | Yes | Bunker Hill II East of Mentone Fault South | Agricultural |
| | • | • | | | | | | | | | | | | | | | |

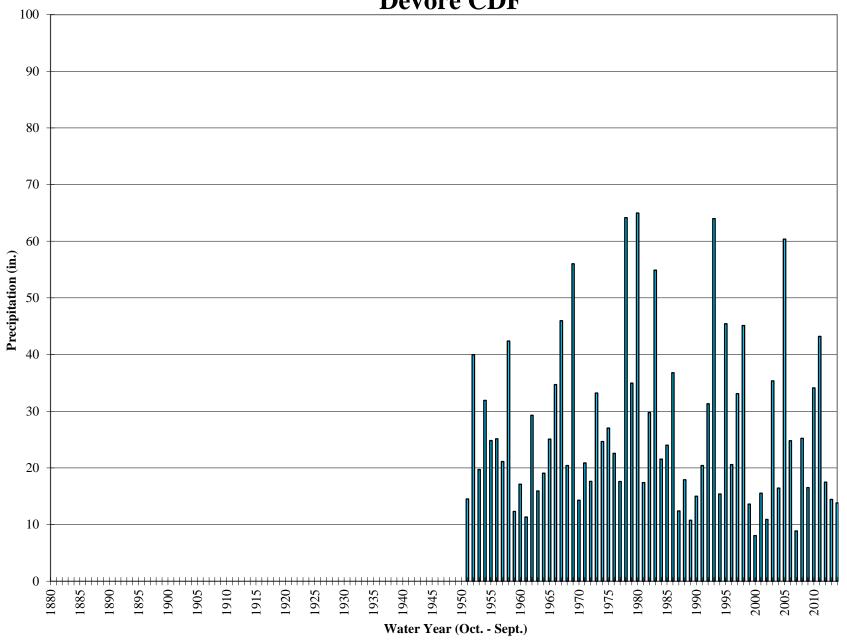
Historic Annual Precipitation SBC Hospital



