



2008 - 2009

ENGINEERING INVESTIGATION

BUNKER HILL BASIN



GROUNDWATER CONDITIONS IN THE

SAN BERNARDINO VALLEY WATER CONSERVATION DISTRICT



ENGINEERING INVESTIGATION Bunker Hill Basin 2008-2009

**Groundwater Conditions in the
San Bernardino Valley Water Conservation District**

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- **City of Colton**
- **City of San Bernardino**
- **East Valley Water District**
- **Gage Canal Company**
- **City of Riverside**
- **City of Redlands**
- **West Valley Water District**
- **Riverside Highland Water Company**
- **United States Geological Survey, Santee, CA Office**
- **Western Municipal Water District**
- **San Bernardino Valley Municipal Water District**
- **Watermaster Support Services**
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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** for locations.

- Task 1.** Annual change in storage for the Bunker Hill Basin for the preceding water year (Fall 2007 to Fall 2008);
- Task 2.** Accumulated change in storage of the Bunker Hill Basin as of the last day of the preceding water year (June 30, 2008);
- Task 3.** Total groundwater production from the Bunker Hill Basin for the preceding water year (July 1, 2007 - June 30, 2008);
- Task 4.** Estimate of the annual change in the Bunker Hill Basin storage for the current water year (July 1, 2008 - June 30, 2009);
- Task 5.** Estimate of the annual change in the Bunker Hill Basin storage for the ensuing water year (July 1, 2009 - June 30, 2010);
- Task 6.** Average annual change in Bunker Hill Basin storage for the immediate past ten water years (1998 - 2008);
- Task 7.** Estimated amount of agricultural water and other than agricultural water to be withdrawn from the groundwater supplies of the District for the ensuing water year (July 1, 2009 - June 30, 2010);
- 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, 2009 - June 30, 2010); 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, 2009 - June 30, 2010).



To make the findings and determinations listed above, District staff researched available hydrogeologic 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 was developed. This relationship, based on empirical data, 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 historic water level changes throughout the Bunker Hill Basin.

Based on 20 measuring stations, precipitation throughout the contributing watershed was 88 percent of normal for the period October 1, 2007 to September 31, 2008. The amount of groundwater storage in the Bunker Hill Basin decreased by 2,600 acre-feet.

The required findings for the 2009 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.



Summary of Findings for the 2009 Engineering Investigation

Task 1. Annual change in storage for the Bunker Hill Basin for the preceding water year (Fall 2008 groundwater levels)

- Change in storage between Fall 2007 and Fall 2008 (See Table 3)

-2,600 acre-feet (decrease)

The amount of water stored in the Basin decreased by 2,600 acre-feet between 2007 and 2008.

Task 2. Accumulated change in storage of the Bunker Hill Basin as of the last day of the preceding water year (June 30, 2008)

- Accumulated change in storage between Fall 1993 and Fall 2008¹ (See Table 4)

-362,200 acre-feet (decrease)

The amount in storage in the Fall of 2008 is 362,200 acre-feet less than in the Fall of 1993.

Task 3. Total groundwater production from the Bunker Hill Basin for the preceding water year (July 1, 2007 - June 30, 2008) (See Table 5)

80,355 acre-feet

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 the flooding of basements due to 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.



Task 4. Estimate of the annual change in the Bunker Hill Basin storage for the current water year (July 1, 2008 - June 30, 2009)

-8,628 acre-feet (decrease)

The amount of water in the Basin is estimated to decrease by also 8,628 acre-feet 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, 2009 - June 30, 2010)

-8,628 acre-feet (decrease)

The amount of water in the Basin is estimated to decrease by 8,628 acre-feet during the ensuing water year.

Task 6. Average annual change in Bunker Hill Basin storage for the immediate past 10 water years (1998 - 2008) (See Table 7)

-32,400 acre-feet (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, 2009 - June 30, 2010) (See Page 21)

- Estimated amount of agricultural water withdrawn from the groundwater supplies within the District boundary for the ensuing water year (July 1, 2009 - June 30, 2010)

27,777 acre-feet



- Estimated amount of other than agricultural water withdrawn from the groundwater supplies of the District for the ensuing water year (July 1, 2009 - June 30, 2010)

201,024 acre-feet

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, 2009 - June 30, 2010)

- Estimated amount of water necessary for surface distribution for the ensuing water year (July 1, 2009 - June 30, 2010) for the Bunker Hill Basin (Used Table 8, 2007 Average)

42,223 acre-feet

- Estimated amount of water necessary for surface distribution for the ensuing water year (July 1, 2009 - June 30, 2010) within the District boundary

33,340 acre-feet

Task 9. The amount of water necessary from all sources, including natural recharge, to maintain constant groundwater supplies in the Bunker Hill Basin for the ensuing water year (July 1, 2009 to June 30, 2010)

- The amount of water necessary from all sources, including natural recharge, to maintain constant groundwater supplies in the Bunker Hill Basin for the ensuing water year (July 1, 2009 to June 30, 2010)

205,650 acre-feet



- The amount of water necessary from all sources, including natural recharge, to maintain constant groundwater supplies within the District boundary for the ensuing water year (July 1, 2009 to June 30, 2010)

223,122 acre-feet

- The amount of water necessary from all sources, including natural recharge, to bring the basin back to "full" in the ensuing water year (July 1, 2009 to June 30, 2010)

576,278 acre-feet

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 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 2008-09 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.



Based on the results of the 2009 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 362,000 acre-feet below that which is considered full for purposes of this Investigation.
- During the ensuing water year (July 1, 2009 to June 30, 2010), the Bunker Hill Basin can be recharged, from all sources, with 576,278 acre-feet of water. This recharge quantity is needed to maintain the 1993 storage level considered full.
- The District should continue to take the necessary steps to enhance its capability to conduct recharge operations, which includes consideration 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.



2.0 Introduction

2.1 Purpose and Scope

The San Bernardino Valley Water Conservation District (District) was created by popular vote 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 percent of the Bunker Hill Basin. **Figure 1** displays the project area map for the Engineering Investigation. It includes the District boundary along with its location relative to the Interstate and State highways.

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.

- Task 1.** Annual change in storage for the Bunker Hill Basin for the preceding water year (Fall 2007 to Fall 2008);
- Task 2.** Accumulated change in storage of the Bunker Hill Basin as of the last day of the preceding water year (June 30, 2008);
- Task 3.** Total groundwater production from the Bunker Hill Basin for the preceding water year (July 1, 2007 - June 30, 2008);



-
- Task 4.** Estimate of the annual change in the Bunker Hill Basin storage for the current water year (July 1, 2008 - June 30, 2009);
- Task 5.** Estimate of the annual change in the Bunker Hill Basin storage for the ensuing water year (July 1, 2009 - June 30, 2010);
- Task 6.** Average annual change in Bunker Hill Basin storage for the immediate past ten water years (1998 - 2008);
- 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, 2009 - June 30, 2010);
- 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, 2009 - June 30, 2010); 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, 2009 - June 30, 2010).

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, based on empirical data, enables the prediction of change in storage, given certain annual production and precipitation levels. 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. 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 presented on **Figure 2**.

The major streams providing inflows and outflows for the Bunker Hill Basin are also provided on **Figure 2**. 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 percent of the Santa Ana River flow 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 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. Precipitation in the region is highly variable depending on location and elevation. Historical annual averages range from 10.8 inches near Loma Linda Fire Department located at the southwest end of the basin to over 40.6 inches at Lake Arrowhead located at the upper end of the mountain watershed contributing flow to the basin. Precipitation data provided by the Water Resources Division of the San Bernardino County Department of Transportation for 20 stations are summarized in **Table 1** and displayed on **Figure 3**.

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 the Bunker Hill Basin is separate from the Lytle Groundwater Basin, but receives groundwater underflow from the Lytle Basin.



For the purposes of this report, the definition of the Bunker Hill Basin is extended to include the Lytle Basin.

- ◆ Production - 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, 2007 through June 30, 2008.
- ◆ Current Water Year - As per the California Water Code, the current water year is the period July 1, 2008 through June 30, 2009.
- ◆ Ensuing Water Year - As per the California Water Code, the ensuing water year is the period July 1, 2009 through June 30, 2010.

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 2008 groundwater elevations and preceding water year (July 2007 to June 2008) 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 Rialto
- City of Riverside



-
- City of San Bernardino
 - East Valley Water District
 - Elsinore Valley Municipal Water District/Meeks and Daley Water Company
 - Gage Canal Company
 - Geologic Associates
 - Loma Linda University
 - Patton State Hospital
 - Redlands Farming, Inc.
 - Riverside – Highland Water Company
 - San Bernardino County Department of Transportation and Flood Control
 - San Bernardino Valley Municipal Water District
 - West Valley Water District
 - Western Municipal Water District
 - United States Geological Survey, Santee, CA Office

Data regarding historic diversions from the Santa Ana River, Mill Creek, Plunge Creek, City Creek, Devil Canyon Creek, Cajon Creek, and Lytle Creek were obtained from the following sources:

- San Bernardino Valley Water Conservation District (acting as Project Manager for the Cooperative Water Project - Exchange Plan)
- Western Municipal Water District
- City of San Bernardino
- Watermaster Support Services

Historic precipitation data were obtained from the following sources:

- San Bernardino County Department of Transportation and Flood Control
- Redlands Daily Facts
- Big Bear Grizzly
- WeatherSource.com



3.0 Fall 2008 Groundwater Elevation Contours

The District, the Western Municipal Water District, and the primary water purveyors in the Bunker Hill Basin provided Fall 2008 water level data. Static groundwater elevations for Fall 2008 for wells throughout the Bunker Hill Basin are compiled in **Appendix A**. These elevations were plotted on **Figure 4** for 132 wells using a Geographic Information System (GIS) and groundwater elevation contours for the Bunker Hill Basin were interpreted. For purposes of comparison, Fall 2007 static groundwater elevation contours are provided on **Figure 5**. **Figure 6** shows the delineation of the Bunker Hill Basin into the sub-areas used in this report.

3.1 Hydrographs for Key Wells in the Bunker Hill Basin

To provide an historical perspective of groundwater levels for the Bunker Hill Basin, hydrographs for 21 wells located throughout the basin are shown in **Appendix B**. The locations of these wells are shown on **Figure 7** and the annual changes in water level from Fall 2007 to Fall 2008 are shown in **Table 2**.

4.0 Task 1 - Annual Change in Storage (Fall 2007 to Fall 2008)

4.1 Hydrologic Sub-areas

Using a Geographic Information System, the average groundwater elevation changes were determined for each of the eight hydrologic sub-areas shown on **Figure 6** 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 on **Figure 6**.

4.2 Area and Storativity

Each sub-area and storage unit was digitized to estimate its area. 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 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 2008 groundwater level elevation data were compared with the same from Fall 2007. Measurements for 231 wells were available for both periods and the differences are provided in **Appendix A**. These differences are plotted on **Figure 8** using a graduated symbol color. Those wells with the largest decline in groundwater elevation are shown in red, while those with the largest increase are displayed in blue.

Average changes in groundwater levels 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 2007 to Fall 2008 for the Bunker Hill Basin were calculated using the following formula:



$$Q_{\Delta \text{ storage}} = \sum A_i \times S_i \times \Delta h_i$$

where:

$Q_{\Delta \text{ storage}}$ = 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 2007 and Fall 2008 was a decrease of 2,600 acre-feet.

5.0 **Task 2 - Accumulated Change in Storage (Fall 1993 to Fall 2008)**

For purposes of this report, the accumulated change in storage as of the last day of the preceding water year (June 30, 2008) 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 2008.² The accumulated change in storage as of June 30, 2008 was determined by adding the change in storage for the preceding water year (July 1, 2007 to June 30, 2008) of (-2,600 acre-feet), determined in Section 4.4, to the accumulated change in storage as of June 30, 2007 (-359,400). The result of this calculation is an accumulated decrease in storage for the Bunker Hill Basin of 362,000 acre-feet.

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 the flooding of basements due to 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.



Table 4 summarizes the accumulated change in storage of the Bunker Hill Basin for the period 1988 to 2008 based on 1993 as the “zero accumulated storage year”. The accumulated storage values are also displayed on **Figure 9** with the percent of normal precipitation for the San Bernardino County Hospital station. As would be expected, storage generally increases with above average rainfall and decreases with normal and below average rainfall.

6.0 Task 3 - Total Groundwater Production for the Preceding Water Year (July 1, 2007 to June 30, 2008)

Production data for the preceding water year (July 1, 2007 to June 30, 2008) 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 not available and were estimated using previous year and calendar year 2007 data published by the Western - San Bernardino Watermaster and Western Municipal Water District, respectively.

Appendix C shows the production for each groundwater well in the Bunker Hill Basin for the period July 2007 through June 2008. As summarized on the last page of Appendix C, groundwater production from the Bunker Hill Basin for the preceding water year was approximately 80,355 acre-feet. **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 2007 through June 2008 is shown on **Figure 10**. Each well is displayed with a graduated size symbol based on its annual production. 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 **Task 4** - Estimate of the Annual Change in Storage for the Current Water Year (July 1, 2008 to June 30, 2009)

To estimate annual change in storage for the current water year, a multiple regression analysis was performed for the period between 1991-92 and 2004-05 for three parameters.

- Annual Change in Storage
- Precipitation
- Production

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 were based on a calendar year period instead of the June to July period required in the EI. Since 1991-92 more accurate and more complete production data for the July to June period have 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.

$$Q_{\text{Annual } \Delta \text{ storage}} = -221,564 + 8,171 Q_{\text{prec}} + 0.125 Q_{\text{prod}}$$

where:

$Q_{\text{Annual } \Delta \text{ storage}}$ = Annual 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 11**. 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 average annual precipitation for the representative stations is approximately 22.4 inches (**Table 6**), while the average of the preceding water year was 19.3 inches (86 percent of normal). Historic annual precipitation values are plotted in **Appendix D** for these eight stations and twelve other local stations.

Table 6 shows that for the period between July 2008 and December 2008, precipitation was 100 percent of normal for the eight stations. For purposes of this report, it was assumed that precipitation for the rest of the current water year (January 2009 to June 2009) would be average. Therefore, precipitation for the current water year (July 2008 to June 2009) was estimated to be 100 percent of normal or 22.4 inches of rainfall (1 x 22.4).

Based on these assumptions, the estimated production for the current water year will be approximately 239,245 acre-feet as shown on **Figure 12**. Using this result on **Figure 11**, an estimated change in storage for the current water year (July 2008 to June 2009) of -8,628 acre-feet was determined.

8.0 Task 5 - Estimate of the Annual Change in Storage for the Ensuing Water Year (July 1, 2009 to June 30, 2010)

The annual change in storage for the ensuing water year (July 1, 2009 to June 30, 2010) 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 percent of normal or 22.4 inches. Based on this assumption, the estimated production for the ensuing water year will be approximately 239,245 acre-feet as shown on **Figure 13**. Again, using this result in the nomograph shown on **Figure 11**, the estimated annual change in storage for the ensuing water year (July 1, 2009 to June 30, 2010) is -8,628 acre-feet.



9.0 Task 6 - Average Annual Change in Storage for the Immediate Past Ten Water Years

Table 7 shows the average annual change in storage for the immediate past ten water years (Fall 1998 to Fall 2008) 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 -32,400 acre-feet.

10.0 Task 7 - Estimated Amount of Agricultural Water and Other Than Agricultural Water to be Withdrawn for the Ensuing Water Year (July 1, 2009 to June 30, 2010)

The estimated amount of agricultural water and other than agricultural water to be withdrawn within the District for the ensuing water year (July 1, 2009 to June 30, 2010) was based on the following equations:



$$Q_{agr(09-10)} = Q_{agr(07-08)} \times \left[\frac{(Q_{total(09-10)} - Q_{surf(09-10)})}{(Q_{total(07-08)} - Q_{surf(07-08)})} \right]$$

and

$$Q_{non-agr(09-10)} = Q_{non-agr(07-08)} \times \left[\frac{(Q_{total(09-10)} - Q_{surf(09-10)})}{(Q_{total(07-08)} - Q_{surf(07-08)})} \right]$$

where:

- $Q_{agr(09-10)}$ = Agricultural use within the District for the ensuing water year, acre-ft
- $Q_{agr(07-08)}$ = Agricultural use within the District for the preceding water year, acre-ft (9654 from Appendix C)
- $Q_{total(09-10)}$ = Production (including surface diversion) from the Bunker Hill Basin for the ensuing water year, acre-ft (= 239,245 from Figure 13)
- $Q_{total(07-08)}$ = Production (including surface diversion) from the Bunker Hill Basin for the preceding water year, acre-ft (= 138,245 from Appendix C)
- $Q_{non-agr(09-10)}$ = All other uses within the District for the ensuing water year, acre-ft
- $Q_{non-agr(07-08)}$ = All other uses within the District for the preceding water year, acre-ft (= 69,866 from Appendix C)
- $Q_{surf(09-10)}$ = Surface diversions from the Bunker Hill Basin for the ensuing water year, acre-ft (= 42,223 from Table 8)
- $Q_{surf(07-08)}$ = Surface diversions from the Bunker Hill Basin for the preceding water year, acre-ft (= 54,691 from Appendix C)

Data on agricultural use and all other uses within the District for the preceding water year (July 1, 2007 to June 30, 2008) are provided in **Appendix C**. For the period July 1, 2007 through June 30, 2008 approximately 9654 acre-feet of groundwater was produced for agricultural applications within the San Bernardino Valley Water Conservation District boundary. For the same period, approximately 69,866 acre-feet of groundwater was produced for all other uses within the District boundary. Using the equations presented above with the following values inserted:



$$Q_{agr(07-08)} = 9,654 \text{ acre-feet}$$

$$Q_{total(09-10)} = 239,245 \text{ acre-feet}$$

$$Q_{total(07-08)} = 138,341 \text{ acre-feet}$$

$$Q_{non-agr(07-08)} = 69,866 \text{ acre-feet}$$

$$Q_{surf(09-10)} = 42,222 \text{ acre-feet}$$

$$Q_{surf(07-08)} = 69,866 \text{ acre-feet}$$

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

$$\begin{aligned} Q_{agr(09-10)} &= 9,654 \times [(239,245 - 42,223) / (138,341 - 69,866)] \\ &= 27,777 \text{ acre-feet} \end{aligned}$$

$$\begin{aligned} Q_{non-agr(09-10)} &= 69,866 \times [(239,245 - 42,223) / (138,341 - 69,866)] \\ &= 201,024 \text{ acre-feet} \end{aligned}$$

By summing these two results, it is estimated that a total of 228,801 acre-feet of groundwater will be withdrawn within the District for the ensuing water year (July 1, 2009 to June 30, 2010).



11.0 Task 8 - Estimated Amount of Water for Surface Distribution for the Ensuing Water Year (July 1, 2009 to June 30, 2010)

The amount of water for surface distribution for the ensuing water year (July 1, 2009 to June 30, 2010) was estimated based on the average surface diversions for the Santa Ana River, Mill Creek, and Lytle Creek for the period 1983 to 2007.

As shown in **Table 8**, average surface diversions for the Santa Ana River, Mill Creek, and Lytle Creek between 1983 and 2007 were 22,251, 11,089 and 8,612 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, 2009 to June 30, 2010) is found by summing the diversions as follows:

$$\text{Bunker Hill Surface Distribution} = 22,251 + 11,089 + 8,612 = 42,223 \text{ acre-feet}$$

As Lytle Creek is not within the District, the estimated amount of surface distribution from the District for the ensuing water year (July 1, 2009 to June 30, 2010) is the sum of the Santa Ana River and Mill Creek distributions.

$$\text{District Surface Distribution} = 22,251 + 11,089 = 33,340 \text{ acre-feet}$$

12.0 Task 9 - Estimated Amount of Water for Replenishment of the Groundwater Supplies for the Ensuing Water Year (July 1, 2009 to June 30, 2010)

The amount of water necessary from all sources, including natural recharge, to maintain constant groundwater supplies in the Bunker Hill Basin for the ensuing water year (July 1, 2009 to June 30, 2010) is estimated as follows:



Replenishment = Total Production - Surface Diversions - Change in Storage

or,

$$Q_{\text{Replenishment (09-10)}} = Q_{\text{prod (09-10)}} - Q_{\text{surf (09-10)}} + Q_{\text{Annual } \Delta \text{ storage (09-10)}}$$

The estimated production and surface diversions from the Bunker Hill Basin for the ensuing water year (July 1, 2009 to June 30, 2010) were estimated as approximately 239,245 acre-feet (from **Figure 13**) and 42,223 acre-feet (from **Table 8**), respectively. The estimated change in storage determined in Section 8.0 and shown on **Figure 11** is a decrease of 8,628 acre-feet. Therefore, the amount of water necessary for replenishment of the groundwater supplies of the Bunker Hill Basin is estimated as follows:

$$Q_{\text{Replenishment (09-10)}} = 239,245 - 42,223 + 8,628 = 205,650 \text{ acre-feet}$$

The amount of water necessary to maintain constant groundwater supplies within the District for the ensuing water year (July 1, 2009 to June 30, 2010) is estimated using the same equation as shown above, but substituting values for the District area. The estimated production within the District for the ensuing water year is estimated as approximately 228,801 acre-feet (from Section 10.0) and 33,340 acre-feet (from Section 11.0), respectively. The change in storage for the ensuing water year for the District is estimated as a decrease of 4,314 acre-feet (assumed to be half of the Bunker Hill Basin). Therefore, the amount of water necessary for replenishment of the District's groundwater supplies for the ensuing water year (July 1, 2009 to June 30, 2010) is:

$$Q_{\text{Dist Replenishment (09-10)}} = (228,801 + 33,340) - (33,340 + 4,314) = 223,122 \text{ acre-feet}$$

The amount of groundwater recharge that must occur from all sources, including natural recharge, in order to bring the basin back to "full" in the ensuing water year is determined as follows:



$$Q_{\text{Replenishment}} = Q_{\text{Accumulated } \Delta \text{ storage (93-08)}} + Q_{\text{Annual } \Delta \text{ storage (08-09)}} + Q_{\text{Replenishment (09-10)}}$$

$$Q_{\text{Replenishment}} = 362,000 + 8,628 + 205,650 = 576,278 \text{ acre-feet}$$

13.0 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 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 2009-10 year the entire District will remain as a single zone in regard to any groundwater charge.

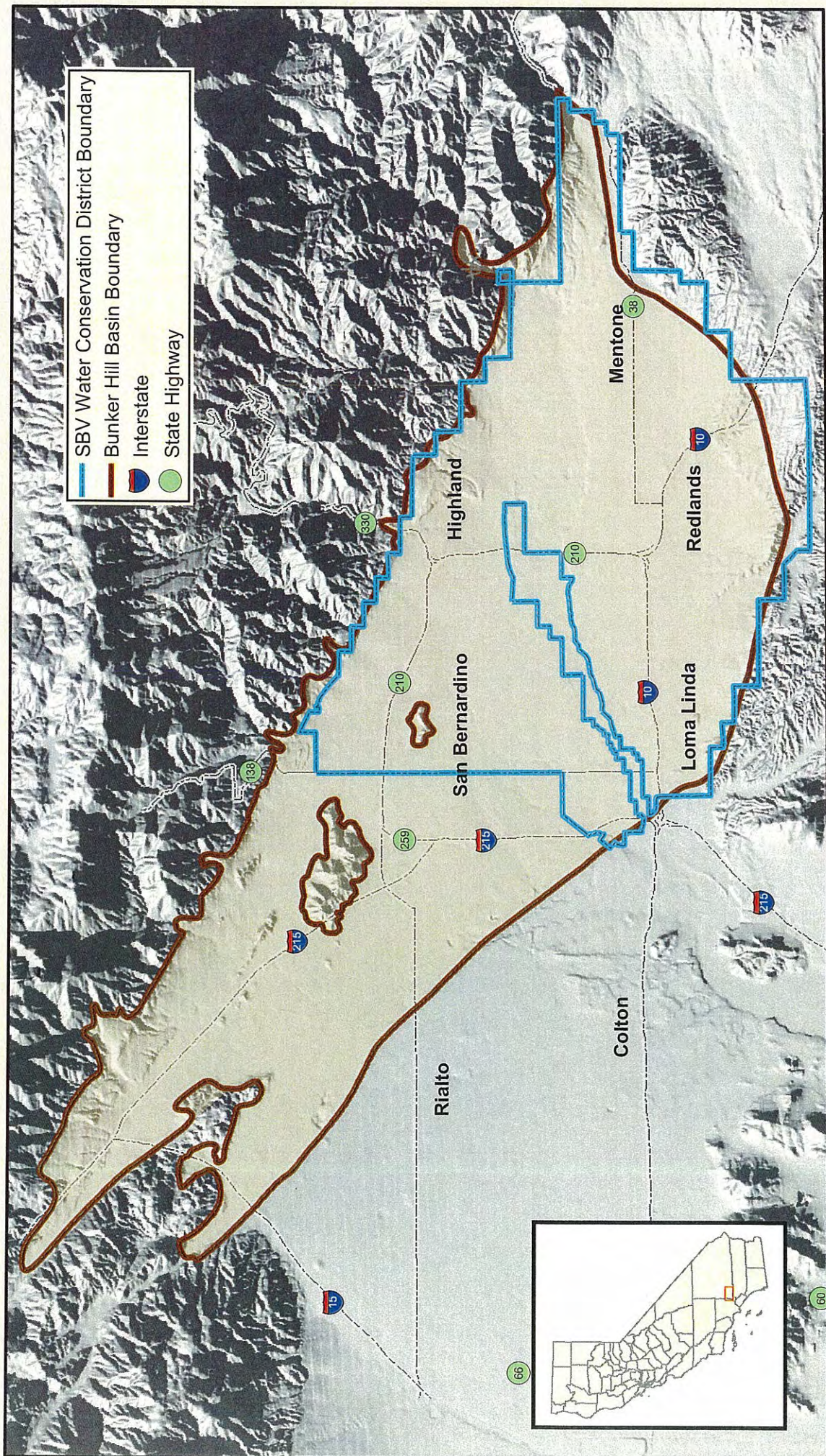
Section 75561 of the California Water Code further requires the Engineering Investigation to include a finding related to the amount of water the District is obligated by contract to purchase. At this time the District has no contractual obligation to purchase water for the replenishment of the groundwater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





14.0 Conclusions

Based on the results of the 2009 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 362,000 acre-feet below that which is considered full for purposes of this Investigation.
 - During the ensuing water year (July 1, 2009 to June 30, 2010), the Bunker Hill Basin can be recharged, from all sources, with 576,278 acre-feet of water. This recharge quantity is derived by 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 District should continue to take the necessary steps 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.



-  SBV Water Conservation District Boundary
-  Bunker Hill Basin Boundary
-  Interstate
-  State Highway

State Plane
 NAD 83, Zone V, feet
 30M DEM



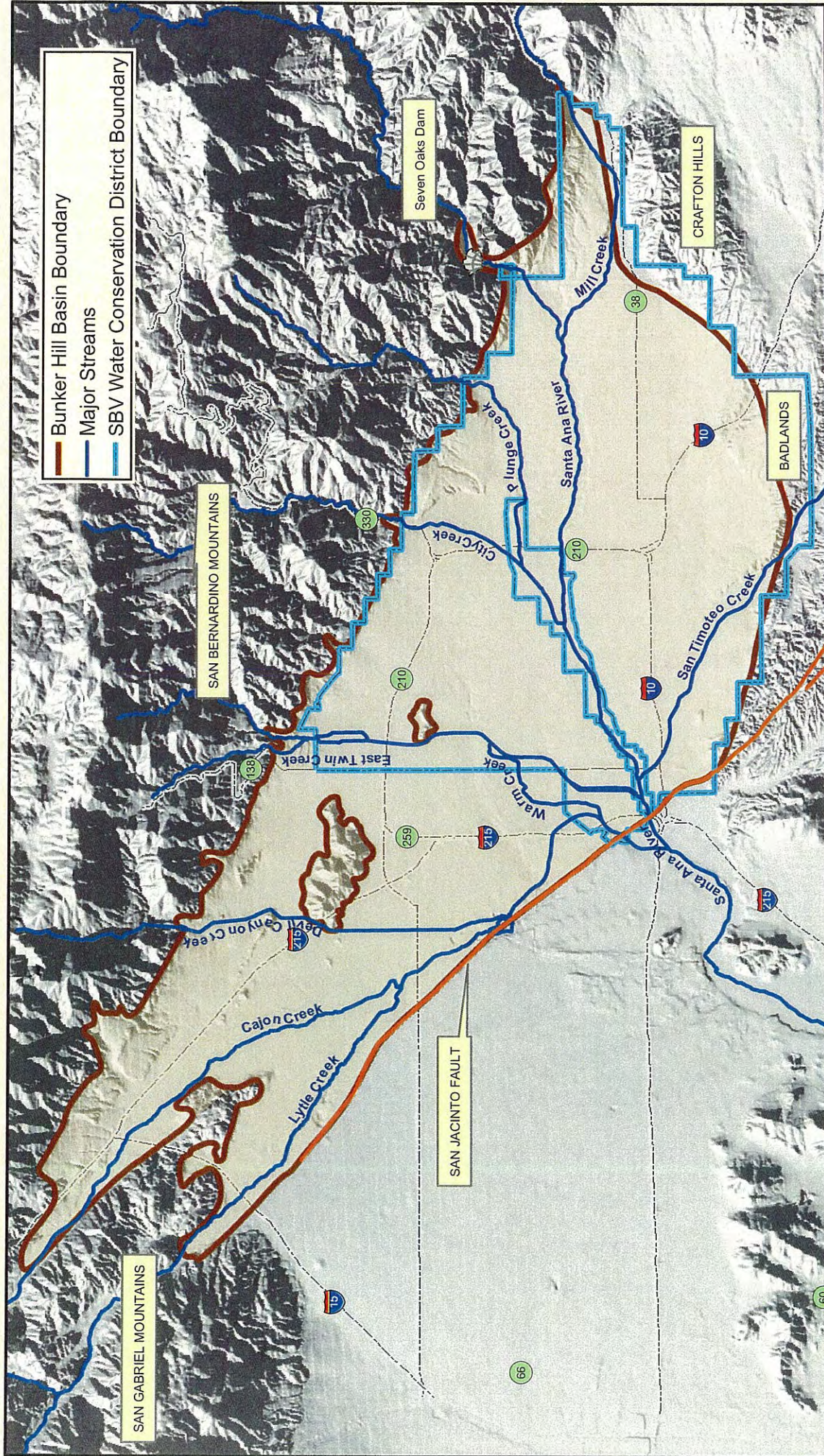
Project Area Map

Engineering Investigation
 March 2009

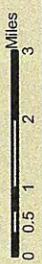


Source: SBVWCD GIS

Figure 1



State Plane
 NAD 83, Zone V, feet
 30M DEM



Bunker Hill Basin Watershed

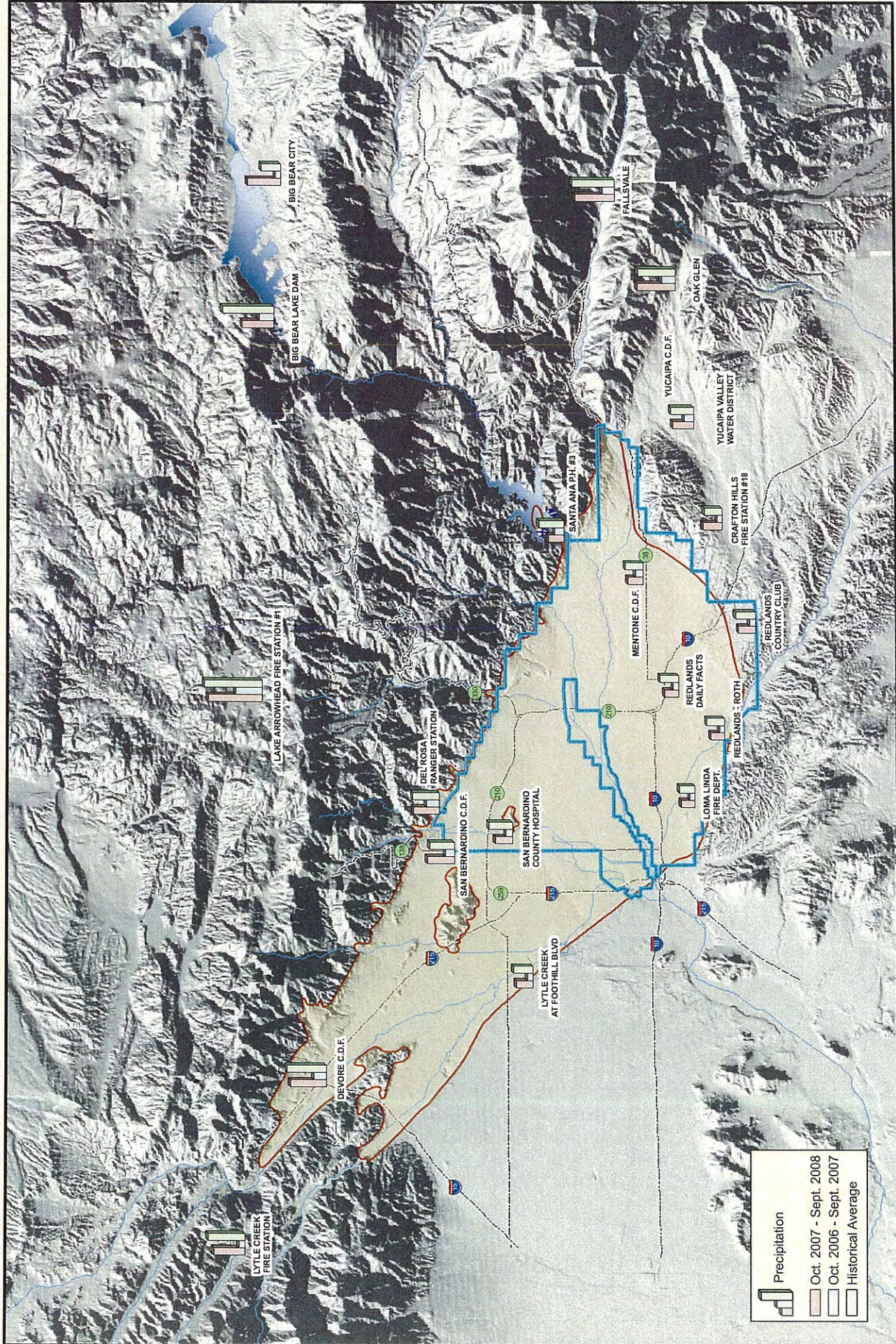
Engineering Investigation
 March 2009



Source: SBVWCD GIS



Figure 2



Precipitation	
[Light Blue Box]	Oct. 2007 - Sept. 2008
[Dark Blue Box]	Oct. 2006 - Sept. 2007
[Light Green Box]	Historical Average

State Plane
 NAD 83, Zone V, feet
 30 M DEM



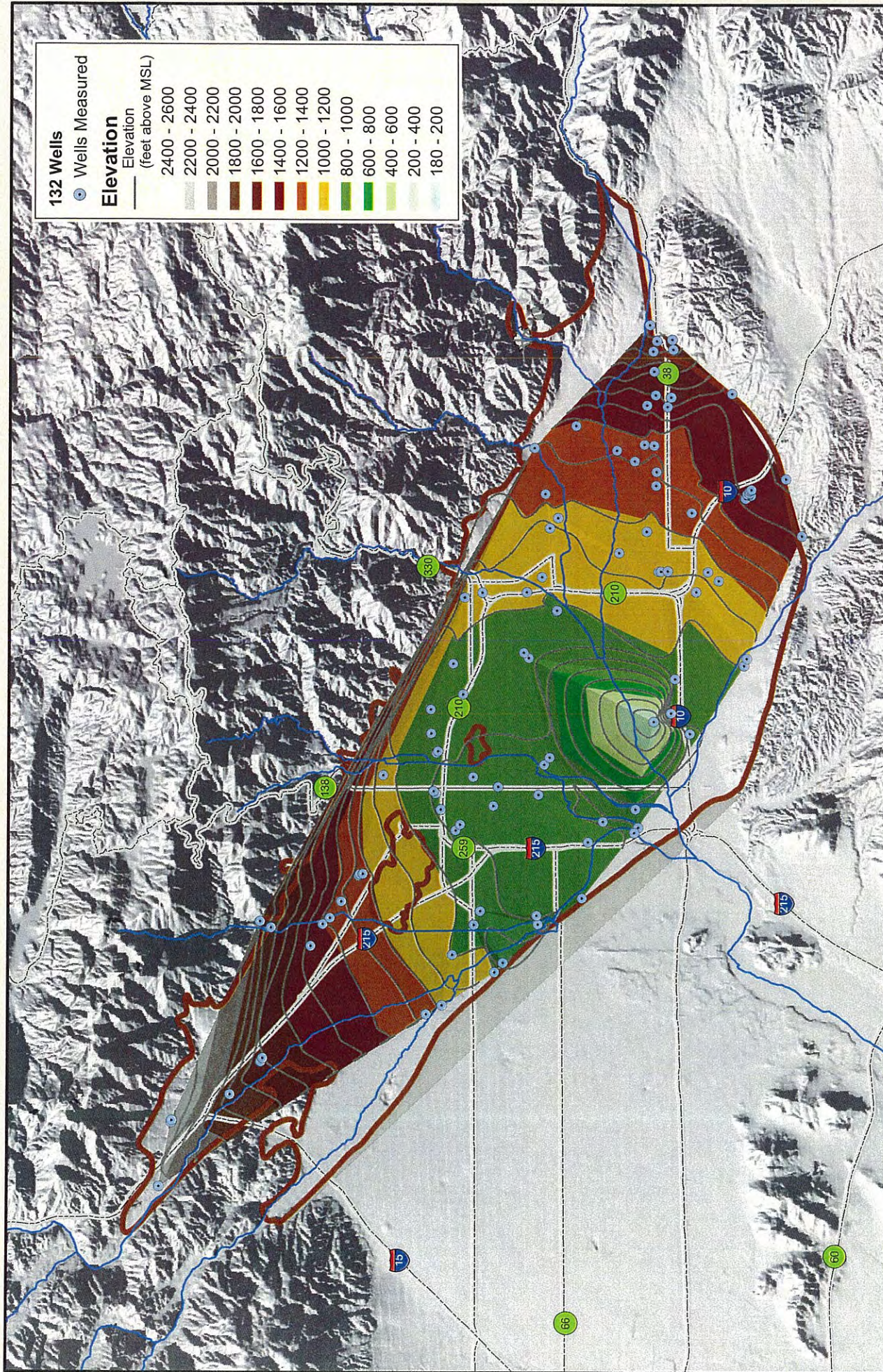
Annual Precipitation for 2006-2008 Compared to Historical Average

Engineering Investigation
 March 2009

Source: SBWCD GIS



Figure 3



State Plane
NAD 83, Zone V, feet
30M DEM



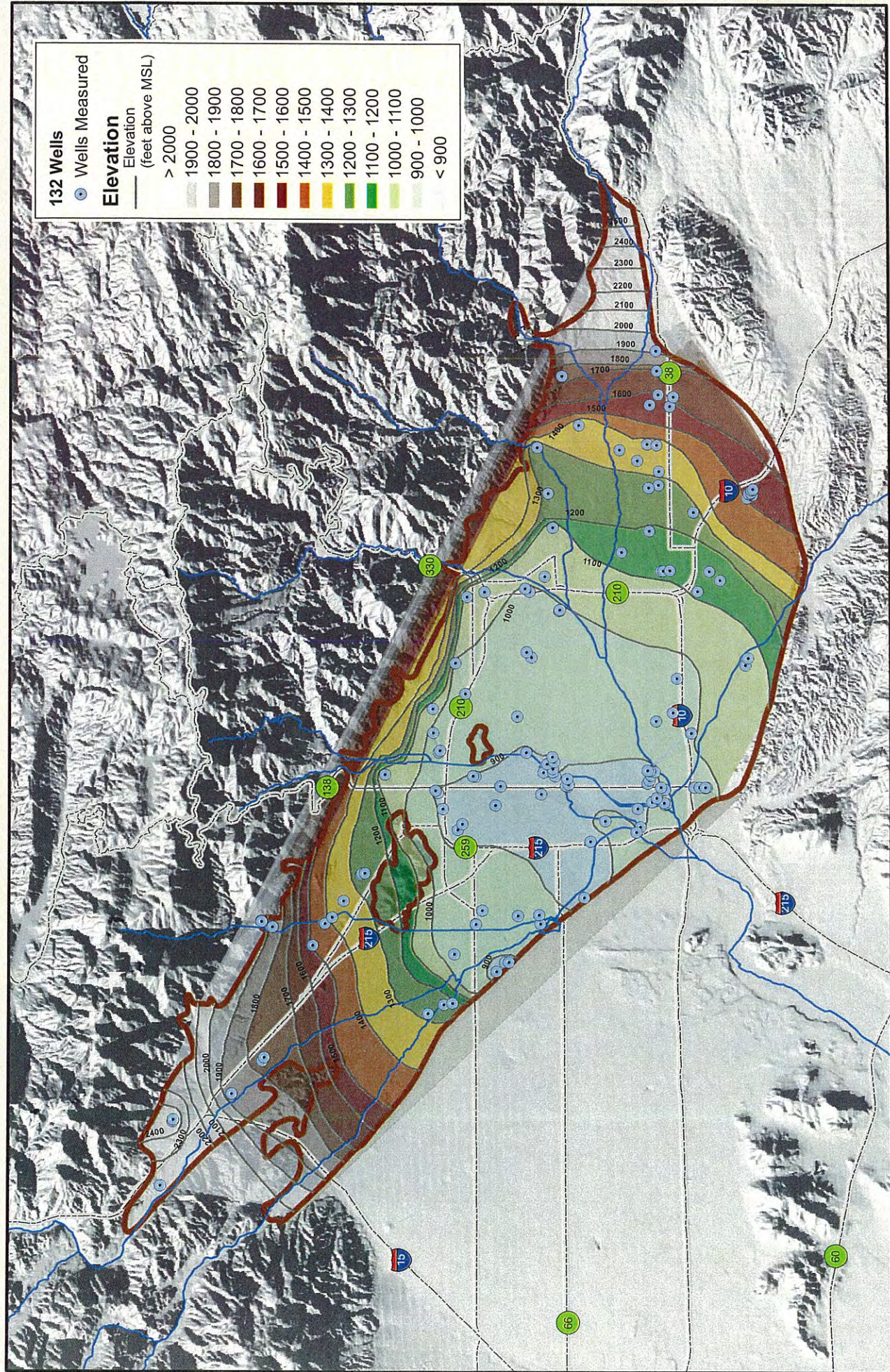
Fall 2008 Conceptual Groundwater Contours

Engineering Investigation
March 2009

Source: SBVWCD GIS



Figure 4



State Plane
NAD 83, Zone V, feet
30M DEM



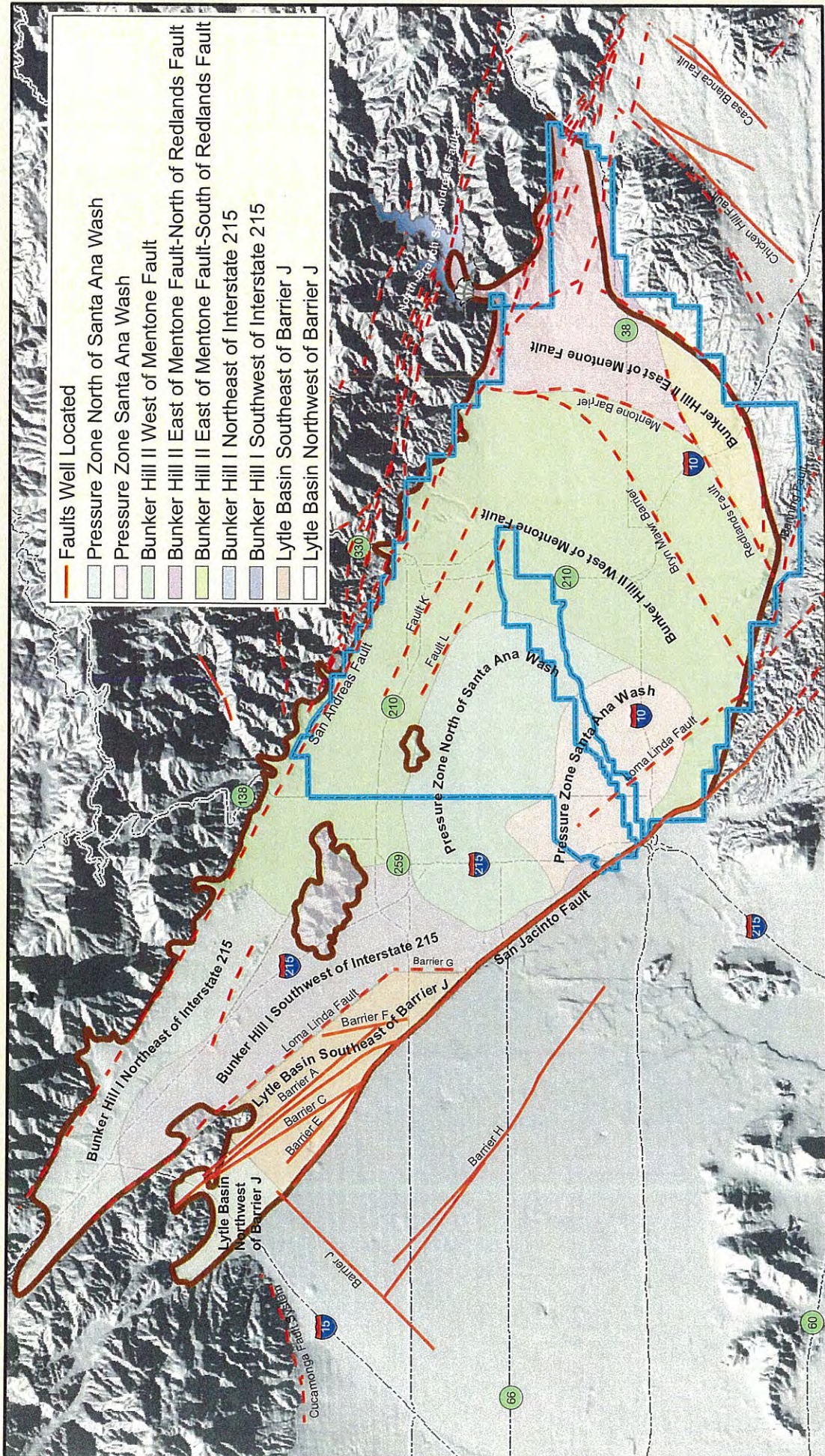
Fall 2007 Conceptual Groundwater Contours

