# Lake Elsinore Replenishment Level Study Alternative Analysis

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*Prepared for:*
**The Elsinore Valley Municipal Water District**

*Prepared by:*

TETRA TECH, INC.
Infrastructure Services Group

## EXECUTIVE SUMMARY

The Elsinore Valley Municipal Water District has a direct interest in the maximum lake replenishment level as specified in the Lake Management Plan. An increase in the lake replenishment level would improve the water quality of the lake. This study was completed in order to determine the impacts of different lake replenishment levels on the 100-year water surface elevation.

The Los Angeles District of the Corps of Engineers (LADCOE) completed a Definite Project Report (DPR) in 1988 recommending an improved Lake Elsinore outlet channel with a sill at elevation 1255. This project was economically justified with a 100-year maximum lake elevation of 1262.0. The City of Elsinore and Elsinore Valley Municipal Water District constructed the Lake Management Plan in 1991-1992, which divided the Lake into a Main Lake and a Back Basin with Back Basin weir having an ultimate elevation of 1262.0. LADCOE published a Supplemental Report to the DPR in 1991 that took into account the Lake Management Plan. This report established a 100-year maximum lake elevation of 1263.3 based on an outlet channel with a sill at 1255 and a lake replenishment level of 1240. The Local Cooperation Agreement (LCA) between LADCOE and Riverside County Flood Control and Water Conservation District (RCFC&WCD) was based on this configuration. The outlet channel improvements were completed in October 1994.

The Lake Management Plan sponsors have a need to establish a more flexible upper limit of lake operating level for water quality and environmental reasons and for operational considerations. Black & Veatch (B&V) completed the *Lake Elsinore Operating Range Report* in 1995. This report stated that a lake replenishment level of 1245 would result in no appreciable difference in computed maximum water surface elevations for extreme events within the historical record. The report also hinted that "make-up" water could be added to elevation 1249 toward the end of the rainy season with no adverse impacts. LADCOE reviewed the B&V report under a Memorandum of Agreement with RCFC&WCD and submitted a report in 1997. The LADCOE report stated that for a replenishment level up to elevation 1245, there would be no impact on the 100-year maximum lake elevation, but there would be an impact of higher 100-year water surface elevations for replenishment levels of 1247 and 1249. The report further stated that there would be downstream impacts for operating levels of 1245 and higher.

Our analysis builds on the previous work utilizing essentially the same basic HEC-5 computer models and routing procedures while extending the period of analysis through year 1999, giving 84 years of record upon which to base probability-elevation estimates for various lake operating levels. Using the latest PC version of HEC-5, which provides evaporation output data for short duration routings, the simulation results for the existing condition lake replenishment level of 1240 were found to be consistent with previous results.

Period of record analyses were performed for maximum lake operating levels from 1241 to 1249 in one-foot increments, plus elevation 1248.5. The 84 annual maximum simulated lake elevations were tabulated and ranked, and then the storage-elevations were plotted in an exceedance probability relationship using median plotting positions.

Previous studies by LADCOE and John M. Tettimer and Associates (JMTA) have constructed smooth curves and regression equations to estimate the 100-year maximum lake elevations. In this analysis, however, final results are estimated by constructing a best-fit line for the plotted data. This method is deemed the most appropriate because the distribution of the data cannot be defined by a smooth graphical curve or an analytical expression on account of the regulated nature of the data. With 84 years of record, the largest event plots beyond the 100-year exceedance frequency thereby providing a firm value for the 100-year lake elevation estimate. This method has no predictive qualities and cannot be used to estimate values beyond the range of data.

Based on this best-fit analysis, a lake replenishment level of up to elevation 1248.5 will result in an estimated 100-year maximum lake elevation of 1263.3, which is the current accepted 100-year maximum lake elevation. A lake replenishment level of 1249 will result in a 100-year estimated maximum lake elevation of 1263.42.