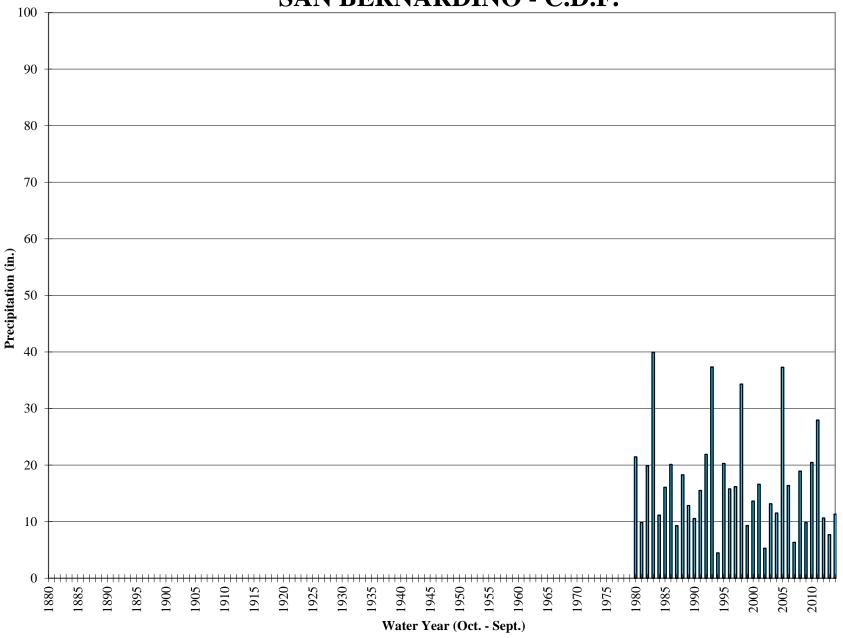
Historic Annual Precipitation Del Rosa



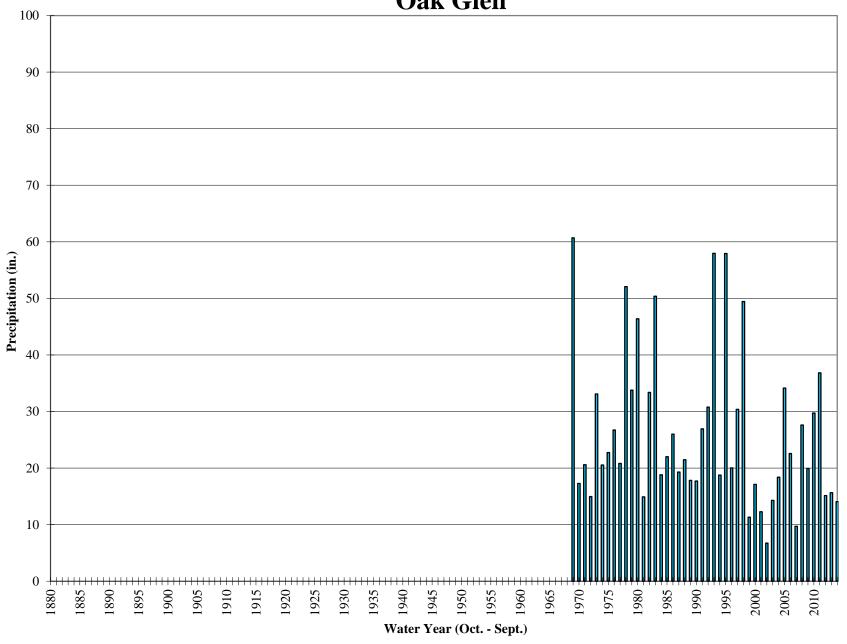
Historic Annual Precipitation Devore CDF



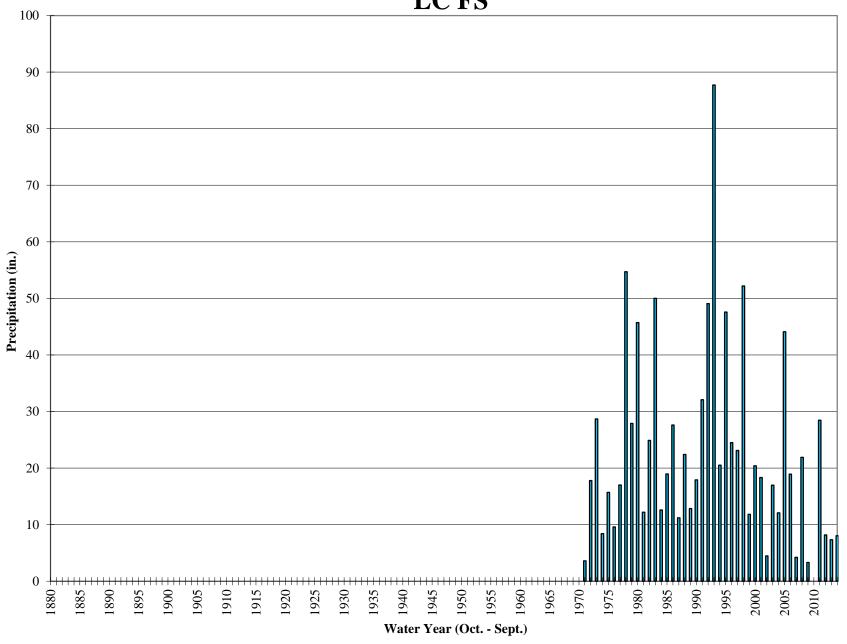
Historic Annual Precipitation SAN BERNARDINO - C.D.F.