Engineering Investigation
March 2009

Source: SBVMCD GIS



Figure 5



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



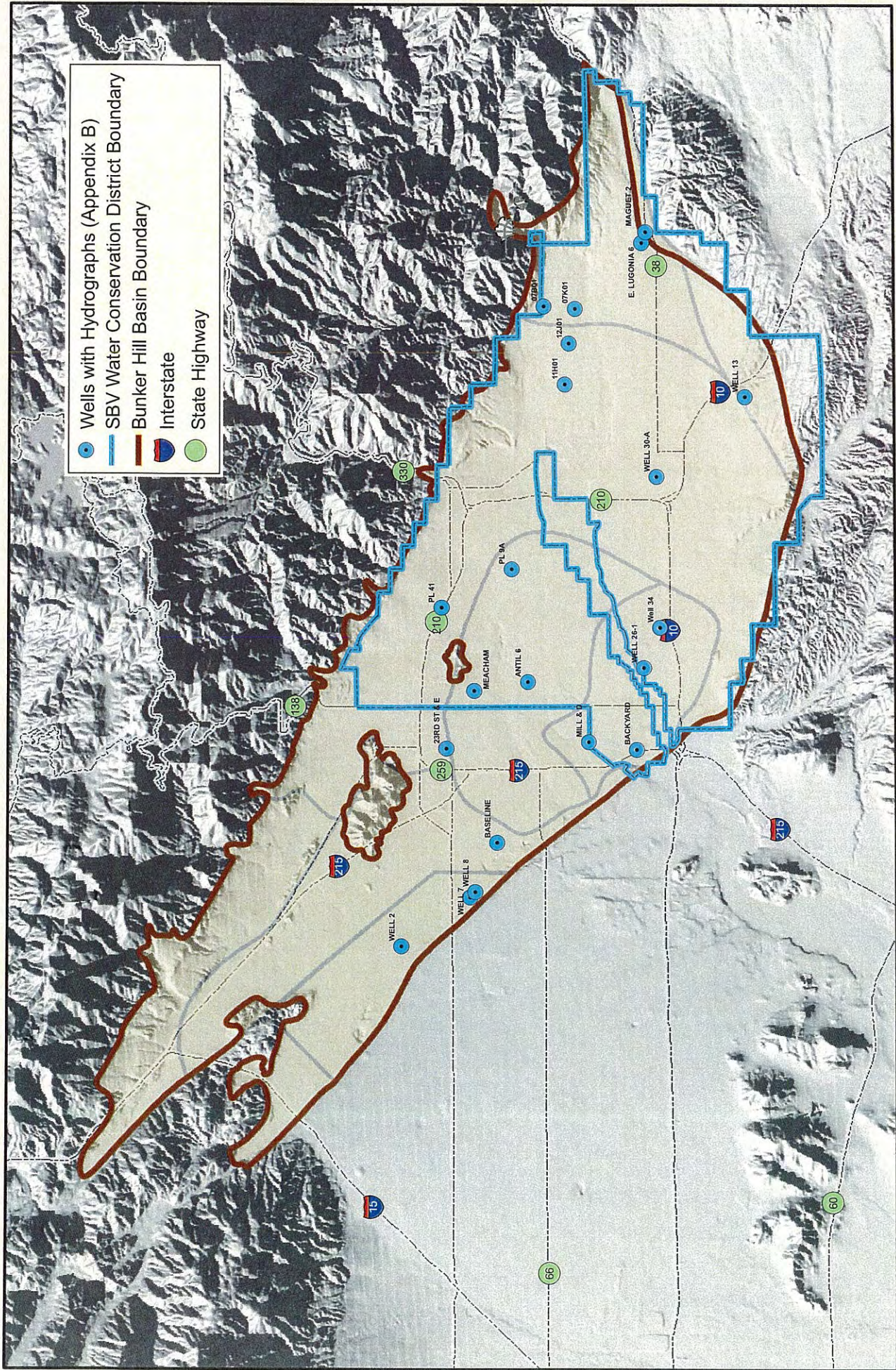
Engineering Investigation
March 2009

Source: SBVWCD GIS

Sub-Areas of Bunker Hill Basin

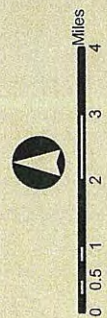
State Plane
NAD 83, Zone V, feet
30 M DEM

Figure 6



- Wells with Hydrographs (Appendix B)
- SBV Water Conservation District Boundary
- Bunker Hill Basin Boundary
- Interstate
- State Highway

State Plane
NAD 83, Zone V, feet
30M DEM



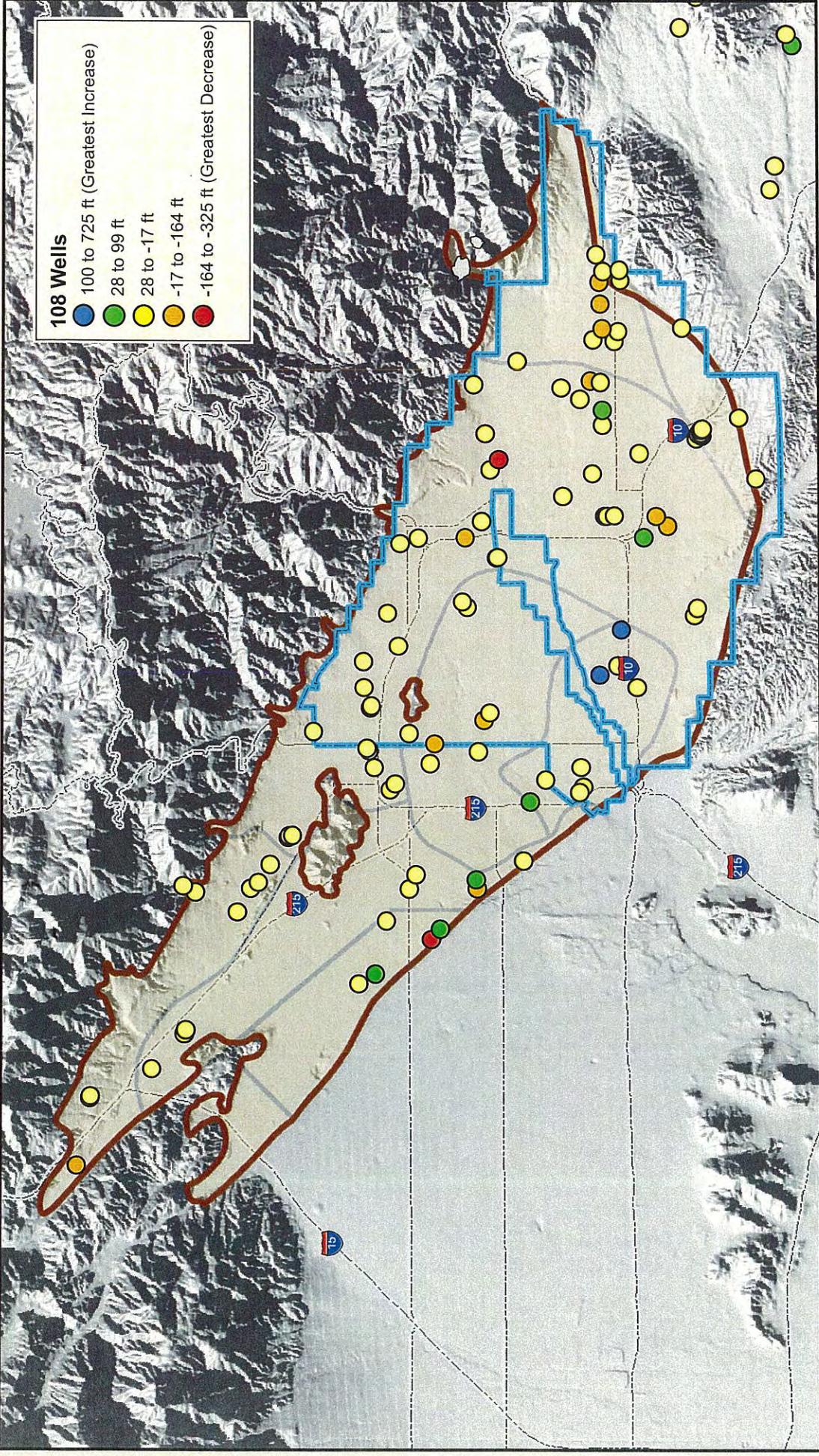
Locations of Wells with Hydrographs

Engineering Investigation
March 2009

Source: SBVWCD GIS



Figure 7



- 108 Wells**
- 100 to 725 ft (Greatest Increase)
 - 28 to 99 ft
 - 28 to -17 ft
 - -17 to -164 ft
 - -164 to -325 ft (Greatest Decrease)

State Plane
 NAD 83, Zone V, feet
 30M DEM



0 0.5 1 2 3 4
 Miles

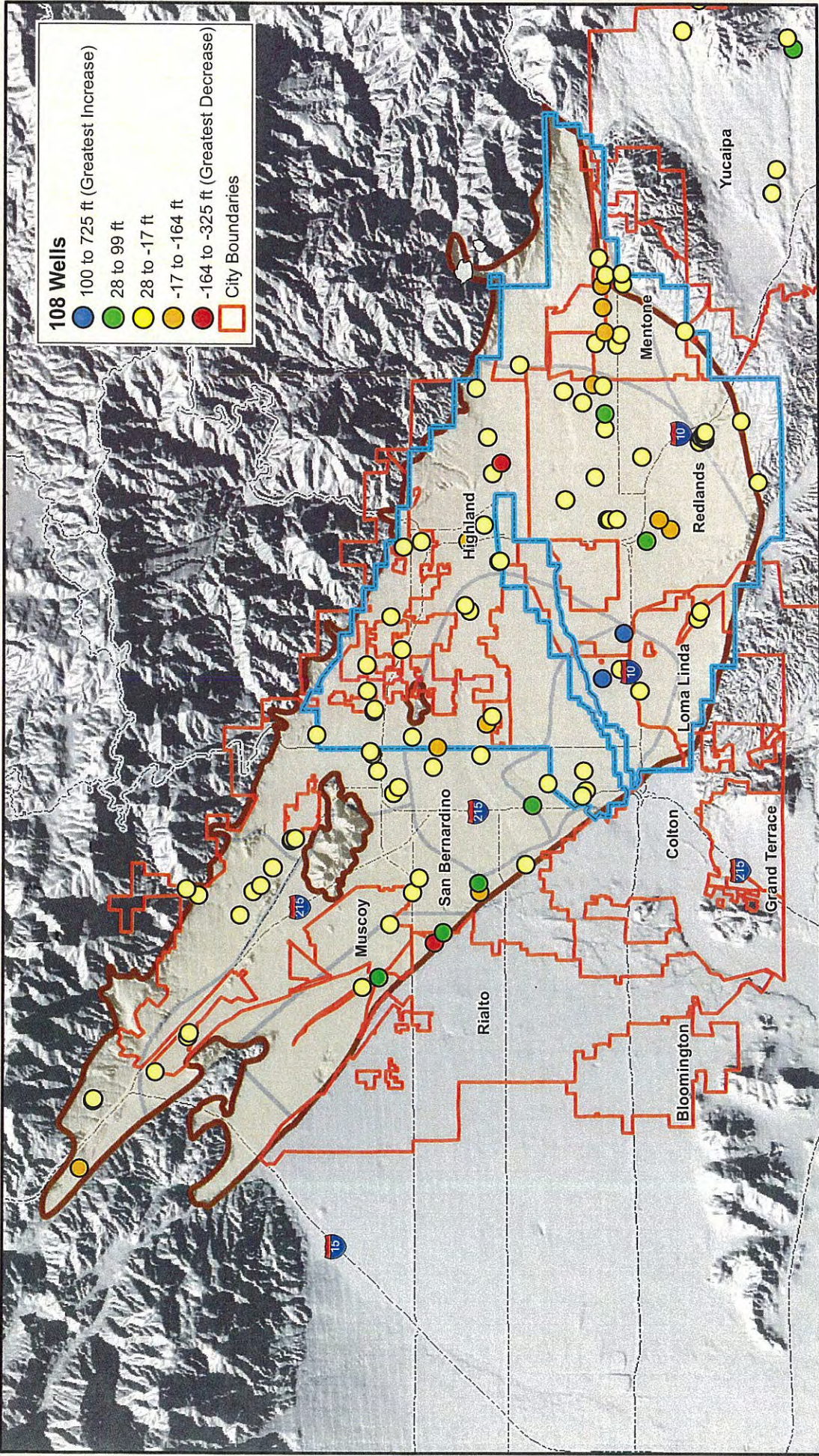
Difference in Groundwater Elevations: Fall 2007 to Fall 2008

Engineering Investigation
 March 2009

Source: SBWVCD GIS



Figure 8



108 Wells

- 100 to 725 ft (Greatest Increase)
- 28 to 99 ft
- 28 to -17 ft
- -17 to -164 ft
- -164 to -325 ft (Greatest Decrease)
- City Boundaries

Engineering Investigation
March 2009

Source: SBVWCD GIS

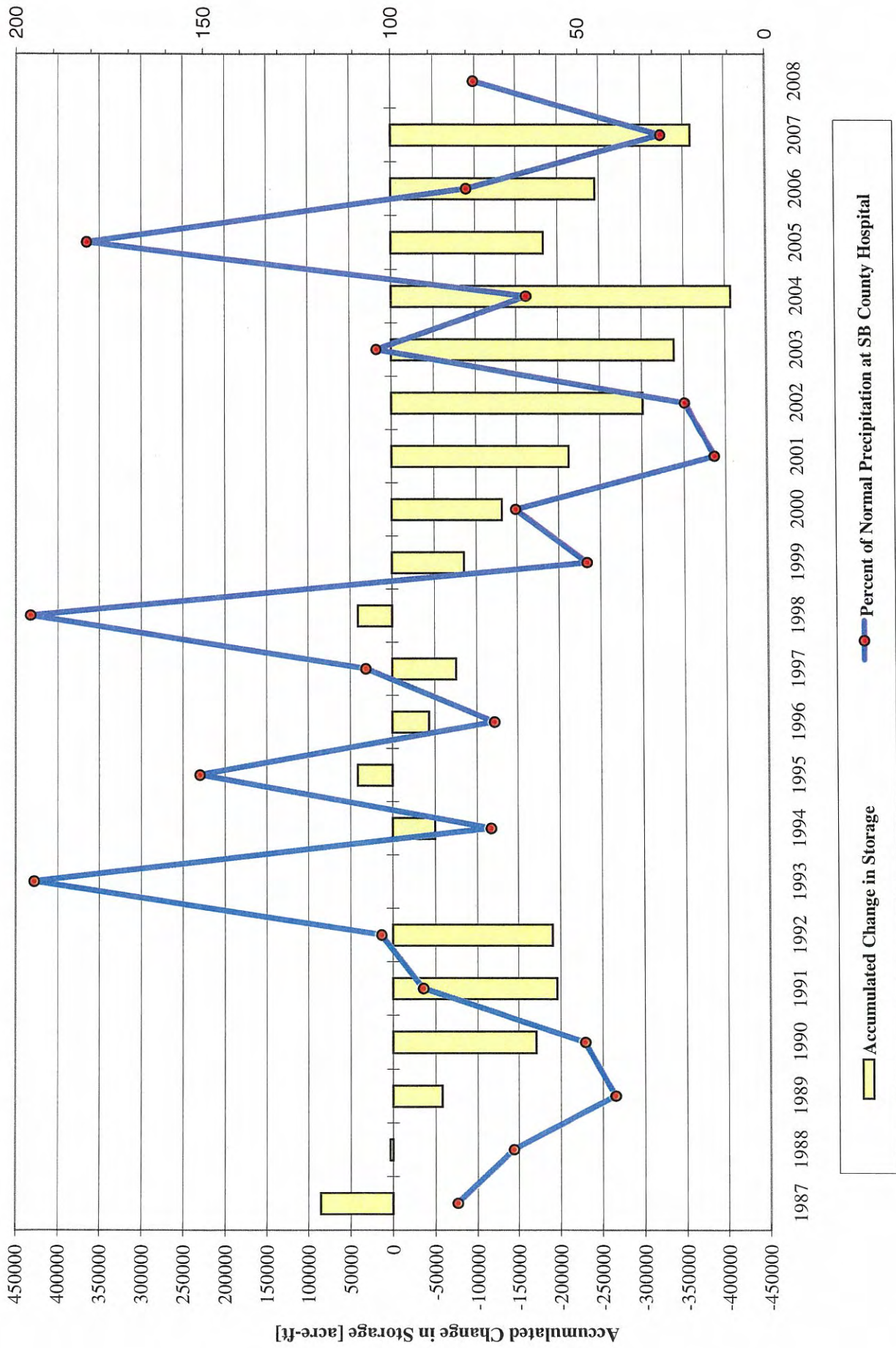
Figure 8A

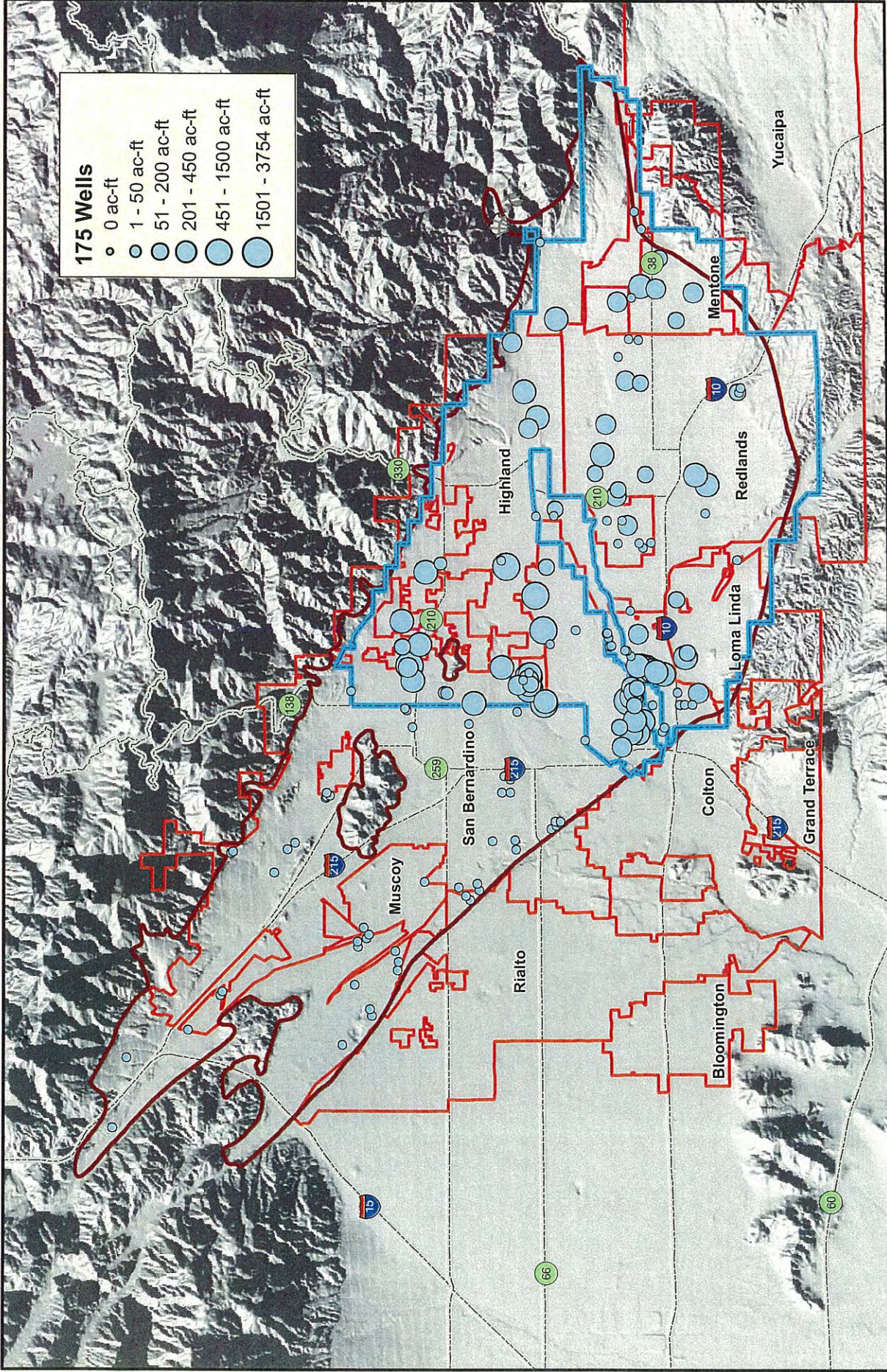
Difference in Groundwater Elevations: Fall 2007 to Fall 2008

State Plane
NAD 83, Zone V, feet
30M DEM

Accumulated Change in Storage for Bunker Hill Basin

1987 to 2007 (Based on "Zero Year" of 1993)





175 Wells

- 0 ac-ft
- 1 - 50 ac-ft
- 51 - 200 ac-ft
- 201 - 450 ac-ft
- 451 - 1500 ac-ft
- 1501 - 3754 ac-ft



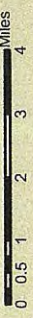
Figure 10

Engineering Investigation
March 2009

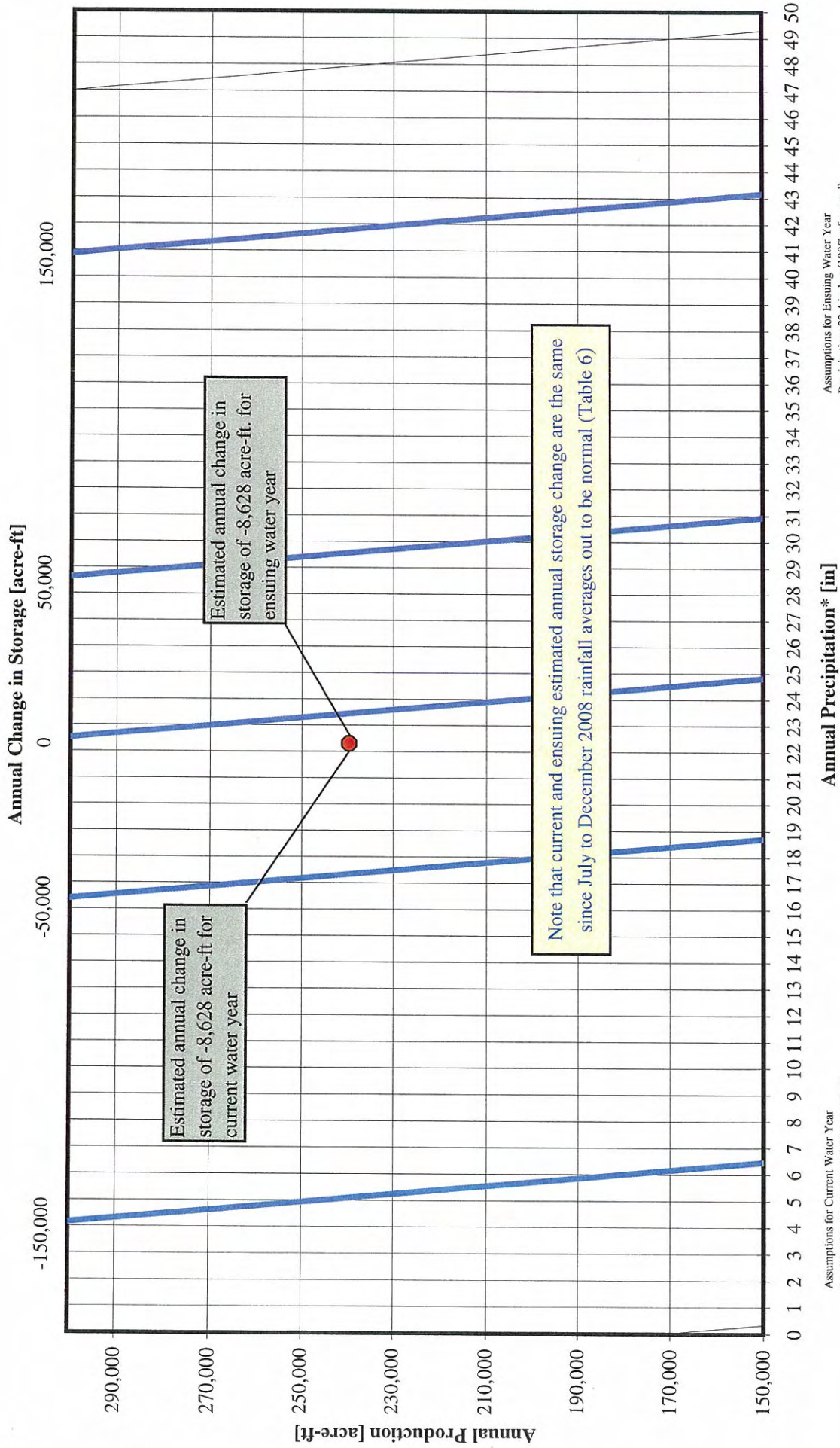
Source: SBVWCD GIS

Groundwater Production in Bunker Hill Basin July 2007 to June 2008

State Plane
NAD 83, Zone V, feet
30M DEM



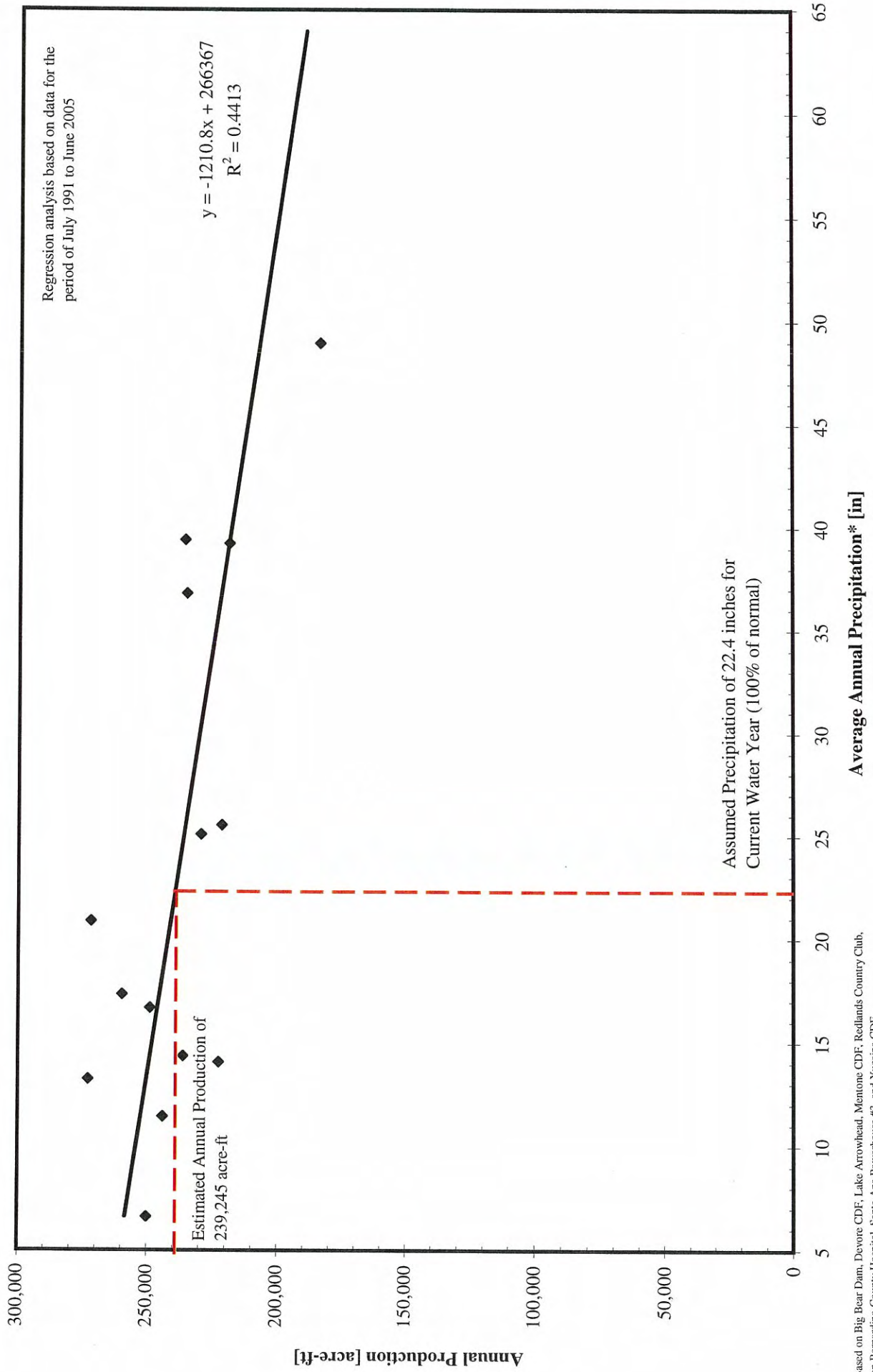
Prediction Chart for Annual Change in Storage Current and Ensuing Water Years



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

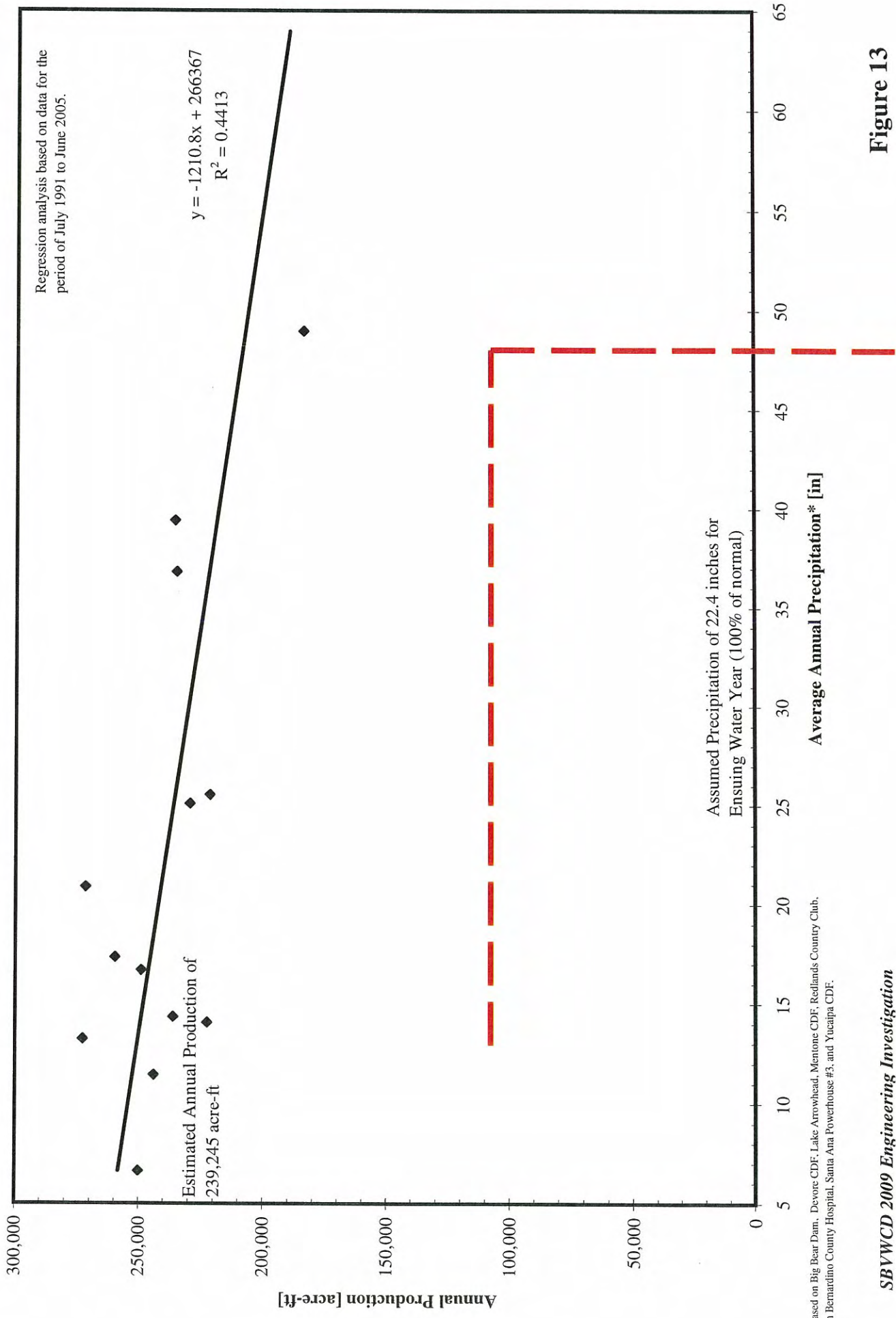
Change in Storage = $-221,564 + 8,171 \text{ Precipitation} + 0.125 \text{ Production}$ ($R^2 = 0.88$)

Estimate of Production for Current Water Year (July 2008 To June 2009)



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

Estimate of Production for Ensuing Water Year (July 2009 To June 2010)



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

Summary of Percentage of Normal Precipitation 1983 to 2008 (Water Year - Oct. to Sept.)

Station	Historic Annual Avg. [in]	1982-1983 [in]	1983-1984 [in]	1984-1985 [in]	1985-1986 [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]
Big Bear Dam	36.2	41.7	19.3	NA	40.3	19.2	28.9	20.8	17.6	34.8	38.9	81.9	28.7	52.7	24.4	30.0	51.7	14.2	20.6	21.4	9.2	38.1	19.6	59.1	26.4	10.3	23.0
Crafton Hills	12.3	18.4	NA	5.9	12.6	9.0	12.1	10.0	6.3	12.3	10.7	23.0	5.5	27.1	7.8	16.7	25.6	7.3	6.4	10.5	2.5	17.6	9.5	31.4	11.5	3.3	13.3
Del Rosa Ranger Station	18.4	37.9	11.3	15.4	20.1	9.5	18.9	13.2	12.9	8.8	24.2	41.4	12.3	27.7	14.2	17.3	37.3	8.3	12.7	16.6	6.1	19.7	13.0	38.6	17.4	8.8	17.8
Devore CDF	27.6	54.9	21.5	24.0	36.8	12.4	17.9	NA	15.0	20.4	31.3	64.0	15.4	45.4	20.6	33.1	45.1	13.6	8.0	15.5	10.9	35.4	16.4	60.4	24.8	8.9	25.2
Fallsvale	29.9	43.9	19.0	16.9	29.6	23.0	20.3	3.5	16.0	22.5	36.0	71.9	24.7	54.9	22.1	33.8	53.0	16.3	21.2	15.3	6.5	37.5	25.2	61.4	26.9	8.5	29.3
Lake Arrowhead	40.6	73.9	27.1	30.8	50.6	23.7	40.4	28.5	26.6	23.7	45.2	85.0	28.2	74.5	30.8	36.5	72.8	18.1	25.8	28.6	10.7	36.5	22.7	69.7	46.2	18.5	41.9
Loma Linda FD	10.8	NA	6.1	9.2	13.2	7.4	10.5	8.8	7.7	7.2	13.4	25.6	11.0	19.0	7.2	9.8	22.7	5.1	7.7	6.4	2.5	14.5	8.1	22.6	11.1	3.5	9.6
Lytle Creek at Foothill	13.6	34.8	8.9	10.2	16.0	7.0	13.0	3.9	8.5	15.5	14.9	31.6	9.2	25.5	12.2	13.8	25.8	6.3	9.8	12.1	4.0	13.6	7.2	27.2	11.2	3.8	11.9
Lytle Creek Fire Station	25.2	50.0	12.6	19.0	27.6	11.2	22.4	12.8	17.9	32.1	49.1	87.7	20.5	47.6	24.5	23.1	52.2	11.8	20.4	18.3	4.5	17.0	12.1	44.1	18.9	4.2	21.9
Mentone CDF	12.5	21.6	5.1	7.7	12.0	9.2	8.9	8.6	6.1	12.6	15.9	23.9	8.4	17.1	9.4	15.7	27.1	4.3	9.1	10.2	4.1	15.0	10.4	24.9	11.0	5.4	10.8
Oak Glen	27.0	50.4	18.8	22.0	26.0	19.3	21.5	17.8	17.7	26.9	30.8	58.0	18.8	57.9	20.0	30.9	49.5	11.3	17.1	12.3	6.7	14.3	18.4	34.1	22.6	9.7	27.6
Redlands - Roth	12.2	24.2	5.0	8.7	9.3	7.8	11.2	8.1	7.2	13.3	15.0	25.6	10.1	20.5	8.1	10.8	22.2	6.5	7.4	10.4	3.4	12.2	9.2	24.4	9.5	3.3	9.5
Redlands Country Club	13.9	27.8	8.2	10.7	13.4	8.8	14.2	10.7	8.6	14.5	16.1	29.4	12.6	19.8	8.5	9.0	17.2	6.3	5.7	10.0	4.0	16.5	11.6	29.4	10.3	4.1	11.9
San Bernardino CDF	17.4	39.9	11.1	16.1	20.1	9.3	18.3	12.9	10.6	15.5	21.9	37.4	4.5	20.3	15.8	16.2	34.3	9.3	13.6	16.6	5.3	13.1	11.5	37.3	16.4	6.3	18.9
San Bernardino Co. Hospital	16.3	32.4	10.8	12.9	17.9	8.1	13.5	12.6	8.1	15.5	16.5	30.8	11.7	24.1	11.9	18.6	32.7	8.0	11.1	2.3	3.6	17.1	10.5	29.9	13.2	4.7	12.8
Santa Ana Pump House #3	17.2	33.9	14.2	11.9	15.9	12.3	14.7	NA	10.3	15.8	18.4	23.0	15.9	24.9	11.1	16.6	28.0	7.0	6.8	8.6	3.2	18.2	9.4	27.7	11.8	6.1	10.7
Yucaipa CDF	16.1	33.7	9.8	10.7	13.0	11.0	11.3	9.7	NA	11.2	17.9	34.2	11.4	30.2	10.5	15.6	24.7	7.6	11.1	9.9	5.7	19.5	11.8	32.7	13.1	6.3	14.7
Yucaipa Valley Water District	16.4	30.8	9.7	12.3	15.2	10.6	NA	NA	NA	17.0	18.7	18.1	12.5	25.2	10.9	16.9	28.6	9.9	9.6	9.7	5.3	19.5	11.1	32.7	12.5	5.5	14.8
Redlands Daily Facts	13.1	28.1	8.0	10.4	11.3	9.1	12.7	8.9	7.7	13.8	16.0	28.0	12.1	21.3	8.2	12.6	27.2	6.1	7.9	10.3	3.6	16.0	9.4	26.4	10.6	4.0	9.8
Big Bear City	13.6	26.7	17.6	13.2	19.1	10.2	10.6	9.4	10.2	17.8	14.0	22.9	11.5	18.6	11.2	12.1	16.8	6.5	4.8	20.1	3.3	12.6	7.6	23.3	14.4	3.7	8.5

Percent of Normal: 100%
Average: 119.5%

Source: San Bernardino County Department of Transportation/Flood Control

Change in Groundwater Levels in Key Wells

Fall 2007 to Fall 2008

State Well Number	Well Name	Owner Or Measuring Agency	Fall 2007	Fall 2008	Difference
			Depth To Water [ft]	Depth To Water [ft]	
1S3W06H04S	PL-9A	East Valley Water District	205.5	201.6	3.9
1N3W30N01S	PL-41	East Valley Water District	294.4	299.0	-4.6
1S2W21E01S	Maguet #2	Redlands, City of	57.0	43.0	14.0
1S2W21D01S	E. Lugonia #6	Redlands, City of	63.0	46.0	17.0
1S3W35G09S	Well #13	Redlands, City of	67.0	62.0	5.0
1S3W21H06S	Well #30A	Redlands, City of	185.0	190.0	-5.0
1S4W24K01S	Well #34	Redlands, City of	176.0	168.0	8.0
1S4W23A02S	26-1	Riverside, City of - Gage Canal Company	155.8	168.0	-12.2
1S4W10N06S	Mill & D Street Well	San Bernardino, City of	79.3	85.0	-5.7
1N4W35K	Meacham Well	San Bernardino, City of	253.1	255.7	-2.6
1N4W27N01S	23rd Street & E Well	San Bernardino, City of	N/A	N/A	N/A
1S4W02K08S	Antil Well #6	San Bernardino, City of	210.0	N/A	N/A
1N4W32N01S	Baseline Well	San Bernardino, City of	248.8	N/A	N/A
1S4W22D007S	Backyard Well	San Bernardino Valley MWD	N/A	N/A	N/A
1S2W07B01S	SBVWCD #1 (7B01)	San Bernardino Valley WCD	266.6	266.8	-0.2
1S2W07K01S	SBVWCD #2 (7K01)	San Bernardino Valley WCD	213.7	210.9	2.8
01S/02W-17E001	Mill Ck Monitoring #4	San Bernardino Valley WCD	214.63	198.77	15.9
01S/02W-17E002	Mill Ck Monitoring #5	San Bernardino Valley WCD	230.4	224.84	5.6
01S/02W-17L001	Mill Ck Monitoring #1	San Bernardino Valley WCD	149.16	145.96	3.2
01S/02W-17L002	Mill Ck Monitoring #2	San Bernardino Valley WCD	183.64	185.17	-1.5
1S3W12J01S	SBVWCD #3 (12J01)	San Bernardino Valley WCD	213.6	210.9	2.7
1S3W11H01S	SBVWCD #4 (11H01)	San Bernardino Valley WCD	169.8	175.8	-6.0
1N5W23Q01S	2/Lower 7	West Valley Water District	133.0	159.0	-26.0
1N5W36H04S	7/Lord 7	West Valley Water District	N/A	190.0	N/A
1N5W36H06S	08A	West Valley Water District	395.0	N/A	N/A

Change in Groundwater Levels in Key Wells, Fall 2007 to Fall 2008

Annual Change in Storage for Bunker Hill Basin

Fall 2007 to Fall 2008

Sub-area	[1] Average 2007 Water Depth* [ft.]	[2] Average 2008 Water Depth.* [ft.]	[3] Annual Change in Water Level* [ft.]	[4] Area [acres]	[5] Storativity (S)	[6] Annual Change in Storage** [acre-ft]
Bunker Hill I - Southwest of Interstate 215	981.48	971.92	9.56	11714.00	0.09	10,079
Bunker Hill I - Northeast of Interstate 215	2406.1	2417.55	-11.45	7795.00	0.11	-9,818
Bunker Hill II - West of Mentone Fault	1104.27	1117.14	-12.87	35206.00	0.06	-27,186
Bunker Hill II - East of Mentone Fault						
North of Redlands Fault	1740.81	1753.56	-12.75	8584.00	0.13	-14,228
Southeast of Redlands Fault	1532.67	1544.17	-11.50	2507.40	0.13	-3,749
Subtotal			-24.25			-17,977
Lytle Basin - Southeast of Barrier J	1209.36	1175.87	33.50	5237.00	0.07	12,281
Lytle Basin - Northwest of Barrier J	897.76	904	-6.24	1924.00	0.13	-1,561
Pressure Zone - North of Santa Ana Wash	1073.2	919.05	154.19	11920.00	0.02	36,759
Pressure Zone - Santa Ana Wash	910.79	949.15	-38.36	6686.00	0.02	-5,129

Total = -2,600

[1], [2], [3] Based on average changes in water level within each Sub-area

[4] Estimated using GIS

[5] 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.