There are downstream increases in flow magnitude and duration for all alternative operating levels higher than 1240. This report does not address any specific impacts, but provides tables of flow magnitude and duration for lake replenishment levels of 1240, 1245, 1247, and 1249 for the 14 events in the period of record that produce lake outflow.

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# 1 General

## 1.1 Authorization

This study was authorized under the memo of understanding entitled "Scope and Fee Proposal, Lake Elsinore Replenishment Level Alternative Analysis" from Tetra Tech ISG, Inc. to Elsinore Valley Water District, dated August 28, 2000.

## 1.2 Purpose and Scope

The purpose of this report is to document the results of analyses performed to determine the impact on maximum Lake Elsinore water surface elevations for lake replenishment levels (LRL) from elevation 1241 to 1249.

This study incorporates higher lake replenishment levels without actually modeling inflow of "make-up" water or identifying any specific source of water. Likewise, consistent with previous studies, any floodwaters diverted to the back basin are not routed back into the system. The tasks involved include:

1. Adding the years from 1994 to 1999 to the model period of record.
2. Determining the baseline 100-year lake elevation with the longer period of record.
3. Verifying the consistency of results with those reported in previous work by others.
4. Analyzing the alternative lake replenishment levels.
5. Analyzing the outflow peak discharge and duration for selected alternatives.

# 2 Description of Previous HEC-5 Model

The HEC-5 model of Lake Elsinore is a cumulative work contributed to by a number of different agencies. The goal of the HEC-5 model is to help evaluate the effects of different lake management strategies. The Los Angeles District of the Corps of Engineers constructed the original HEC-5 model with results documented in the 1988 DPR. This was followed by an effort by Black & Veatch Engineers from 1990 to 1995 that was later modified by the Riverside County Flood Control and Water Conservation District and John M. Tettimer and Associates in 1999.

LADCOE constructed a HEC-5 model to simulate the historical period of record from 1916 to 1985. The model was constructed to match historical and recorded lake water surface elevations. To construct the model, lake inflow from United States Geological Survey (USGS) gage station number 11070500, located at San Jacinto River near Elsinore, California, was adjusted so that the model results matched the historical lake

water surface elevations. Precipitation and evaporation were combined to arrive at net evaporation in the model. This model was constructed to simulate natural conditions, i.e., no lake management practices, and to evaluate impacts of outlet channel alternatives. An initial starting water surface elevation of 1245.73 was used. This water surface elevation was the lake elevation on January 1, 1916, as recorded by the USGS.

In 1995, Black & Veatch (B&V) completed an analysis of Lake Elsinore for the Elsinore Valley Municipal Water District (EVMWD) to determine the optimum operating ranges for the lake. This study built on the HEC-5 model that was previously prepared by LADCOE. The model was modified to reflect the Lake Management Plan.

The water years of 1986 to 1993 were added to the model to create a continuous period of record of 78 years as part of the B&V study. The methodology used differed from that used by LADCOE in the original study. Net evaporation in the model was determined from combining the recorded precipitation and pan evaporation for the study area. The precipitation data from the Lake Elsinore rain gage were used. The San Jacinto River gage records were adjusted upward by 1.06 to account for the additional area between the lake and gage. No verification was performed. In order to simulate the effects of the addition of water to keep the lake elevation at a desired lake level, the study used minimum lake replenishment levels of 1240 to 1249.

The B&V HEC-5 model was actually composed of three separate models: A, B, and C. The series of models was necessary since Lake Elsinore was divided into a main lake and a back basin by the Lake Management Plan. Since the back basin received San Jacinto River flow only under extreme conditions, separate models were constructed to account for the different possible scenarios.

Model A was the primary model used in the simulation of the majority of the period of record. The model is valid for lake water surface elevations up to 1262.0 in the main lake. The model uses net evaporation and gaged inflow, while outflow is only through the outlet channel. Once the main lake water surface elevation reaches the overflow weir to the back basin at 1262.0, water would start to flow into the back basin and Model A would no longer be valid.