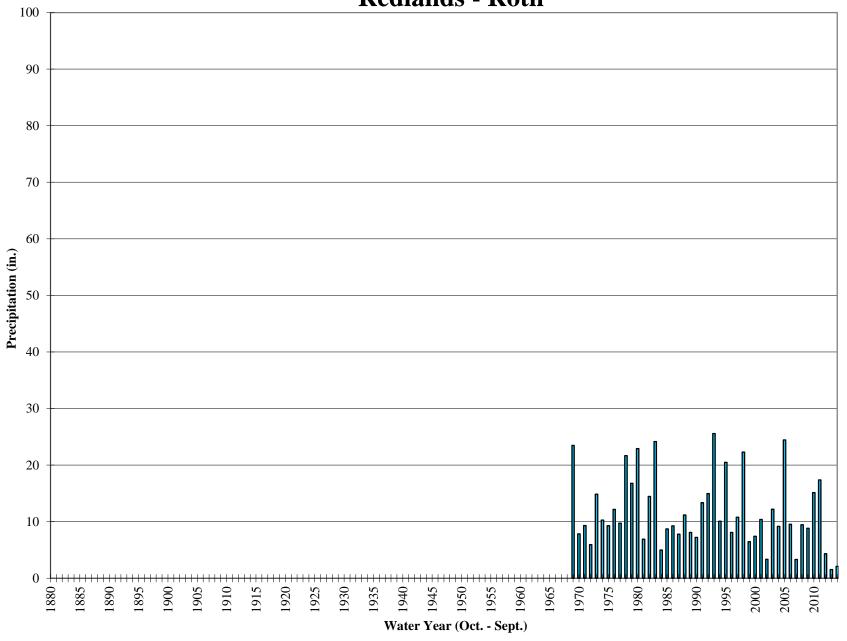
Historic Annual Precipitation Oak Glen



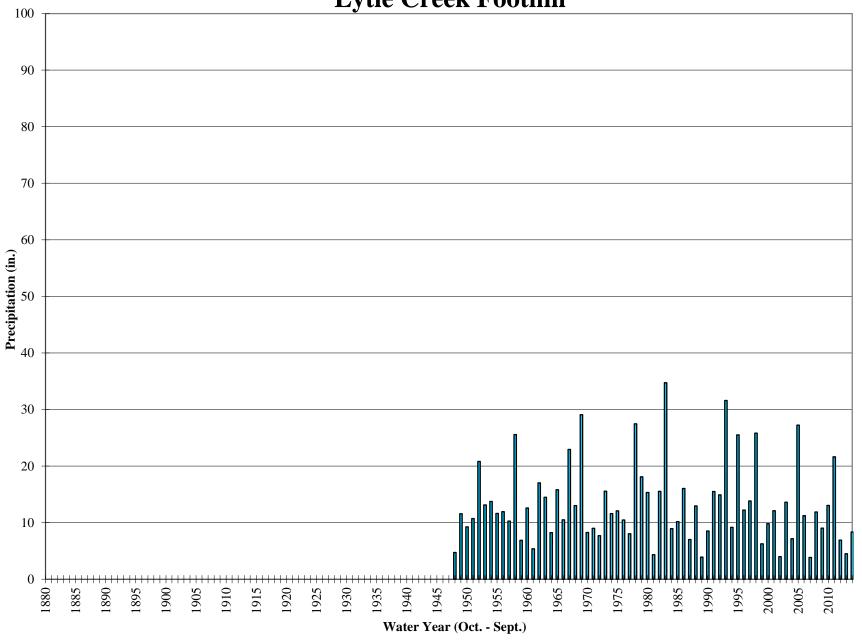
Historic Annual Precipitation LC FS



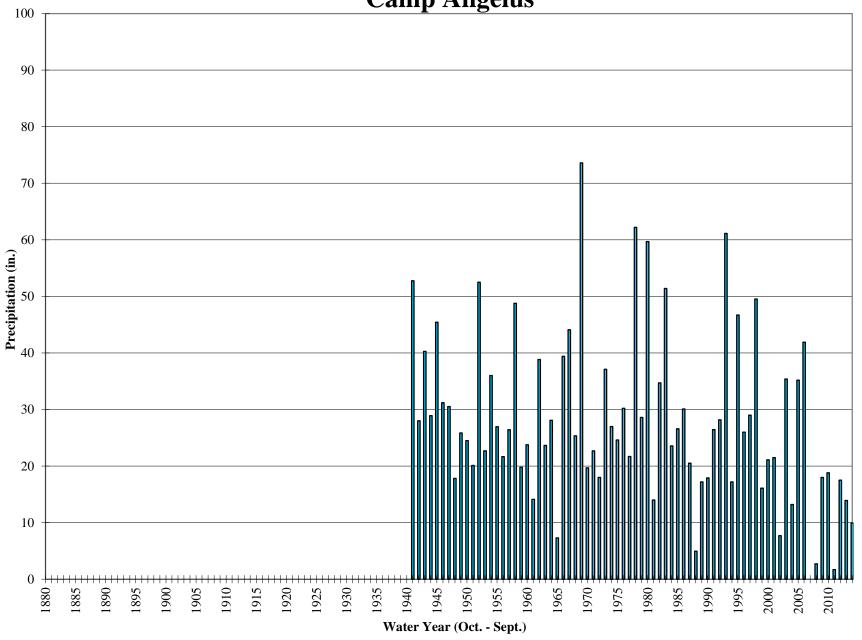