[6] = [3] x [4] x [5]

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

** A positive sign denotes an increase in storage and a negative sign represents a decline of storage.

Accumulated Change in Storage for Bunker Hill Basin 1988 to 2008 (Based on "Zero Year" of 1993)

Year	Accumulated Storage [acre-ft]
1988	3,600
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

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

Production in Sub-basins of Bunker Hill Basin

Preceding Water Year (July 2006 to June 2007)

Sub-area	Production July 2006 to June 2007 [acre-ft]
Bunker Hill I - Southwest of Interstate 215	0
Bunker Hill I - Northeast of Interstate 215	0
Bunker Hill II - West of Mentone Fault	27,947
Bunker Hill II - East of Mentone Fault, North	1,849
Bunker Hill II - East of Mentone Fault, South	1,510
Lytle Basin - Southeast of Barrier J	0
Lytle Basin - Northwest of Barrier J	0
Pressure Zone - North of Santa Ana Wash	18,803
Pressure Zone - Santa Ana Wash	29,928
Unknown	319
Total	80,355

Estimates of Percentage of Normal Precipitation for Current Water Year (July 2008 - June 2009)

Station	July to June		[1]		[2]		[3]		[4]		[5]		[6]		[7]		
	Historic Average Annual [inches]	2007-2008 [inches]	Season - July to December		Season - January to June		Season - July to December		Season - January to June		Season - January to June 2009		Season - January to June		% of Normal		
			Historic Average	July 2008 to December 2008	% of Normal	Historic Average	July 2008 to December 2008	% of Normal	Historic Average	January 2009 to June 2009	% of Normal	Historic Average	January 2009 to June 2009	% of Normal			
Big Bear Dam	35.6	23.9	11.79	7.30	62%	24.78	24.78	100%	88%	24.78	24.78	100%	100%	88%			
Devore CDF	27.5	26.1	8.17	7.47	91%	19.36	19.36	100%	97%	19.36	19.36	100%	100%	97%			
Lake Arrowhead	40.8	42.0	13.15	7.91	60%	28.01	28.01	100%	87%	28.01	28.01	100%	100%	87%			
Mentone CDF	12.6	10.9	3.78	5.41	143%	8.95	8.95	100%	113%	8.95	8.95	100%	100%	113%			
Redlands Country Club	13.9	12.3	4.14	5.62	136%	9.95	9.95	100%	111%	9.95	9.95	100%	100%	111%			
San Bernardino County Hospital	16.0	13.0	5.09	4.87	96%	11.35	11.35	100%	99%	11.35	11.35	100%	100%	99%			
Santa Ana Pumphouse #3	17.1	11.0	5.47	5.30	97%	11.69	11.69	100%	99%	11.69	11.69	100%	100%	99%			
Yucaipa CDF	15.9	14.9	4.92	5.78	117%	11.20	11.20	100%	105%	11.20	11.20	100%	100%	105%			
Average = 22.4												Average = 19.3		Average = 100%		Average = 100%	

[1], [2], [4]: Based on data provided by San Bernardino County Department of Transportation/Flood Control

[3] = $([2] / [1]) \times 100$

[5] Assumed equal to season average (January to June)

[6] = $([5] / [4]) \times 100$

[7] = $(([2] + [5]) / ([1] + [4])) \times 100$

Average Annual Change in Storage for Bunker Hill Basin

Fall 1998 to Fall 2008

(The Immediate Past 10 Water Years)

Sub-area	[1] Average Change in Water Level* [ft]	[2] Area [acres]	[3] Storativity (S)	[4] Average Annual Change in Storage** [acre-ft]
Bunker Hill I - Southwest of Barstow Freeway	-4.66	11,714	0.09	-4,804
Bunker Hill I - Northeast of Barstow Freeway	-1.71	7,795	0.11	-1,466
Bunker Hill II - West of Mentone Fault	-9.88	35,206	0.06	-20,522
Bunker Hill II - East of Mentone Fault	-3.43	11,091	0.13	-4,945
Lytle Basin - Southeast of Barrier J	-5.85	5,237	0.07	-2,145
Lytle Basin - Northwest of Barrier J	-1.32	1,924	0.13	-330
Pressure Zone - North of Santa Ana Wash	12.83	11,920	0.02	3,059
Pressure Zone - Santa Ana Wash	-9.19	6,686	0.02	-1,229
Total =				-32,400

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

[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] x [2] x [3]

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

** A positive sign denotes an increase in storage and a negative sign represents a decline in storage.

Summary of Surface Distribution Water for Bunker Hill Basin 1983 to 2008

Streamflow Diversions	1983 [acre-ft]	1984 [acre-ft]	1985 [acre-ft]	1986 [acre-ft]	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]
Lytle Creek													
Fonana Union WC	3,753	2,446	2,743	1,798	2,725	2,991	2,245	204	1,633	12,980	7,860	12,270	10,000
Mount Vernon WC	724	724	724	724	724	724	724	724	724	724	1,143	102	0
Rialto, City of	1,006	1,654	1,075	1,325	539	1,111	1,005	792	1,014	743	193	843	44
San Bernardino, City of	1,448	1,448	1,448	1,448	1,448	1,448	1,448	1,448	1,448	1,448	520	NA	2,400
WSBCWD	3,602	3,696	3,340	3,686	3,686	3,696	3,696	2,554	3,701	3,696	3,696	3,697	3,696
Subtotal	10,533	9,968	9,330	8,981	9,122	9,970	9,118	5,722	8,520	19,591	13,412	16,912	16,140
Mill Creek													
Redlands, City of	19,363	4,617	12,932	11,676	11,178	7,731	8,285	6,794	11,109	14,559	19,086	14,505	9,786
Subtotal	19,363	4,617	12,932	11,676	11,178	7,731	8,285	6,794	11,109	14,559	19,086	14,505	9,786
Santa Ana River													
Bear Valley Mutual WC	19,209	23,392	19,837	23,160	16,373	14,170	14,785	11,244	20,651	26,014	42,079	23,812	30,794
Redlands WC	NA	NA	NA	1,122	961	963	890	577	NA	NA	NA	NA	NA
Subtotal	19,209	23,392	19,837	24,282	17,334	15,133	15,675	11,821	20,651	26,014	42,079	23,812	30,794

Streamflow Diversions	1996 [acre-ft]	1997 [acre-ft]	1998 [acre-ft]	1999 [acre-ft]	2000 [acre-ft]	2001 [acre-ft]	2002 [acre-ft]	2003 [acre-ft]	2004 [acre-ft]	2005 [acre-ft]	2006 [acre-ft]	2007 [acre-ft]	2008 [acre-ft]	Avg. [acre-ft]
Lytle Creek														
Fonana Union WC	10,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,209	NA	5,268
Mount Vernon WC	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	530
Rialto, City of	1,070	393	896	1,461	NA	1,305	1,143	726	1,707	1,209	1,448	NA	NA	987
San Bernardino, City of	2,400	0	0	0	0	0	0	0	0	0	0	NA	NA	861
WSBCWD	3,686	4,079	3,696	3,408	3,047	3,175	2,573	2,380	4,710	2,079	3,081	NA	NA	3,432
Subtotal	17,256	4,472	4,592	4,869	3,047	4,480	3,716	3,106	6,417	3,298	4,529	8,209	NA	6,612
Mill Creek														
Redlands, City of	12,250	10,250	11,224	11,951	8,852	9,496	5,867	12,541	10,168	12,574	15,409	5,023	NA	11,342
Subtotal	12,250	10,250	11,224	11,951	8,852	9,496	5,867	12,541	10,168	12,574	15,409	5,023	NA	11,089
Santa Ana River														
Bear Valley Mutual WC	38,252	31,479	36,632	30,245	29,498	26,301	23,458	12,633	11,227	12,516	17,689	2,204	NA	23,144
Redlands WC	NA	760	NA	NA	NA	NA	NA	NA	NA	NA	NA	110	NA	879
Subtotal	38,252	32,239	36,632	30,245	29,498	26,301	23,458	12,633	11,227	12,516	17,689	2,314	NA	22,521

Total = 42,223

NA = Data Not Available
Source: Calendar year totals from Western Municipal Water District

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water	Groundwater Elevation (ft. AMSL)	Date Measured	Measuring Point Elevation	Depth to Water	Groundwater Elevation (ft. AMSL)	Date Measured	
01S02W-211.002S	Zanya Well	Bear Valley / Craifton Water Company	2,009.00	47	1,962.00	11/01/07	2,009.00	43	1,966.00	12/01/08	-4.0
01S023W-29N	Fifth Avenue Well	Bear Valley / Craifton Water Company	1,859.81	307	1,552.81	11/01/07	1,859.81	311	1,548.81	11/01/08	4.0
01S033W-34C001S	Judson Well	Bear Valley Municipal Water Company	1,528.98	197	1,331.98	11/01/07	1,528.98	243	1,285.98	11/01/08	46.0
01S033W-23A003S	San Bernardino Avenue Well	Bear Valley Municipal Water Company	1,480.43	233	1,247.43	11/01/07	1,480.43	246	1,234.43	11/01/08	13.0
01S041W-08C001S		Colton, City of	1,075.79	FC	FC	-	1,075.79	FC	FC	-	-
01S041W-08F		Colton, City of	1,096.52	FC	FC	-	1,096.52	FC	FC	-	-
01S041W-09N	12 Hor Well	Colton, City of	1,063.58	FC	FC	-	1,063.58	FC	FC	-	-
01S041W-003R		Colton, City of	1,075.03	FC	FC	-	1,075.03	FC	FC	-	-
01S041W-08C002S		Colton, City of	1,106.00	FC	FC	-	1,106.00	FC	FC	-	-
01S041W-08R		Colton, City of	1,075.99	FC	FC	-	1,075.99	FC	FC	-	-
01S041W-08R		Colton, City of	1,075.68	FC	FC	-	1,075.68	FC	FC	-	-
01S041W-08F		Colton, City of	1,095.11	226	869.11	11/01/07	1,095.11	225	870.11	11/18/08	-1.0
01S041W-08F001S		Colton, City of	1,096.22	270	826.22	11/01/07	1,096.22	263	833.22	11/18/08	-7.0
01S041W-08F		Colton, City of	1,104.07	226	878.07	11/01/07	1,104.07	223	881.07	11/26/08	-3.0
01S041W-08F01S		Colton, City of	1,093.68	272	821.68	11/01/07	1,093.68	272	821.68	11/19/08	0.0
01S041W-081002S		Colton, City of	1,025.00	215	810.00	11/01/07	1,025.00	284	741.00	11/19/08	69.0
01S041W-08R		Colton, City of	1,078.50	172	906.50	11/01/07	1,078.50	174	904.50	11/19/08	2.0
01S041W-08F		Colton, City of	1,091.50	172	919.50	11/01/07	1,091.50	-	-	-	0.0
02N053W-28C002S		Devere Water Company	2,475.00	68.8	2,406.20	11/30/07	2,475.00	57.8	2,417.20	11/28/08	-11.0
02N053W-28C003S	3 (3a)	Devere Water Company	2,466.00	60	2,406.00	11/30/07	2,466.00	48.1	2,417.90	11/28/08	-11.9
02N053W-34E001S		Devere Water Company	2,020.00	156.8	1,863.20	12/17/07	2,020.00	157.8	1,862.20	11/28/08	1.0
01N033W-19B		East Valley Water Dist.	1,800.00	FC	FC	-	1,800.00	FC	FC	-	-
01N033W-19E001S	Reaigh-Walton	East Valley Water Dist.	1,460.00	FC	FC	-	1,460.00	FC	FC	-	-
01N033W-19G		East Valley Water Dist.	1,500.00	FC	FC	-	1,500.00	FC	FC	-	-
01N033W-31C002S	Jester (ESBCWD#36)	East Valley Water Dist.	1,355.60	FC	FC	-	1,355.60	FC	FC	-	-
01N033W-31C001S		East Valley Water Dist.	1,209.80	FC	FC	-	1,209.80	FC	FC	-	-
01N033W-31L001S	68, Morley	East Valley Water Dist.	1,147.11	FC	FC	-	1,147.11	FC	FC	-	-
01N041W-01G001S		East Valley Water Dist.	1,270.00	FC	FC	-	1,270.00	FC	FC	-	-
01N041W-23E001S	Del Rosa Mutual #2	East Valley Water Dist.	1,101.56	FC	FC	-	1,101.56	FC	FC	-	-
01N041W-26A001S		East Valley Water Dist.	1,295.00	FC	FC	-	1,295.00	FC	FC	-	-
01N041W-36K007S	J.A. Fisher	East Valley Water Dist.	1,243.54	FC	FC	-	1,243.54	FC	FC	-	-
01S033W-03D003S	Hunter	East Valley Water Dist.	1,121.48	FC	FC	-	1,121.48	FC	FC	-	-
01S033W-03F	53, Eucalyptus St. Wtr.	East Valley Water Dist.	1,284.14	FC	FC	-	1,284.14	FC	FC	-	-
01S033W-04G001S		East Valley Water Dist.	1,300.00	FC	FC	-	1,300.00	FC	FC	-	-
01S033W-04G002S		East Valley Water Dist.	1,285.59	FC	FC	-	1,285.59	FC	FC	-	-
01S033W-05D006S	Call #3 / 132-3	East Valley Water Dist.	1,155.00	FC	FC	-	1,155.00	FC	FC	-	-
01S033W-05D007S	Call #4 / 132-4	East Valley Water Dist.	1,424.37	FC	FC	-	1,424.37	FC	FC	-	-
01S041W-01B004S		East Valley Water Dist.	1,096.70	FC	FC	-	1,096.70	FC	FC	-	-
01S041W-02A005S	Mysers (#105)	East Valley Water Dist.	1,087.00	FC	FC	-	1,087.00	FC	FC	-	-
01S041W-02N001S		East Valley Water Dist.	1,039.01	FC	FC	-	1,039.01	FC	FC	-	-
01S041W-02N002S	5th & Cooley	East Valley Water Dist.	1,040.10	FC	FC	-	1,040.10	FC	FC	-	-
01N041W-25M003S	Fairfax Well	East Valley Water Dist.	1,210	FC	FC	-	1,210	FC	FC	-	-
01N041W-36C001S		East Valley Water Dist.	1,098.00	146	952.00	12/04/07	1,098.00	-	-	-	-
01S033W-06H004S	9A	East Valley Water Dist.	1,151.54	205.5	946.04	12/03/07	1,151.54	201.6	949.04	12/03/08	-3.9

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007			2008			Difference Fall 2007 to Fall 2008		
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft. AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)		Groundwater Elevation (ft. AMSL)	
01S04W-02C009S	11A	East Valley Water Dist.	1,056.89	FC	FC	12/04/07	1,056.89	FC	FC	12/03/08	-4.0
01S04W-02C004S	12	East Valley Water Dist.	1,058.88	168.1	890.78	12/04/07	1,058.88	172.1	886.78	12/03/08	4.1
01S04W-02C008S	12A	East Valley Water Dist.	1,057.80	177	880.00	12/04/07	1,057.80	181.1	875.90	12/03/08	4.1
01S04W-01K004S	14	East Valley Water Dist.	1,092.80	FC	FC	FC	1,092.80	FC	FC	FC	-
01S04W-01E002S	22	East Valley Water Dist.	1,070.00	FC	FC	FC	1,070.00	FC	FC	FC	-
01N04W-26A002S	24 A	East Valley Water Dist.	1,242.99	326	916.99	12/04/07	1,242.99	331.9	911.09	12/03/08	5.9
01N04W-26A003S	24 B	East Valley Water Dist.	1,244.58	320.5	924.08	12/04/07	1,244.58	326	918.58	12/03/08	5.5
01N04W-25C002S	25A	East Valley Water Dist.	1,246.39	312.8	933.59	12/04/07	1,246.39	318.4	927.99	12/04/08	5.6
01N04W-25A001S	27	East Valley Water Dist.	1,295.60	255.7	1,039.90	12/03/07	1,295.60	-	-	-	-
01S04W-12B006S	28A	East Valley Water Dist.	1,090.10	193.2	896.90	12/04/07	1,090.10	-	-	-	-
01N03W-30J005S	39	East Valley Water Dist.	1,350.29	371.3	978.99	12/04/07	1,350.29	375.5	974.79	12/04/08	4.2
01S03W-04N003S	40	East Valley Water Dist.	1,195.09	266.2	928.89	12/03/07	1,195.09	270	925.09	12/03/08	3.8
01S03W-30N001S	46-A	East Valley Water Dist.	1,198.64	213.6	985.04	12/03/07	1,198.64	217.6	981.04	12/03/08	4.0
01N03W-28P001S	41	East Valley Water Dist.	1,232.29	294.4	937.89	12/03/07	1,232.29	299	933.29	12/04/08	4.6
01N03W-28P001S	54	East Valley Water Dist.	1,320.00	472.9	1,047.10	12/04/07	1,320.00	474.9	1,045.10	12/03/08	2.0
01N03W-33F001S	94 Corvin	East Valley Water Dist.	1,413.17	379.6	1,033.57	12/04/07	1,413.17	384	1,029.17	12/02/08	4.4
01S03W-04J001S	102	East Valley Water Dist.	1,242.47	220	1,022.47	12/03/07	1,242.47	225.2	1,017.27	12/03/08	5.2
01N03W-30N001S	103	East Valley Water Dist.	1,230.00	FC	FC	FC	1,230.00	FC	FC	FC	-
01S03W-06K001S	35, Baseline Mutual	East Valley Water Dist.	1,132.00	FC	FC	FC	1,132.00	FC	FC	FC	-
01N04W-25F004S	107	East Valley Water Dist.	1,217.29	283	934.29	12/03/07	1,217.29	289.5	927.79	12/04/08	6.5
01S03W-03E004S	Duda	East Valley Water Dist.	1,260.00	259	1,001.00	12/04/07	1,260.00	265.4	994.60	12/03/08	6.4
01N04W-25F004S	Pumalo	East Valley Water Dist.	1,190.38	FC	FC	FC	1,190.38	FC	FC	FC	-
01S04W-02F002S	Coolley D	East Valley Water Dist.	1,037.60	-	-	-	1,037.60	-	-	-	-
01S03W-06R02N7	Roazana	East Valley Water Dist.	1,240.00	-	-	-	1,240.00	-	-	-	-
01S03W-06P001S	69, Stout	East Valley Water Dist.	1,120.00	-	-	-	1,120.00	166.90	953.10	12/02/08	-
01S03W-09E002S	Tri-City Concrete	East Valley Water Dist.	1,195.44	202.9	992.54	12/03/07	1,195.44	208	987.44	12/02/08	5.1
01S02W-07F001S	125	East Valley Water Dist.	1,600.00	250.9	1,349.10	12/04/07	1,600.00	243.2	1,356.80	11/05/08	-7.7
01S03W-01H001S	142, Mt. Harrison	East Valley Water Dist.	1,520.00	237.7	1,282.30	12/03/07	1,520.00	241.2	1,278.70	12/03/08	3.6
01S03W-02I002S	120, Crum Well	East Valley Water Dist.	1,410.00	160.9	1,249.10	12/03/07	1,410.00	164.2	1,245.80	11/05/08	3.3
01S03W-04D003S	132-2, Cull #2	East Valley Water Dist.	1,155.00	209.9	945.10	12/03/07	1,155.00	215.3	939.70	12/01/08	5.4
01S03W-04G002S	136-1, Dunkirk #1	East Valley Water Dist.	1,245.85	249.5	996.35	12/03/07	1,245.85	254.3	991.55	12/03/08	4.8
01S03W-04G003S	136-2, Dunkirk #2	East Valley Water Dist.	1,340.00	248.1	991.90	12/03/07	1,340.00	215.8	1,024.20	12/01/08	-32.3
01N03W-27N002S	City Creek #3	East Valley Water Dist.	1,490.00	FC	FC	FC	1,490.00	FC	FC	FC	-
01S03W-04J	128, Hot Water	East Valley Water Dist.	1,242.47	FC	FC	FC	1,242.47	218.80	1,023.67	07/07/08	-
01S03W-06P018S	141, McDaniel	East Valley Water Dist.	1,120.00	191.6	928.40	12/04/07	1,120.00	211.1	908.90	08/05/08	19.5
01S03W-07N002S	143, Abbey Way	East Valley Water Dist.	1,339.00	502.5	836.50	12/05/07	1,339.00	177.1	1,161.90	12/01/08	-325.4
01S03W-03R001S	146, EHR Well	East Valley Water Dist.	1,327.26	261.4	1,065.86	12/03/07	1,327.26	257.6	1,069.66	12/01/08	-3.8
01S03W-02P006S	147	East Valley Water Dist.	1,362.00	145.3	1,216.70	12/03/07	1,362.00	150.3	1,211.70	12/01/08	5.0
01S03W-01R004S	146A, (Church Street)	East Valley Water Dist.	1,320.00	259.4	1,060.60	12/03/07	1,320.00	256.1	1,063.90	12/01/08	-3.3
01S04W-15I010S	New "E" St.	Elinore VMWD (Meeks & Daley Water)	981.00	FC	FC	FC	981.00	FC	FC	FC	-
01S04W-15M002S	Old "E" Street	Elinore VMWD (Meeks & Daley Water)	982.40	FC	FC	FC	982.40	FC	FC	FC	-
01S04W-15N006S	#51	Elinore VMWD (Meeks & Daley Water)	989.50	FC	FC	FC	989.50	FC	FC	FC	-
01S04W-16R003S	#54	Elinore VMWD (Meeks & Daley Water)	975.00	FC	FC	FC	975.00	FC	FC	FC	-
01S04W-13I003S	#59	Elinore VMWD (Meeks & Daley Water)	984.00	144	840.00	11/01/07	984.00	140	844.00	11/25/08	-4.0
01S04W-16J009S	Coburn	Elinore VMWD (Meeks & Daley Water)	979.00	47	932.00	12/14/06	979.00	56	923.00	10/17/08	9.0
01S04W-16R004S	Station 69	Elinore VMWD (Meeks & Daley Water)	978.00	60	918.00	12/14/06	978.00	70	908.00	10/17/08	10.0
01N04W-15M011S	Station 91	Elinore VMWD (Meeks & Daley Water)	980.00	132	848.00	11/01/07	980.00	128	852.00	11/23/08	-4.0
01N05W-06G001S	#27	Fontana Water Company	2,244.00	81.00	2,163.00	11/16/07	2,244.00	75.00	2,169.00	12/01/08	-6.0
01N05W-06K002S	#33	Fontana Water Company	2,155.00	89.00	2,066.00	11/07/07	2,155.00	103.00	2,052.00	12/01/08	14.0

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Date Measured	Groundwater Elevation (ft. AMSL)	Depth to Water (ft)	Groundwater Elevation (ft. AMSL)	Date Measured	Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft. AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft. AMSL)	Date Measured						
01N03W-07H001S #26		Fontana Water Company	2,066.00	112.00	1,954.00	11/07/07	2,066.00	115.00	1,951.00	12/01/08	3.0					
01N03W-15K001S #9		Fontana Water Company	1,592.10	-	-	-	1,592.10	-	-	-	-					
01N03W-15K #10		Fontana Water Company	1,599.20	-	-	-	1,599.20	-	-	-	-					
01N03W-15C002S #8		Fontana Water Company	1,590.79	302.00	1,288.79	11/06/07	1,590.79	374.00	1,216.79	12/08/08	72.0					
01N03W-16K001S #52		Fontana Water Company	1,722.90	293.00	1,429.90	11/09/07	1,722.90	301.00	1,421.90	12/08/08	8.0					
01N03W-22A001S #13		Fontana Water Company	1,549.80	-	-	-	1,549.80	-	-	-	-					
01N03W-22C002S #4		Fontana Water Company	1,591.26	283.00	1,308.26	11/05/07	1,591.26	374.00	1,267.26	12/03/08	41.0					
01N03W-22F001S #25		Fontana Water Company	1,597.50	253.00	1,344.50	11/02/07	1,597.50	218.00	1,379.50	12/03/08	-55.0					
01N03W-22F002S #3		Fontana Water Company	1,583.20	281.00	1,302.20	11/05/07	1,583.20	325.00	1,258.20	12/03/08	44.0					
01N03W-23K001S #1		Fontana Water Company	1,455.90	-	-	-	1,455.90	-	-	-	-					
01S04W-13L002S 21		Gage Canal Co.	1,051.82	FC	FC	-	1,051.82	-	FC	-	-					
01S04W-23A002S 26-1		Gage Canal Co.	1,045.33	155.8	889.53	10/01/07	1,045.33	168.0	877.33	12/04/08	12.2					
01S04W-23H001S 27-1		Gage Canal Co.	1,044.64	142.0	902.64	11/01/07	1,044.64	174.9	869.74	12/04/08	32.9					
01S04W-23K001S 27-2		Gage Canal Co.	1,044.64	129.9	914.74	12/01/07	1,044.64	150.3	894.34	12/04/08	20.4					
01S04W-23K002S 29-1		Gage Canal Co.	1,044.43	115.3	929.13	12/01/07	1,044.43	141	903.43	12/04/08	25.7					
01S04W-13N001S 29-2		Gage Canal Co.	1,046.31	127.8	918.51	12/01/07	1,046.31	154.9	891.41	10/17/08	27.1					
01S04W-13N002S 29-3		Gage Canal Co.	1,048.75	156.9	891.85	12/01/07	1,048.75	161.9	886.85	10/17/08	5.0					
01S04W-13N002S 30-1		Gage Canal Co.	1,054.17	134.2	919.97	12/01/07	1,054.17	173.3	880.87	10/17/08	39.1					
01S04W-13F002S 31-1		Gage Canal Co.	1,054.64	142.8	911.84	12/01/07	1,054.64	163.3	891.34	11/16/08	20.5					
01S04W-13G002S 46-1		Gage Canal Co.	1,065.50	168.2	897.30	11/01/07	1,065.50	175	890.50	12/04/08	6.8					
01S04W-23A005S 51-1		Gage Canal Co.	1,044.64	138.3	906.34	12/01/07	1,044.64	199.5	845.14	10/17/08	61.2					
01S04W-13G003S 56-1		Gage Canal Co.	1,065.50	180.1	885.40	11/01/07	1,065.50	194.3	871.20	10/17/08	14.2					
01S03W-17C003S Daniel's Well		Gage Canal Co.	1,180.75	-	-	-	1,180.75	-	-	-	-					
01S04W-23G001S Conlane		Gage Canal Co.	1,046.70	128.8	917.90	11/27/06	1,046.70	-	1,046.70	-	-128.3					
01S04W-23A001S Santa Fe		Gage Canal Co.	1,044.65	-	-	-	1,044.65	-	-	-	-					
01S04W-23C003S Upper Kelly		Gage Canal Co.	1,044.31	-	-	-	1,044.31	-	-	-	-					
01S04W-14R Lower Kelly		Gage Canal Co.	1,040.76	-	-	-	1,040.76	-	-	-	-					
01S04W-25Q 17		Gage Canal Co.	1,036.54	-	-	-	1,036.54	-	-	-	-					
01S04W-23G003S 66-1		Gage Canal Co.	1,044.85	175.2	869.65	11/01/07	1,044.85	172.0	872.85	09/21/08	-3.2					
01S04W-13P Gage Dom #6		Gage Canal Co.	1,067.70	-	-	-	1,067.70	-	-	-	-					
01S04W-13N007S 92-1		Gage Canal Co.	1,047.78	167.2	880.58	12/01/07	1,047.78	225.2	822.58	10/17/08	58.0					
01S04W-13L007S 92-2		Gage Canal Co.	1,053.38	226.7	826.68	12/01/07	1,053.38	222.5	830.88	10/17/08	-4.2					
01S04W-13L008S 92-3		Gage Canal Co.	1,058.78	144.2	914.58	12/01/07	1,058.78	204.2	854.58	10/17/08	60.0					
01S04W-23A006S 98-1		Gage Canal Co.	1,046.70	153.3	893.40	12/01/07	1,046.70	238.3	808.40	10/17/08	85.0					
01S04W-23D006S Anderson II		Loma Linda University	1,075.00	-	-	-	1,075.00	-	-	-	-					
01S04W-23D007S Anderson III		Loma Linda University	1,070.00	-	-	-	1,070.00	-	-	-	-					
01S03W-32D Nick's Well		Loma Linda, City of	1,216.00	FC	FC	-	1,216.00	FC	FC	-	-					
01S04W-24A Mr. View Well I		Loma Linda, City of	1,095.00	FC	FC	-	1,095.00	FC	FC	-	-					
01S04W-24B001S Mr. View Well II		Loma Linda, City of	1,085.00	FC	FC	-	1,085.00	FC	FC	-	-					
01S04W-24C003S Richardson II		Loma Linda, City of	1,078.00	FC	FC	-	1,078.00	FC	FC	-	-					
01S04W-24A005S Mr. View Well #3		Loma Linda, City of	1,095.00	103	902.00	12/03/07	1,095.00	193	902.00	12/01/08	0.0					
01S04W-24D008S Mr. View Well #4		Loma Linda, City of	1,106.00	184	922.00	12/17/07	1,106.00	189	917.00	12/01/08	5.0					
01S04W-24B003S Mr. View Well #5		Loma Linda, City of	1,085.00	165	920.00	12/17/07	1,085.00	178	907.00	12/01/08	13.0					
01S04W-24C002S Richardson #1		Loma Linda, City of	1,077.00	172	905.00	12/17/07	1,077.00	897	180.00	12/01/08	75.0					
01S04W-24H004S Richardson #3		Loma Linda, City of	1,070.00	183	896.00	12/17/07	1,070.00	190	889.00	12/01/08	7.0					
01S04W-24F001S Richardson #4		Loma Linda, City of	1,070.00	179	891.00	12/17/07	1,070.00	189	881.00	12/01/08	10.0					
01S02W-19K001S Ayate #1		Redlands, City of	1,723.00	135	1,588.00	12/07	1,723.00	128	1,595.00	12/08	-7.0					
01S02W-19A001S Ayate #2		Redlands, City of	1,720.00	185	1,535.00	12/07	1,720.00	177	1,545.00	12/08	-8.0					
01S03W-13H002S Airport #1		Redlands, City of	1,536.00	211	1,319.00	12/07	1,536.00	220	1,310.00	12/08	9.0					

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	
01S04W-06C004S	City 6	Rialto, City of	1,211.00	238	932.00	11/29/07	1,211.00	279	932.00	12/29/08	21.0
01N004W-31E002S	LC #2	Riverside Highland Water Co.	-	-	-	-	-	-	-	-	-
01N004W-31E002S	LC #1	Riverside Highland Water Co.	1,269.22	403	866.22	11/30/07	1,269.22	436	833.22	12/04/08	33.0
01N004W-31E003S	LC #10	Riverside Highland Water Co.	1,266.00	398	868.00	11/30/07	1,266.00	432	834.00	12/04/08	34.0
01N004W-31E001S	LC #8	Riverside Highland Water Co.	1,258.00	-	-	-	1,258.00	-	-	-	-
01S04W-22L	FW #2	Riverside Highland Water Co.	983.00	FC	FC	-	983.00	FC	FC	-	-
01S04W-22L06S	FW #18	Riverside Highland Water Co.	984.38	FC	FC	-	984.38	FC	FC	-	-
01S04W-22M07S	FW #1	Riverside Highland Water Co.	-	FC	FC	-	-	FC	FC	-	-
01S04W-22N	Flowing	Riverside Highland Water Co.	-	FC	FC	-	-	FC	FC	-	-
01S04W-22N	FW #10	Riverside Highland Water Co.	-	FC	FC	-	-	FC	FC	-	-
01S04W-22P	FW #11	Riverside Highland Water Co.	-	FC	FC	-	-	FC	FC	-	-
01S04W-22P	FW #8	Riverside Highland Water Co.	-	FC	FC	-	-	FC	FC	-	-
01S04W-22P05S	FW #24	Riverside Highland Water Co.	989.61	FC	FC	-	989.61	FC	FC	-	-
01S04W-22L017S	Flowing Well #5	Riverside Highland Water Co.	989.00	85	904.00	11/30/07	989.00	93	896.00	12/04/08	8.0
01S04W-22L008S	FW #12	Riverside Highland Water Co.	983.44	78	907.44	11/30/07	983.44	89	896.44	12/04/08	11.0
01S04W-02P004S	Cooley E	Riverside, City of	1,040.00	FC	FC	-	1,040.00	FC	FC	-	-
01S04W-09N003S	Bunker Hill Dike 5	Riverside, City of	960.28	FC	FC	-	960.28	FC	FC	-	-
01S04W-22B002S	Byrne	Riverside, City of	998.20	FC	FC	-	998.20	FC	FC	-	-
01S04W-22E005S	Bunker Hill Dike 4	Riverside, City of	975.70	FC	FC	-	975.70	FC	FC	-	-
01S04W-22L017S	Bunker Hill Dike 9	Riverside, City of	979.06	FC	FC	-	979.06	FC	FC	-	-
01S04W-22L017S	Martinez 2	Riverside, City of	982.00	FC	FC	-	982.00	FC	FC	-	-
01S04W-27A007S	Hunt 8	Riverside, City of	1,017.00	FC	FC	-	1,017.00	FC	FC	-	-
01S04W-27C007S	Bunker Hill Dike 6	Riverside, City of	991.78	FC	FC	-	991.78	FC	FC	-	-
01S04W-01E001S	Peble	Riverside, City of	1,061.00	FC	FC	-	1,061.00	FC	FC	-	-
01S04W-02A003S	Sittes	Riverside, City of	1,072.00	190	882.00	11/20/07	1,072.00	-	-	-	-
01S04W-02L001S	Scheuer	Riverside, City of	1,052.00	FC	FC	-	1,052.00	FC	FC	-	-
01S04W-02L002S	Cooley F	Riverside, City of	1,050.00	180	870.00	11/30/07	1,050.00	FC	FC	-	-
01S04W-02N002S	Cooley G	Riverside, City of	1,040.10	FC	FC	-	1,040.10	FC	FC	-	-
01S04W-02P001S	Gamer 5	Riverside, City of	1,046.00	193.2	852.80	10/31/07	1,046.00	FC	FC	-	-
01S04W-02P002S	Cooley D	Riverside, City of	1,037.60	178	859.60	11/30/07	1,037.60	FC	FC	-	-
01S04W-02P003S	Cooley C	Riverside, City of	1,040.50	177	863.50	11/30/07	1,040.50	FC	FC	-	-
01S04W-02P006S	Gamer 1	Riverside, City of	1,049.40	FC	FC	-	1,049.40	FC	FC	-	-
01S04W-02Q003S	Gamer 2	Riverside, City of	1,053.90	FC	FC	-	1,053.90	FC	FC	-	-
01S04W-02Q006S	Gamer 4	Riverside, City of	1,057.10	FC	FC	-	1,057.10	FC	FC	-	-
01S04W-02Q007S	Gamer 3	Riverside, City of	1,033.00	183	868.00	11/30/07	1,033.00	FC	FC	-	-
01S04W-11D001S	Cooley B	Riverside, City of	1,034.40	176	858.40	11/30/07	1,034.40	FC	FC	-	-
01S04W-11D002S	Cooley H	Riverside, City of	1,035.30	232.00	803.30	11/30/07	1,035.30	FC	FC	-	-
01S04W-11D003S	Cooley I	Riverside, City of	1,033.20	229.0	804.20	11/31/07	1,033.20	FC	FC	-	-
01S04W-11D004S	Cooley A	Riverside, City of	1,029.80	174	846.80	11/30/07	1,029.80	FC	FC	-	-
01S04W-14N009S	Raub 5	Riverside, City of	1,016.50	174.0	842.50	11/30/07	1,016.50	FC	FC	-	-
01S04W-14N010S	Raub 6	Riverside, City of	1,015.00	179	836.00	11/30/07	1,015.00	FC	FC	-	-
01S04W-14P002S	Raub 1	Riverside, City of	1,026.80	144.0	882.80	11/30/07	1,026.80	FC	FC	-	-
01S04W-14P006S	Raub 3	Riverside, City of	1,027.10	138	889.10	11/30/07	1,027.10	FC	FC	-	-
01S04W-22A	Fayne	Riverside, City of	-	-	-	-	-	-	-	-	-
01S04W-22B001S	Thom 9	Riverside, City of	1,002.90	58.0	944.90	9/51/07	1,002.90	FC	FC	-	-
01S04W-22B003S	Thom 10	Riverside, City of	999.10	58.0	941.10	9/51/07	999.10	FC	FC	-	-
01S04W-22B005S	Thom 11	Riverside, City of	996.90	-	-	-	996.90	-	-	-	-
01S04W-22B007S	Thom 12	Riverside, City of	1,001.86	98.0	903.86	11/30/07	1,001.86	FC	FC	-	-
01S04W-22G014S	Thom 3	Riverside, City of	994.90	80.0	914.90	12/01/07	994.90	FC	FC	-	-
01S04W-22G016S	Thom 5	Riverside, City of	994.30	82.0	912.30	09/30/07	994.30	FC	FC	-	-

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	
01S04W-22G017S	Thorn 7	Riverside, City of	994.40	82.0	912.40	9/21/07	994.40	FC	994.40		
01S04W-22G018S	Thorn 6	Riverside, City of	995.00	FC	FC	-	995.00	FC	FC		
01S04W-22G019S	Thorn 8	Riverside, City of	995.60	81.0	914.60	9/21/07	995.60				
01S04W-22H001S	Warren 2 *	Riverside, City of	1,004.75	90.0	914.75	11/20/07	1,004.75	1,004.75	1,004.75		
01S04W-22H002S	Warren 4	Riverside, City of	1,005.30	171.0	834.30	11/20/07	1,005.30	1,005.30	1,005.30		
01S04W-22H003S	Warren 3	Riverside, City of	998.00	98.0	900.00	11/20/07	998.00	998.00	998.00		
01S04W-22H004S	Warren 1	Riverside, City of	998.60	156.0	842.60	11/20/07	998.60	998.60	998.60		
01S04W-22N002S	Bunker Hill Dike 3	Riverside, City of	981.31	-	-	-	981.31	-	-		
01S04W-23C002S	Ramb 2	Riverside, City of	1,025.00	133.0	892.00	11/20/07	1,025.00	1,025.00	1,025.00		
01S04W-23C003S	Ramb 4	Riverside, City of	1,022.80	156.0	866.80	11/20/07	1,022.80	1,022.80	1,022.80		
01S04W-27A002S	Hunt 2	Riverside, City of	1,016.00	101.0	915.00	09/20/07	1,016.00	1,016.00	1,016.00		
01S04W-27A003S	Hunt 9	Riverside, City of	1,016.00	-	-	-	1,016.00	-	-		
01S04W-27A004S	Hunt 10	Riverside, City of	1,017.70	128.0	889.70	11/20/07	1,017.70	1,017.70	1,017.70		
01S04W-27A010S	Hunt 11	Riverside, City of	1,015.70	103.8	911.90	10/21/07	1,015.70	1,015.70	1,015.70		
01S04W-27A011S	Hunt 6	Riverside, City of	1,015.50	-	-	-	1,015.50	-	-		
01S04W-27A013S	Stewart 21	Riverside, City of	1,017.30	135.0	882.30	11/20/07	1,017.30	1,017.30	1,017.30		
01S04W-27A019S	Stewart 19	Riverside, City of	1,020.00	98.0	922.00	11/20/07	1,020.00	1,020.00	1,020.00		
01S04W-27H001S	Stewart 20	Riverside, City of	1,020.00	121.0	899.00	11/20/07	1,020.00	1,020.00	1,020.00		
01S04W-02Q010S	Gamer 6	Riverside, City of	1,047.98	99.4	948.58	10/21/07	1,047.98	1,047.98	1,047.98		
01S04W-02Q011S	Gamer 7	Riverside, City of	1,050.70	171.0	879.70	11/20/07	1,050.70	1,050.70	1,050.70		
01S04W-14N	Ramb 8	Riverside, City of	1,016.44	177.0	839.44	11/20/07	1,016.44	1,016.44	1,016.44		
01S04W-18J	Cornell Carriage Co. (#90035)	San Bernardino Co. Hazmat (WMWD)	1,004.00	-	-	-	1,004.00	-	-		
01N04W-33N	Thrifty Oil #726 (#90123)	San Bernardino Co. Hazmat (WMWD)	1,149.00	-	-	-	1,149.00	-	-		
01S04W-35H	Utecal (#94023)	San Bernardino Co. Hazmat (WMWD)	1,600.00	-	-	-	1,600.00	-	-		
01S04W-04R	Chevron (6th and H St)	San Bernardino Co. Hazmat (WMWD)	1,080.00	-	-	-	1,080.00	-	-		
01S04W-10B	Colonus Garage (#90217)	San Bernardino Co. Hazmat (WMWD)	1,021.00	-	-	-	1,021.00	-	-		
01S04W-10K	Galanter Beauty & Barber Supply (190 S Arrowhead)	San Bernardino Co. Hazmat (WMWD)	994.00	-	-	-	994.00	-	-		
01S04W-10K	San Bernardino City. (#) Central Garage	San Bernardino Co. Hazmat (WMWD)	1,030.00	-	-	-	1,030.00	-	-		
01S04W-10M	L-Hunt Center C-632 San Bernardino (S D S)	San Bernardino Co. Hazmat (WMWD)	1,024.00	-	-	-	1,024.00	-	-		
01S04W-10N	Jacks Disposal (#97048)	San Bernardino Co. Hazmat (WMWD)	1,007.00	-	-	-	1,007.00	-	-		
01S04W-15P	Alameda Mgmt. #512	San Bernardino Co. Hazmat (WMWD)	984.00	-	-	-	984.00	-	-		
01S04W-23D	Chevron Service Station #9-2786	San Bernardino Co. Hazmat (WMWD)	1,065.00	-	-	-	1,065.00	-	-		
01S04W-25Q	Tuner Storage/LLU (#90118)	San Bernardino Co. Hazmat (WMWD)	1,060.00	-	-	-	1,060.00	-	-		
01S04W-26D	Arco #5214	San Bernardino Co. Hazmat (WMWD)	1,015.00	-	-	-	1,015.00	-	-		
01S04W-17D	Arco #6227 (702 W 2nd St)	San Bernardino Co. Hazmat (WMWD)	1,050.00	-	-	-	1,050.00	-	-		
01S04W-21N	Ca Targer #943 (#90037)	San Bernardino Co. Hazmat (WMWD)	1,235.00	-	-	-	1,235.00	-	-		
01S04W-16R	Furr Co. Inc. (#92009)	San Bernardino Co. Hazmat (WMWD)	1,000.00	-	-	-	1,000.00	-	-		
01S04W-10B	Empco Gas (B&K Gas)(#92061)	San Bernardino Co. Hazmat (WMWD)	1,031.74	-	-	-	1,031.74	-	-		
01S04W-44Q	INCO (#91009)	San Bernardino Co. Hazmat (WMWD)	1,075.00	-	-	-	1,075.00	-	-		
01S04W-16H	Levitz Furniture (#95053)	San Bernardino Co. Hazmat (WMWD)	1,015.00	-	-	-	1,015.00	-	-		
01S04W-01A	Levitz Furniture (#95053)	San Bernardino Co. Hazmat (WMWD)	1,105.40	-	-	-	1,105.40	-	-		
01S04W-15P	Mobil #18-1PH (#94061) MW-1	San Bernardino Co. Hazmat (WMWD)	990.19	-	-	-	990.19	-	-		
01S04W-09Q	Mobil Oil Corp. (Mill & H)	San Bernardino Co. Hazmat (WMWD)	1,021.00	-	-	-	1,021.00	-	-		
01N04W-33C	Promo Gas #316/Farout(#92060)	San Bernardino Co. Hazmat (WMWD)	1,180.53	-	-	-	1,180.53	-	-		
01S04W-10C	San Bernardino Water Dept (#92043)	San Bernardino Co. Hazmat (WMWD)	1,038.00	-	-	-	1,038.00	-	-		
01S04W-09M	San Fe Maintenance Terminal	San Bernardino Co. Hazmat (WMWD)	1,080.00	-	-	-	1,080.00	-	-		
01S04W-24N	Shell Station (#98056) MW-1	San Bernardino Co. Hazmat (WMWD)	1,063.13	-	-	-	1,063.13	-	-		
01S04W-08B	South CAL Gas Co. (810 S Flower)	San Bernardino Co. Hazmat (WMWD)	1,033.00	-	-	-	1,033.00	-	-		
01S04W-27R	Tosco7K (#99043) MW-10	San Bernardino Co. Hazmat (WMWD)	1,013.05	-	-	-	1,013.05	-	-		
01S04W-22Q	Truck-o-Mat (#91008)	San Bernardino Co. Hazmat (WMWD)	992.50	-	-	-	992.50	-	-		