Once the water surface elevation of the main lake reaches 1262.0, Model B is utilized. Starting modeling parameters are manually transferred from Model A. Model B takes into account the flow over the overflow weir, in addition to the flow in the outlet channel. Model B is used until either (1) the water surface elevation in the main lake decreases to 1262.0 and flows to the back basin stop, at which point Model A again becomes valid, or (2) the water surface in the main lake and back basin equalize, and Model C becomes valid.

Once the main lake and back basin have equalized, Model C takes effect and both basins are modeled as a single storage volume. Starting parameters are manually transferred from Model B. Model C remains valid until the water surface elevation is lowered to below 1262.0, and the hydraulic connection between the main lake and back basin is

severed. Model A becomes valid once again and starting parameters are transferred to Model A.

RCFC&WCD and JMTA subsequently modified the B&V model to determine the effects of the proposed Liberty Project in the back basin. In addition, the capacities of the outlet channel and overflow weir and the storage volumes of both the main lake and back basin were updated during this study. This study resulted in an estimated 100-year lake water surface elevation of 1263.3.

## 3 Description of the Tetra Tech Model

This report documents the update and revision of the JMTA model for the Elsinore Valley Municipal Water District (EVMWD). For this study, the water years from 1994 to 1999 were added to the period of record and the effects of different lake replenishment level (LRL) alternatives from 1241 to 1249 were analyzed.

### 3.1 Model Input

The daily evaporation and precipitation data were combined to arrive at a net daily evaporation, which was input into the HEC-5 model. The daily precipitation record was obtained through the RCFC&WCD for National Weather Service station number 04-2805 located at the County Fire Station. The monthly evaporation data was obtained from pan evaporation studies as reported in *The Final Report of the Recommended Lake Operating Range* (ref. a). The monthly evaporation data was divided by the number of days in the month to obtain the daily evaporation data. The daily precipitation data was then subtracted to arrive at the net daily evaporation.

The runoff discharges in the past studies were determined by two methods. For this study, verification tests were done to confirm the applicability of the B&V methodology. The B&V study applied a ratio of 1.06 to the discharges used in the study. This was originally done to account for the watershed area between the gage and the lake, although no verification of its applicability was done. A sensitivity analysis on this ratio applied to the runoff was performed. Runoff data was obtained from USGS gage station number 11070500, located at San Jacinto River near Elsinore, California.

### 3.2 Verification Tests

The JMTA model was constructed using two different methodologies: the LADCOE 1916 to 1985 and B&V 1986 to 1993. In order to ensure that the methodology used in this study is valid, a verification analysis was run on the 1993 and 1995 events. The model was updated to mirror the conditions that existed at the time of the events. The period of record data used in the verification tests was the daily precipitation data, monthly evaporation data, and daily average runoff discharges.

The 1993 event occurred after the dike completion, but prior to closure of the system breach. The daily net evaporation and runoff for the period of record from January 1, 1993, to August 31, 1993, were input into the model. A starting water surface elevation

of 1229.36 for January 1, 1993, from recorded water surface elevations, was used. The HEC-5 model parameters such as storage volume and outlet capacity from the original LADCOE report were used. Ratios ranging from 0.95 to 1.06 were applied to the daily average discharges for the 1993 event. The model was run and the lake water surface elevations were compared to staff gage readings kept by the RCFC&WCD. The ratio of 1.06 matched the reading from January and February well, though it overestimated the remainder of the storm event. During periods of local runoff, the ratio of 1.06 is appropriate, but a ratio of 1.00 is appropriate during periods of no local runoff. However, the ratio of 1.06 was applied all flows from 1986 to 1993 to be consistent with past studies.