Historic Annual Precipitation Redlands - Roth



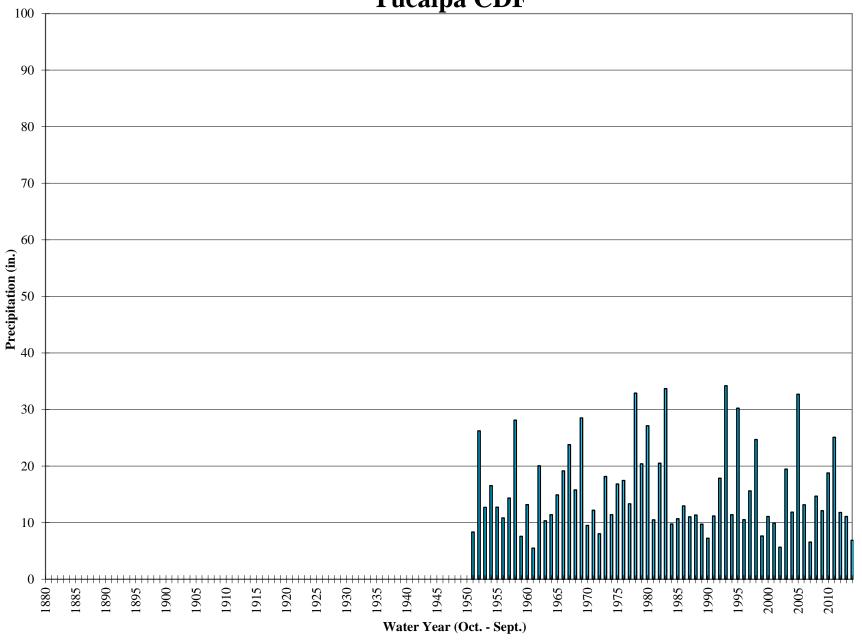
Historic Annual Precipitation Lytle Creek Foothill



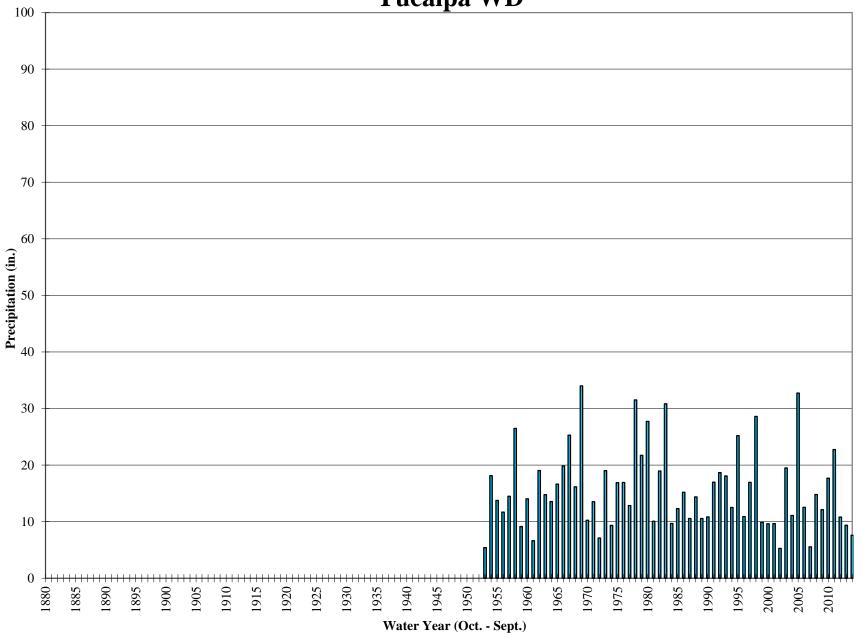
Historic Annual Precipitation Camp Angelus