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008	
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft. AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft. AMSL)	Date Measured		
01S04W-03Q	Waterman Shell (385 N Arrowhead)	San Bernardino Co. Hazmat (WAWWD)	1,020.00	-	-	-	1,020.00	-	-	-	-	-
01S04W-10F	City of San Bernardino MVD (195 N "D" St) MW-1	San Bernardino Co. Hazmat (WAWWD)	1,026.75	-	-	-	1,026.75	-	-	-	-	-
01S02W-07B001S	SBVWCD #1	San Bernardino Valley Wtr. Cons. Dist.	1,650.50	266.61	1,383.89	12/03/07	1,650.50	266.77	1,383.73	12/17/08	0.2	
01S02W-07K001S	SBVWCD #2	San Bernardino Valley Wtr. Cons. Dist.	1,646.40	213.69	1,432.71	12/03/07	1,646.40	210.86	1,435.54	12/17/08	-2.8	
01S02W-17E001S	Mill Ck. Monitoring #4	San Bernardino Valley Wtr. Cons. Dist.	1,760.00	214.63	1,545.37	12/03/07	1,760.00	198.77	1,561.23	12/17/08	-15.9	
01S02W-17E002S	Mill Ck. Monitoring #5	San Bernardino Valley Wtr. Cons. Dist.	1,760.00	230.4	1,529.60	12/03/07	1,760.00	224.84	1,535.16	12/17/08	-5.6	
01S02W-17L001S	Mill Ck. Monitoring #1	San Bernardino Valley Wtr. Cons. Dist.	1,800.00	149.16	1,650.84	12/03/07	1,800.00	145.96	1,654.04	12/17/08	-3.2	
01S02W-17L002S	Mill Ck. Monitoring #2	San Bernardino Valley Wtr. Cons. Dist.	1,800.00	183.64	1,616.36	12/03/07	1,800.00	185.17	1,614.83	12/17/08	1.5	
01S03W-11H001S	SBVWCD #3	San Bernardino Valley Wtr. Cons. Dist.	1,411.20	169.8	1,241.40	12/03/07	1,411.20	175.75	1,235.45	12/17/08	-6.0	
01S03W-12B001S	SBVWCD #4	San Bernardino Valley Wtr. Cons. Dist.	1,541.70	213.57	1,328.13	12/03/07	1,541.70	210.86	1,330.84	12/17/08	-2.7	
01N04W-14P01S	40th & Valencia	San Bernardino, City of	1,355	292.00	1,063.00	11/21/07	1,355	320.00	1,035.00	12/17/08	28.0	
01N05W-03H001S	Cajon Well #1	San Bernardino, City of	1,899.42	-	-	-	1,899.42	-	-	-	-	
02N05W-19K002S	Cajon Canyon Well	San Bernardino, City of	2,331.92	-	-	-	2,331.92	74.10	2,257.82	-	-	
01N05W-03H002S	Cajon Well #2	San Bernardino, City of	1,897.17	183	1,714.17	11/20/07	1,897.17	189	1,708.17	12/17/08	6.0	
01N05W-03A002S	Cajon Well #3	San Bernardino, City of	1,894.00	174	1,720.00	12/17/07	1,894.00	178.7	1,715.30	12/17/08	4.7	
01N05W-03A001S	Cajon Well #4	San Bernardino, City of	1,923.00	183.8	1,739.20	11/20/07	1,923.00	188.1	1,734.90	12/17/08	4.3	
02N05W-19Q001S	Vinecort Well	San Bernardino, City of	2,314.32	93.47	2,220.85	11/20/07	2,314.32	110.5	2,203.82	12/17/08	-93.5	
02N05W-19R005S	Kenwood 2	San Bernardino, City of	2,289.00	153.37	2,135.63	11/20/07	2,289.00	110.5	2,178.50	12/17/08	-42.9	
02N05W-19R001S	Kenwood 1	San Bernardino, City of	2,350.80	140.33	2,210.47	11/20/07	2,350.80	109	2,241.80	12/17/08	-31.3	
01N04W-07F001S	Devil Canyon #2	San Bernardino, City of	1,621.96	131.98	1,489.98	11/21/07	1,621.96	154.7	1,467.26	12/17/08	22.7	
01N04W-08M001S	Devil Canyon #1	San Bernardino, City of	1,550.00	137.15	1,392.85	11/21/07	1,550.00	157.2	1,372.80	12/17/08	20.1	
01N05W-36R001S	Lyle Creek #3	San Bernardino, City of	1,247.82	381.92	865.90	11/20/07	1,247.82	-	-	-	-	
01N04W-16E002S	Newmark #2	San Bernardino, City of	1,495.26	-	-	-	1,495.26	-	-	-	-	
01N04W-30A001S	Mallory Well	San Bernardino, City of	1,319.84	335.27	984.57	12/17/07	1,319.84	-	-	-	-	
01N04W-06H001S	Devil Canyon #4	San Bernardino, City of	1,903.44	42.74	1,860.70	11/20/07	1,903.44	41.4	1,862.04	12/17/08	-1.3	
01N04W-06H002S	Devil Canyon #3	San Bernardino, City of	1,888.46	-	-	-	1,888.46	28.3	-	-	-	
02N04W-08M001S	Devil Canyon #5	San Bernardino, City of	1,549.00	143.96	1,405.04	11/20/07	1,549.00	162.1	1,386.90	12/17/08	18.1	
01N05W-36G004S	Lyle Creek #2	San Bernardino, City of	1,252.25	385.18	867.07	11/20/07	1,252.25	-	-	-	-	
01N04W-16E001S	Newmark #1	San Bernardino, City of	1,412.99	182.8	1,230.19	11/20/07	1,412.99	178	1,234.99	12/17/08	-4.8	
01N04W-16E003S	Newmark #3	San Bernardino, City of	1,407.92	186.11	1,221.81	11/21/07	1,407.92	182.8	1,225.12	12/17/08	-3.3	
01N04W-06A001S	Devil Canyon 6	San Bernardino, City of	2,042.00	20.1	2,021.90	11/20/07	2,042.00	19.5	2,022.50	12/15/08	-0.6	
01N04W-06A002S	Devil Canyon 7	San Bernardino, City of	2,037.00	19.9	2,017.10	11/20/07	2,037.00	19	2,018.00	11/25/08	-0.9	
01N04W-35C001S	Perris Hill #2	San Bernardino, City of	1,151.61	FC	FC	-	1,151.61	FC	FC	-	-	
01N04W-35L001S	Meechan	San Bernardino, City of	1,129.94	FC	FC	-	1,129.94	FC	FC	-	-	
01S04W-02K001S	Anil Well #3	San Bernardino, City of	1,054.24	FC	FC	-	1,054.24	FC	FC	-	-	
01S04W-15E	Station 66	San Bernardino, City of	990.00	FC	FC	-	990.00	FC	FC	-	-	
01N04W-31A001S	ML Verman	San Bernardino, City of	1,258.75	297.58	961.17	11/20/07	1,258.75	-	-	-	-	
01N04W-32D003S	19th Street #1	San Bernardino, City of	1,231.03	-	-	-	1,231.03	-	-	-	-	
01N04W-27G001S	30th & Min. View	San Bernardino, City of	1,227.38	340.1	887.28	11/21/07	1,227.38	348.7	878.68	12/15/08	8.6	
01N04W-27M002S	27th Street Well	San Bernardino, City of	1,184.07	302.1	881.97	12/17/07	1,184.07	302.8	881.27	12/15/08	0.7	
01N04W-34G001S	17th & Sierra Way #2	San Bernardino, City of	1,137.23	265.45	871.78	11/21/07	1,137.23	-	-	-	-	
01N04W-26E002S	Lynwood Well	San Bernardino, City of	1,236.23	-	-	-	1,236.23	-	-	-	-	
01N04W-26E002S	Waterman Well	San Bernardino, City of	1,244.77	347.4	897.37	-	1,244.77	-	-	-	-	
01N04W-35M002S	Gilbert Street Well	San Bernardino, City of	1,123.54	268	855.54	11/19/07	1,123.54	241.5	882.04	12/15/08	-26.5	
01N04W-26P003S	Perris Hill #5	San Bernardino, City of	1,173.46	283.84	889.62	11/21/07	1,173.46	-	-	-	-	
01N04W-35C002S	Perris Hill #3	San Bernardino, City of	1,167.43	-	-	-	1,167.43	-	-	-	-	
01N04W-35C003S	Perris Hill #4	San Bernardino, City of	1,168.25	283.2	885.05	11/20/07	1,168.25	293	873.25	12/15/08	9.8	
01N04W-27B001S	31st & Min. View	San Bernardino, City of	1,233.01	341.13	891.88	12/17/07	1,233.01	346.00	887.01	12/15/08	4.9	
01N04W-27N001S	22nd Street Well	San Bernardino, City of	1,174.75	-	-	-	1,174.75	-	-	-	-	

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	
01S04W-03J004S	7th Street Well	San Bernardino, City of	1,057.29	184	873.39	12/17/07	1,057.29	172.7	879.69	12/15/08	-6.3
01N04W-16E004S	Newmark #1	San Bernardino, City of	1,413.57	180.9	1,232.67	1/20/07	1,413.57	179	1,234.57	12/15/08	-1.9
01N04W-32N001S	Baseline & Cal Well	San Bernardino, City of	1,185.56	248.75	936.81	1/20/07	1,185.56		1,185.56	12/16/08	-248.8
01N04W-27A002S	Lenny Street Well	San Bernardino, City of	1,239.67	343.5	896.17	12/17/07	1,239.67	348.4	891.27	12/15/08	4.9
01S04W-02K008S	Antil Well #6	San Bernardino, City of	1,053.84	210	843.84	1/21/07	1,053.84		1,053.84	12/16/08	-210.0
01S04W-08P001S	Elizav Bros.	San Bernardino, City of	1,477.96	171.17	1,306.79	1/20/07	1,477.96	160.2	1,317.76	12/15/08	-11.0
01S04W-04D	Olive & Garner	San Bernardino, City of	1,132.52	233.88	898.64	1/20/07	1,132.52	245.3	887.22	12/05/08	11.4
01S04W-04B004S	10th & J Street	San Bernardino, City of	1,113.82	254.91	858.91	1/20/07	1,113.82	252.7	861.12	1/25/08	-2.2
01N04W-32D004S	19th Street #2	San Bernardino, City of	1,236.34	284.24	952.10	1/21/07	1,236.34	293.1	943.24	1/25/08	8.9
01N04W-34G003S	10th & Sierra Way	San Bernardino, City of	1,135.13	249.68	885.45	12/17/07	1,135.13	266.40	868.73	1/24/08	16.7
01S04W-02K005S	Antil No. 4	San Bernardino, City of	1,058.47	-	-	-	1,058.47	-	-	-	-
01S04W-02K002S	Antil No. 5	San Bernardino, City of	1,058.96	-	-	-	1,058.96	-	-	-	-
01S04W-15P005S	Chandler Well	San Bernardino, City of	989.28	-	-	-	989.28	-	-	-	-
01S04W-22C005S	Century Well	San Bernardino, City of	989.01	-	-	-	989.01	-	-	-	-
01S04W-03D004S	EPA No. 1 (11th/Stoddard)	San Bernardino, City of	1,093.90	254.19	839.71	12/17/07	1,093.90	221	872.90	12/15/08	-33.2
01S04W-03C003S	EPA No. 2 (322 W. 11th)	San Bernardino, City of	1,091.70	233.58	858.12	12/17/07	1,091.70	233.4	858.30	12/15/08	9.8
01S04W-03C004S	EPA No. 3 (266 E. 11th)	San Bernardino, City of	1,090.22	244.06	846.16	12/17/07	1,090.22	266.6	823.62	12/15/08	22.3
01S04W-03B005S	EPA No. 4 (107 W. 11th)	San Bernardino, City of	1,086.27	221.55	864.72	12/17/07	1,086.27	225.8	860.47	12/15/08	4.3
01S04W-03A004S	EPA No. 5 (227 E. 11th)	San Bernardino, City of	1,083.27	218.75	864.52	12/17/07	1,083.27	222	861.27	12/15/08	3.3
01N04W-16M001S	EPA No. 6 (Kendall/Western)	San Bernardino, City of	1,396.55	184.55	1,212.00	12/17/07	1,396.55	189.3	1,207.25	02/15/08	4.8
01N04W-16M004S	EPA No. 7 (Moose Lodge)	San Bernardino, City of	1,404.54	195.33	1,209.21	12/17/07	1,404.54	189.3	1,215.24	12/15/08	-6.0
01N04W-33R	EPA 108	San Bernardino, City of	1,119.26	255.75	863.51	12/17/07	1,119.26	269.9	849.36	12/15/08	14.2
01N04W-33P	EPA 109	San Bernardino, City of	1,137.05	406.12	730.93	12/17/07	1,137.05	406	731.05	12/15/08	-8.1
01N04W-33N	EPA 110	San Bernardino, City of	1,146.19	255.02	911.17	12/17/07	1,146.19	396	750.19	12/15/08	161.0
01N04W-32R	EPA 111	San Bernardino, City of	1,165.70	313.3	852.40	12/17/07	1,165.70	289.58	876.12	12/15/08	-23.7
01N04W-32Q	EPA 112	San Bernardino, City of	1,181.79	326.28	855.51	12/17/07	1,181.79	232.2	929.59	12/15/08	-74.1
01N04W-27M001S	25th and N "E" Street	San Bernardino, City of	1,192.10	304.9	887.20	1/21/07	1,192.10	300	892.10	1/26/08	-4.9
01S04W-03D001S	11th and "E" Street	San Bernardino, City of	1,056.80	-	-	-	1,056.80	-	-	-	-
01S04W-10N006S	Mill and "D"	San Bernardino, City of	1,001.07	79.33	921.74	1/21/07	1,001.07	85	916.07	12/16/08	5.7
01N04W-20M	#30. Paperboard	San Bernardino, City of	1,365	336.00	1,029.00	12/19/07	1,365	334.00	1,031.00	1/25/08	-2.0
01S04W-09K	#61. Valley & "G"	San Bernardino, City of	1,040	-	-	-	1,040	-	-	-	-
01S04W-23D	#67. S. Wrenan & Dumas	San Bernardino, City of	1,010	-	-	-	1,010	-	-	-	-
01S04W-10B	#62. Mill & "G"	San Bernardino, City of	1,010	-	-	-	1,010	-	-	-	-
01S04W-15G	#36b. S.B. County/6	San Bernardino, City of	1,025	-	-	-	1,025	-	-	-	-
01S04W-23H	#65. Washington/Central	San Bernardino, City of	1,002	-	-	-	1,002	-	-	-	-
01S04W-16I	#52. Briar/Gould/Tippencanoe	San Bernardino, City of	1,035	34.10	1,020.90	12/19/07	1,035	29.90	1,023.10	1/26/08	-4.2
01S04W-11E	#13. Baldo & San Felipe	San Bernardino, City of	1,070	20.50	999.50	12/19/07	1,070	-	1,020.00	-	-
01S04W-03Q	#34a. S.B. County/1	San Bernardino, City of	1,040	-	-	-	1,040	-	-	-	-
01S04W-15C	#03. Mill & Arrowhead	San Bernardino, City of	997	-	-	-	997	-	-	-	-
01N04W-25K	#26. Meham Well	San Bernardino, City of	1,105	253.07	851.93	10/24/07	1,105	255.7	849.30	1/26/08	2.6
01S04W-22P	#08. Hospitality & Sunvest	San Bernardino, City of	982	23.79	958.21	1/26/07	982	24.2	957.80	1/26/08	0.4
01N04W-23N	#29. Baseline & Muscott	San Bernardino, City of	1,170	FC	FC	-	1,170	FC	FC	-	-
01S04W-27B	#54. Club Center/Hunts Ln	San Bernardino, City of	1,090	FC	FC	-	1,090	FC	FC	-	-
01S04W-23Q	#35. Hospitality/Hartman	San Bernardino, City of	990	26.3	965.70	12/19/07	990	24.7	965.30	1/26/08	-1.6
01S04W-22C	#21. Wareswater N MW #1	San Bernardino, City of	1,040	21.1	1,018.90	12/19/07	1,040	21.2	1,018.80	1/26/08	0.1
01S04W-22J	#55. Airport/Commerce/E	San Bernardino, City of	989	FC	FC	-	989	FC	FC	-	-
01S04W-23L	#56. Vanderbilt/Carnegie	San Bernardino, City of	1,005	16.85	988.15	12/19/07	1,005	21.3	983.70	1/26/08	4.4
01S04W-23I	#53. Briar/Carnegie #2	San Bernardino, City of	1,029	-	-	-	1,029	-	-	-	-
01S04W-23L	#53. Briar/Carnegie #2	San Bernardino, City of	1,035	32.75	1,002.25	12/19/07	1,035	31.6	1,003.40	1/26/08	-1.1

Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	Measuring Point Elevation	Depth to Water	Groundwater Elevation (ft, AMSL)	Date Measured	
01S04W-10D	#32, City Hall	San Bernardino, City of/shallow (36.5')	1.040	28.80	1.011,20	12/19/07	1.040	-	-	-	-
01S04W-22M	#51, McKay, & S. E. St.	San Bernardino, City of/shallow (38')	978	FC	FC	-	978	FC	-	FC	-
01S04W-11C	#42, 4th St & Palm Ave	San Bernardino, City of/shallow (40')	1.045	36.00	1.009,00	12/19/07	1.045	1.045,00	-	1.045,00	-36.0
01S04W-23G	#60, Bror & Clifford	San Bernardino, City of/shallow (40')	1.040	FC	FC	-	1.040	36.70	1.003,30	-	-
01S04W-10F	#49, Handford #1, SCE	San Bernardino, City of/shallow (41')	1.030	99.85	930,15	11/26/07	1.030	105.7	924,30	11/26/08	5.9
01S04W-03Q	#34b, S.B. County/I	San Bernardino, City of/shallow (47')	-	-	-	-	-	-	-	-	-
01S04W-02N	#44, Ward & Cooley	San Bernardino, City of/shallow (50')	1.045	FC	FC	-	1.045	FC	FC	-	-
01S04W-03J	#43, 7th St & Waterman	San Bernardino, City of/shallow (50')	1.050	FC	FC	-	1.050	FC	FC	-	-
01S04W-07H	#31, Runcha & Rialto	San Bernardino, City of/shallow (50')	1.120	FC	FC	-	1.120	FC	FC	-	-
01S04W-13E	#27, Central/Tipecanoc	San Bernardino, City of/shallow (50')	1.060	FC	FC	-	1.060	FC	FC	-	-
01S04W-22F	#49, Wastwater Brine D.	San Bernardino, City of/shallow (50')	985	FC	FC	-	985	FC	FC	-	-
01S04W-12B	#28, 3rd st & Shirley	San Bernardino, City of/shallow (51')	1.090	FC	FC	-	1.090	FC	FC	-	-
01S04W-23N	#59, Hospitaliv/E Carnegie	San Bernardino, City of/shallow (53')	1.020	49.02	970,98	12/09/07	1.020	48	972,00	11/26/08	-1.0
01S04W-22B	#21, Wastewater S MW #3	San Bernardino, City of/shallow (60')	992	-	-	-	992	-	-	-	-
01S04W-03Q	#37, Heng Well	San Bernardino, City of/shallow (98')	1.040	FC	FC	-	1.040	FC	FC	-	-
01N03W-19K002S	Del Rosa	U.S. Geological Survey/SBVAWD	1.477,00	FC	FC	-	1.477,00	FC	FC	-	-
01N03W-27N001S	Highland Ave	U.S. Geological Survey/SBVAWD	1.470,00	FC	FC	-	1.470,00	FC	FC	-	-
01N03W-31Q002S	Harlem Springs	U.S. Geological Survey/SBVAWD	1.120,00	FC	FC	-	1.120,00	FC	FC	-	-
01N03W-33C002S	Pullon #11	U.S. Geological Survey/SBVAWD	-	FC	FC	-	-	FC	FC	-	-
01N03W-23N001S	Near Victoria & Baseline	U.S. Geological Survey/SBVAWD	1.143,00	FC	FC	-	1.143,00	FC	FC	-	-
01N03W-33M001S	Palm/Baseline	U.S. Geological Survey/SBVAWD	1.283,00	FC	FC	-	1.283,00	FC	FC	-	-
01N04W-23G001S	40th St on levee	U.S. Geological Survey/SBVAWD	1.345,03	FC	FC	-	1.345,03	FC	FC	-	-
01N04W-23G003S	40th St on levee	U.S. Geological Survey/SBVAWD	1.345,03	FC	FC	-	1.345,03	FC	FC	-	-
01N04W-23R002S	40th St on levee	U.S. Geological Survey/SBVAWD	1.268,00	FC	FC	-	1.268,00	FC	FC	-	-
01N04W-23R003S	40th St on levee	U.S. Geological Survey/SBVAWD	1.268,00	FC	FC	-	1.268,00	FC	FC	-	-
01N04W-24C002S	Marshall & Mountain	U.S. Geological Survey/SBVAWD	1.246,00	FC	FC	-	1.246,00	FC	FC	-	-
01S02W-30C001S	Cohor/Opal	U.S. Geological Survey/SBVAWD	1.649,00	FC	FC	-	1.649,00	FC	FC	-	-
01S03W-02P001S	N. of Greenspot	U.S. Geological Survey/SBVAWD	1.369,35	FC	FC	-	1.369,35	FC	FC	-	-
01S03W-02P002S	Greenspot Rd.	U.S. Geological Survey/SBVAWD	1.345,30	FC	FC	-	1.345,30	FC	FC	-	-
01S03W-03R001S	5th & Church	U.S. Geological Survey/SBVAWD	1.302,00	FC	FC	-	1.302,00	FC	FC	-	-
01S03W-10D002S	E. of Orange St.	U.S. Geological Survey/SBVAWD	1.308,00	FC	FC	-	1.308,00	FC	FC	-	-
01S04W-19E001S	Meridian/Valley	U.S. Geological Survey/SBVAWD	1.038,90	FC	FC	-	1.038,90	FC	FC	-	-
02N05W-33J004S	Calton Wash	U.S. Geological Survey/SBVAWD	2.010,00	FC	FC	-	2.010,00	FC	FC	-	-
01N03W-29N001S	Near Pullon State Hospital	U.S. Geological Survey/SBVAWD	1.291,00	326.50	964,50	04/19/07	1.291,00	-	-	-	-
01N03W-33C001S	Near Highland & Palm	U.S. Geological Survey/SBVAWD	1.424,00	440.5	983,50	10/31/07	1.424,00	-	-	-	-
01N03W-34L001S	NE of Boulder/Baseline	U.S. Geological Survey/SBVAWD	1.346,00	306.53	1,039,47	04/16/07	1.346,00	445.90	900,10	10/23/08	-
01N04W-08M001S	Cal State	U.S. Geological Survey/SBVAWD	1.530,00	162.18	1,367,82	10/29/07	1.530,00	-	-	-	-
01N04W-08P001S	Cal State	U.S. Geological Survey/SBVAWD	1.476,66	173.52	1,303,14	10/29/07	1.476,66	146.17	1,330,49	10/21/08	-27.3
01N04W-21B002S	Kendall	U.S. Geological Survey/SBVAWD	1.322,40	156.37	1,166,03	10/29/07	1.322,40	152.26	1,170,14	10/21/08	-4.1
01N04W-23Q002S	40th St on levee	U.S. Geological Survey/SBVAWD	1.345,03	-	-	-	1.345,03	-	-	-	-
01N04W-23Q003S	40th St on levee	U.S. Geological Survey/SBVAWD	1.284,39	-	-	-	1.284,39	-	-	-	-
01N04W-23Q004S	40th St on levee	U.S. Geological Survey/SBVAWD	1.284,39	104.80	1,179,59	10/31/07	1.284,39	-	-	-	-
01N04W-23R004S	40th St on levee	U.S. Geological Survey/SBVAWD	1.268,00	-	-	-	1.268,00	105.29	1,163,71	10/23/08	-
01N04W-23R005S	40th St on levee	U.S. Geological Survey/SBVAWD	1.268,00	-	-	-	1.268,00	-	-	-	-
01N04W-27B001S	Mt. View Ave.	U.S. Geological Survey/SBVAWD	1.233,00	-	-	-	1.233,00	126.41	1,119,59	10/23/05	-
01N04W-31A001S	Highland Ave.	U.S. Geological Survey/SBVAWD	1.259,00	292.59	966,41	04/17/07	1.259,00	-	-	-	-
01N04W-31P003S	Baseline/Lassen	U.S. Geological Survey/SBVAWD	1.210,00	327.50	882,50	10/29/07	1.210,00	304.40	905,60	10/21/08	-23.1
01N04W-35L001S	16th & Crestview	U.S. Geological Survey/SBVAWD	1.128,00	253.72	874,28	10/31/07	1.128,00	372.72	755,28	10/21/08	119.0
01S02W-07Q001S	Cone Camp	U.S. Geological Survey/SBVAWD	1.638,90	262.32	1,376,58	10/26/07	1.638,90	-	-	-	-
01S02W-07Q002S	Cone Camp	U.S. Geological Survey/SBVAWD	1.638,90	257.51	1,381,39	10/26/07	1.638,90	267.35	1,371,55	11/04/08	9.8

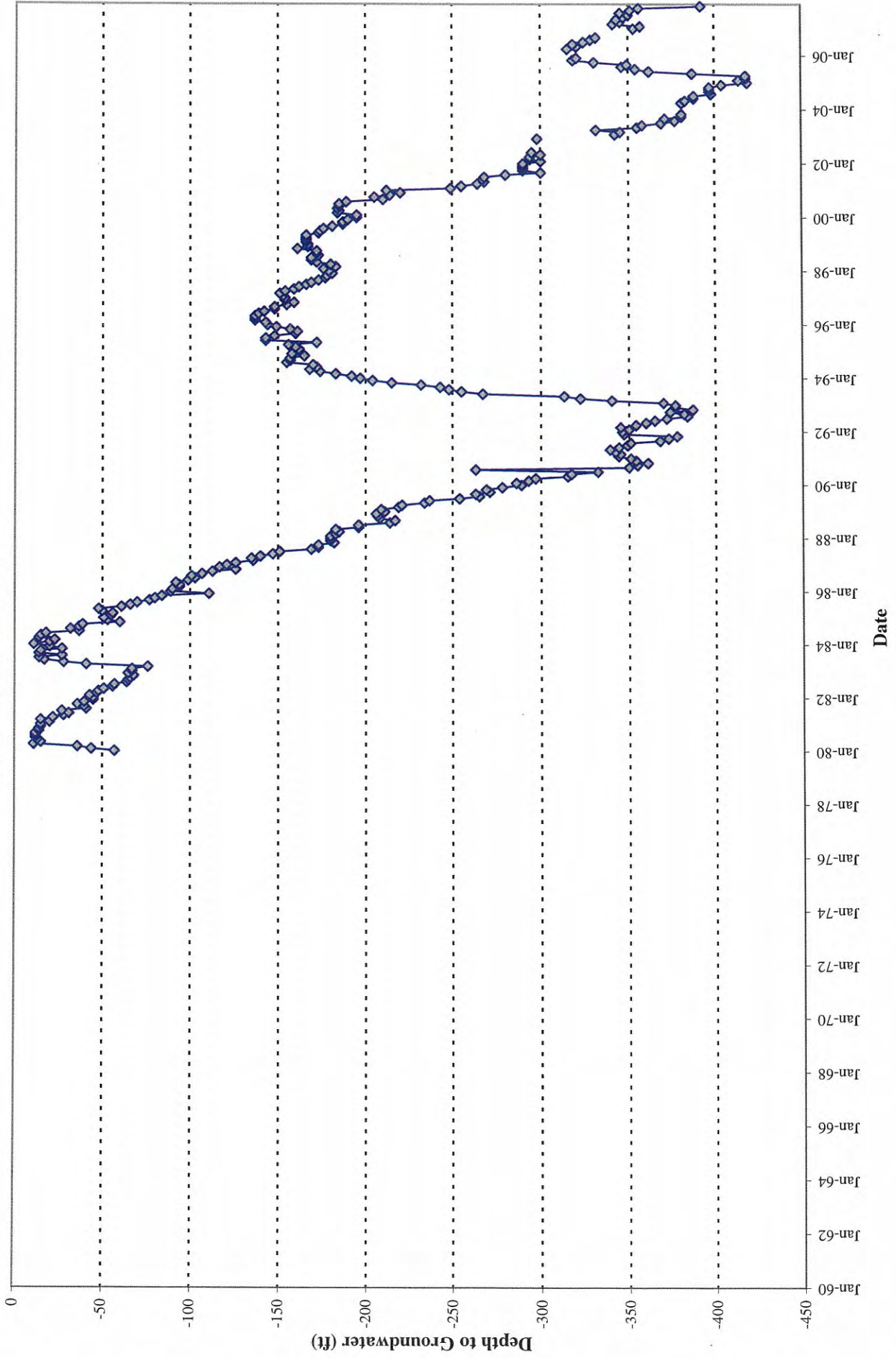
Water Level Elevations for Bunker Hill Basin

(Fall 2007 and Fall 2008)

State Well Number	Well Name	Owner or Measuring Agency	2007				2008				Difference Fall 2007 to Fall 2008
			Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft, AMSL)	Date Measured	
01S04W-14E012S	Mill Center 2	U.S. Geological Survey/SBVMWD	1,020.00	91.23	928.77	10/1/07	1,020.00	113.58	906.42	12/09/08	22.4
01S04W-14E013S	Mill Center 2	U.S. Geological Survey/SBVMWD	1,020.00	46.68	973.32	10/1/07	1,020.00	91.03	928.97	12/09/08	44.4
01S04W-15F006S	Orange Show	U.S. Geological Survey/SBVMWD	990.00	63.12	926.88	09/12/07	990.00	46.30	943.70	02/09/08	-23.4
01S04W-15F007S	Orange Show	U.S. Geological Survey/SBVMWD	990.00	51.46	938.54	09/12/07	990.00	71.67	918.33	12/09/08	14.5
01S04W-15F008S	W. of Waterman	U.S. Geological Survey/SBVMWD	1,002.00	94.26	907.74	10/20/07	1,002.00		1,002.00	12/09/08	20.2
01S04W-22B003S	Treatment Plant	U.S. Geological Survey/SBVMWD	995.00	82.07	912.93	10/1/07	995.00	101.16	893.84	10/29/08	19.1
01S04W-22B010S	Treatment Plant	U.S. Geological Survey/SBVMWD	995.00	79.61	915.39	10/1/07	995.00	90.66	904.34	12/09/08	11.1
01S04W-22B011S	Treatment Plant	U.S. Geological Survey/SBVMWD	995.00	40.53	954.47	10/1/07	995.00	80.74	914.26	12/09/08	40.2
01S04W-22D002S	Orange Show & E Street	U.S. Geological Survey/SBVMWD	977.42	81.33	896.09	10/26/07	977.42	40.49	936.93	11/13/08	-40.8
01S04W-22D004S	Orange Show & E Street	U.S. Geological Survey/SBVMWD	977.44	79.91	897.53	10/26/07	977.44	103.03	874.41	11/13/08	23.1
01S04W-22D005S	Orange Show & E Street	U.S. Geological Survey/SBVMWD	977.35	76.82	900.53	10/26/07	977.35	90.35	887.00	11/13/08	13.5
01S04W-22D006S	Orange Show & E Street	U.S. Geological Survey/SBVMWD	977.49	70.96	906.53	10/26/07	977.49	97.60	879.89	11/13/08	26.6
01S04W-22D007S	Orange Show & E Street	U.S. Geological Survey/SBVMWD	977.47	45.00	932.47	10/26/07	977.47	86.13	891.34	11/13/08	41.1
01S04W-22J001S	Commerce Center West	U.S. Geological Survey/SBVMWD	997.70	102.22	895.48	10/26/07	997.70	45.02	952.68	11/13/08	-57.2
01S04W-22J002S	Commerce Center West	U.S. Geological Survey/SBVMWD	997.70	113.06	884.64	10/26/07	997.70	110.39	887.31	11/13/08	-2.7
01S04W-22J003S	Commerce Center West	U.S. Geological Survey/SBVMWD	997.80	96.22	901.58	10/26/07	997.80	117.92	879.88	11/13/08	21.7
01S04W-22J004S	Commerce Center West	U.S. Geological Survey/SBVMWD	997.80	34.02	963.78	10/26/07	997.80	105.21	892.59	11/13/08	71.2
01S04W-22J005S	Commerce Center West	U.S. Geological Survey/SBVMWD	1,010.00	95.80	914.20	10/26/07	1,010.00	35.70	974.30	11/13/08	-60.1
02N05W-33K001S	Glenn Helen	U.S. Geological Survey/SBVMWD	2,020.00	83.48	1,936.52	10/29/07	2,020.00	333.72	1,686.28	12/01/08	230.2
01S04W-06H001S	#13 Raynor 4	West Valley Water District (was WSBCWD)	1,162.00	FC	FC	-	1,162.00	FC	FC	-	-
01S04W-06H002S	#20 New Raynor 4	West Valley Water District (was WSBCWD)	1,159.80	224	935.80	11/01/07	1,159.80	181	978.80	12/08/08	-43.0
01S04W-05E005S	#15 Raynor 5	West Valley Water District (was WSBCWD)	1,170.00	223	947.00	11/01/07	1,170.00	313	852.00	12/01/08	50.0
01N05W-23P002S	#24	West Valley Water District (was WSBCWD)	1,450.00	-	-	-	1,450.00	373	1,077.00	12/01/08	-
01N05W-26A003S	#04 Lower 5	West Valley Water District (was WSBCWD)	1,398.00	-	-	-	1,398.00	-	-	-	-
01N05W-36J003S	#08 Lower 1	West Valley Water District (was WSBCWD)	1,262.40	-	-	-	1,262.40	-	-	-	-
01N05W-23Q001S	#02 Lower 7	West Valley Water District (was WSBCWD)	1,430.00	133	1,297.00	11/01/07	1,430.00	159	1,271.00	12/20/08	26.0
01N05W-23P004S	#01 Upper 4	West Valley Water District (was WSBCWD)	1,470.00	-	-	-	1,470.00	-	-	-	-
01N05W-23E001S	#05A, Lower 6	West Valley Water District (was WSBCWD)	1,383.40	165	1,218.40	11/01/07	1,383.40	214	1,169.40	12/01/08	49.0
01N05W-36H004S	#07 Lower 7	West Valley Water District (was WSBCWD)	1,273.80	-	-	-	1,273.80	190	-	-	-
01N05W-36H005S	#56 Lower	West Valley Water District (was WSBCWD)	1,270.00	390	880.00	11/01/07	1,270.00	236	1,044.00	12/01/08	-164.0
01N05W-26A006S	#04A	West Valley Water District (was WSBCWD)	1,400	161	1,239.00	11/01/07	1,400	166	1,234.00	12/01/08	5.0

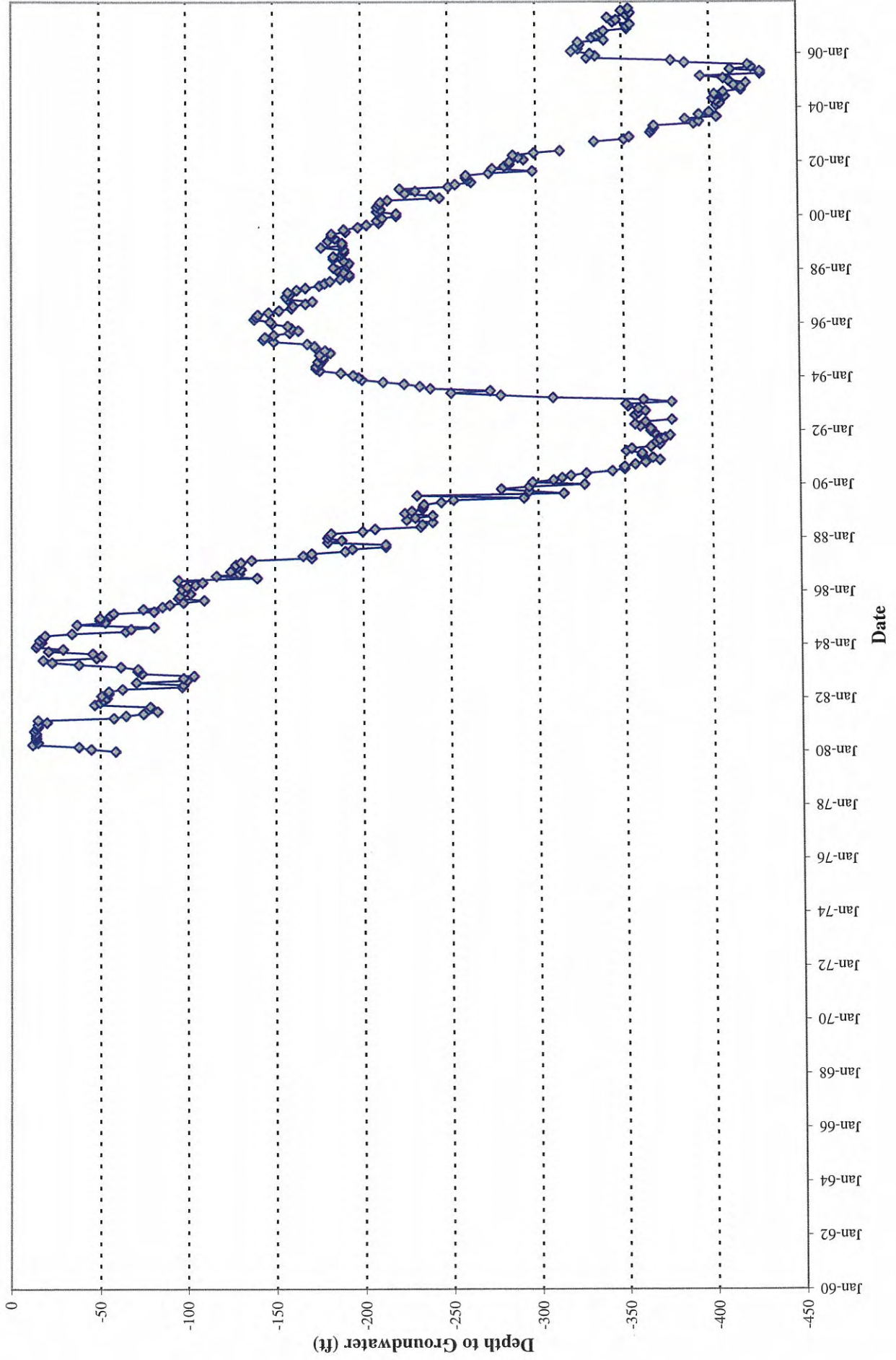
West Valley Water District Well 8

SWN IN5W-36H06S



City of Riverside - Gage Canal Well 26-1

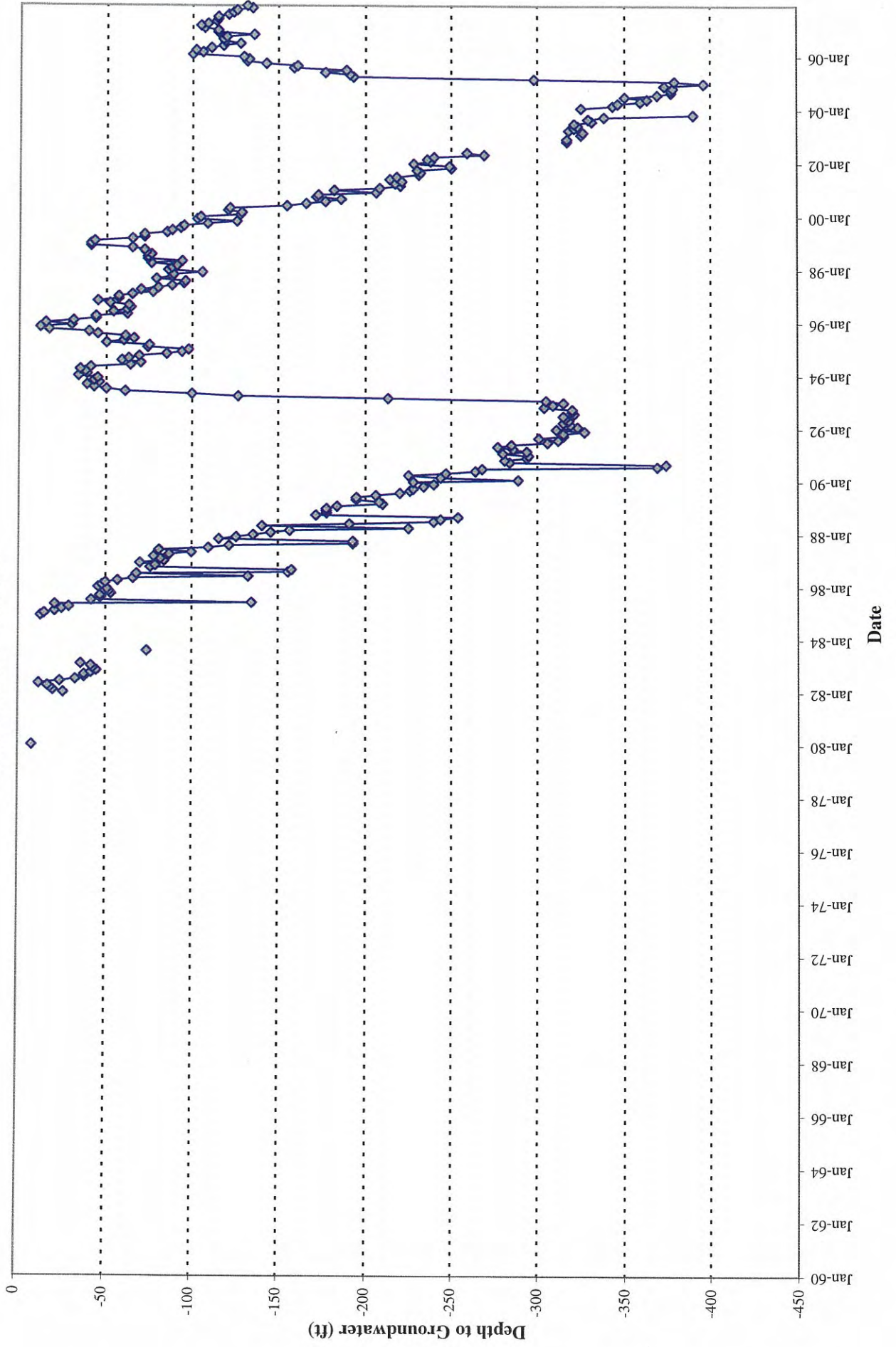
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City of Riverside - Gage Canal