In 1995 the closure of the system breach was completed, and a notch in the levee at 1262 served as the overflow weir. The daily precipitation, evaporation, and runoff for the period of record from January 6, 1995, to June 19, 1995, were input into the model. A starting water surface elevation of 1252.51' for January 6, 1995, from recorded water surface elevations, was used. The current outlet channel was completed in October 1994 and the model parameters for outlet capacity from the JMTA report were used. Ratios ranging from 0.95 to 1.06 were applied the daily average discharges for the 1995 event.

It was found that the best results occurred when a ratio of 1.06 was applied to the peak runoff months, January and February, of the 1995 flood event, and the actual gage data was used for the remainder of the 1994 to 1999 period.

The additional years of record were added using rainfall from the National Weather Service station number 04-2805, located at the County Fire Station. The source of the runoff data was the USGS gage station number 11070500, located at San Jacinto River near Elsinore, California.

## 4 Comparison With Previous Analysis

A new version of HEC-5, version 8.0, was released between the JMTA and the Tetra Tech studies. This newer version included changes to the way the model displays the evaporation component. The JMTA model was modified for the new version and run to see if there were any changes in the results. Table 1 lists both the JMTA and Tetra Tech results through 1993. As can be seen in Table 1, the maximum difference in water surface elevation is 0.28 feet during water year 1978, which is the tenth largest event and could have minimal impact on the 100-year water surface elevation. The remainder of the water years had a maximum difference of under 0.08 feet with many at zero. The differences are not significant, and the results with version 8.0 are considered to be consistent with previous results.

The present Tetra Tech model, using the historical period of 1916 to 1999, provided simulated results for the existing lake management level of 1240. Table 2 lists the resulting annual maximum water surface elevations using the Tetra Tech model. The addition of the 1994 to 1999 record and updated probability analysis resulted in an estimated 100-year water surface level of 1263.10 feet, a decrease of 0.20 feet from the previously established 100-year elevation of 1263.3. The 100-year water surface elevation was determined using a best-fit graphical analysis. The logic and procedure is described in more detail in Section 5.

## 5 Simulations and Simulation Results

The Tetra Tech model was run for alternative lake replenishment levels (LRL) from 1240 to 1249 in one-foot increments. The simulated annual maximum lake elevations for the historic period of record were tabulated from the models. The 100-year lake water surface elevations were determined for each alternative by probability analysis of annual maximum elevation.

Tables 2 through 11 list the annual maximum lake water surface elevations for the historic period from 1916 to 1999 for each LRL alternative. The tables list the data in both chronological order and ranked in order of magnitude. For each water year, the annual maximum lake surface elevation, the amount of storage above the LRL, and the total lake storage are presented. The ranked results are in order from the largest to smallest. The ranking, along with the median plotting position and probability percent, are also listed in the tables. The data from the tables was used to create storage-elevation-frequency plots for all of the lake replenishment levels studied. Figures 1 through 10 show the resulting storage-elevation-frequency plots for LRL alternatives 1240 to 1249.

The primary objective of this study was to determine the 100-year water surface elevations for each of the LRL alternatives. Previous work by JMTA determined the 100-year lake water surface using a fifth order regression of the annual maximum water surface elevations. Their approach was a best-fit analytical technique but with the equation parameters having no relationship to the physical situation. This resulted in a 100-year water surface elevation of 1263.3. LADCOE used a smooth best-fit graphical curve to define the storage-elevation-probability relationships in all their studies. The 1991 supplement of the DPR established a 100-year water surface elevation of 1263.3.

It is standard practice to determine discharge-probability relationships by analytical methods where unregulated runoff data distribution can be defined by mean, standard deviation, and skew. This analytical approach has the additional capability of predicting rare values from a small data sample. However, in the case of Lake Elsinore, with 84 years of data, the 100-year value can be determined without a predictive equation. In addition, the simulated annual maximum storage-elevation values for Lake Elsinore are highly regulated by discontinuities in both the storage and outflow relationships. Because of discontinuous storage and outflow relationships plus replenishment levels, the resulting annual maximum data does not fit any defined relationship on which to construct an analytical curve. It is also impossible to construct a smooth graphical curve that recognizes the discontinuities. Therefore, a best-fit graphical line was constructed which essentially passes through all the plotted data points.