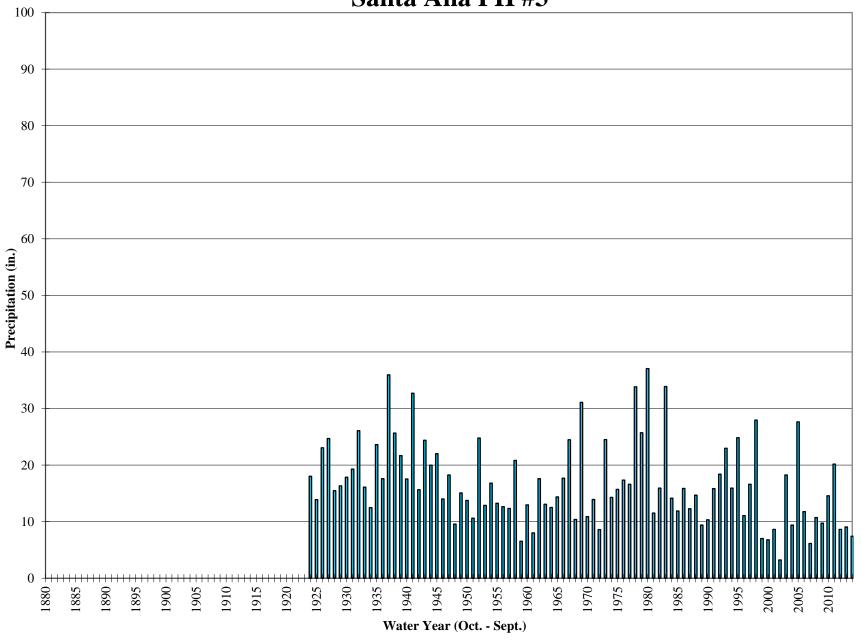
Historic Annual Precipitation Yucaipa CDF



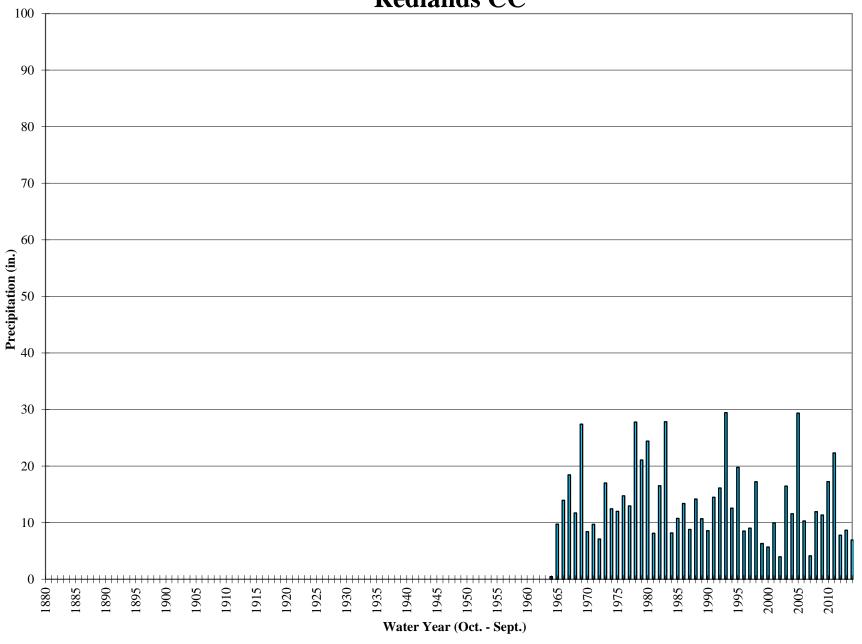
Historic Annual Precipitation Yucaipa WD