Well 26-1

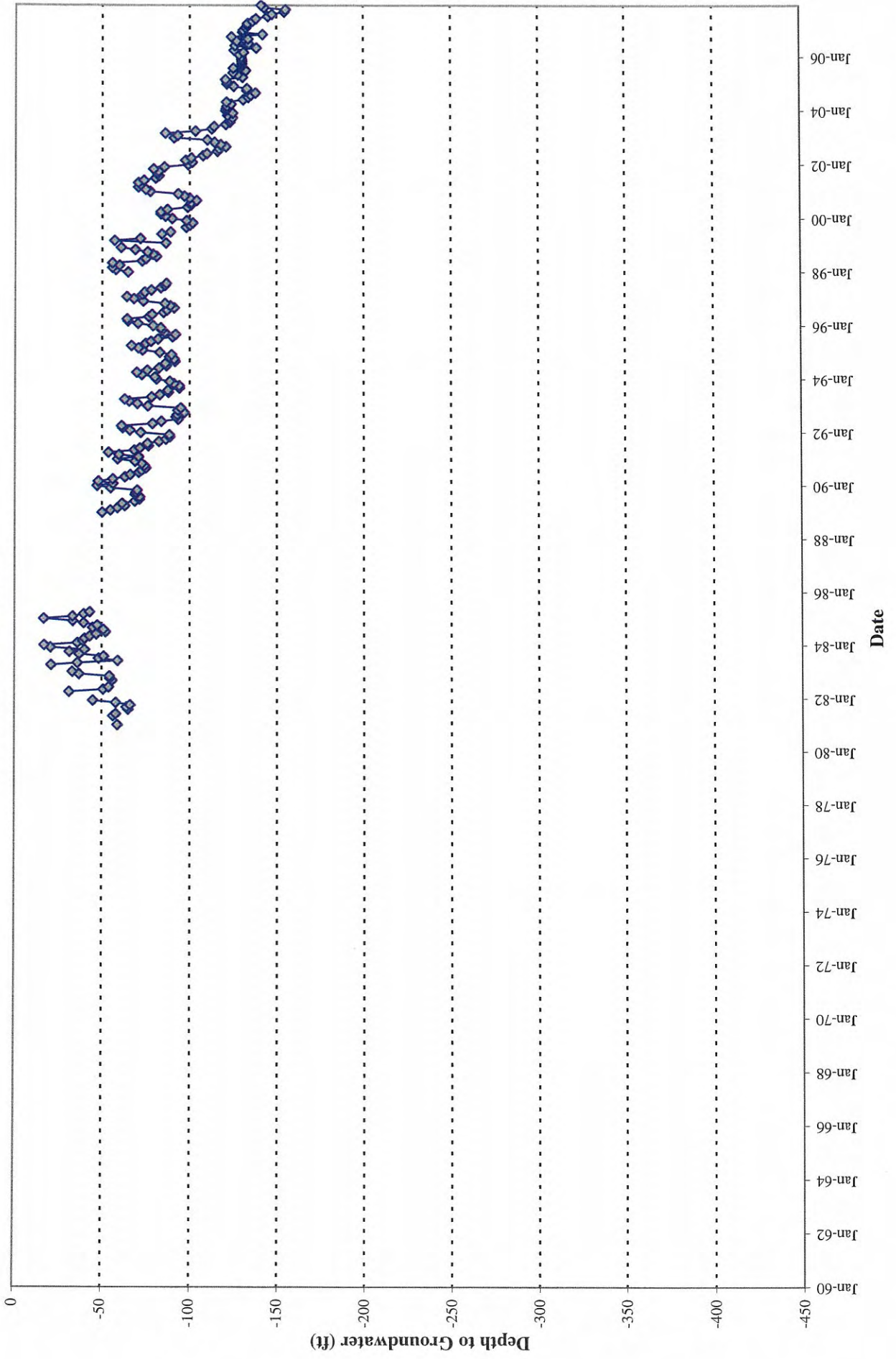
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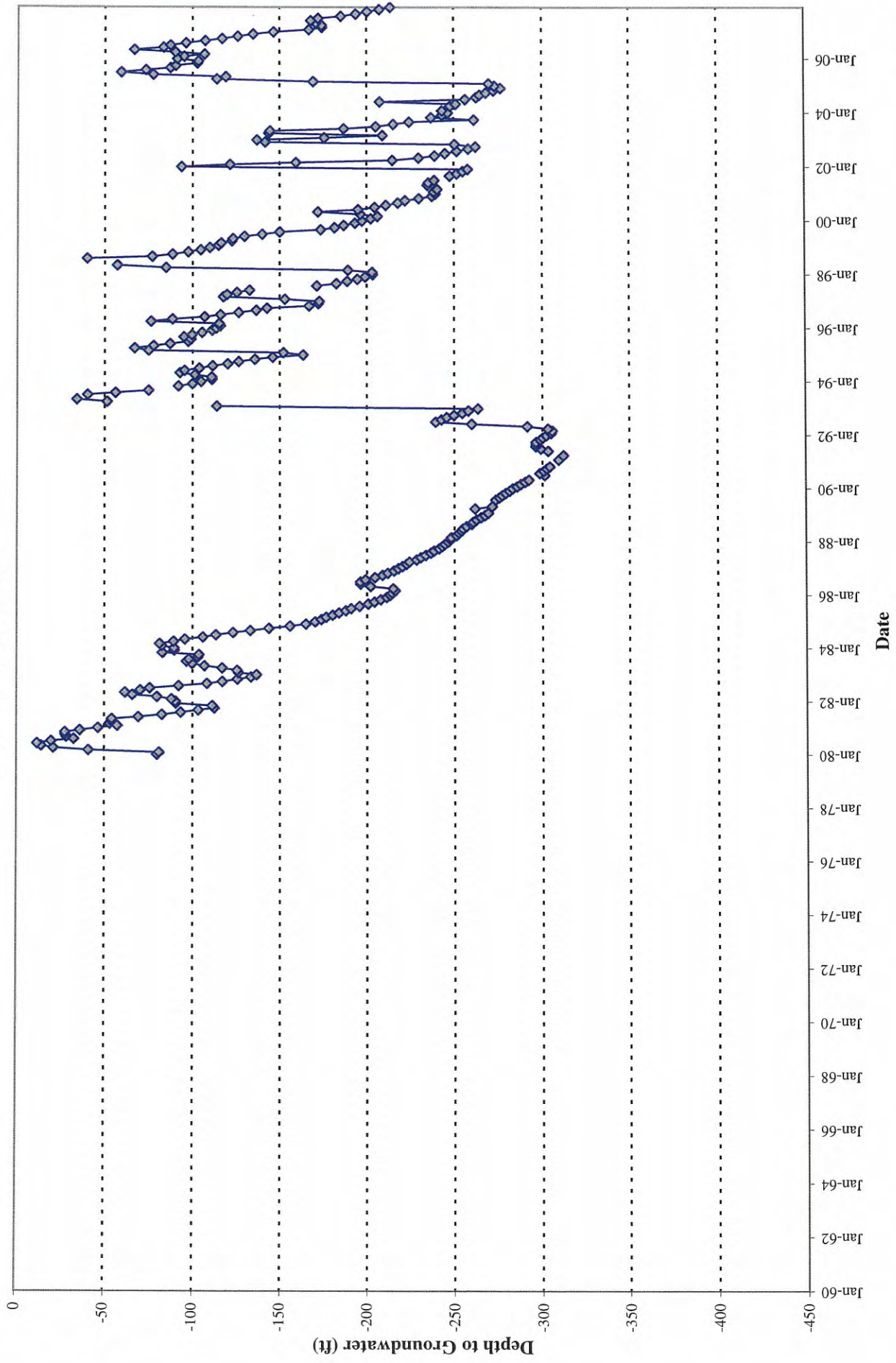
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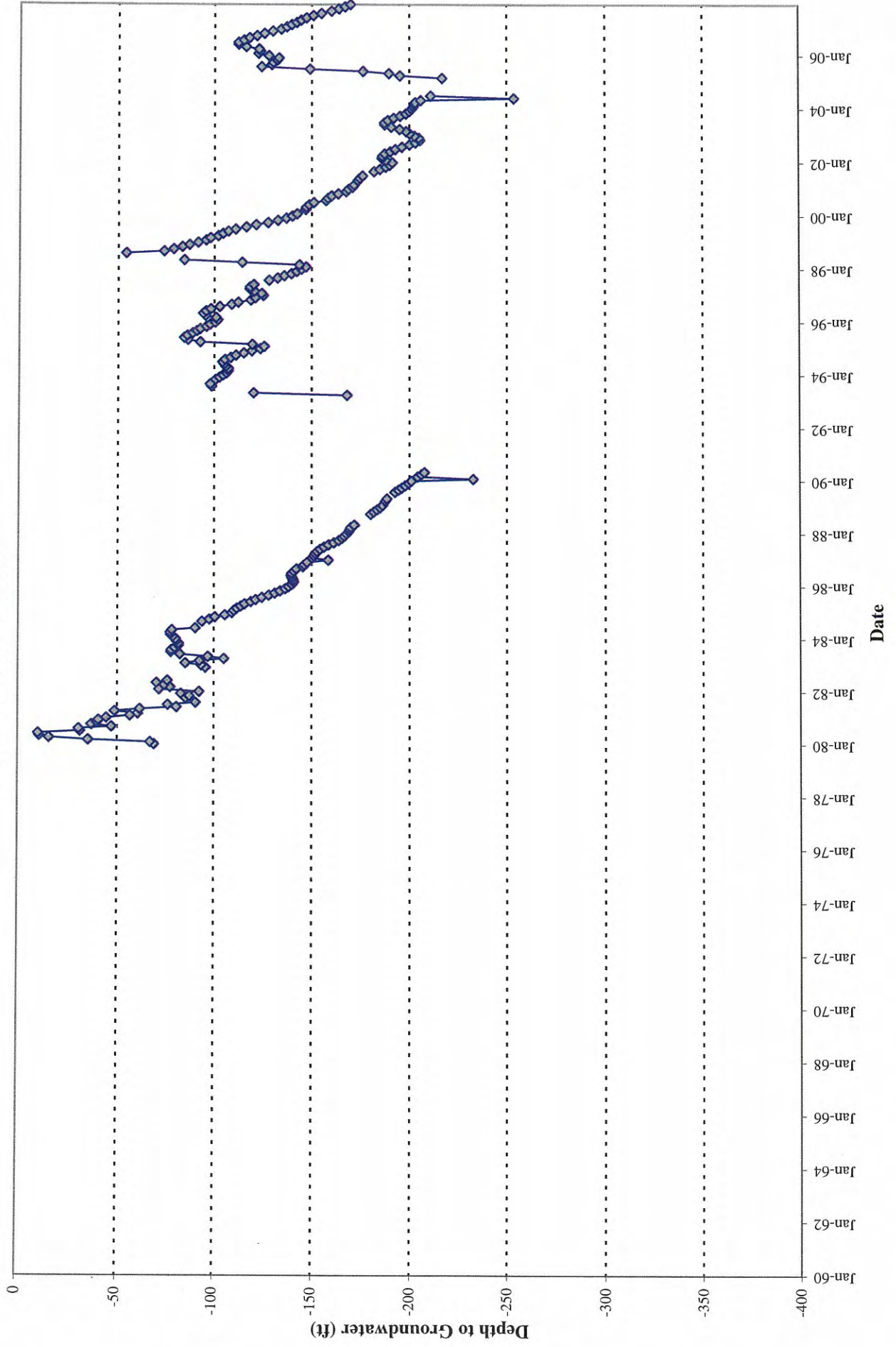
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City of Riverside - Gage Canal Well 26-1

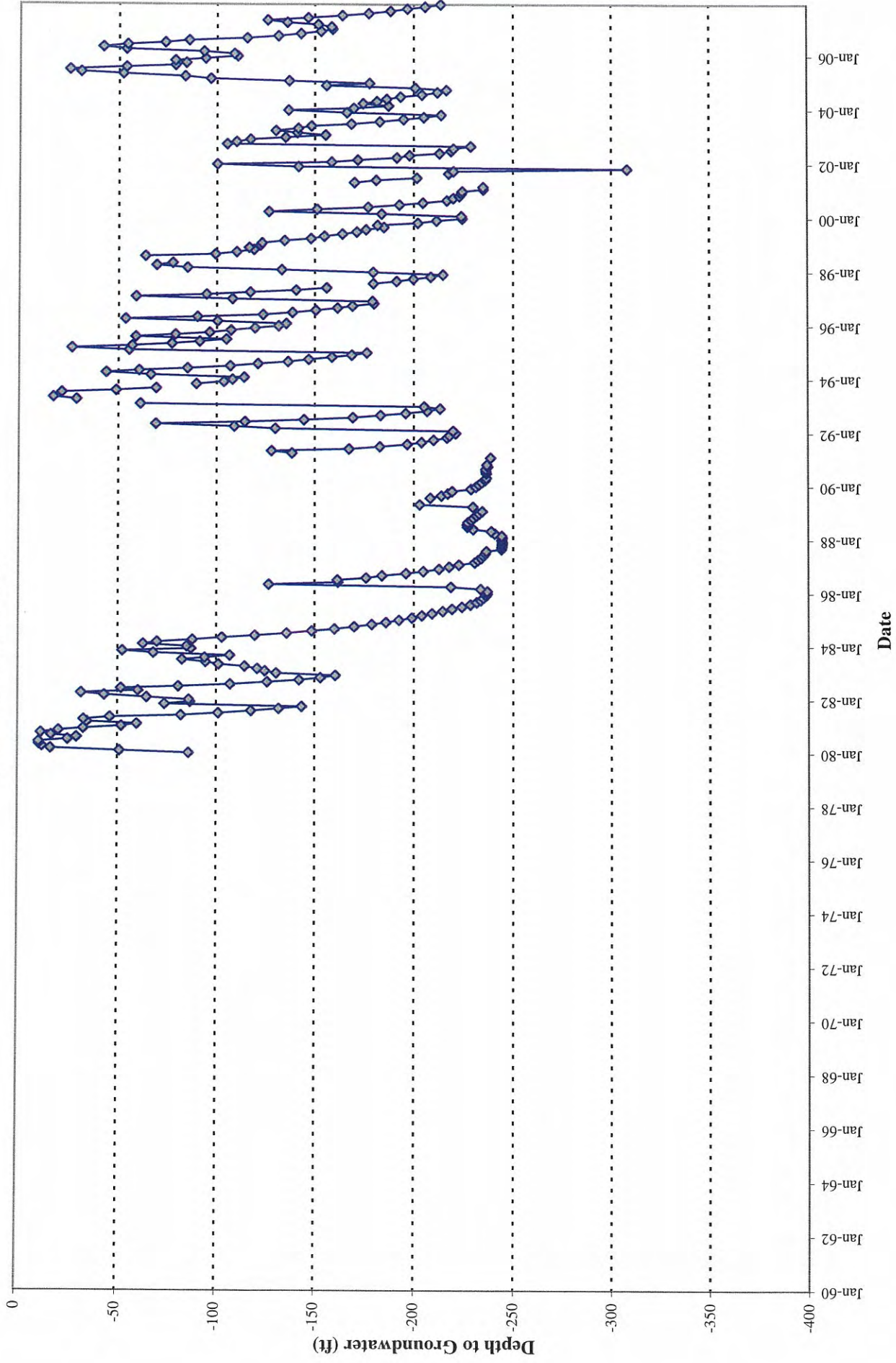
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City of Riverside - Gage Canal

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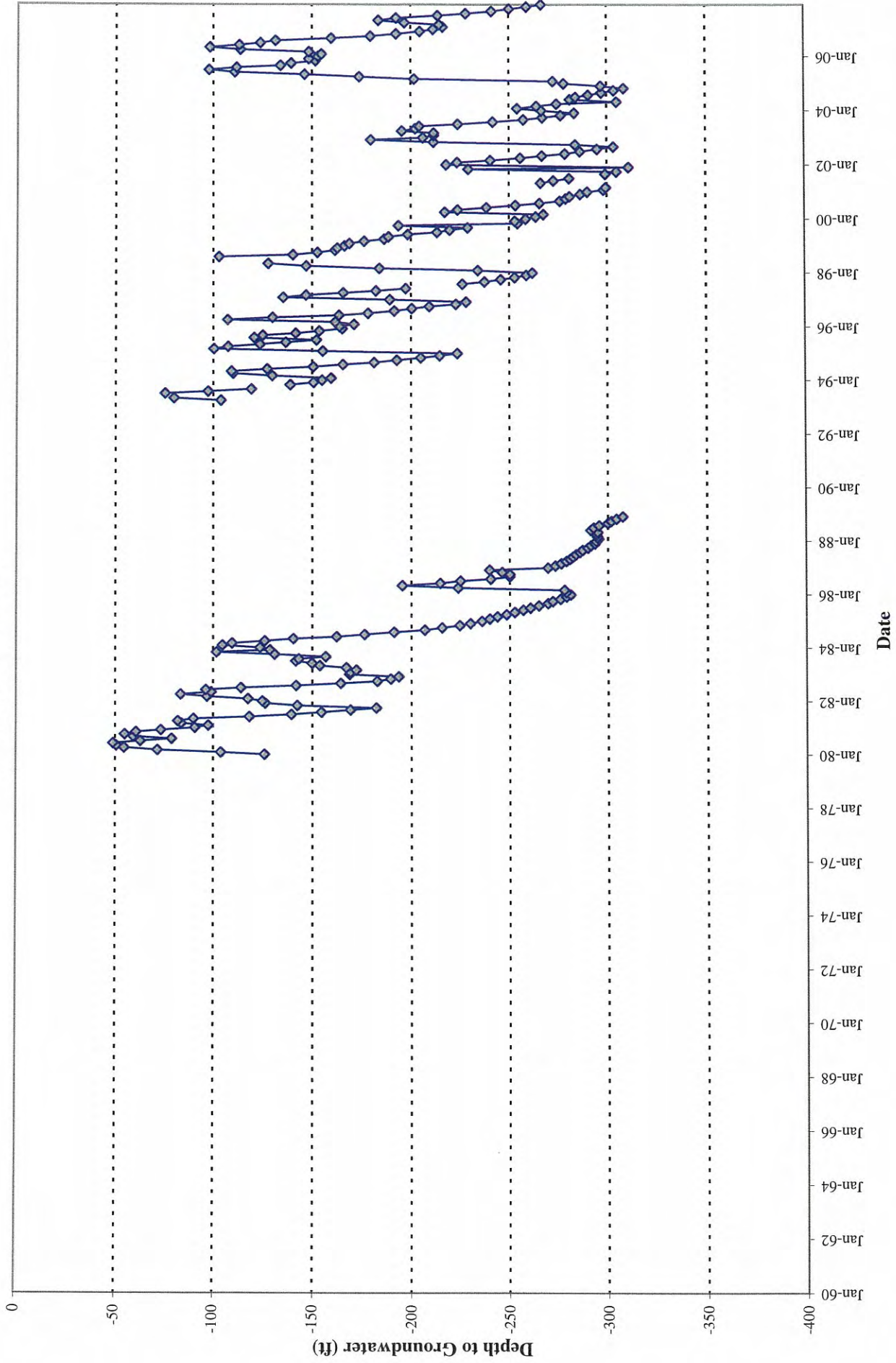
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City of Riverside - Gage Canal

Well 26-1

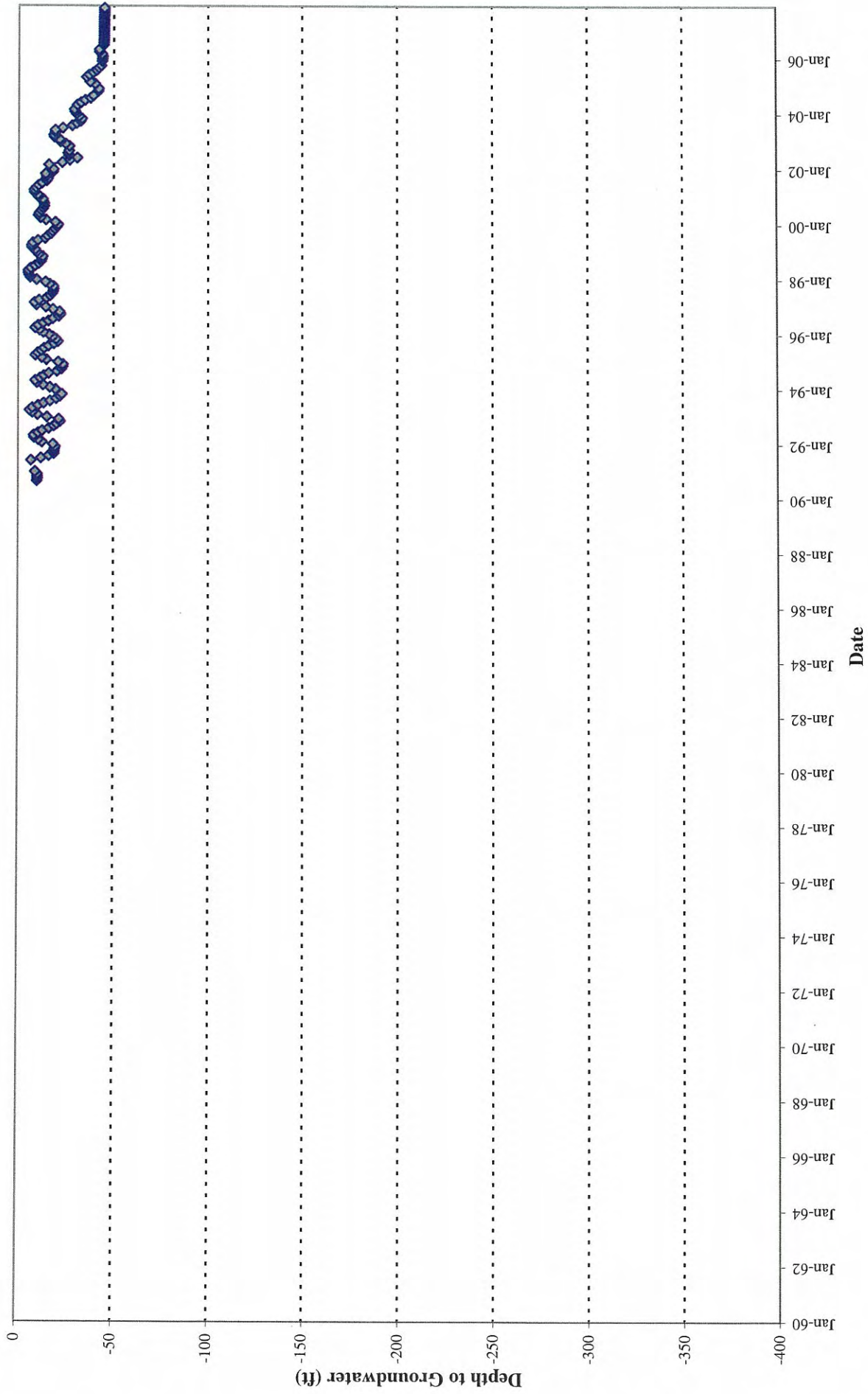
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City of Riverside - Gage Canal

Well 26-1

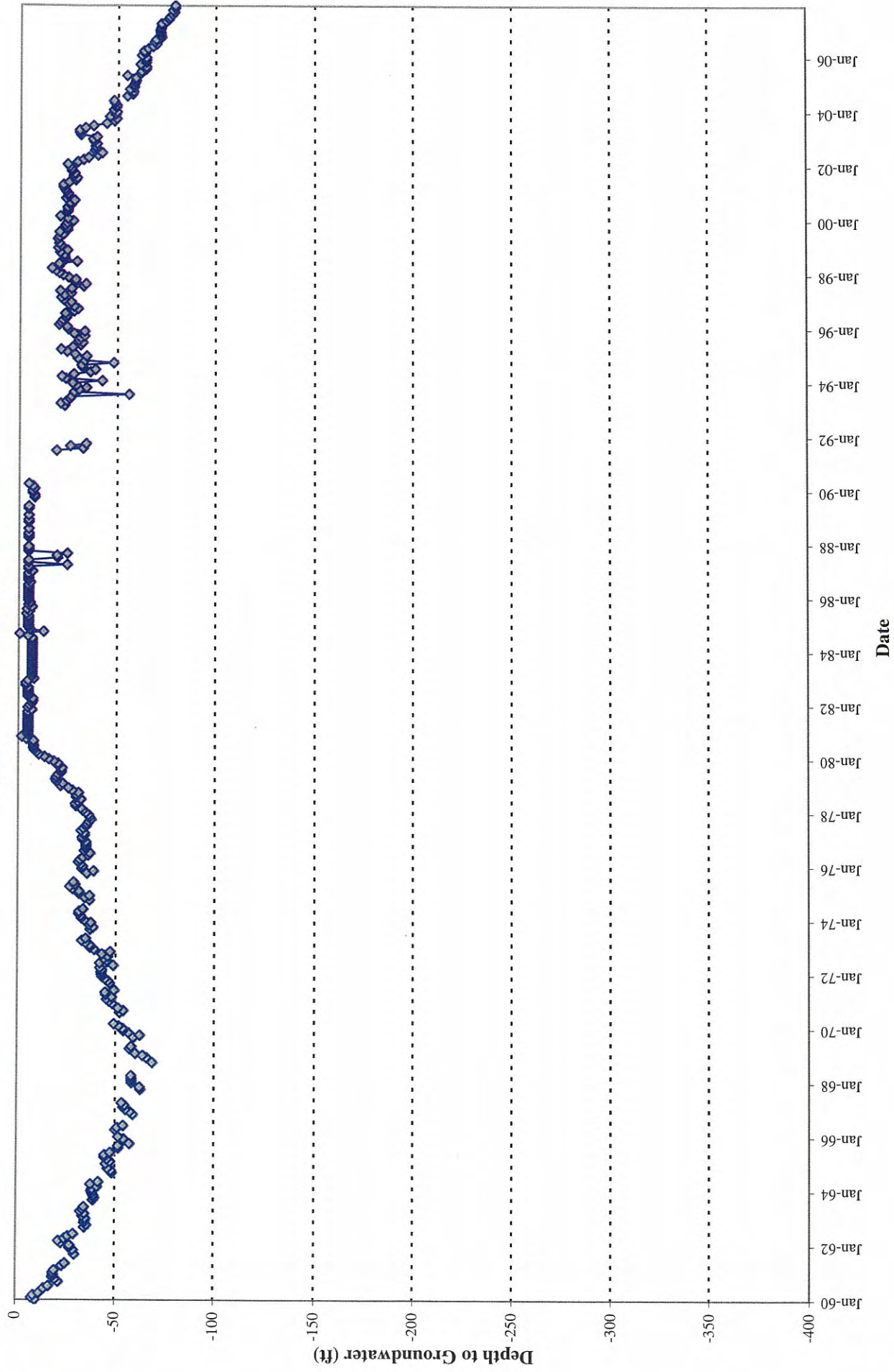
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City of Riverside - Gage Canal

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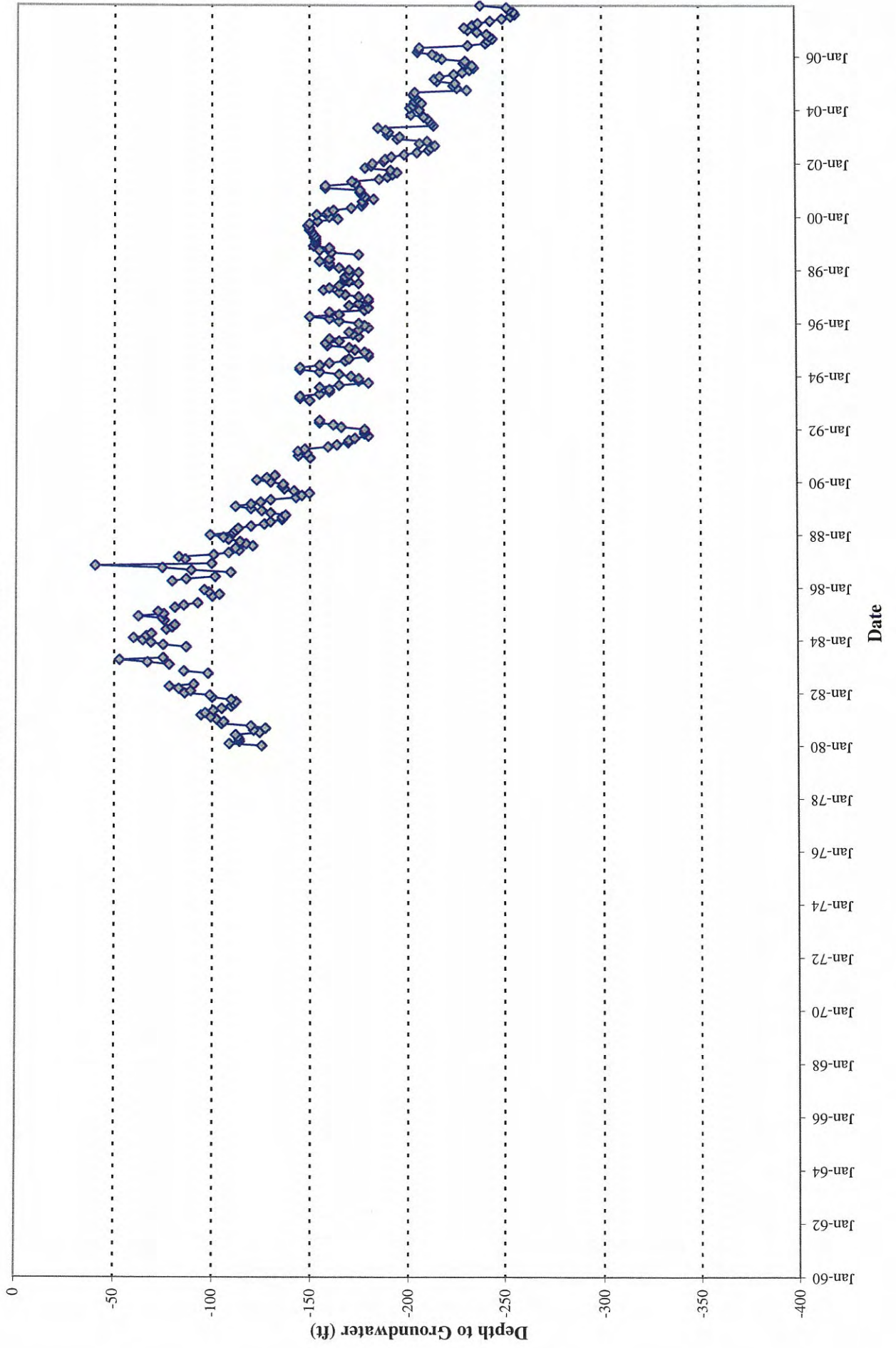
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City of Riverside - Gage Canal

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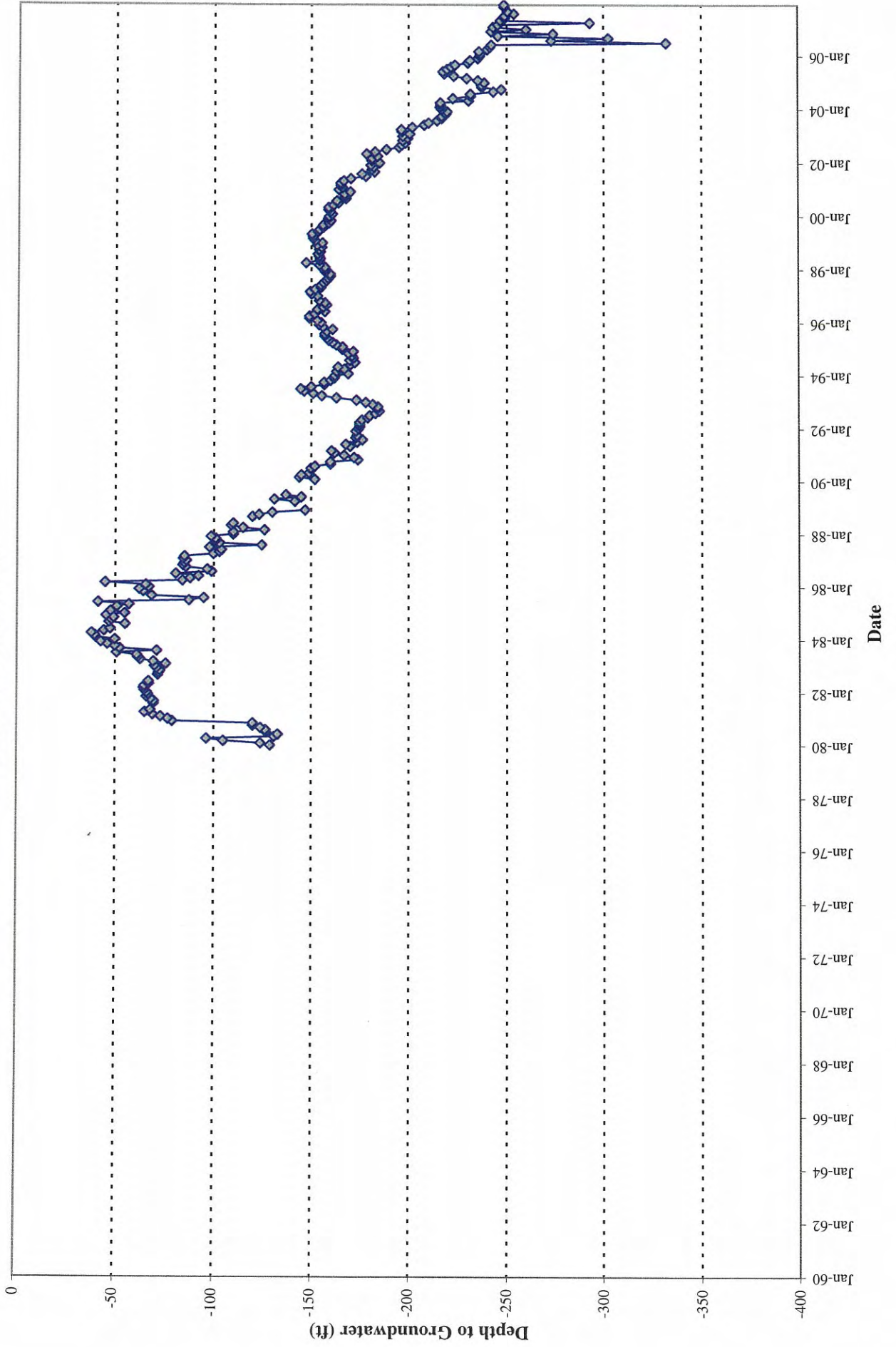
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City of Riverside - Gage Canal

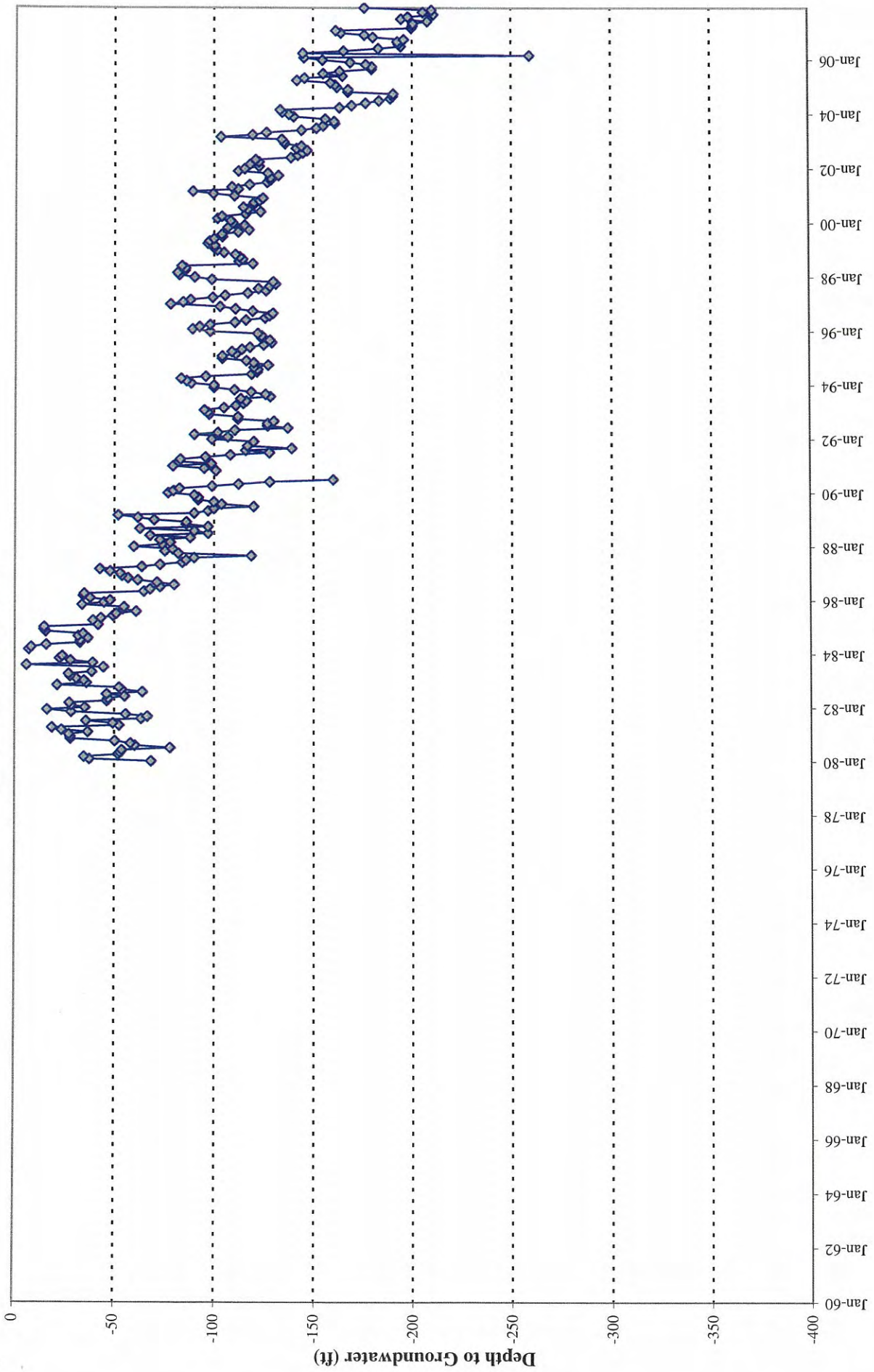
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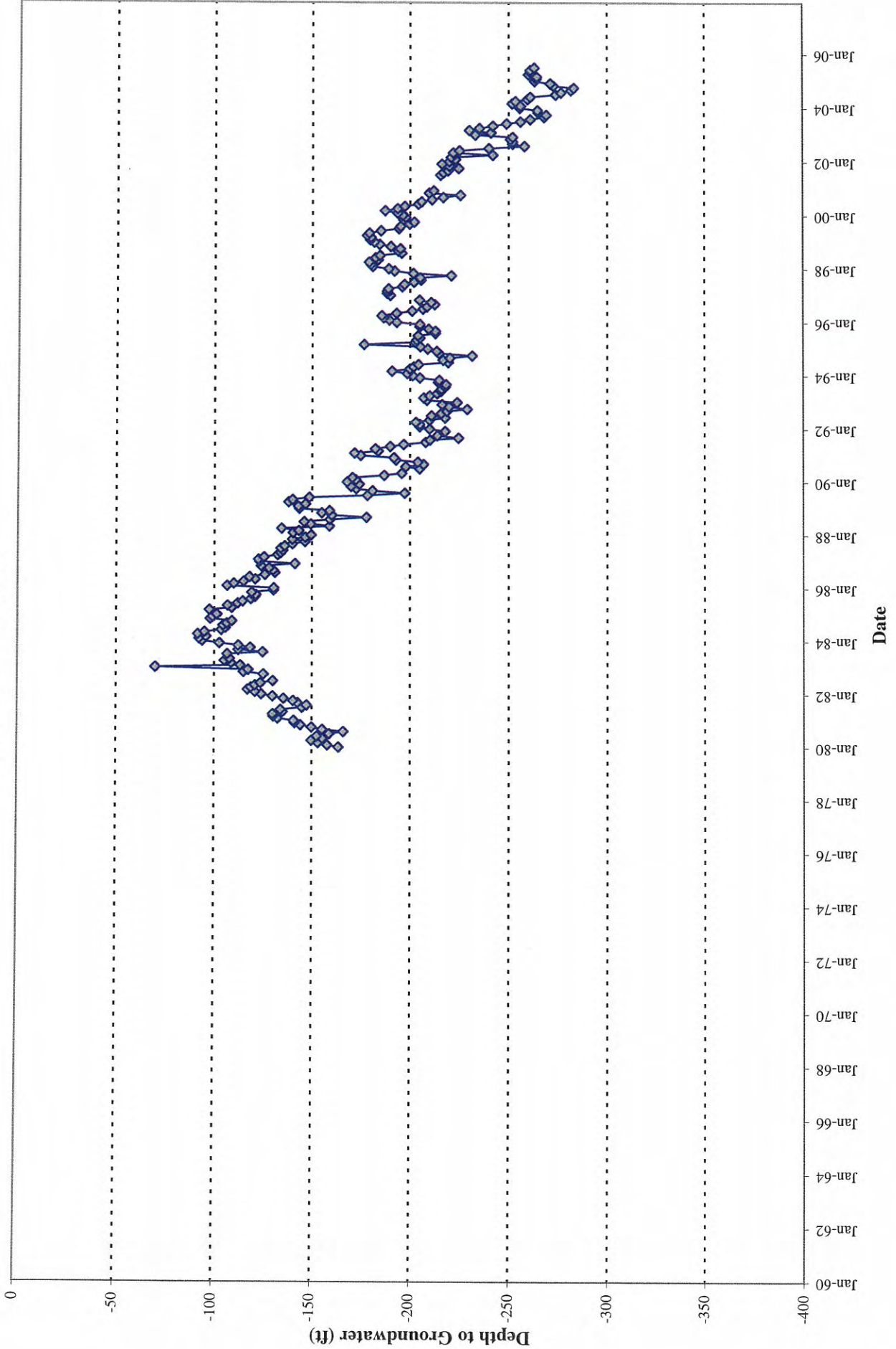


City of Riverside - Gage Canal Well 26-1

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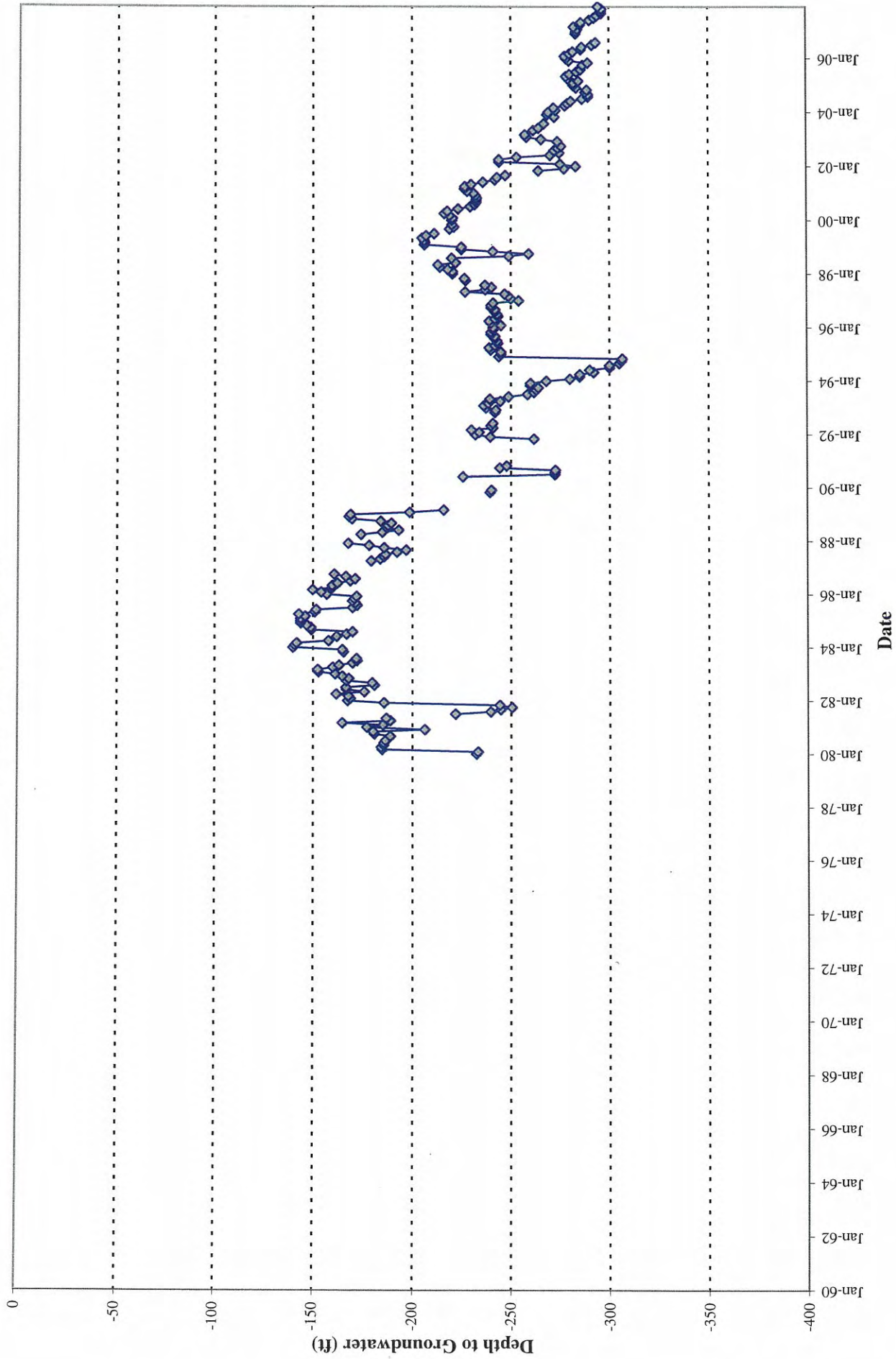
**City of Riverside - Gage Canal
Well 26-1
SWN 1S4W-23A02S**