## 6 Study Results

A best-fit graphical method was used to determine the 100-year water surface elevations, since no analytical method was deemed appropriate or possible. The largest event plots beyond the 100-year mark based on a period of record of 84 years. This provides an estimate of the 100-year water surface elevation for each alternative LRL without having to extend a line beyond the range of the data. Figures 1 through 10 show a best-fit line and the plotted data with an inset that displays the results where the line crosses the 1% probability. The inset distorts the slope of the best-fit line because of the expanded storage scale. However, this allows an exact and consistent determination of the 100-year water surface elevation for each LRL alternative. Table 12 lists the estimated 100-year lake water surface elevation for each of the alternative lake replenishment levels.

**Table 12. 100-Year Water Surface Elevations for Lake Replenishment Levels**

| Lake Replenishment Level | 100-Year Water Surface Elevation |
|---|---|
| 1240 Previously Established | 1263.30 |
| 1240-1245 | 1263.10 |
| 1246 | 1263.11 |
| 1247 | 1263.14 |
| 1248 | 1263.16 |
| 1248.5 | 1263.30 |
| 1249 | 1263.42 |

Listed in Table 12 above, the 100-year lake water surface elevation for the 1240 event is 0.20 feet lower than the previously established 100-year lake elevation of 1263.3. This is due to the additional period of record added in this study and the use of a best-fit graphical approach to estimate the 100-year water surface elevation. The smooth graphical COE curve and the analytical curves used by JMTA undercut the second largest event and overrode the largest event in the period of record. Under the current regulated condition there is no hydrologic reason or physical basis for undercutting the second highest data point and overriding the highest data point.

Listed in Table 12, elevation 1263.30 for the LRL alternatives falls between LRL 1248 and LRL 1249. The second ranked event for all LRL alternatives is the 1980 event with a maximum elevation of 1263.03. The 1980 event does not change with LRL because the preceding year of 1979 ends with a lake elevation of approximately 1252 which is higher than all LRLs simulated. With 1980 being consistent for all alternatives, all that was needed to determine the 100-year water surface elevation was the largest ranked event, the 1916 event. The 1916 event was simulated using lake replenishment levels from 1248.1 to 1248.9 in one-tenth of a foot increments. Figure 11 shows the 1916 event maximum, estimated 100-year water surface, and the previously established 100-year water surface of 1263.3. In addition, an inset contains a table with the numeric results. This analysis results in a lake replenishment level of 1248.5, as seen in Table 12, as being the LRL that results in a maximum 100-year lake elevation of 1263.3

## 7 Downstream Impacts

The effect of changing the lake replenishment levels would not only alter the 100-year water surface elevation, but also would increase the peak flow and duration of the releases in the outlet channel.

Fourteen events in the historical period of record reached the elevation of the outlet channel sill and produced an outflow under the existing LRL of 1240. These same 14 events produce outflow for all LRL alternatives. Tables 13 through 16 list the peak outflow and duration, in days, of selected discharges for the LRL alternatives of 1240, 1245, 1247, and 1249. The difference in the peak flow and duration from the 1240 baseline LRL is also listed in the tables. Table 17 summarizes the increase in peak discharges and duration of indicator discharges from the 1240 baseline LRL. The tables show that maximum change in peak discharge is 174 cfs, 314 cfs, and 507 cfs for LRL 1245, 1247, and 1249, respectively. Figure 12 shows the cumulative discharge exceedance curve for the LRL of 1240, 1245, 1247, and 1249.