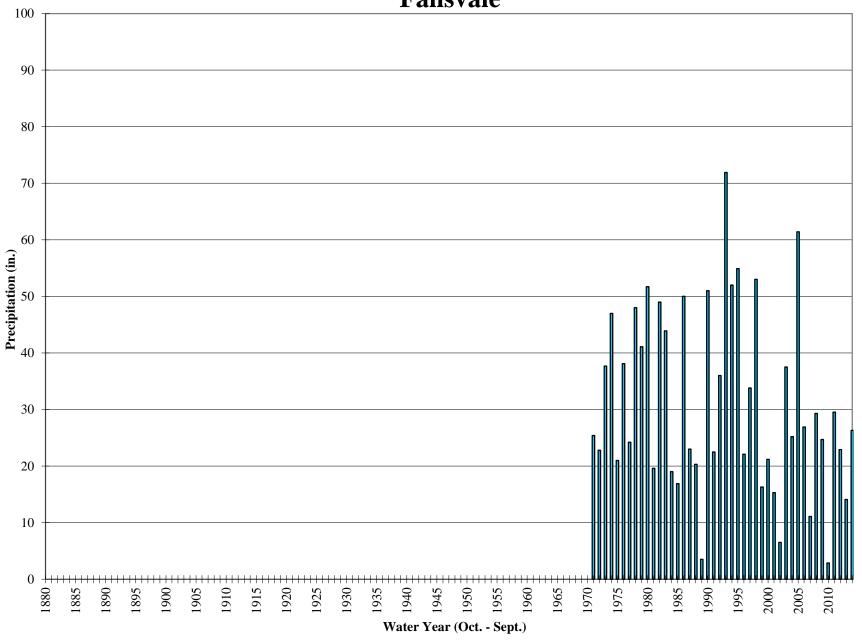
Historic Annual Precipitation Santa Ana PH #3



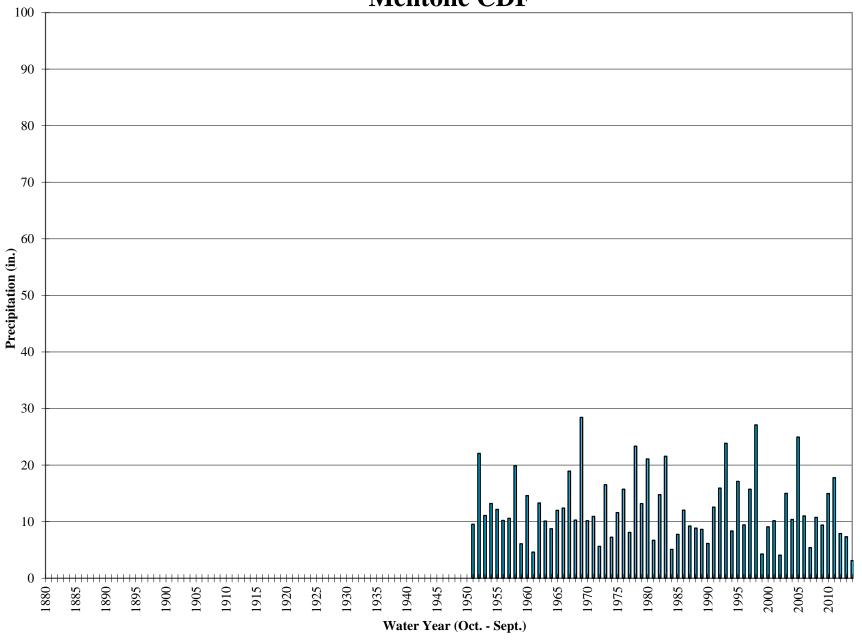
Historic Annual Precipitation Redlands CC