City of Riverside - Gage Canal

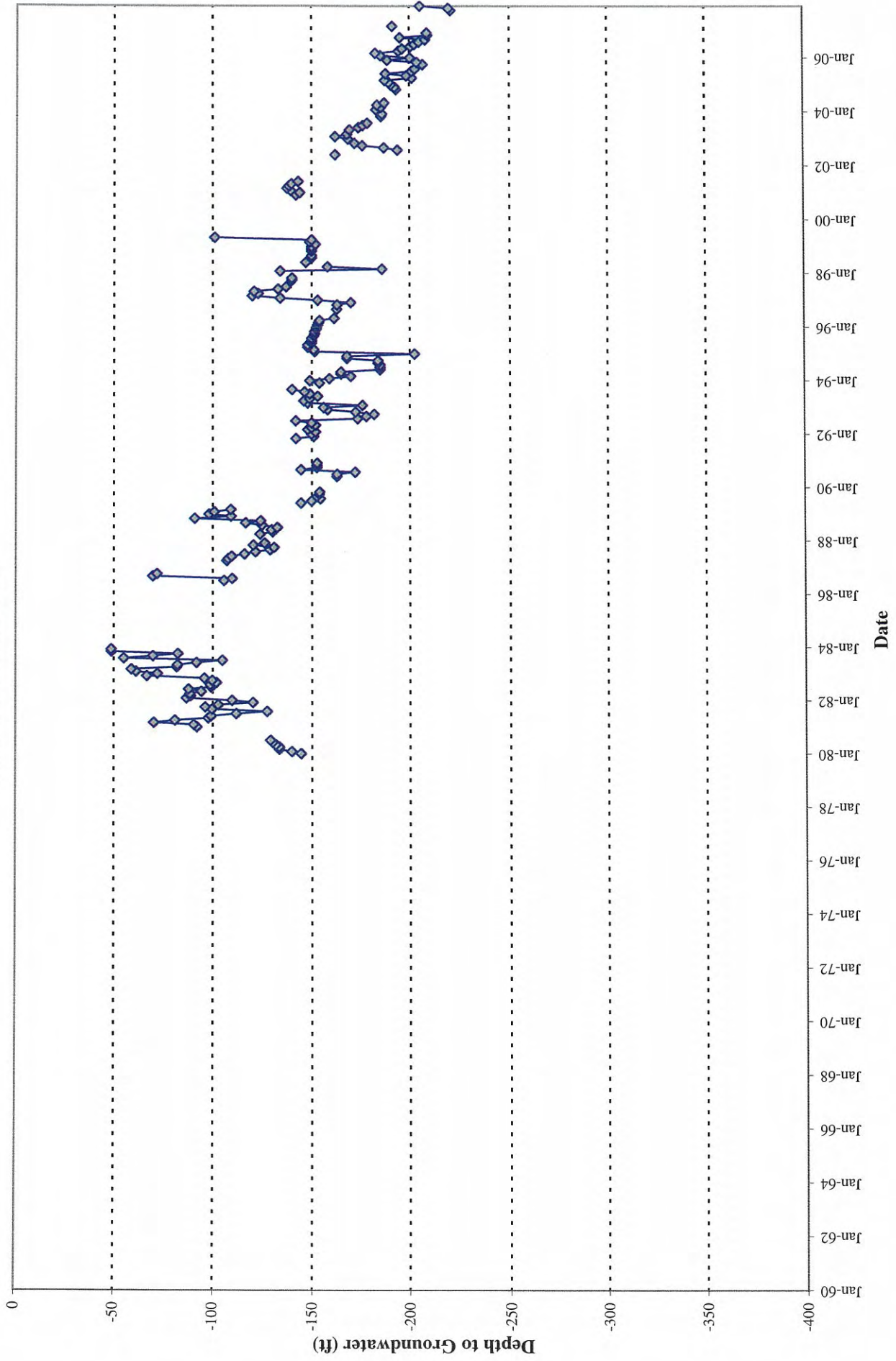
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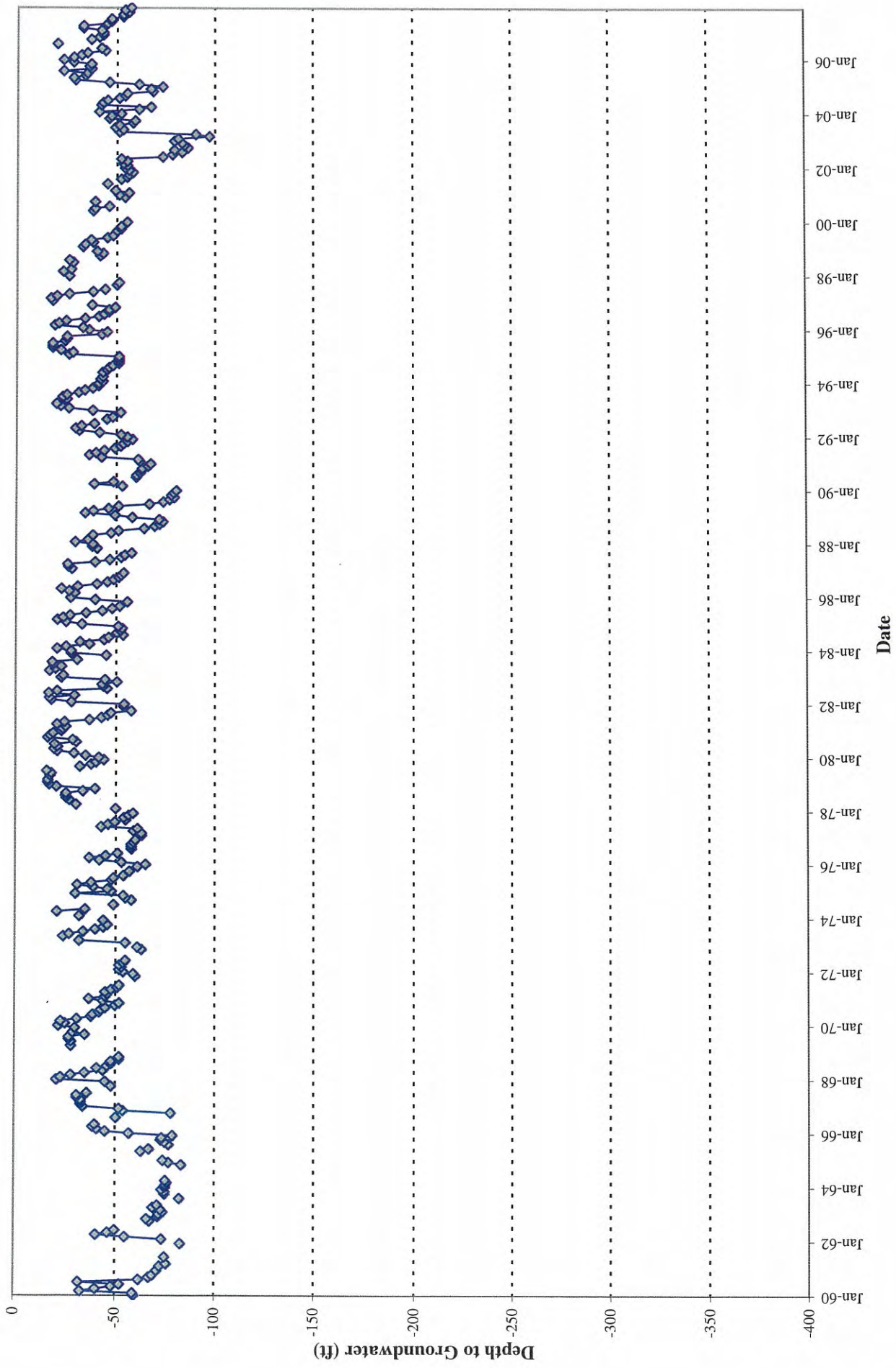
City of Riverside - Gage Canal Well 26-1

SWN 1S4W-23A02S



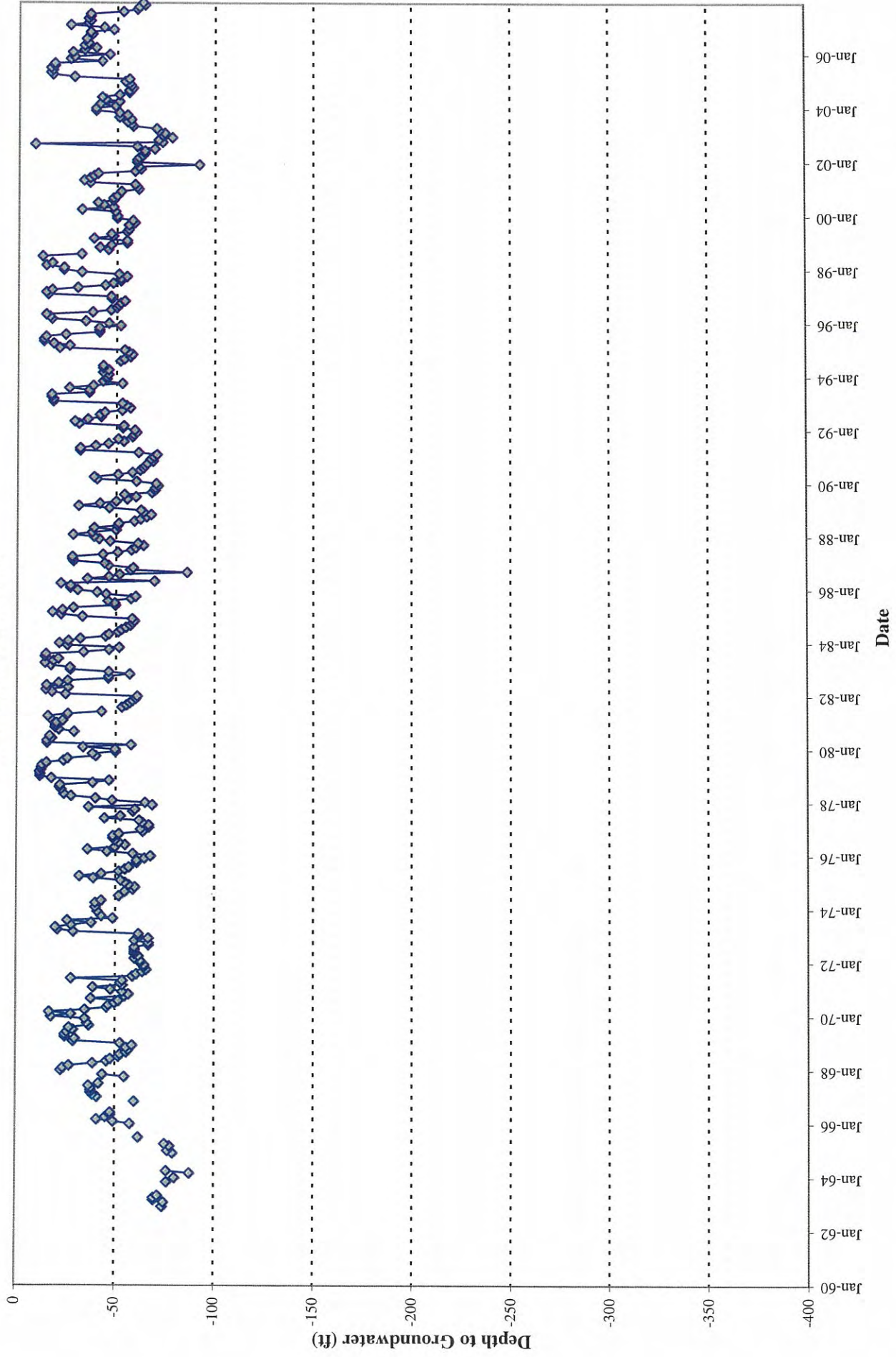
City of Riverside - Gage Canal Well 26-1

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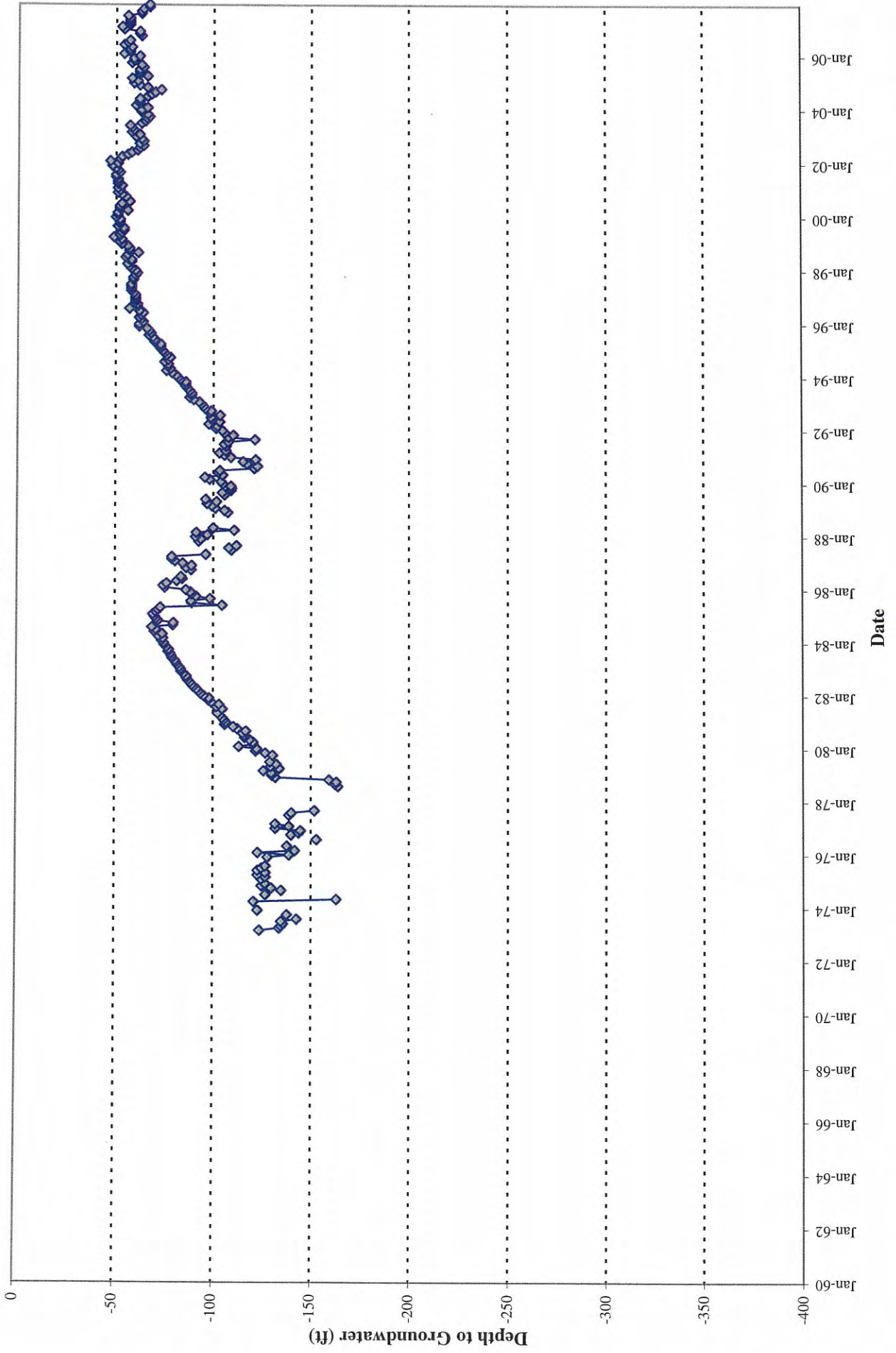


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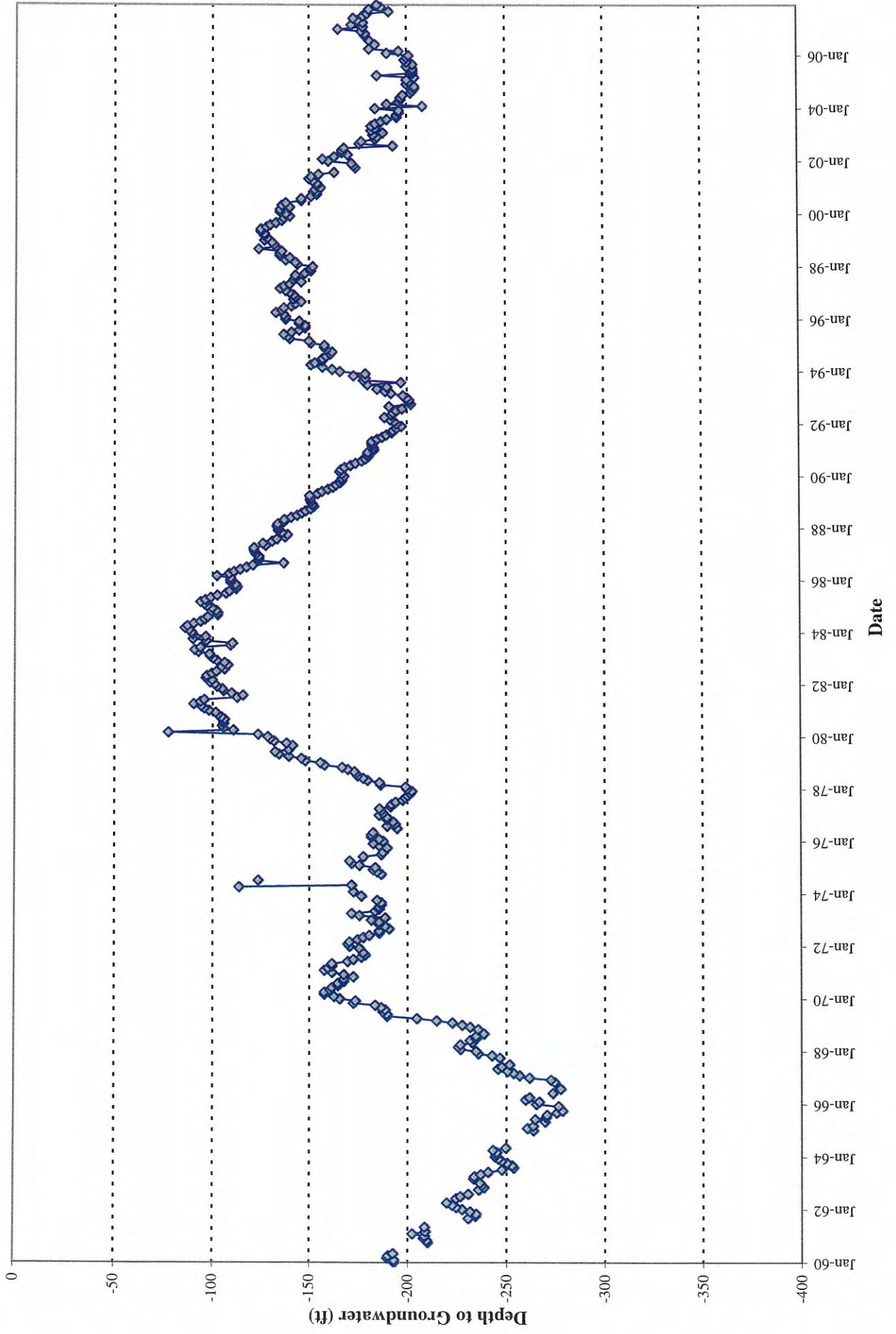
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Well 26-1
SWN 1S4W-23A02S



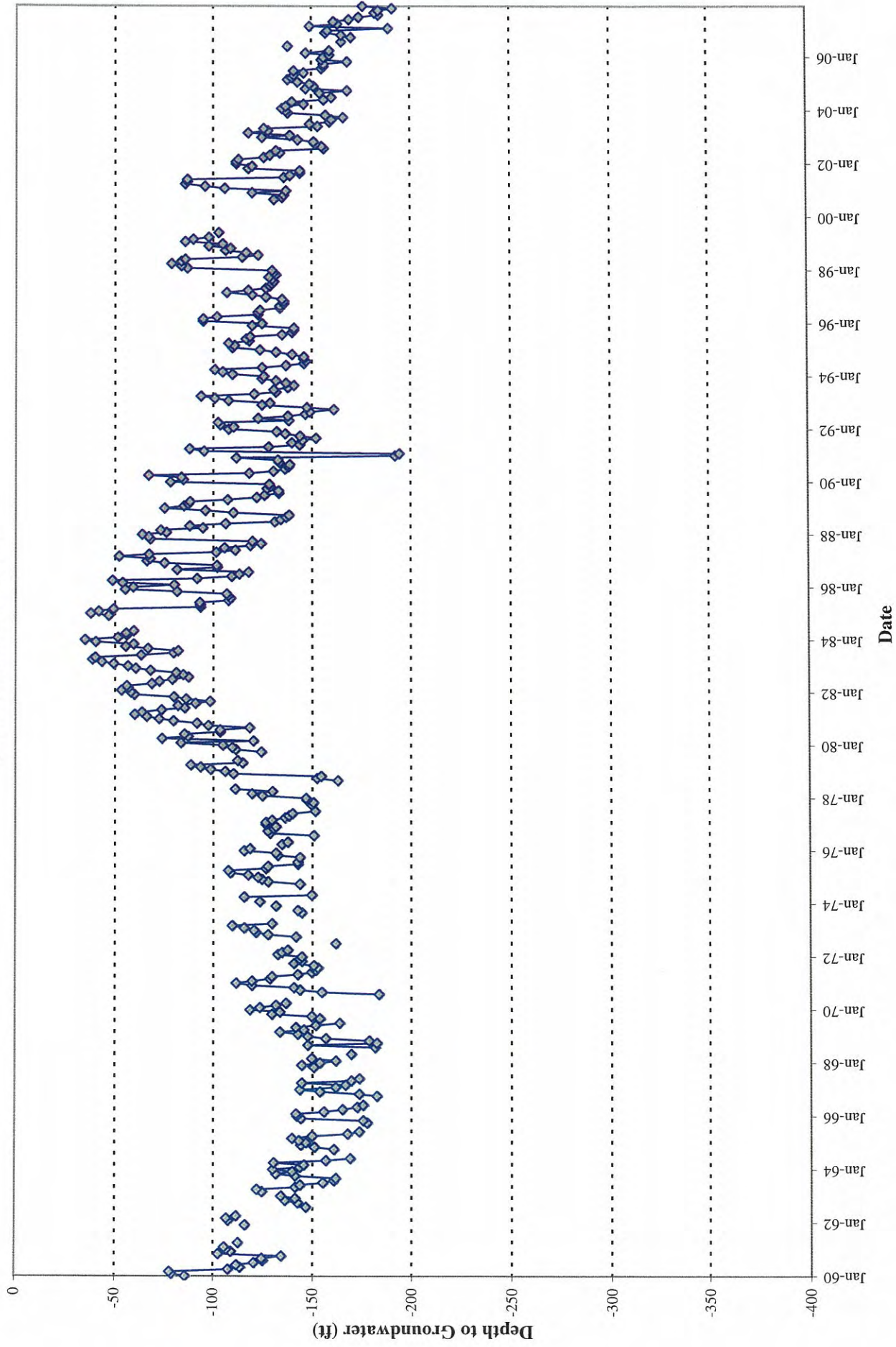
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City of Riverside - Gage Canal

Well 26-1

SWN 1S4W-23A02S



Production Data for the Preceding Water Year
(July 1, 2006 - June 30, 2007)

Owner	Recordation Number	Local Name	Basin	Diversion (acre-ft)	Agricultural Production (acre-ft)	Non-agricultural Production (acre-ft)	Sum of Groundwater Production (acre-ft)	Within SBVWCD Boundary	Notes
Arrowhead County Club	3601925		Bunker Hill		0.0	163.5	163.5	Yes	3
Arroyo Verde Mutual Water Company	3602068		Bunker Hill		FC	FC	FC	Yes	2
Arroyo Verde Mutual Water Company	3602069		Bunker Hill		FC	FC	FC	Yes	2
Baseline Gardens Mutual Water Co.	3600457	1 (Standby)	Bunker Hill		FC	FC	FC	Yes	2
Baseline Gardens Mutual Water Co.	3600458	2	Bunker Hill		0.00	0.00	0.00	Yes	2
Baseline Gardens Mutual Water Co.	3602528	3	Bunker Hill		0.00	0.00	0.00	Yes	2
Bear Valley Mutual Water Company	3600023	Judson 1	Bunker Hill		0.00	0.00	0.00	Yes	2
Bear Valley Mutual Water Company	3601585	San Bernardino Ave. 1	Bunker Hill		0.00	0.00	0.00	Yes	2
Bear Valley Mutual Water Company	3600028	Sar Div - Red Tunnel	Bunker Hill	17,689.00	0.00	0.00	0.00	Yes	2
Bell, H. Eugene	3600449	Bell Well	Bunker Hill		0.00	0.00	0.00	Yes	2
Berman, Jerry & Sons	3602007	2	Bunker Hill		10.00	0.00	10.00	Yes	3
Blue Banner Co.	3602531	Tunnel Div.	Bunker Hill		0.00	0.00	0.00	Yes	2
Bryn Mawr Mutual Water Co.	3600053	1	Bunker Hill		0.00	0.00	0.00	Yes	2
Bryn Mawr Mutual Water Co.	3600054	2	Bunker Hill		FC	FC	FC	Yes	2
Bryn Mawr Mutual Water Co.	3600055	3	Bunker Hill		FC	FC	FC	Yes	2
Bryn Mawr Mutual Water Co.	3602109	4	Bunker Hill		0.00	0.00	0.00	Yes	2
Canyon Knolls Ranch Co Royal Citrus	3601632	Clock Canyon/Marcum	San Timoteo		0.00	0.00	0.00	Yes	2
Cardiff Farms Mutual Water Company	3600973	1	Bunker Hill		FC	FC	FC	Yes	2
Cardiff Farms Mutual Water Company	3601619	2	Bunker Hill		FC	FC	FC	Yes	2
Carter, James E., M.D.	3602241	Almond	Bunker Hill		0.00	0.00	0.00	Yes	2
CEMEX USA	3601420	Alabama Street 2	Bunker Hill		0.00	186.00	186.00	Yes	3
CEMEX USA	3603653	Orange Street	Bunker Hill		0.00	50.40	50.40	Yes	3
City Creek Water Company	3600681	City Creek	Bunker Hill		FC	FC	FC	Yes	2
Cogbill, Clinton L.	3601628	2	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3602793	21	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3603598	24	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3604006	27	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3604007	28	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3601257	13	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3601258	14	Bunker Hill		FC	FC	FC	Yes	2
Colton, City of	3601260	16	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3602405	19	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of	3603704	26W	Bunker Hill		0.00	0.00	0.00	Yes	2
Colton, City of		29C	Bunker Hill		0.00	0.00	0.00	Yes	2

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Colton, City of		29W	Bunker Hill		0.00	0.00	0.00	0.00				
Colton, City of	3601251	5	Bunker Hill		FC	FC	FC	FC				2
Colton, City of	3601253	7	Bunker Hill		FC	FC	FC	FC				2
Colton, City of	3601254	8	Bunker Hill		FC	FC	FC	FC				2
Crafton Water Company	3602186	2	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
Crafton Water Company	3600272	Fifth Ave. 1	Bunker Hill		0.00	0.00	0.00	0.00	Yes			3
Cram Ranch Associates	3600241	I Home	Bunker Hill		FC	FC	FC	FC	Yes			2
Dangermond, Jack	3602188	Rancho Ladera /ESRI	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
Daniels and Best Ranch	3602550	Alabama St.	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
Daniels and Best Ranch	3602549	California St.	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
Deer Park, LLC	3601632	Clock Canyon/Marcum	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
Devore Water Co.	3602428	#4	Lower Cajon		0.00	0.00	0.00	0.00				2
Devore Water Co.	3602383	2	Lower Cajon		0.00	0.00	0.00	0.00				2
Devore Water Co.	3602384	3	Lower Cajon		0.00	0.00	0.00	0.00				2
Devore Water Co.	3602387	E. Kimbark	Lower Cajon		0.00	0.00	0.00	0.00				2
Devore Water Co.	3602388	Kimbark	Lower Cajon		0.00	0.00	0.00	0.00				2
Devore Water Co.	3602386	Lehin Sp.	Lower Cajon		0.00	0.00	0.00	0.00				2
Devore Water Co.	3602385	Medlin Cr.	Lower Cajon		0.00	0.00	0.00	0.00				2
E.D. Patterson, Jr.	3600188	Cram-Patterson 2	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
E.D. Patterson, Jr.	3602003	Solano 3	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
East Highlands Ranch, Inc.	3602474	Div/Plunge Crk	Plunge		FC	FC	FC	FC				2
East Highlands Ranch, Inc.	3600605	Plunge Ck	Plunge		FC	FC	FC	FC				2
East Valley Water District	3603904	PL 132/Cull 5			0.00	2099.3	2099.3	2099.30				2
East Valley Water District	9900025	102 Hot	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3601987	Dunkirk 1 / Highland 1	Bunker Hill		0.00	0.00	0.00	0.00	Yes			3
East Valley Water District	9900001	Fairfax	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	9900018	Greenspot Well	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3601653	PL 1	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3601661	PL 10	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3600925	PL 100	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3600026	PL 102 / Bear Valley	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
East Valley Water District	3692174	PL 105 / Myers	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	0000059	PL 106	Bunker Hill		0.00	0.00	0.00	0.00	Yes			2
East Valley Water District	3602370	PL 107	Bunker Hill		0.00	636.33	636.33	636.33	Yes			1
East Valley Water District	3600765	PL 113	Bunker Hill		0.00	0.00	0.00	0.00	Yes			3
East Valley Water District	3600926	PL 115	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3600927	PL 116	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3600928	PL 117	Bunker Hill		FC	FC	FC	FC	Yes			2
East Valley Water District	3600930	PL 118	Bunker Hill		FC	FC	FC	FC	Yes			2

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East Valley Water District	3601582	PL 119		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3602563	PL 11A		Bunker Hill		0.00	1228.60	1228.60	Yes	1
East Valley Water District	3601663	PL 12		Bunker Hill		0.00	4.70	4.70	Yes	3
East Valley Water District	3600680	PL 120/Cram		Bunker Hill		0.00	1473.83	1473.83	Yes	1
East Valley Water District	3601643	PL 121		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3602571	PL 122		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3602799	PL 125		Bunker Hill		0.00	614.10	614.10	Yes	1
East Valley Water District	3602034	PL 12A		Bunker Hill		0.00	0.00	0.00	Yes	2
East Valley Water District	3601664	PL 13		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3600376	PL 132 / Cull 2		Bunker Hill		0.00	0.00	0.00	Yes	3
East Valley Water District	3602260	PL 132 / Cull 3		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3602417	PL 132 / Cull 4		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3600375	PL 132/Cull 1		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3600377	PL 134 / City Creek 1		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3600378	PL 134 / City Creek 3		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601069	PL 135 / Church		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3602560	PL 136 / Dunkirk 2		Bunker Hill		0.00	0.00	0.00	Yes	2
East Valley Water District	3600374	PL 138 / Palm 1		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601665	PL 14		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3603247	PL 141 / McDaniel		Bunker Hill		0.00	1667.00	1667.00	Yes	1
East Valley Water District	3600220	PL 142		Bunker Hill		0.00	338.40	338.40	Yes	1
East Valley Water District	3603583	PL 143 / Abbey Way		Bunker Hill		0.00	692.70	692.70	Yes	1
East Valley Water District	3601639	PL 146		Bunker Hill		0.00	267.00	267.00	Yes	3
East Valley Water District	3603774	PL 146A		Bunker Hill		0.00	718.30	718.30	Yes	3
East Valley Water District	3603734	PL 147		Bunker Hill		0.00	1765.50	1765.50	Yes	3
East Valley Water District	3601666	PL 16		Bunker Hill		0.00	0.00	0.00	Yes	
East Valley Water District	3601654	PL 1A		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601655	PL 2		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601667	PL 21		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601668	PL 22		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601669	PL 23		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601670	PL 24		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601671	PL 24A		Bunker Hill		0.00	253.70	253.70	Yes	1
East Valley Water District	3602337	PL 24B		Bunker Hill		0.00	1539.10	1539.10	Yes	1
East Valley Water District	3601672	PL 25		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3601673	PL 25A		Bunker Hill		0.00	96.80	96.80	Yes	3
East Valley Water District	3601675	PL 27		Bunker Hill		0.00	891.50	891.50	Yes	1
East Valley Water District	3601676	PL 28		Bunker Hill		FC	FC	FC	Yes	2
East Valley Water District	3602564	PL 28A		Bunker Hill		0.00	2572.70	2572.70	Yes	1

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East Valley Water District	3601884	PL 30		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	3601677	PL 31		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3601678	PL 32		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3601781	PL 35/Baseline Mutual		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	0000030	PL 36		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	3602274	PL 39		Bunker Hill		0.00	837.10	837.10	837.10	Yes	1
East Valley Water District	3601978	PL 40		Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
East Valley Water District	3602338	PL 40A		Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
East Valley Water District	3602113	PL 41		Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
East Valley Water District	0000032	PL 43		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	0000033	PL 44		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	0000034	PL 45		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000035	PL 46		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3601584	PL 47		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600466	PL 48		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	0000036	PL 52		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	3600038	PL 53		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600855	PL 54 / Seeley		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	3600970	PL 57		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600971	PL 58		Bunker Hill		FC	FC	FC	FC	Yes	#N/A
East Valley Water District	3601656	PL 6		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600183	PL 60		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600545	PL 62		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600221	PL 63		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600275	PL 64		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600643	PL 66		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3600269	PL 68 / Morley		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	3601657	PL 7		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	0000038	PL 70		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000039	PL 71		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000040	PL 72		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000041	PL 74		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000042	PL 75		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000043	PL 78		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	3600864	PL 79		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	3601658	PL 8		Bunker Hill		FC	FC	FC	FC	Yes	2
East Valley Water District	0000048	PL 80		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000045	PL 81		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
East Valley Water District	0000046	PL 83		Bunker Hill		0.00	0.00	0.00	0.00	Yes	2

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East Valley Water District	0000047	PL 84	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	9900016	PL 85	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	0000049	PL 93	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	3601184	PL 94 / Corwin	Bunker Hill																	0.00	0.00	0.00	Yes	3
East Valley Water District	0000050	PL 95	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	0000051	PL 96	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	0000052	PL 97	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	3600444	PL 98	Bunker Hill																	0.00	0.00	0.00	Yes	2
East Valley Water District	3601660	PL 9A	Bunker Hill																	0.00	1674.60	1674.60	Yes	1
East Valley Water District	9900004	Stout	Bunker Hill																	0.00	0.00	0.00	Yes	
East Valley Water District	9900021	Tri-City	Bunker Hill																	0.00	0.00	0.00	Yes	
Eastwood Farms Community Water Users	3602130	1	Bunker Hill																	FC	FC	FC	Yes	2
Eastwood Farms Community Water Users	3602131	2	Bunker Hill																	0.00	0.00	0.00	Yes	3
Fairview Water Company	3600554	Fairview 1	Bunker Hill																	279.70	0.00	279.70	Yes	3
Fontana Union Water Company	3600569	FU 13	Lytle	8809																0.00	0.00	0.00		2
Fontana Union Water Company	3600579	FU 24	Lytle																	0.00	0.00	0.00		2
Fontana Union Water Company	3600580	FU 25	Lytle																	0.00	0.00	0.00		2
Fontana Union Water Company	3600562	FU 3	Lytle																	0.00	0.00	0.00		2
Fontana Union Water Company	3600585	FU 32	Lytle																	0.00	0.00	0.00		2
Fontana Union Water Company	3600563	FU 4	Lytle																	0.00	0.00	0.00		2
Fontana Union Water Company	3602727	FU 8	Lytle																	0.00	0.00	0.00		2
General American Life Insurance Co.	3601352	Langford	Bunker Hill																	0.00	146.92	146.92	Yes	3
Gladysta Well & Water Company	3600182	1	Bunker Hill																	18.00	0.00	18.00	Yes	3
Greenspot Mutual Well Company	3600266	Greenspot Mutual	Bunker Hill																	0.00	0.00	0.00	Yes	2
Happe Mutual Well Company	3600238	1	Bunker Hill																	412.03	0.00	412.03	Yes	3
Highland Acres Ranch	3600323	Elec 1	Bunker Hill																	FC	FC	FC	Yes	2
Highland Harvest Barn	0000130	Destroyed/Abandoned	Bunker Hill																	0.00	0.00	0.00	Yes	2
Highland Harvest Barn	0000129		Bunker Hill																	0.00	0.00	0.00	Yes	2
Holiday Trucking	3603262	SB #1	Bunker Hill																	0.00	0.00	0.00	Yes	2
Horton	0000070		Bunker Hill																	0.00	0.00	0.00	Yes	2
Inland Valley Development Agency	0000089	Local 5																		0.00	0.00	0.00		
Inland Valley Development Agency	0000090	Local 11	Bunker Hill																	0.00	67.10	67.10	Yes	3
Inland Valley Development Agency	0000086	Local 2A	Bunker Hill																	0.00	0.00	0.00	Yes	3
Inland Valley Development Agency	0000087	Local 3	Bunker Hill																	0.00	0.00	0.00	Yes	3
Inland Valley Development Agency	0000093	Local 347	Bunker Hill																	FC	FC	FC	Yes	2
Inland Valley Development Agency	0000088	Local 4	Bunker Hill																	FC	FC	FC	Yes	2
Inland Valley Development Agency	0000092	Local 44	Bunker Hill																	FC	FC	FC	Yes	2
Inland Valley Development Agency	0000094	Local 865	Bunker Hill																	FC	FC	FC	Yes	2
Inland Valley Development Agency	3603648	Norton 5	Bunker Hill																	0.00	0.00	0.00	Yes	2

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Inland Valley Development Agency	0000091	Palm Meadows	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
J.G. Golfing Enterprises, Inc.	3602846	Kline & Thorn	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
J.G. Golfing Enterprises, Inc.	3602499	Paine	Bunker Hill		126.40	0.00	126.40		Yes	3
J.G. Golfing Enterprises, Inc.	3601478	Thorn 10 & 11	Bunker Hill		531.80	0.00	531.80		Yes	3
Jacinto, Larry	3601126	1	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Jacinto, Larry	3602020	F A R	Bunker Hill		81.60	0.00	81.60		Yes	3
K Inv./Trutante/Y Un Well	3601172	Kinv(Crimnorth)	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Kansas Street Mutual Water Co.	3601092	Kansas	Bunker Hill		FC	FC	FC	FC	Yes	2
King Street Mutual Well Company	3600530-	2	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Langford Ranches c/o Redlands Farming Co.	3600525	Alabama Ave.	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Langford Ranches c/o Redlands Farming Co.	3600526	Lugonia Ave.	Bunker Hill		FC	FC	FC	FC	Yes	2
Langford Ranches c/o Redlands Farming Co.	3600524	Nevada St.	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Laranni Gunter Well	3600160	Gunter	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Loma Linda University	3602012	6	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Loma Linda University	3602249	Anderson	Bunker Hill		FC	FC	FC	FC	Yes	2
Loma Linda University	3602781	Anderson 2	Bunker Hill		9.60	45.30	54.90		Yes	3
Loma Linda University	3602855	Anderson 3	Bunker Hill		220.20	1066.20	1286.40		Yes	3
Loma Linda, City of	3601388	Court St.	Bunker Hill		FC	FC	FC	FC	Yes	2
Loma Linda, City of	3602759	Mt. View 1	Bunker Hill		FC	FC	FC	FC	Yes	2
Loma Linda, City of	3602760	Mt. View 2	Bunker Hill		FC	FC	FC	FC	Yes	2
Loma Linda, City of	3603719	Mt. View 3	Bunker Hill		0.00	538.70	538.70		Yes	3
Loma Linda, City of	3603721	Mt. View 4	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Loma Linda, City of	3603776	Mt. View 5	Bunker Hill		0.00	1933.30	1933.30		Yes	3
Loma Linda, City of	3601130	Nicks	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Loma Linda, City of	3603057	Richardson 1	Bunker Hill		0.00	388.50	388.50		Yes	3
Loma Linda, City of	3603058	Richardson 2	Bunker Hill		FC	FC	FC	FC	Yes	2
Loma Linda, City of	3603523	Richardson 3	Bunker Hill		0.00	1699.30	1699.30		Yes	3
Loma Linda, City of	3603720	Richardson 4	Bunker Hill		0.00	352.90	352.90		Yes	3
LPR Ice Company	3602525	LPR Ice Co.	Bunker Hill		FC	FC	FC	FC	Yes	2
Lucky Farms, Inc.	3603554	California St.	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Lucky Farms, Inc.	3600418	Lugonia	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Lucky Farms, Inc. formerly Marigold Farms	3601750	Acquilian	Bunker Hill		FC	FC	FC	FC	Yes	2
Lucky Farms, Inc.	3603554	California St.	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Lucky Farms, Inc. formerly Marigold Farms	3601751	Alabama	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Lucky Farms, Inc. formerly Marigold Farms	3601748	California	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Lucky Farms, Inc. formerly Marigold Farms	3601749	Jap	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Lucky Farms, Inc. formerly Marigold Farms	3600757	Mission	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Lugo Water Company	3600510	1	Bunker Hill		FC	FC	FC	FC	Yes	2
Majestic Realty / Mascart Water Company	3601102	2	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2

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Pioneer Mutual Water Company	3600642	San Bernardino 1	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Ramirez, J.J.	3601171	Crim 1	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Ramirez, J.J. Citrus Mgmt	3600484	Buckeye 2	Bunker Hill		34.30	0.00	0.00	34.30	0.00	Yes	3
Ramirez, J.J. Citrus Mgmt	3601728	Frink 1	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	3
Ramirez, J.J. Citrus Mgmt	3600527	Midas	Bunker Hill		82.30	0.00	0.00	82.30	0.00	Yes	3
Ramirez, J.J. Citrus Water Company	3601046	IStowe	Bunker Hill		FC	FC	FC	FC	FC	Yes	2
Ramirez, Laura	3601649-	Hoover	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	3
Raught Mutual Well Company	3602193	Raught	Bunker Hill		355.65	0.00	0.00	355.65	0.00	Yes	3
Redlands Country Club	3600049	Morrison/Hobbs	Bunker Hill		FC	FC	FC	FC	FC	Yes	2
Redlands Unified School District	3601641	Opal St.	Bunker Hill		0.00	123.20	123.20	123.20	0.00	Yes	3
Redlands, City of	3600054	Bryn Mawr 2			0.00	0.00	0.00	0.00	0.00		
Redlands, City of	3600055	Bryn Mawr			0.00	0.00	0.00	0.00	0.00		
Redlands, City of	3603655	38	Bunker Hill		0.00	1592.13	1592.13	1592.13	0.00	Yes	3
Redlands, City of	3601291	10	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	3
Redlands, City of	3601292	11	Bunker Hill		0.00	69.50	69.50	69.50	0.00	Yes	3
Redlands, City of	3601293	12	Bunker Hill		FC	FC	FC	FC	FC	Yes	2
Redlands, City of	3601294	13	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601295	14	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601296	16	Bunker Hill		860.75	0.00	0.00	860.75	0.00	Yes	3
Redlands, City of	3601297	17	Bunker Hill					0.00	0.00	Yes	2
Redlands, City of	3602653	2	Bunker Hill		FC	FC	FC	FC	FC	Yes	2
Redlands, City of	3602031	30-A	Bunker Hill		0.00	233.64	233.64	233.64	0.00	Yes	3
Redlands, City of	3602036	31-A	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601298	32	Bunker Hill		0.00	199.49	199.49	199.49	0.00	Yes	2
Redlands, City of	3601299	34	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3602032	35	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3602082	36 (Irrigation)	San Timoteo		109.63	209.10	209.10	318.73	0.00	Yes	3
Redlands, City of	3602211	37 Sylvyn	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601301	41	Bunker Hill		572.51	0.00	0.00	572.51	0.00	Yes	3
Redlands, City of	3601308	Agate 1	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	3
Redlands, City of	3602792	Agate 2	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	3
Redlands, City of	3602895	Airport 1	Bunker Hill		0.00	1312.11	1312.11	1312.11	0.00	Yes	3
Redlands, City of	3603762	Airport 2	Bunker Hill		0.00	652.59	652.59	652.59	0.00	Yes	3
Redlands, City of	3602549	California St. IRR	Bunker Hill		0.00	616.02	616.02	616.02	0.00	Yes	3
Redlands, City of	3603656	Church St	Bunker Hill		0.00	400.58	400.58	400.58	0.00	Yes	3
Redlands, City of	3603766	N. Orange #1	Bunker Hill		0.00	2593.08	2593.08	2593.08	0.00	Yes	1
Redlands, City of	3603767	N. Orange #2	Bunker Hill		0.00	1430.24	1430.24	1430.24	0.00	Yes	1
Redlands, City of	3602654	Crafton	Bunker Hill		342.46	0.00	0.00	342.46	0.00	Yes	3
Redlands, City of	3601283	East Lugonia 2	Bunker Hill		0.00	0.00	0.00	0.00	0.00	Yes	2

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Redlands, City of	3601287	East Lugonia 3	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Redlands, City of	3602791	East Lugonia 4	Bunker Hill		0.00	8.30	8.30	8.30	Yes	3
Redlands, City of	3600006	East Lugonia 5	Bunker Hill					0.00	Yes	2
Redlands, City of	3601290	East Lugonia 6	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601636	Langford	Bunker Hill		FC	FC	FC	FC	Yes	2
Redlands, City of	3602065	Lee Well	Bunker Hill		FC	FC	FC	FC	Yes	2
Redlands, City of	3602896	Madeira	Bunker Hill		0.00	544.70	544.70	544.70	Yes	3
Redlands, City of	3601281	Maguet 1	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601284	Maguet 2	Bunker Hill		0.00	0.00	0.00	0.00	Yes	3
Redlands, City of	3600749	Mentone Acre	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3601302	Mill Cr	Mill Creek	10,561.00				0.00		2
Redlands, City of	3600756	Mission 1	Bunker Hill		0.00	0.00	0.00	0.00	Yes	2
Redlands, City of	3602346	New York St.	Bunker Hill		1189.63	0.00	1189.63	1189.63	Yes	3
Redlands, City of	3600085	NY St. 1	Bunker Hill		FC	FC	FC	FC	Yes	2
Redlands, City of	3601586	Orange St.	Bunker Hill		0.00	722.98	722.98	722.98	Yes	3
Redlands, City of	3601637	Peterson Well	Bunker Hill		FC	FC	FC	FC	Yes	2
Redlands, City of	3600918	Redlands Heights 1	Bunker Hill		0.00	167.46	167.46	167.46	Yes	3
Redlands, City of	3600628	Redlands Trap & Skeet	Bunker Hill		FC	FC	FC	FC	Yes	2
Redlands, City of	3600019	Rees Well 1	Bunker Hill		0.00	135.44	135.44	135.44	Yes	3
Redlands, City of	3600076	No.2	Bunker Hill		0.00	0.00	0.00	0.00		
Redlands, City of	3603760	Well #39	Bunker Hill		0.00	2311.97	2311.97	2311.97	Yes	2
Redlands, City of	3602106		Bunker Hill		FC	FC	FC	FC	Yes	2
Redlands, City of formerly Mentone Acres	3600748	Mentone Acres	Bunker Hill		0.00	1066.88	1066.88	1066.88	Yes	2
Rialto, City of	3602080	City #2	Lytle					0.00		2
Rialto, City of	3603538	City #4	Bunker Hill					0.00		2
Riverside Highland Water Company	3601530	FW 12	Bunker Hill		FC	FC	FC	FC		2
Riverside Highland Water Company	3601533	FW 18	Bunker Hill					0.00		2
Riverside Highland Water Company	3603514	FW 5	Bunker Hill					0.00		2
Riverside Highland Water Company	3601535	LC #1	Lytle					0.00		2
Riverside Highland Water Company	3603470	LC #10	Lytle					0.00		2
Riverside Highland Water Company	3602840	LC #8	Lytle					0.00		2
Riverside, City of	3601228	Cooley H	Bunker Hill		0.00	967.27	967.27	967.27	Yes	1
Riverside, City of	3601229	Cooley I	Bunker Hill		0.00	1878.76	1878.76	1878.76	Yes	1
Riverside, City of	3310031	Cooley J			0.00	835.47	835.47	835.47		1
Riverside, City of	3601464	Gamer 1	Bunker Hill		0.00	185.07	185.07	185.07	Yes	1
Riverside, City of	3601465	Gamer 2	Bunker Hill		0.00	264.90	264.90	264.90	Yes	3
Riverside, City of	3601467	Gamer 4	Bunker Hill		0.00	796.30	796.30	796.30	Yes	2
Riverside, City of	3601468	Gamer 5	Bunker Hill		0.00	1437.65	1437.65	1437.65	Yes	1
Riverside, City of	3603254	Gamer 6	Bunker Hill		0.00	1609.96	1609.96	1609.96	Yes	1