# TABLES

| Table 1. Comparison of TTiSG HEC-5 Version 8.0 and JMTA HEC-5 Version 7.0 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Water Year | TTiSG - HEC-5 v 8.0 | | | JMTA - HEC-5 v 7.0 | | | Difference between TTiSG and JMTA Studies |
| | Date | Elevation ft | Storage ac-ft | Date | Elevation ft | Storage ac-ft | |
| 1916 | 1/29/2016 | 1263.11 | 120053 | 1/29/2016 | 1263.11 | 120053 | 0.00 |
| 1917 | 4/1/2017 | 1254.85 | 88565 | 4/1/2017 | 1254.82 | 88461 | 0.03 |
| 1918 | 3/1/2018 | 1254.08 | 85820 | 3/1/2018 | 1254.05 | 85719 | 0.03 |
| 1919 | 10/1/2018 | 1250.75 | 74033 | 10/1/2018 | 1250.72 | 73936 | 0.03 |
| 1920 | 4/1/2020 | 1249.3 | 69033 | 4/1/2020 | 1249.27 | 68940 | 0.03 |
| 1921 | 1/1/2020 | 1246.18 | 58444 | 1/1/2020 | 1246.15 | 58354 | 0.03 |
| 1922 | 3/30/2022 | 1258.68 | 102798 | 3/30/2022 | 1258.67 | 102786 | 0.01 |
| 1923 | 2/1/2023 | 1253.33 | 83141 | 2/1/2023 | 1253.33 | 83140 | 0.00 |
| 1924 | 10/1/2023 | 1249.78 | 70678 | 10/1/2023 | 1249.78 | 70678 | 0.00 |
| 1925 | 10/1/2024 | 1245.98 | 57766 | 10/1/2024 | 1245.98 | 57766 | 0.00 |
| 1926 | 4/1/2026 | 1245.42 | 55893 | 4/1/2026 | 1245.42 | 55895 | 0.00 |
| 1927 | 3/12/2027 | 1258.72 | 102964 | 3/12/2027 | 1258.72 | 102965 | 0.00 |
| 1928 | 10/1/2027 | 1252.89 | 81573 | 10/1/2027 | 1252.89 | 81558 | 0.00 |
| 1929 | 10/1/2028 | 1249.04 | 68129 | 10/1/2028 | 1249.03 | 68116 | 0.01 |
| 1930 | 1/1/1930 | 1245.1 | 54822 | 1/1/1930 | 1245.09 | 54810 | 0.01 |
| 1931 | 2/1/1931 | 1241.9 | 44455 | 2/1/1931 | 1241.9 | 44445 | 0.00 |
| 1932 | 3/1/1932 | 1243.62 | 49980 | 3/1/1932 | 1243.62 | 49980 | 0.00 |
| 1933 | 1/1/1933 | 1240.55 | 40225 | 1/1/1933 | 1240.55 | 40225 | 0.00 |
| 1934 | 1/1/1934 | 1240.2 | 39148 | 1/1/1934 | 1240.2 | 39148 | 0.00 |
| 1935 | 2/1/1935 | 1240.62 | 40431 | 2/1/1935 | 1240.62 | 40431 | 0.00 |
| 1936 | 2/1/1936 | 1240.49 | 40029 | 2/1/1936 | 1240.49 | 40029 | 0.00 |
| 1937 | 4/5/1937 | 1259.26 | 105048 | 4/5/1937 | 1259.26 | 105048 | 0.00 |
| 1938 | 3/19/1938 | 1261.37 | 113199 | 3/19/1938 | 1261.37 | 113198 | 0.00 |
| 1939 | 3/31/1939 | 1255.5 | 90946 | 3/31/1939 | 1255.5 | 90946 | 0.00 |
| 1940 | 2/1/1940 | 1252.57 | 80451 | 2/1/1940 | 1252.57 | 80452 | 0.00 |
| 1941 | 4/22/1941 | 1258.35 | 101563 | 4/22/1941 | 1258.35 | 101580 | 0.00 |