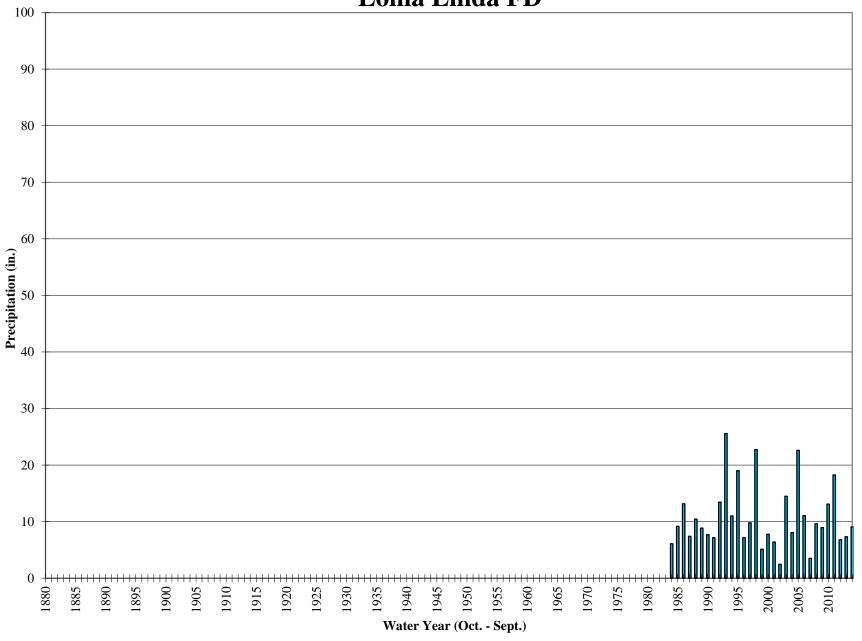
Historic Annual Precipitation Fallsvale



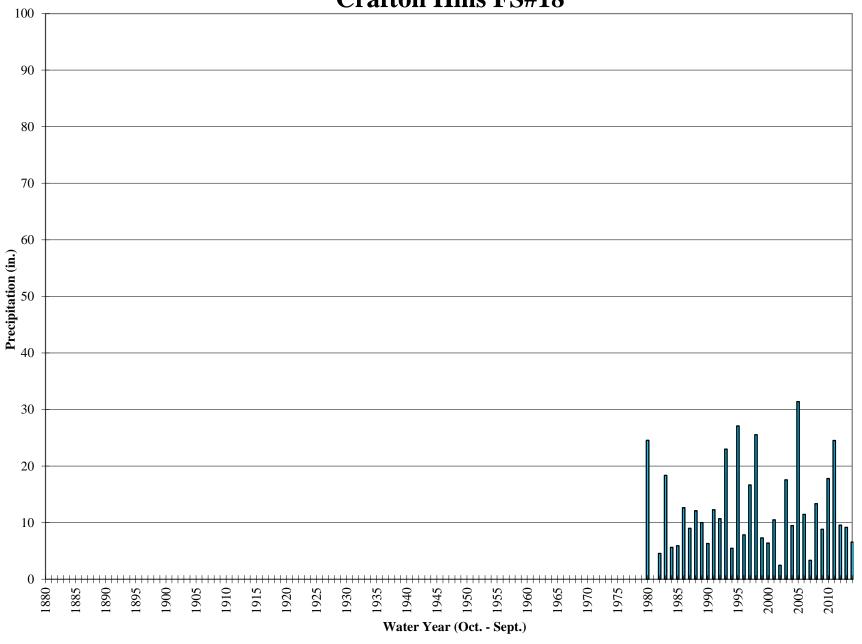
Historic Annual Precipitation Mentone CDF