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Riverside, City of	9900015	Gamer 7	Bunker Hill		0.00	1546.01	1546.01	Yes	1
Riverside, City of	3602772	Hunt 10	Bunker Hill				0.00	Yes	1
Riverside, City of	3602773	Hunt 11	Bunker Hill				0.00	Yes	1
Riverside, City of	3602771	Hunt 6	Bunker Hill				0.00	Yes	1
Riverside, City of	3601462	Poole	Bunker Hill				0.00	Yes	2
Riverside, City of	3601219	Raub 2	Bunker Hill		0.00	110.81	110.81	Yes	1
Riverside, City of	3601239	Raub 3	Bunker Hill		0.00	437.68	437.68	Yes	1
Riverside, City of	3601238	Raub 4	Bunker Hill		0.00	394.86	394.86	Yes	1
Riverside, City of	3602484	Raub 5	Bunker Hill		0.00	1399.70	1399.70	Yes	1
Riverside, City of	3602778	Raub 6	Bunker Hill		0.00	503.40	503.40	Yes	1
Riverside, City of	3603555	Raub 8	Bunker Hill		0.00	1789.64	1789.64	Yes	1
Riverside, City of	3601489	Schauer	Bunker Hill		0.00	252.00	252.00	Yes	3
Riverside, City of	3601431	Stewart 20	Bunker Hill		0.00	0.00	0.00	Yes	3
Riverside, City of	3601463	Stiles	Bunker Hill		0.00	1017.68	1017.68	Yes	1
Riverside, City of	3601479	Thorn 11	Bunker Hill		0.00	1295.56	1295.56	Yes	1
Riverside, City of	3601470	Thorn 12	Bunker Hill		0.00	533.58	533.58	Yes	1
Riverside, City of	3601473	Thorn 5	Bunker Hill		0.00	0.00	0.00	Yes	2
Riverside, City of	3601474	Thorn 6	Bunker Hill		0.00	89.40	89.40	Yes	2
Riverside, City of	3601475	Thorn 7	Bunker Hill		0.00	0.00	0.00	Yes	2
Riverside, City of	3601476	Thorn 8	Bunker Hill		0.00	1286.10	1286.10	Yes	3
Riverside, City of	3601240	Warren 1	Bunker Hill				0.00	Yes	1
Riverside, City of	3601231	Warren 2	Bunker Hill		0.00	0.00	0.00	Yes	3
Riverside, City of	3601230	Warren 3	Bunker Hill		0.00	485.51	485.51	Yes	1
Riverside, City of	3601243	Warren 4	Bunker Hill		0.00	113.79	113.79	Yes	1
Riverside, City of - Gage Canal Company	3602423	6	Bunker Hill				0.00		2
Riverside, City of - Gage Canal Company	3600786	21	Bunker Hill		FC	FC	FC		2
Riverside, City of - Gage Canal Company	3600787	26-1	Bunker Hill		494.30	846.50	1340.80	Yes	3
Riverside, City of - Gage Canal Company	3600788	27-1	Bunker Hill		1739.20	846.50	2585.70	Yes	3
Riverside, City of - Gage Canal Company	3600789	27-2	Bunker Hill		0.00	756.80	756.80	Yes	3
Riverside, City of - Gage Canal Company	3600790	29-1	Bunker Hill		0.00	785.40	785.40	Yes	3
Riverside, City of - Gage Canal Company	3600791	29-2	Bunker Hill		0.00	0.00	0.00		1
Riverside, City of - Gage Canal Company	3600792	29-3	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3600793	30-1	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3600794	31-1	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3600795	46-1	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3600796	51-1	Bunker Hill		163.60	846.50	1010.10	Yes	3
Riverside, City of - Gage Canal Company	3600797	56-1	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3602331	66-1	Bunker Hill		478.60	846.50	1325.10	Yes	3
Riverside, City of - Gage Canal Company	3603558	92-1	Bunker Hill				0.00		1

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Riverside, City of - Gage Canal Company	3603557	92-2	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3603556	92-3	Bunker Hill				0.00		1
Riverside, City of - Gage Canal Company	3600798	Cowlane	Bunker Hill		FC		FC	Yes	2
San Bernardino Avenue Water Company	3600125	1	Bunker Hill				0.00	Yes	2
San Bernardino Valley Municipal Water Dist.	3603141	9Th Street	Bunker Hill				0.00		2
San Bernardino Valley Municipal Water Dist.	3603174	Perris Street	Bunker Hill				0.00		2
San Bernardino Valley Municipal Water Dist.	3603116	San Bernardino Ave. 1	Bunker Hill		0.00		50.90	Yes	2
San Bernardino, City of	9900032		Bunker Hill				0.00	Yes	
San Bernardino, City of	3603207	10Th/J Street	Bunker Hill				0.00		1
San Bernardino, City of	9900030	11Th/E Street	Bunker Hill				0.00		
San Bernardino, City of	3600726	16Th Street	Bunker Hill				0.00		1
San Bernardino, City of	9900027	17Th Street #1	Bunker Hill				0.00		
San Bernardino, City of	3603208	17Th St. & Sierra Way #2	Bunker Hill				0.00		1
San Bernardino, City of	3600717	19Th Street 1	Bunker Hill				0.00		1
San Bernardino, City of	3600718	19Th Street 2	Bunker Hill				0.00		1
San Bernardino, City of	3602264	23rd Street	Bunker Hill				0.00		2
San Bernardino, City of	3600721	25th Street	Bunker Hill				0.00		2
San Bernardino, City of	3600720	27Th St & Acacia	Bunker Hill				0.00		1
San Bernardino, City of	3600719	30Th Street	Bunker Hill				0.00		1
San Bernardino, City of	3602081	31st St & Mt. View	Bunker Hill				0.00		1
San Bernardino, City of	3603472	40Th/Valencia	Bunker Hill				0.00		1
San Bernardino, City of	3602265	7Th Street	Bunker Hill				0.00		1
San Bernardino, City of		Acacia	Bunker Hill		FC		FC		2
San Bernardino, City of	3600733	Antil 1	Bunker Hill		FC		FC	Yes	2
San Bernardino, City of	3600732	Antil 2	Bunker Hill		FC		FC	Yes	2
San Bernardino, City of	3600730	Antil 3	Bunker Hill		FC		FC	Yes	2
San Bernardino, City of	3600734	Antil 4	Bunker Hill		0.00		0.00	Yes	2
San Bernardino, City of	3600731	Antil 5	Bunker Hill		-		0.00	Yes	2
San Bernardino, City of	3602422	Antil 6	Bunker Hill				0.00	Yes	1
San Bernardino, City of	3602400	Baseline	Bunker Hill				0.00		
San Bernardino, City of	9900035	Bennett Well	Bunker Hill				0.00	Yes	
San Bernardino, City of	3600735	Birch Street	Bunker Hill		FC		FC		2
San Bernardino, City of	9900033	Bloodbank	Bunker Hill				0.00	Yes	
San Bernardino, City of	3602426	C.C. Diversion	Lower Cajon				0.00		2
San Bernardino, City of	3600710	Cajon Cyn	Lower Cajon				0.00		1
San Bernardino, City of	3601843	Cajon No 1	Lower Cajon						2
San Bernardino, City of	3601844	Cajon No 2	Lower Cajon				0.00		1
San Bernardino, City of	3602821	Cajon No 3	Lower Cajon				0.00		1
San Bernardino, City of		Cajon No 4	Lower Cajon				0.00		1

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San Bernardino, City of	3602124	Central Ave.	Bunker Hill		0.00		0.00		0.00	Yes	2
San Bernardino, City of	9900034	Century Well	Bunker Hill				0.00		0.00	Yes	
San Bernardino, City of	3603581	Century	Bunker Hill		0.00		1093.50		1093.50	Yes	3
San Bernardino, City of	3603382	Chandler	Bunker Hill		0.00		1175.10		1175.10	Yes	3
San Bernardino, City of	3301626	City Lots	Bunker Hill		FC		FC		FC		2
San Bernardino, City of	3601880	Collima	Bunker Hill								2
San Bernardino, City of	3601171	Crim 1	Bunker Hill				0.00		0.00		2
San Bernardino, City of	3601878	Darby	Bunker Hill								2
San Bernardino, City of	3600738	DC Diversion	Devil Canyon				0.00		0.00		2
San Bernardino, City of	3600712	Devil Canyon 1	Devil Canyon				0.00		0.00		1
San Bernardino, City of	3600711	Devil Canyon 2	Devil Canyon				0.00		0.00		1
San Bernardino, City of	3602206	Devil Canyon 3	Devil Canyon				0.00		0.00		1
San Bernardino, City of	3602205	Devil Canyon 4	Devil Canyon				0.00		0.00		1
San Bernardino, City of	3602844	Devil Canyon 5	Devil Canyon				0.00		0.00		1
San Bernardino, City of	9900038	Devil Canyon 6	Devil Canyon				0.00		0.00		1
San Bernardino, City of	9900037	Devil Canyon 7	Devil Canyon				0.00		0.00		1
San Bernardino, City of	3602712	Ellena	Bunker Hill		FC		FC		FC		2
San Bernardino, City of	3603688	EPA #1	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603689	EPA #2	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603690	EPA #3	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603691	EPA #4	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603692	EPA #5	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603693	EPA #6	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603694	EPA #7	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603786	EPA #108	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603787	EPA #109	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603788	EPA #110	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603789	EPA #111	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3603790	EPA #112	Bunker Hill				0.00		0.00		1
San Bernardino, City of	3601879	Gardena	Bunker Hill								2
San Bernardino, City of	3602128	Gifford Park	Bunker Hill		0.00		0.00		0.00	Yes	2
San Bernardino, City of	3602067	Gilbert 2	Bunker Hill				0.00		0.00		2
San Bernardino, City of	3600729	Gilbert St.	Bunker Hill		0.00		787.30		787.30	Yes	1
San Bernardino, City of	3602125	Gould 1 Old	Bunker Hill		0.00		0.00		0.00	Yes	2
San Bernardino, City of	3602126	Gould 2 New	Bunker Hill		0.00		0.00		0.00	Yes	2
San Bernardino, City of	3600723	Hanford 1	Bunker Hill		FC		FC		FC		2
San Bernardino, City of	3600724	Hanford 2	Bunker Hill		FC		FC		FC		2
San Bernardino, City of	3601316	Inter City	Bunker Hill		0.00		0.00		0.00	Yes	2
San Bernardino, City of	3603471	Kenwood	Lower Cajon				0.00		0.00		1

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San Bernardino, City of	3602401	Leroy	Bunker Hill						0.00				1
San Bernardino, City of	3600727	Lynwood	Bunker Hill					1124.10			Yes		3
San Bernardino, City of	3600739	Lytle Ck Div	Lytle	0.00					0.00				2
San Bernardino, City of	3600713	Lytle Ck 1/3	Lytle						0.00				2
San Bernardino, City of	3603027	Lytle Ck 2	Lytle Creek						0.00				1
San Bernardino, City of	3601845	Maitory	Lytle						0.00				1
San Bernardino, City of	3600222	Mcfarland Jo	Bunker Hill				FC		FC		Yes		2
San Bernardino, City of	9900028	Mecham	Bunker Hill						0.00		Yes		
San Bernardino, City of	9900029	Meeks Daley	Bunker Hill						0.00		Yes		
San Bernardino, City of	3600737	Mill & D	Bunker Hill						0.00				1
San Bernardino, City of	9900031	Mill & G Geo	Bunker Hill						0.00				
San Bernardino, City of	3600320	Mt Vernon	Lytle	0.00									2
San Bernardino, City of	3600714	Newmark 1	Devil Canyon						0.00				1
San Bernardino, City of	3600715	Newmark 2	Devil Canyon						0.00				1
San Bernardino, City of	3600716	Newmark 3	Devil Canyon						0.00				1
San Bernardino, City of	3602399	Newmark 4	Bunker Hill						0.00				1
San Bernardino, City of	3600721	No E Street	Bunker Hill						0.00				2
San Bernardino, City of	3602123	Norman Road	Bunker Hill				0.00				Yes		2
San Bernardino, City of	3603206	Olive/Garner	Bunker Hill						0.00				1
San Bernardino, City of	9900026	Paperboard	Bunker Hill										
San Bernardino, City of	3601114	Perris Hill 2	Bunker Hill				FC		FC		Yes		2
San Bernardino, City of	3601116	Perris Hill 3	Bunker Hill				0.00		0.00		Yes		2
San Bernardino, City of	3601117	Perris Hill 4	Bunker Hill				0.00	0.04			Yes		3
San Bernardino, City of	3601115	Perris Hill 5	Bunker Hill				0.00	3.00			Yes		3
San Bernardino, City of	3602122	Rosewood	Bunker Hill				FC		FC		Yes		2
San Bernardino, City of	3600034	Smith 1	Bunker Hill				FC		FC		Yes		2
San Bernardino, City of	3600736	So G Street	Bunker Hill				FC		FC				2
San Bernardino, City of	3601588	State 1	Bunker Hill						FC				2
San Bernardino, City of	3602066	Van Loon 1	Bunker Hill				0.00						2
San Bernardino, City of	3600709	Vincent	Bunker Hill					0.00			Yes		2
San Bernardino, City of	3600728	Waterman Ave.	Lower Cajon						0.00				1
San Bernardino, County of	0000001	Aerospace	Bunker Hill						0.00				1
San Bernardino, County of	0000019	County Hospital	Bunker Hill				FC		FC		Yes		2
San Bernardino, County of	9900003	Domestic Well No. 3	Bunker Hill						0.00		Yes		2
San Bernardino, County of	0000117	Glen Helen 3	Bunker Hill						0.00				2
San Bernardino, County of	0000118	Glen Helen 4	Bunker Hill						0.00		Yes		2
San Bernardino Water Conservation Dist.				17,632.0									
Selby, Dr. & Mrs. Arthur	3600018	Greets 2	Bunker Hill				FC		FC		Yes		2
Selby, Dr. & Mrs. Arthur	3600017	Greets 3	Bunker Hill				FC		FC		Yes		2

**Production Data for the Preceding Water Year
(July 1, 2006 - June 30, 2007)**

Solano Well No 3	3602003	3		Bunker Hill																						
Stater Bros	3602917	Stater Well		Bunker Hill									20.01	20.01	0.00	40.02	Yes	Yes								2
Storkson, William F.	3602664	Spring No 1		Lytle Creek											0.00	0.00	Yes	Yes								3
Sunwest Materials	9900005	Orange Street		Bunker Hill												0.00	Yes	Yes								2
Tennessee Mutual Well Company	3601161	Pioneer 1		Bunker Hill								116.90	116.90	0.00	116.90	Yes	Yes									2
Tennessee Water Company	3600474	1		Bunker Hill								94.10	94.10	0.00	94.10	Yes	Yes									2
Terrace Water Company	3601686	3, #2 Small		Bunker Hill											0.00	0.00	Yes	Yes								2
Terrace Water Company	3601684-	4 #1 Large		Bunker Hill											0.00	0.00	Yes	Yes								2
Trojan Groves	3600451			Bunker Hill											0.00	0.00	Yes	Yes								2
University of California, Riverside	3602772	Hunt 10		Bunker Hill								0.00	0.00	234.40	234.40	Yes	Yes									3
University of California, Riverside	3602773	Hunt 11		Bunker Hill								0.00	0.00	113.10	113.10	Yes	Yes									3
University of California, Riverside	3602771	Hunt 6		Bunker Hill								0.00	0.00	217.30	217.30	Yes	Yes									3
Victoria Farms Mutual Water Co.	3602714	1		Bunker Hill								FC	FC	FC	FC	FC	Yes	Yes								2
Victoria Farms Mutual Water Co.	3602574	1		Bunker Hill								FC	FC	FC	FC	FC	Yes	Yes								2
Victoria Farms Mutual Water Co.	3602247	2		Bunker Hill								FC	FC	FC	FC	FC	Yes	Yes								2
West Valley Water Dist.	3603054	35		Bunker Hill								FC	FC	FC	FC	FC	Yes	Yes								2
West Valley Water Dist.	3602897	#34		Lytle											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3603055	#36		Lytle											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3601944	2		Lytle											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3602766	30		Bunker Hill											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3600312	Diversion Box - Cities Ria		Lytle											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3600996	No 8		Lytle								FC	FC	FC	FC	FC	Yes	Yes								2
West Valley Water Dist.	3600307	Plant No 1		Lytle											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3601848	Plant No 15		Bunker Hill											0.00	0.00	Yes	Yes								2
West Valley Water Dist.	3600304	Plant No 4		Lytle								FC	FC	FC	FC	FC	Yes	Yes								2
West Valley Water Dist.	3600305	Plant No 5		Lytle								FC	FC	FC	FC	FC	Yes	Yes								2
West Valley Water Dist.	3600997	Plant No 7		Lytle											0.00	0.00	Yes	Yes								2
Williams Well Corporation, LTD	3600828			Bunker Hill								394.70	394.70	0.00	394.70	Yes	Yes									3
York	0000161			Bunker Hill											0.00	0.00	Yes	Yes								2

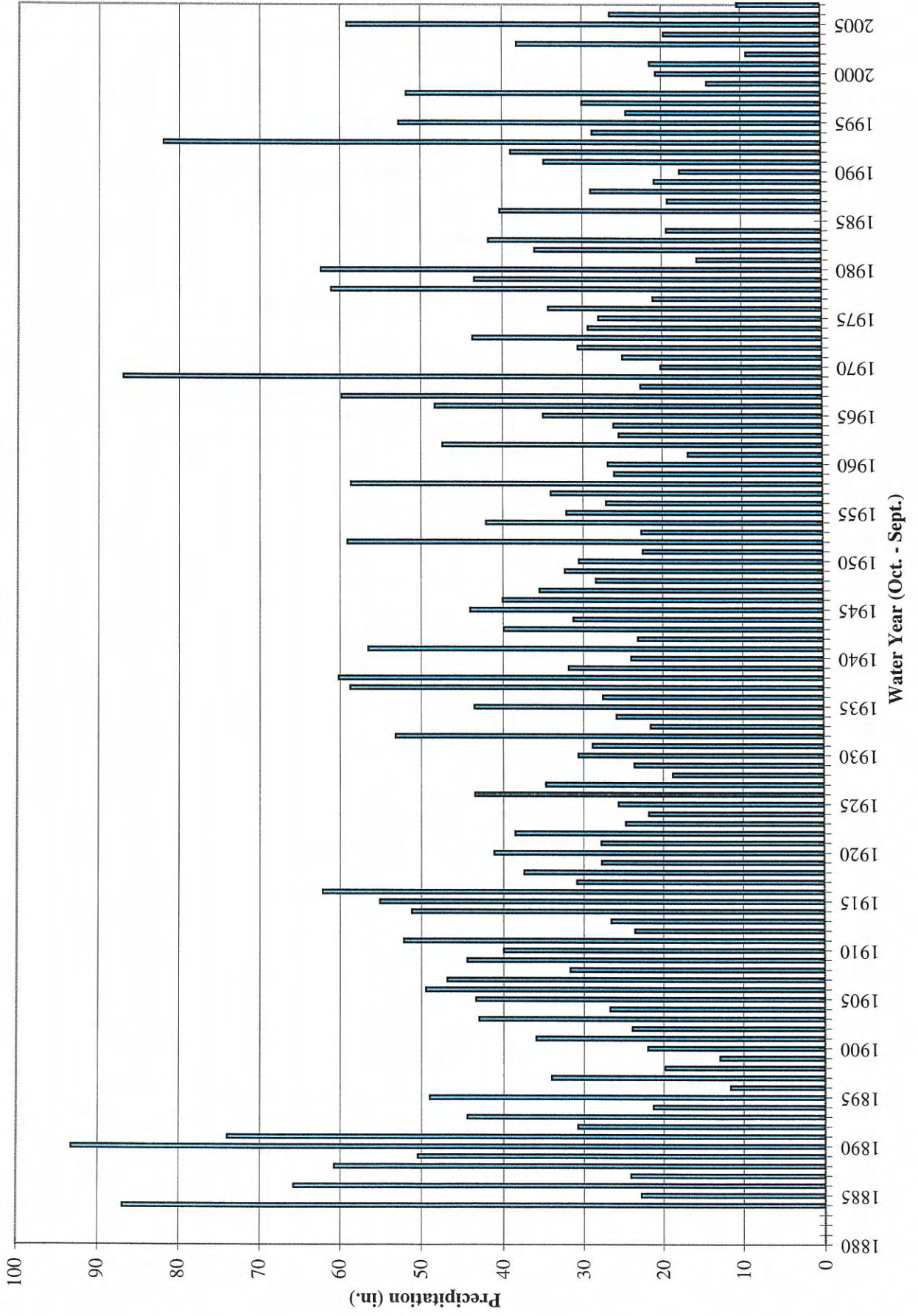
Production Data for the Preceding Water Year
(July 1, 2006 - June 30, 2007)

	54,691.0	9,653.5	74,421.0	54,691.00 83486.93 138177.93	(acre-ft) * (acre-ft) (acre-ft)
agricultural Groundwater Production Within SBVWCD				9653.49	(acre-ft)
agricultural Groundwater Production Within SBVWCD				69702.74	(acre-ft)
Total Within SBVWCD				79356.23	(acre-ft)

Notes:
1 - Estimated from water year July 2006 - June 2007 production.
2 - Estimated from calendar year 2006 Production. (Watermaster Support Services)
3 - Reported in SBVWCD Groundwater Assessments July 1, 2006 - June 30, 2007 (GWA #27 & GWA #28)
* Not all production data differentiated between agricultural or non-agricultural use.
FC = File Closed. SWRCB has closed file due to minimal water use, abandonment or lack of correspondence.
Data Sources: *Primary Water Purveyors, Western - San Bernardino Watermaster, and Western Municipal Water District, Watermaster Support Services*