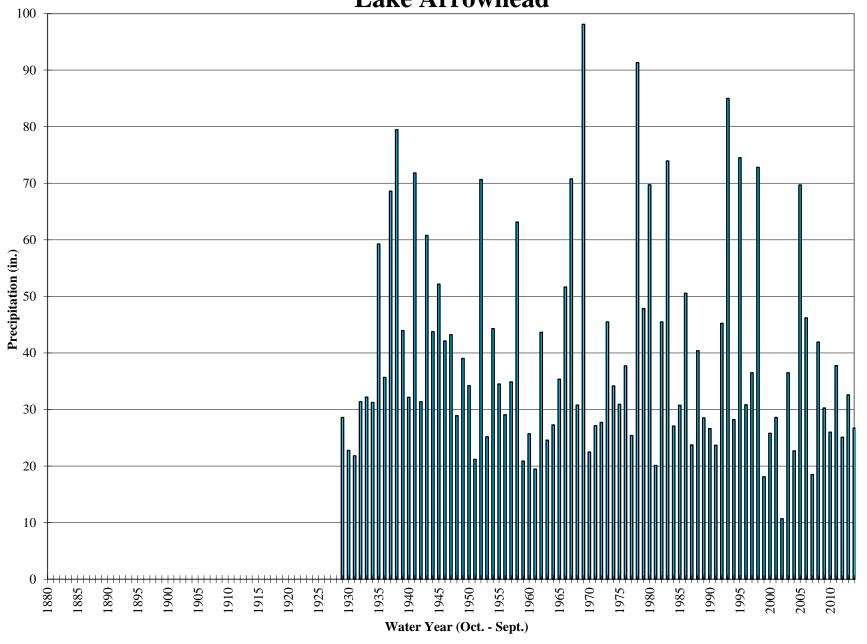
Historic Annual Precipitation Loma Linda FD



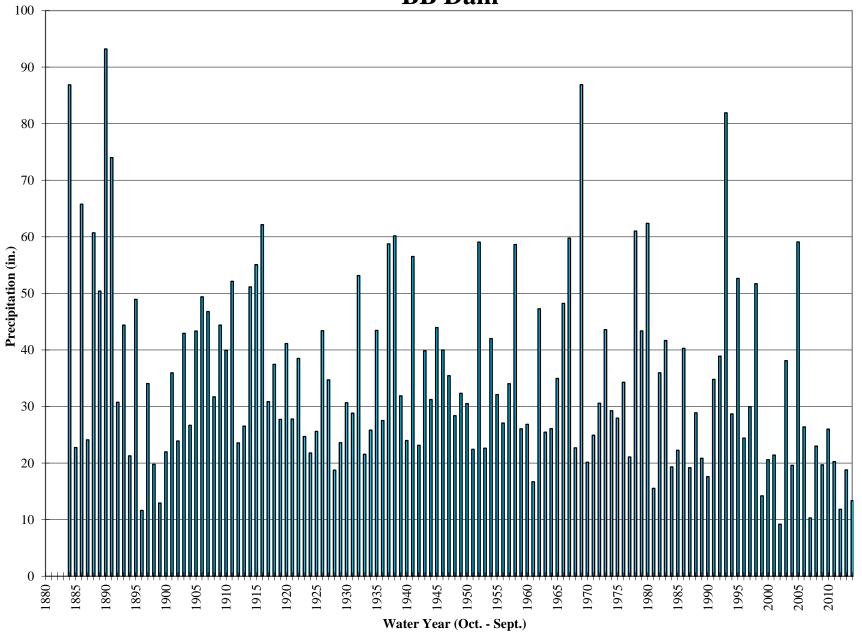
Historic Annual Precipitation Crafton Hills FS#18



Historic Annual Precipitation Lake Arrowhead



Historic Annual Precipitation BB Dam



Historic Annual Precipitation Big Bear City-BBCSD