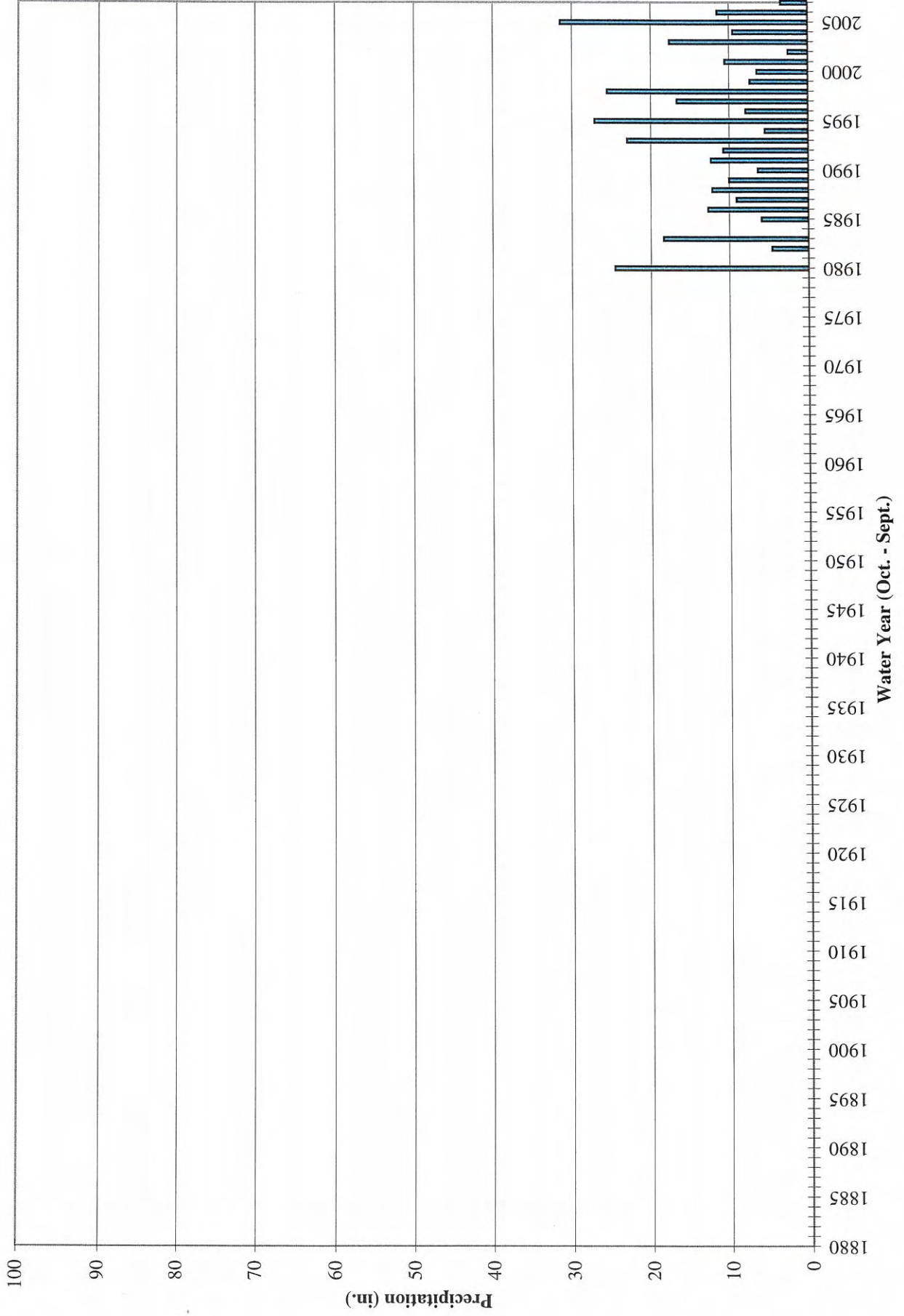
Historic Annual Precipitation

Big Bear Lake Dam



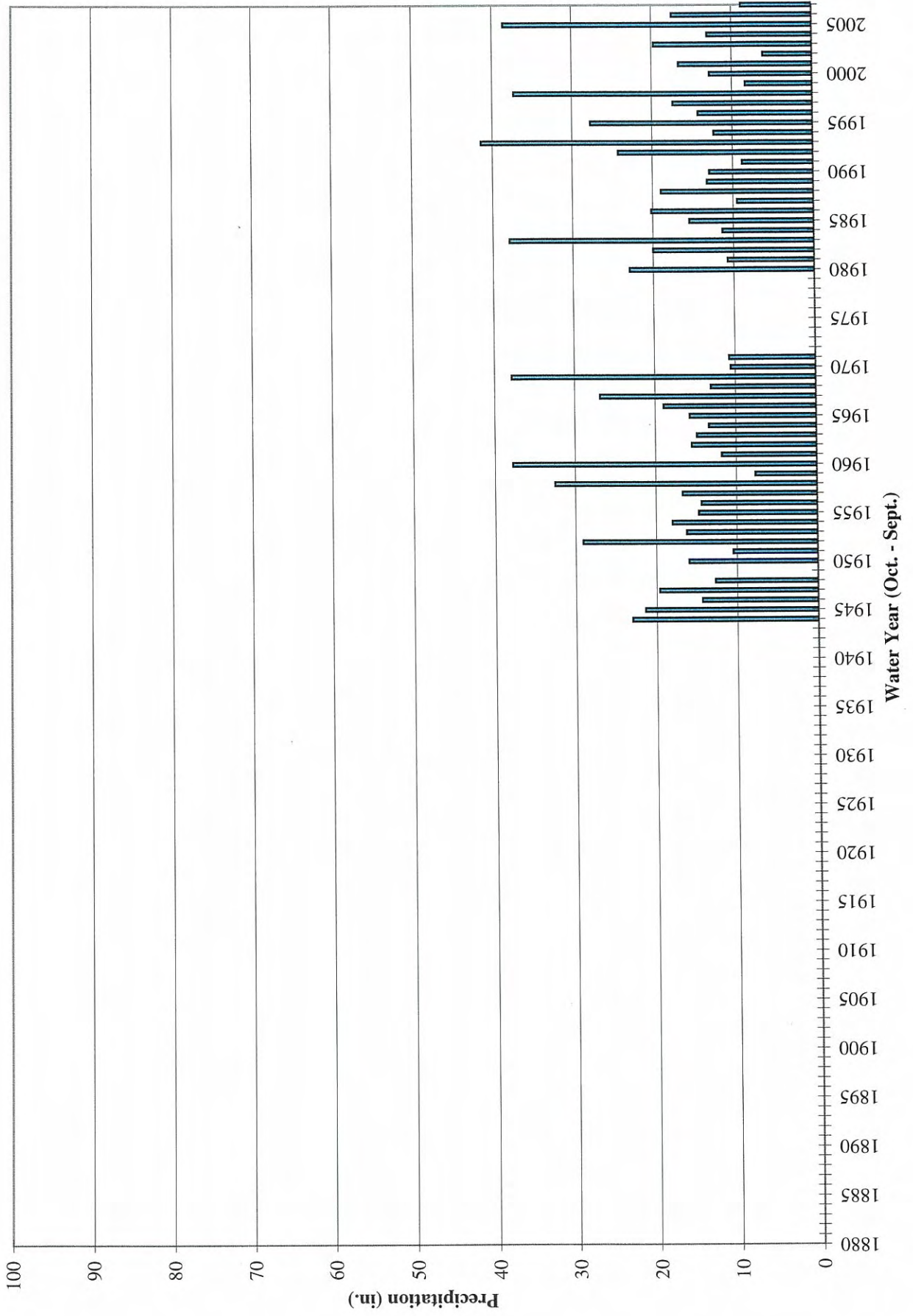
Historic Annual Precipitation

Crafton Hills

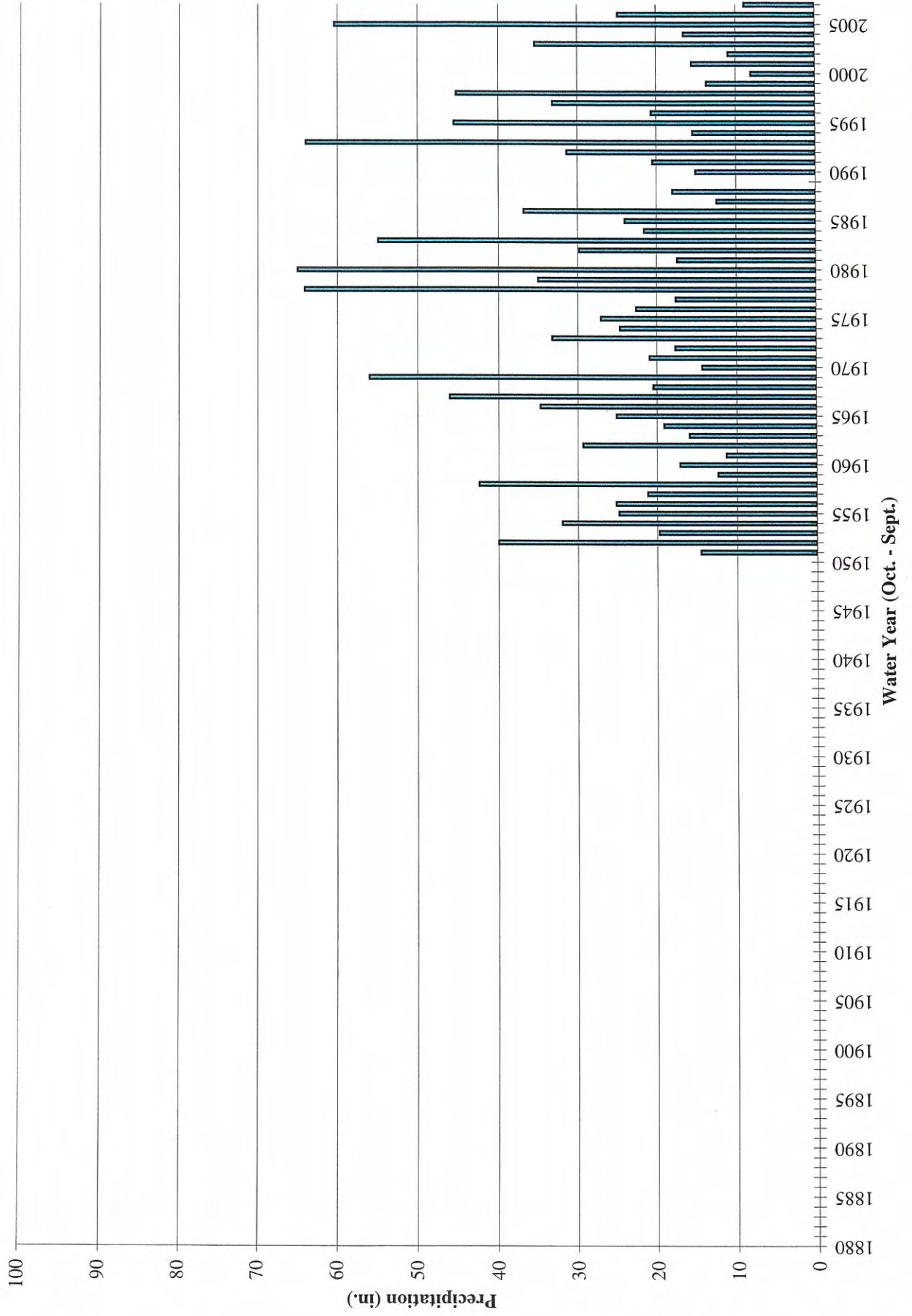


Historic Annual Precipitation

Del Rosa Ranger Station

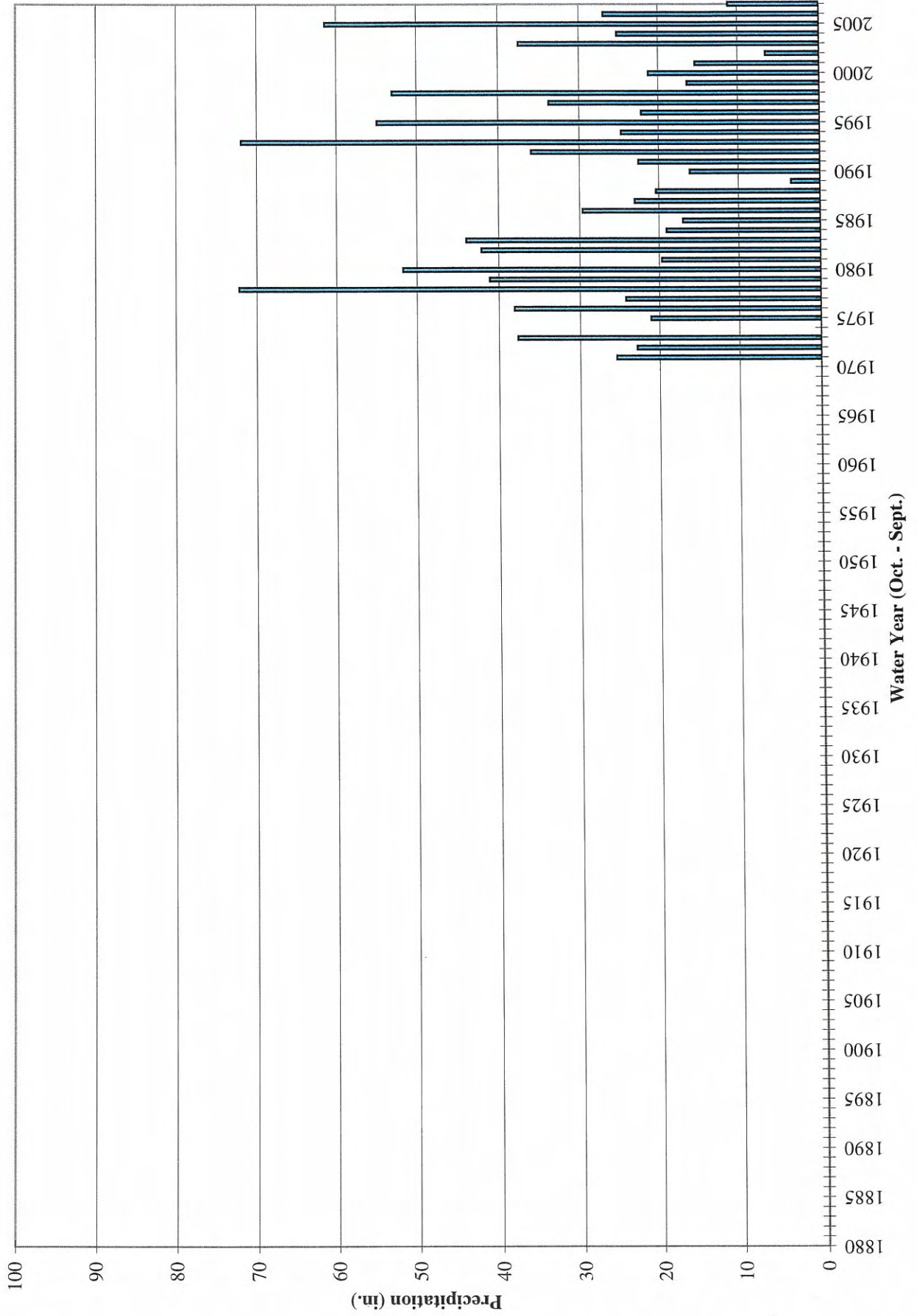


Historic Annual Precipitation *Devore CDF*



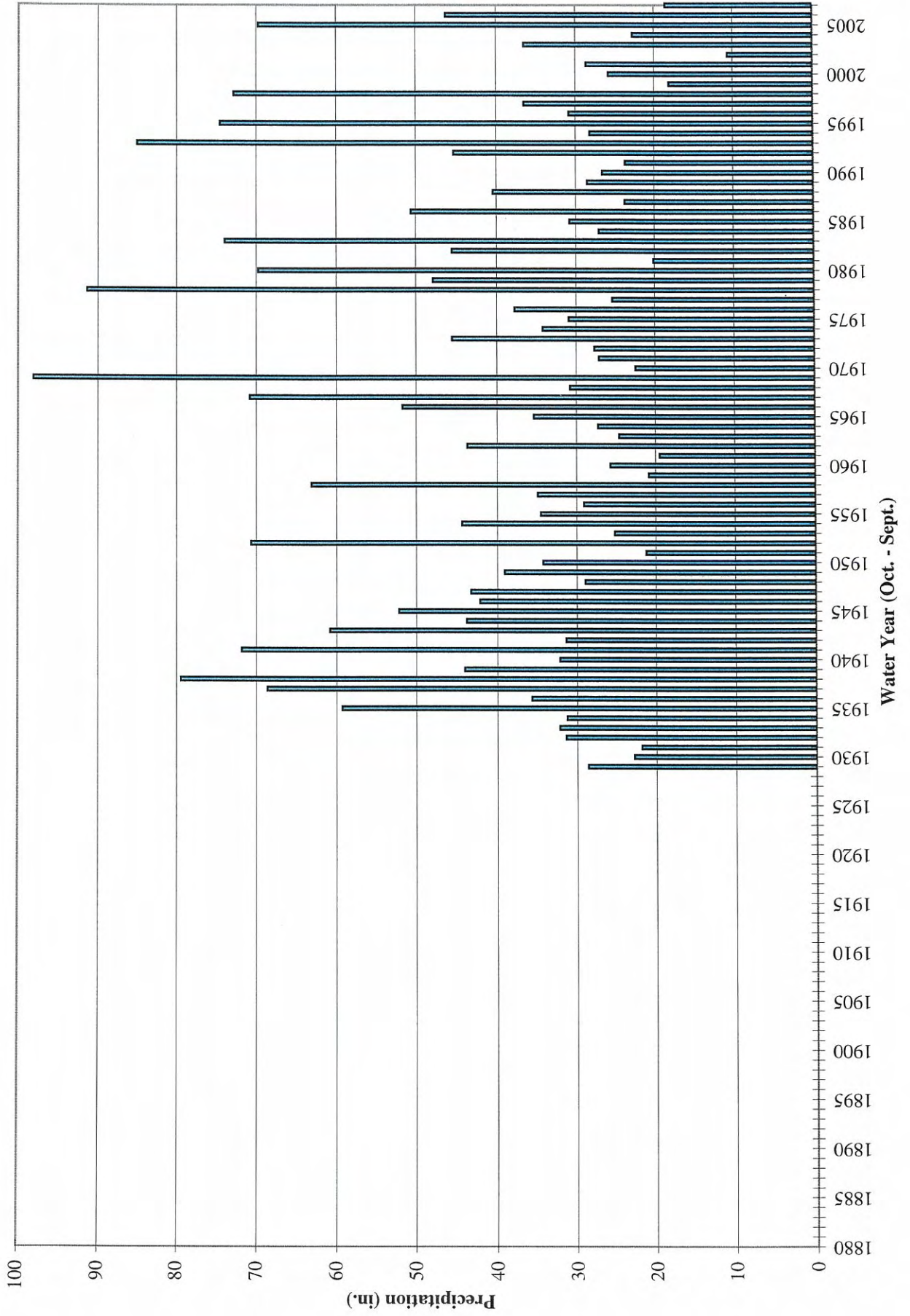
Historic Annual Precipitation

Fallsvale



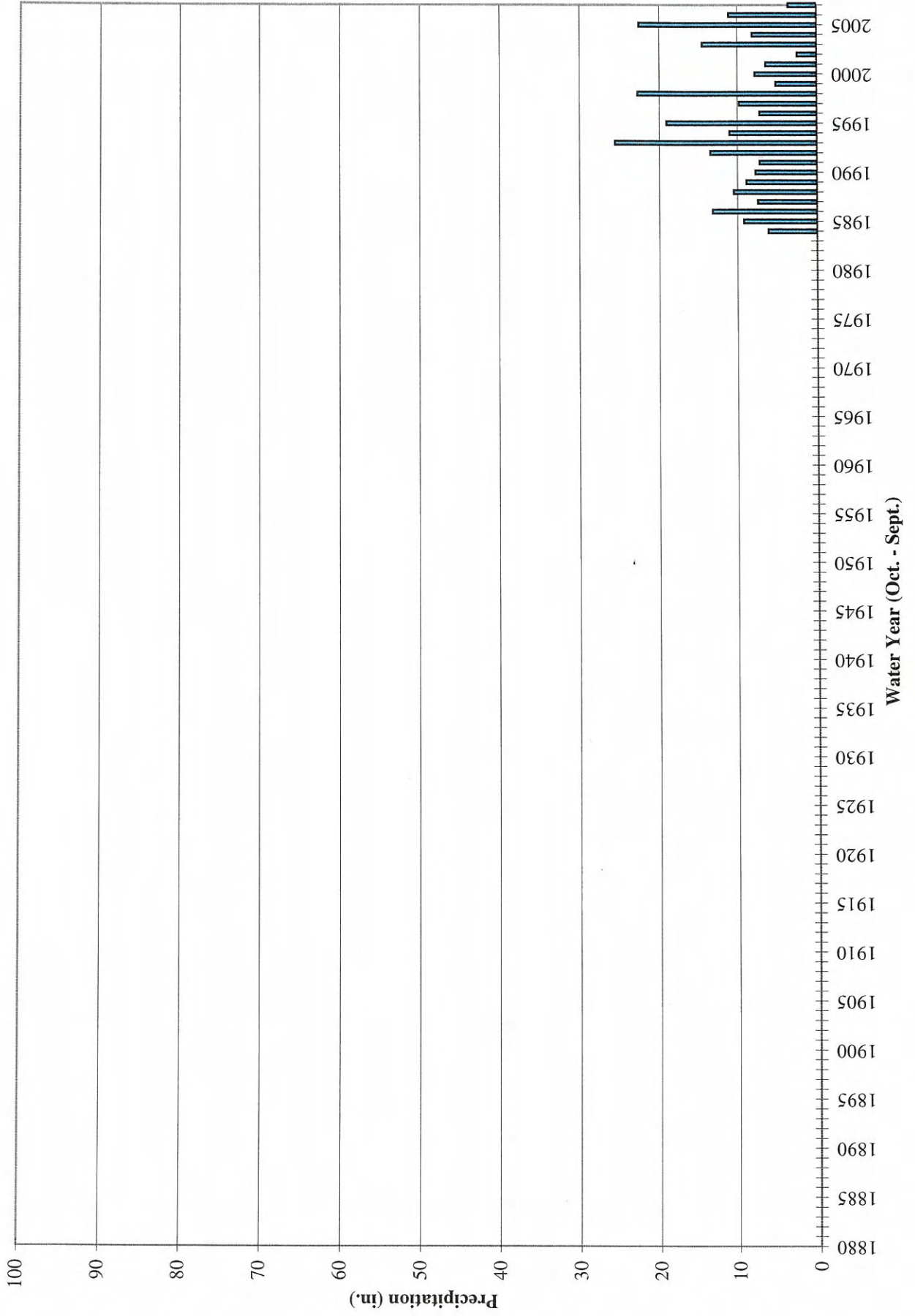
Historic Annual Precipitation

Lake Arrowhead



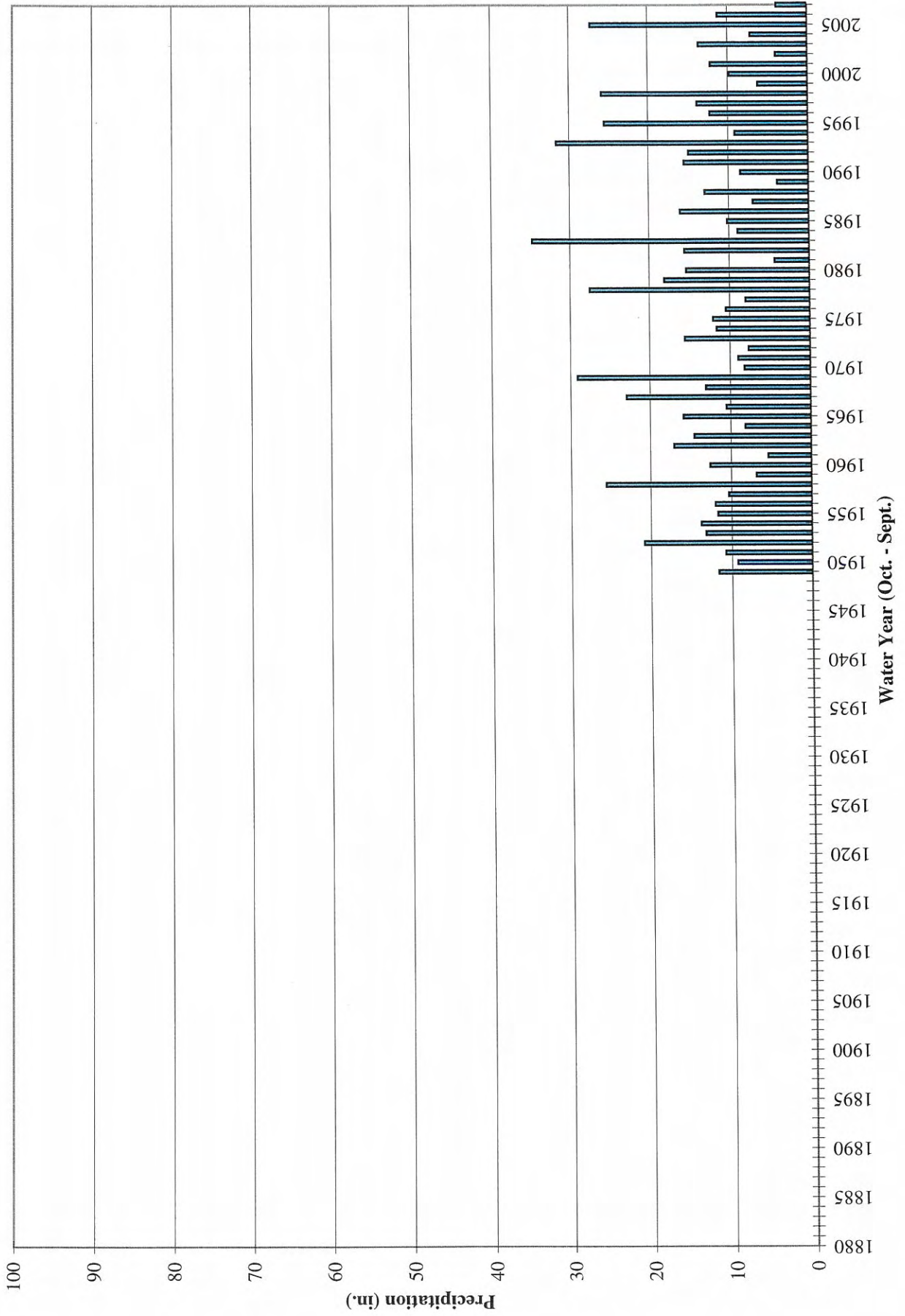
Historic Annual Precipitation

Loma Linda Fire Department



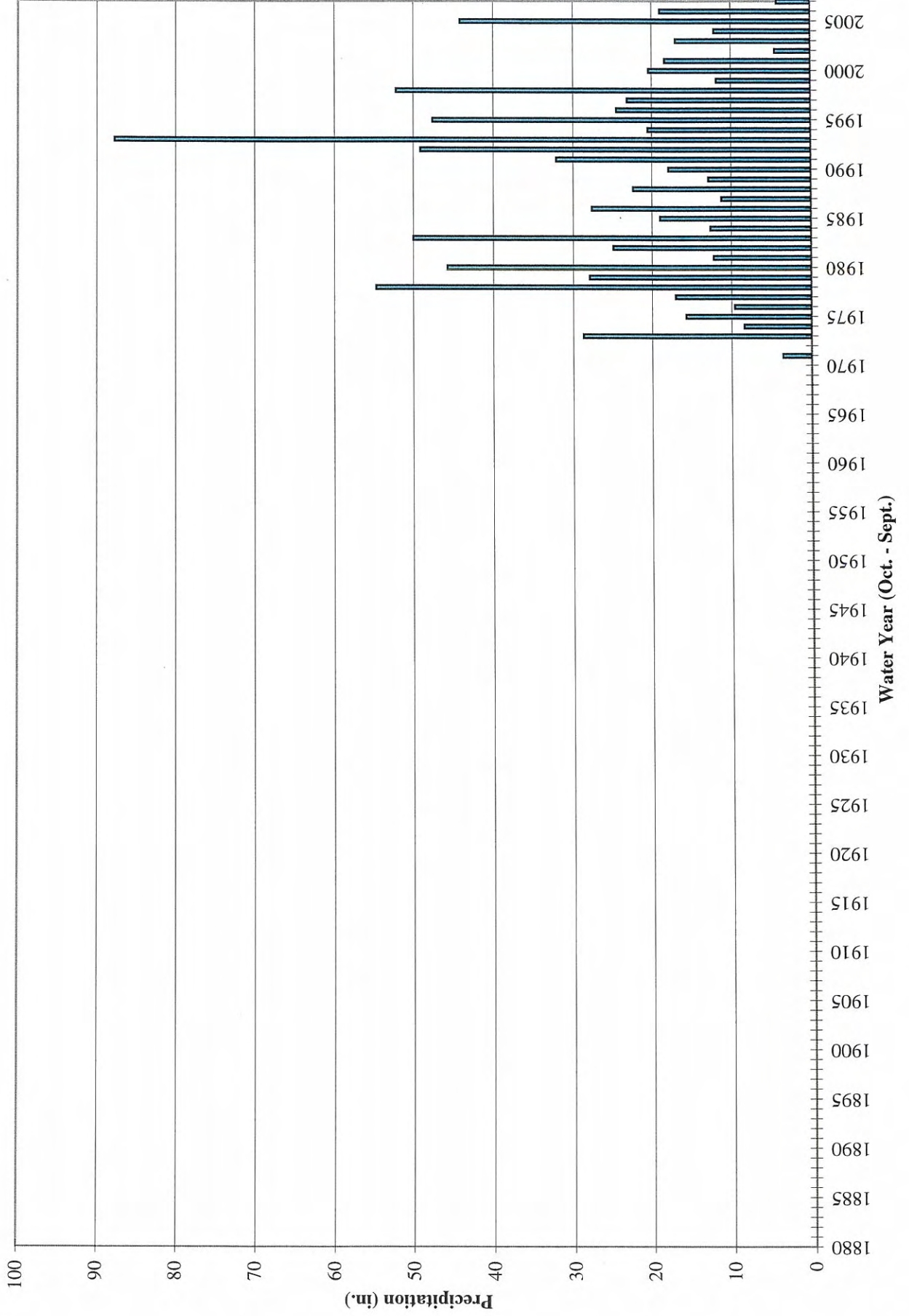
Historic Annual Precipitation

Lytle Creek at Foothill Blvd.



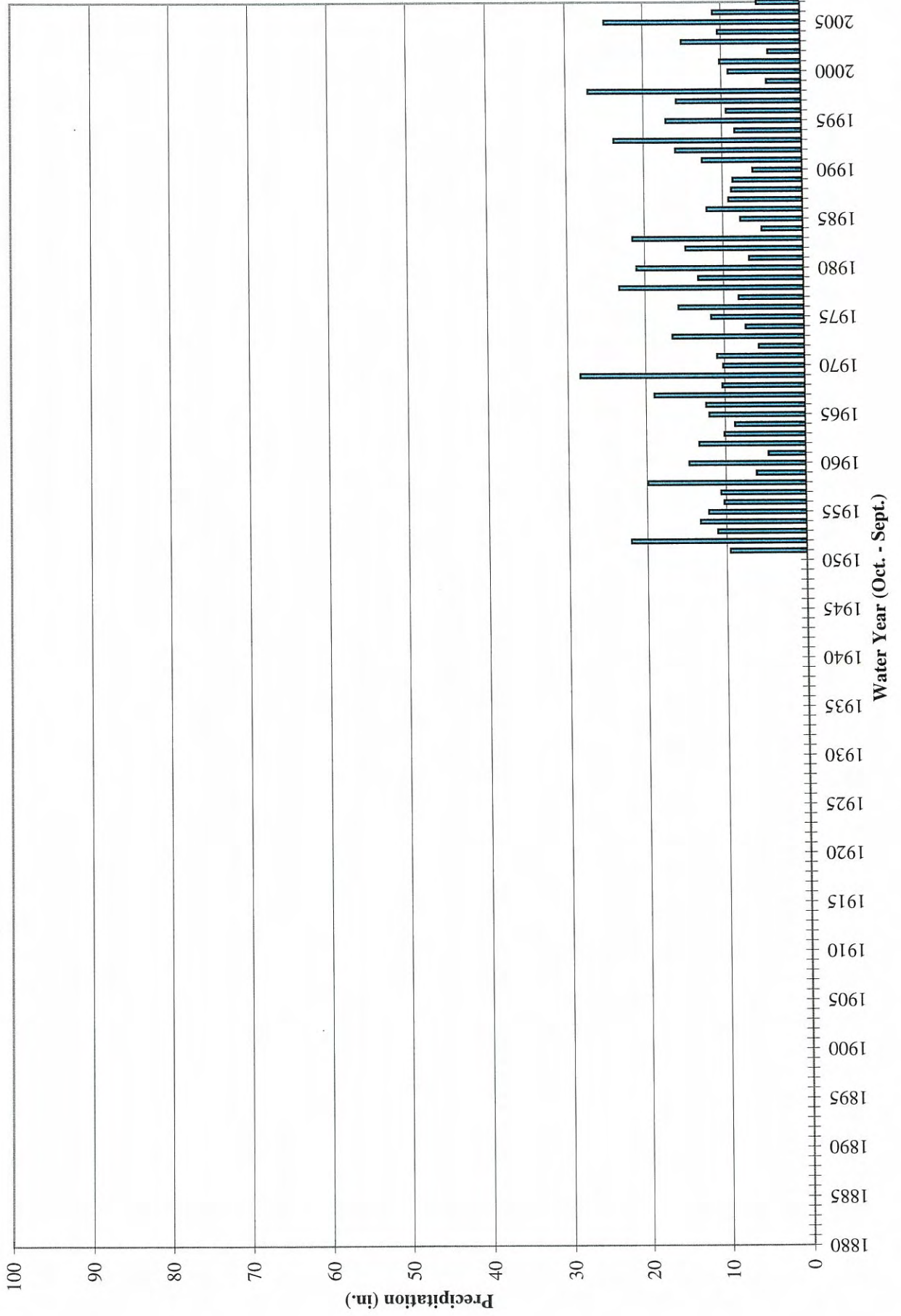
Historic Annual Precipitation

Lytle Creek Fire Station



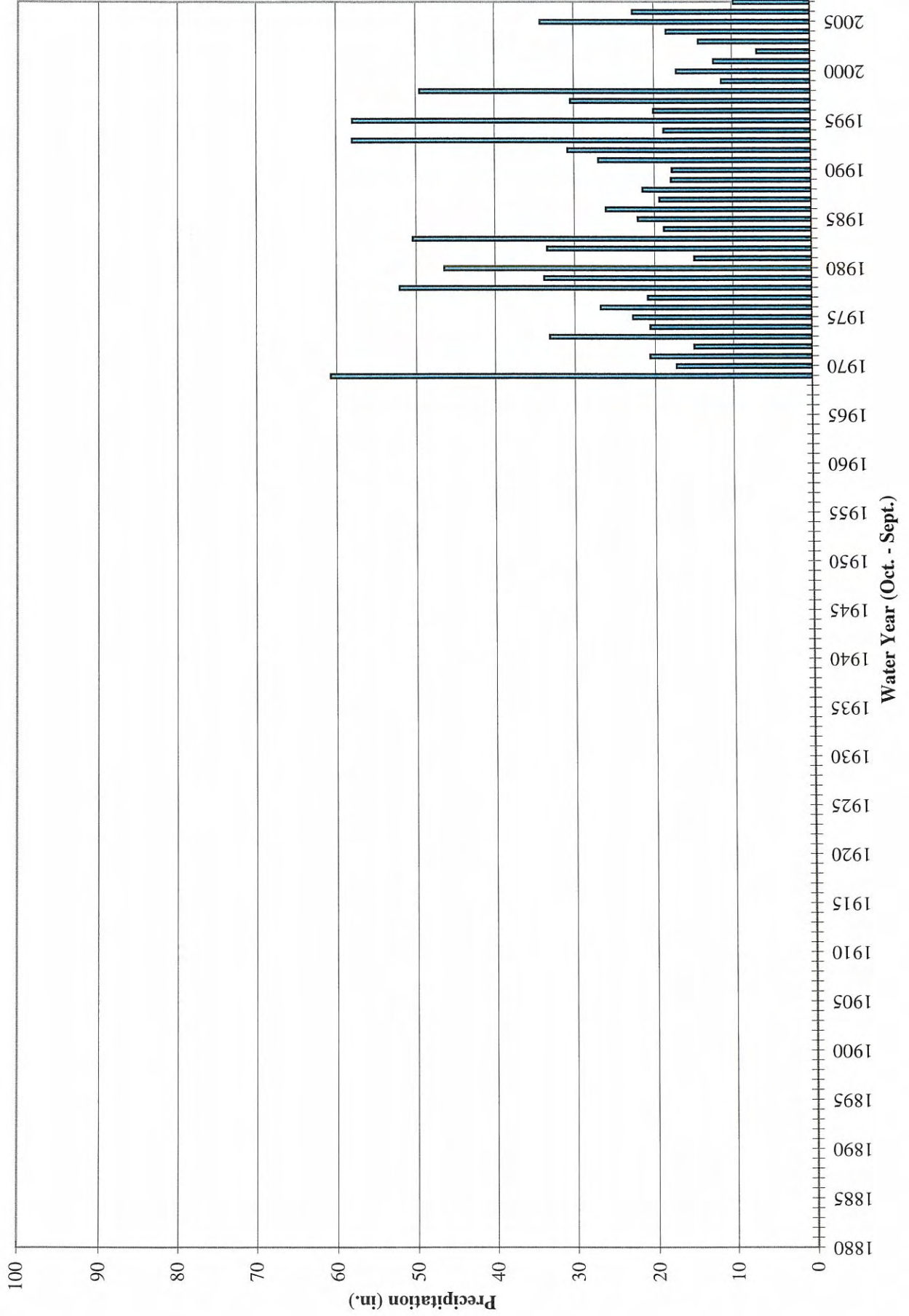
Historic Annual Precipitation

Mentone CDF



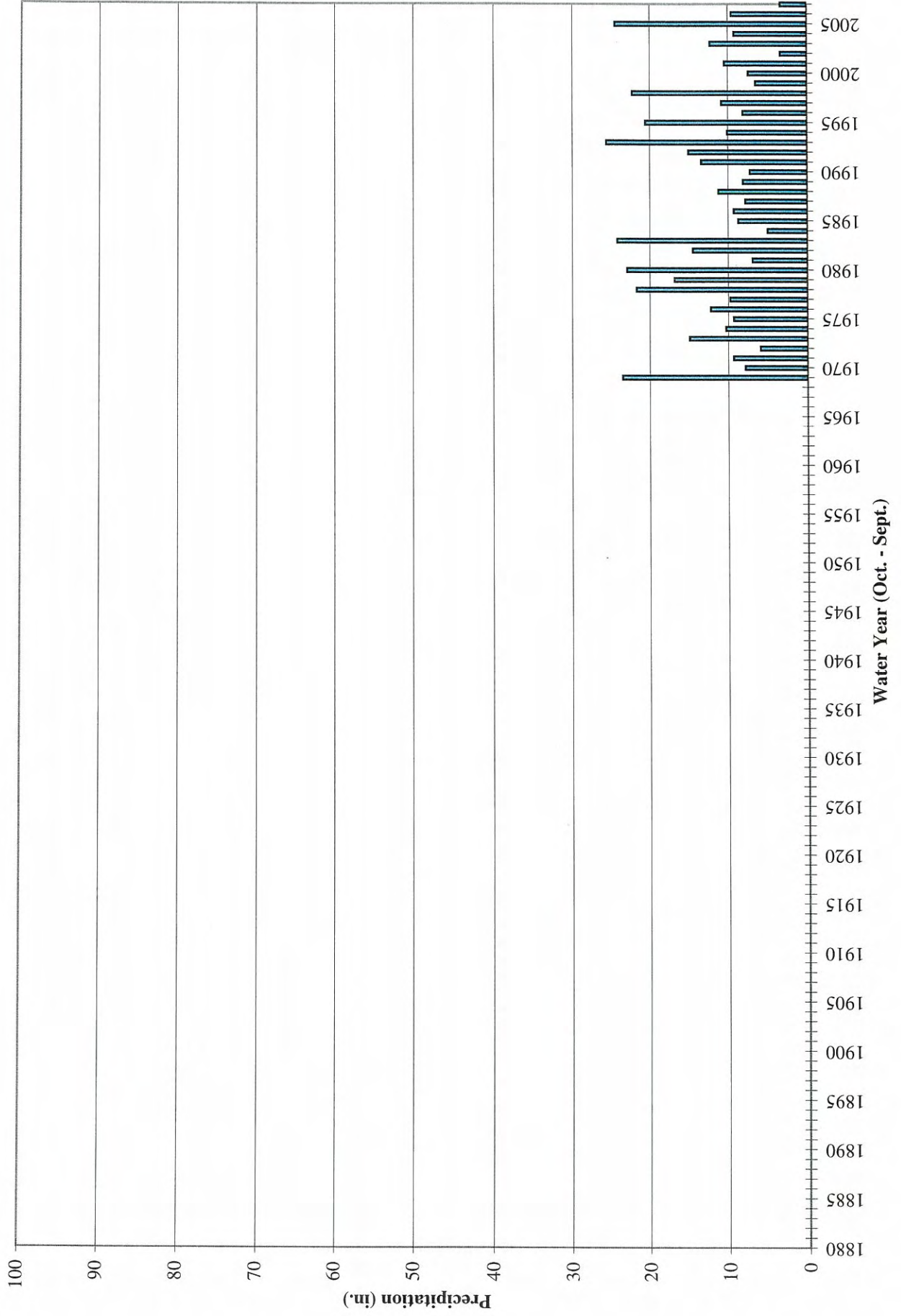
Historic Annual Precipitation

Oak Glen



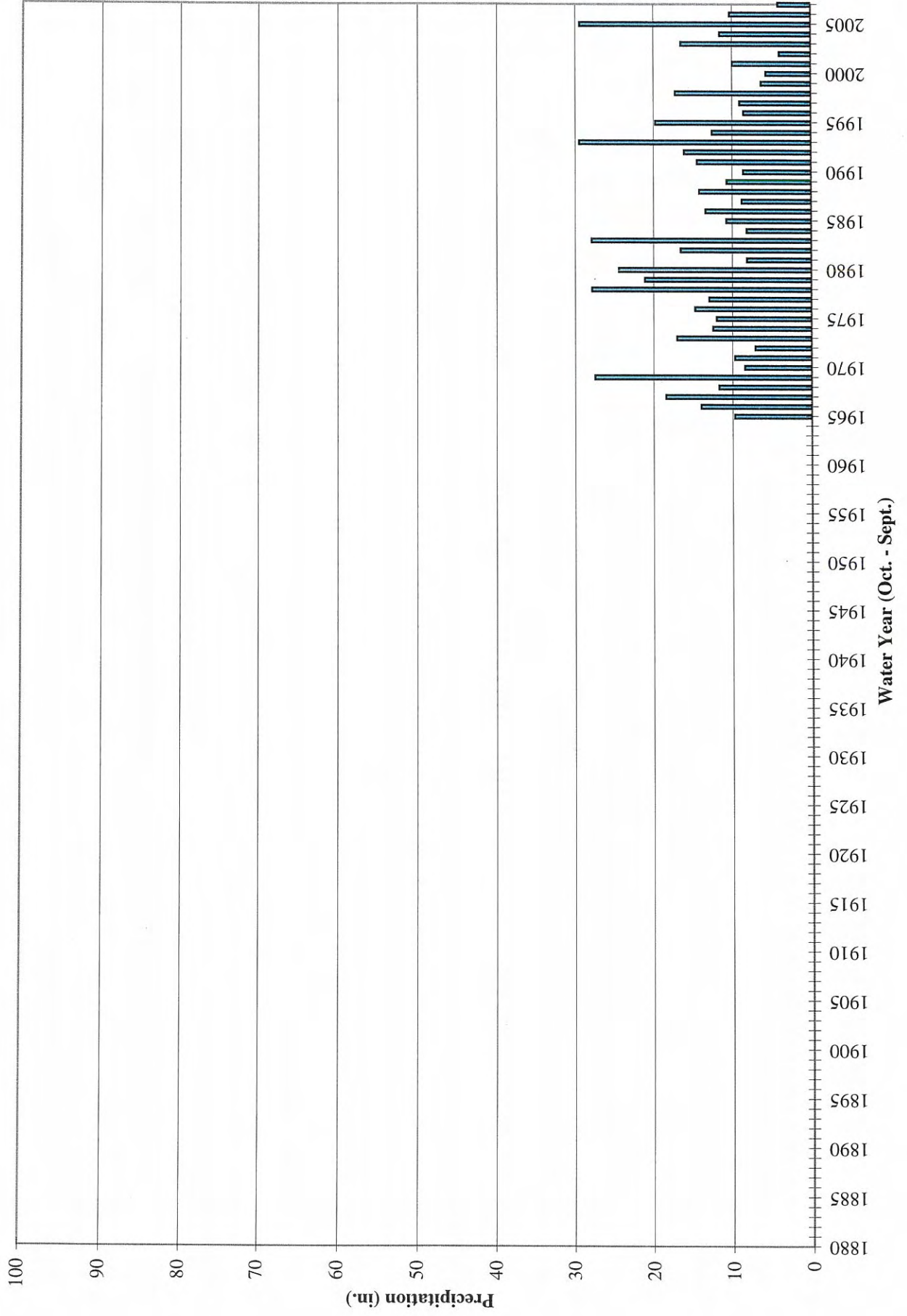
Historic Annual Precipitation

Redlands - Roth



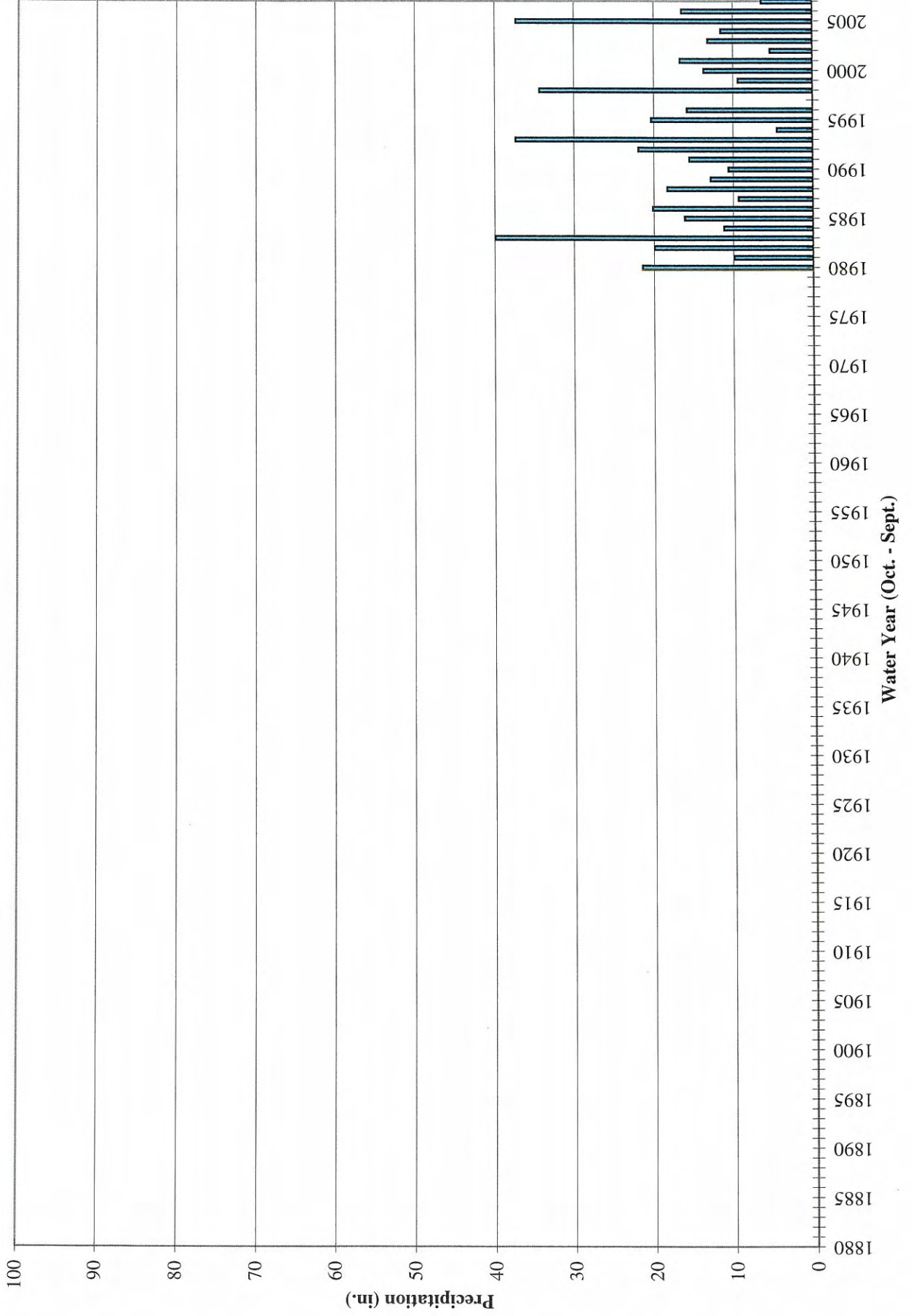
Historic Annual Precipitation

Redlands Country Club



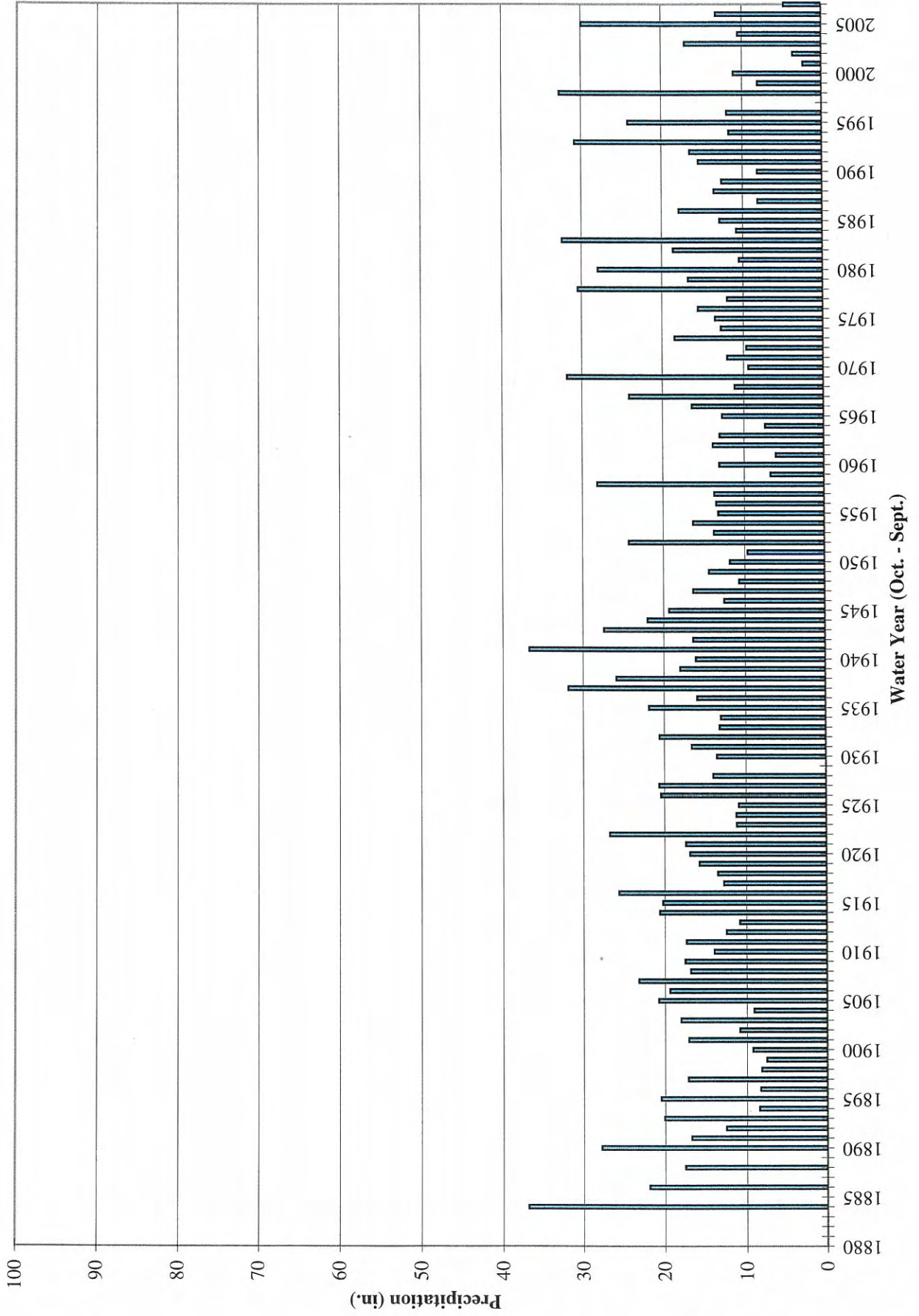
Historic Annual Precipitation

San Bernardino CDF



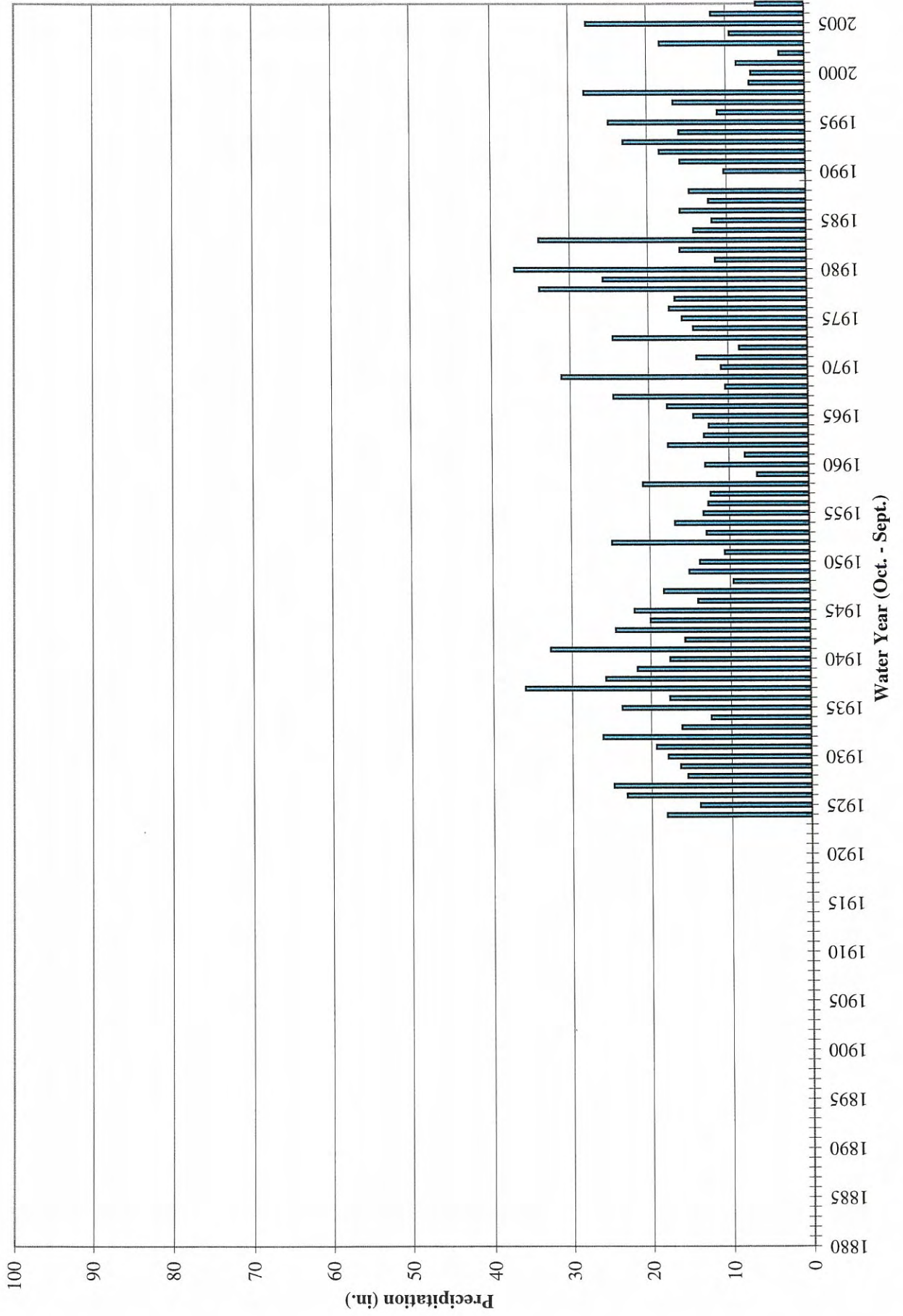
Historic Annual Precipitation

San Bernardino County Hospital



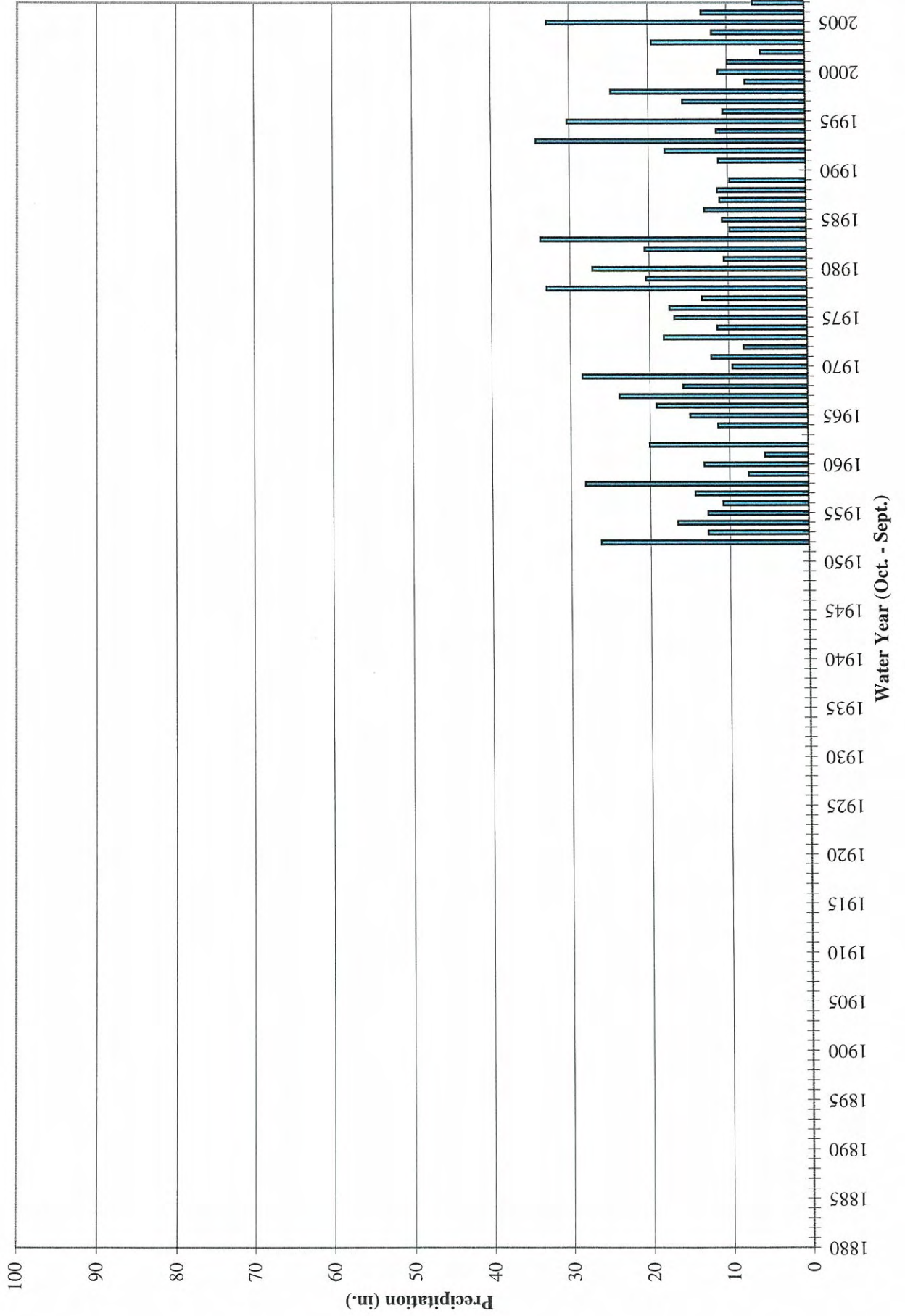
Historic Annual Precipitation

Santa Ana Powerhouse #3



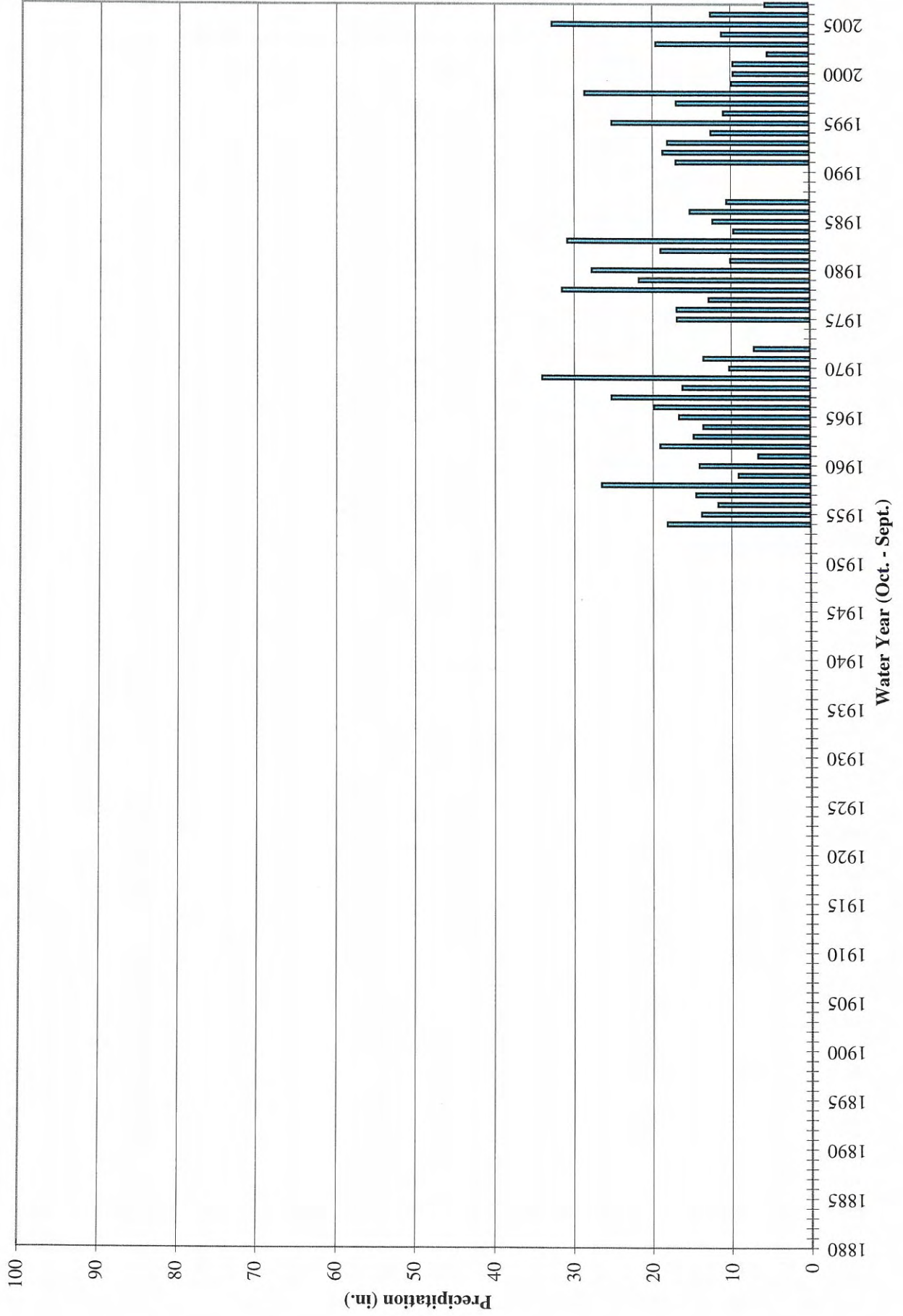
Historic Annual Precipitation

Yucaipa CDF



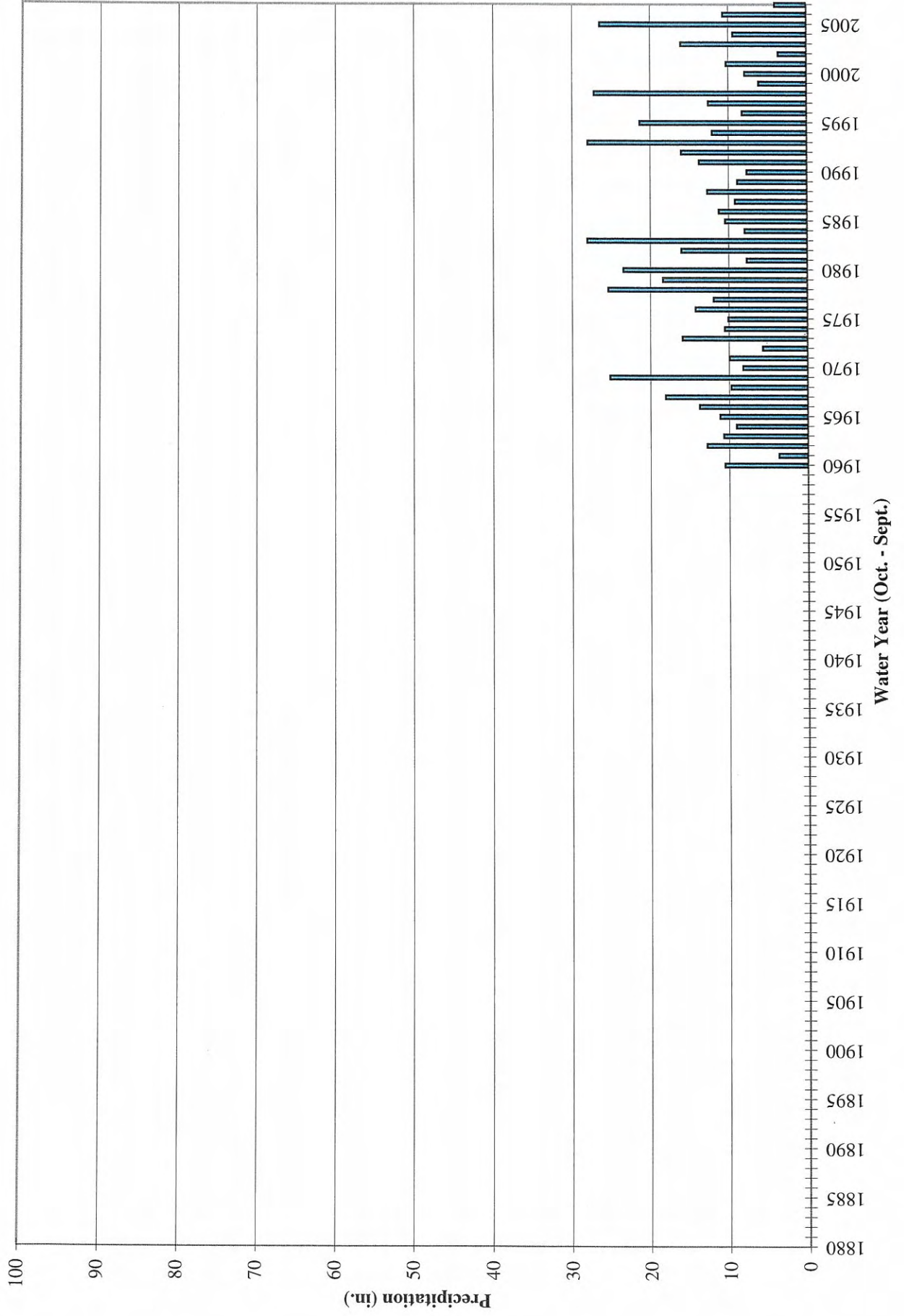
Historic Annual Precipitation

Yucaipa Valley Water District



Historic Annual Precipitation

Redlands Daily Facts



Historic Annual Precipitation

Big Bear City