| 1942 | 2/1/1942 | 1254.15 | 86071 | 2/1/1942 | 1254.13 | 85996 | 0.02 |
| 1943 | 3/1/1943 | 1253.33 | 83155 | 3/1/1943 | 1253.31 | 83084 | 0.02 |
| 1944 | 3/1/1944 | 1251.08 | 75193 | 3/1/1944 | 1251.06 | 75126 | 0.02 |
| 1945 | 3/1/1945 | 1247.98 | 64534 | 3/1/1945 | 1247.96 | 64468 | 0.02 |
| 1946 | 12/1/1946 | 1244.56 | 53046 | 12/1/1946 | 1244.54 | 52983 | 0.02 |
| 1947 | 11/1/1946 | 1241.34 | 42686 | 11/1/1946 | 1241.32 | 42628 | 0.02 |
| 1948 | 4/1/1948 | 1240.36 | 39625 | 4/1/1948 | 1240.36 | 39625 | 0.00 |
| 1949 | 1/1/1949 | 1240.35 | 39595 | 1/1/1949 | 1240.35 | 39595 | 0.00 |
| 1950 | 4/1/1950 | 1240.72 | 40753 | 4/1/1950 | 1240.72 | 40753 | 0.00 |
| 1951 | 10/1/1950 | 1240 | 38519 | 10/1/1950 | 1240 | 38519 | 0.00 |
| 1952 | 4/1/1952 | 1245.65 | 56662 | 4/1/1952 | 1245.65 | 56663 | 0.00 |
| 1953 | 12/1/1952 | 1242.6 | 46685 | 12/1/1952 | 1242.6 | 46686 | 0.00 |
| 1954 | 3/1/1954 | 1240.48 | 40008 | 3/1/1954 | 1240.48 | 40008 | 0.00 |
| 1955 | 2/1/1955 | 1240.4 | 39746 | 2/1/1955 | 1240.4 | 39746 | 0.00 |
| 1956 | 1/1/1956 | 1240.16 | 39017 | 1/1/1956 | 1240.16 | 39017 | 0.00 |
| 1957 | 10/1/1956 | 1240 | 38519 | 10/1/1956 | 1240 | 38519 | 0.00 |
| 1958 | 4/1/1958 | 1242.84 | 47446 | 4/1/1958 | 1242.84 | 47447 | 0.00 |
| 1959 | 2/1/1959 | 1240.1 | 38833 | 2/1/1959 | 1240.1 | 38833 | 0.00 |
| 1960 | 2/1/1960 | 1240.12 | 38906 | 2/1/1960 | 1240.13 | 38906 | -0.01 |
| 1961 | 10/1/1960 | 1240 | 38519 | 10/1/1960 | 1240 | 38519 | 0.00 |
| 1962 | 2/1/1962 | 1240.31 | 39466 | 2/1/1962 | 1240.31 | 39467 | 0.00 |
| 1963 | 10/1/1962 | 1240 | 38519 | 10/1/1962 | 1240 | 38519 | 0.00 |

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|---|---|---|---|---|---|---|---|
| Water Year | TTiSG - HEC-5 v 8.0 | | | JMTA - HEC-5 v 7.0 | | | Difference between TTiSG and JMTA Studies |
| | Date | Elevation ft | Storage ac-ft | Date | Elevation ft | Storage ac-ft | |
| 1964 | 3/1/1964 | 1246.04 | 57965 | 3/1/1964 | 1246.04 | 57965 | 0.00 |
| 1965 | 10/1/1964 | 1242.81 | 47349 | 10/1/1964 | 1242.81 | 47350 | 0.00 |
| 1966 | 3/1/1966 | 1244.15 | 51696 | 3/1/1966 | 1244.15 | 51697 | 0.00 |
| 1967 | 4/1/1967 | 1241.64 | 43622 | 4/1/1967 | 1241.64 | 43623 | 0.00 |
| 1968 | 3/1/1968 | 1240.62 | 40433 | 3/1/1968 | 1240.62 | 40433 | 0.00 |
| 1969 | 4/11/1969 | 1256.99 | 96448 | 4/11/1969 | 1256.99 | 96448 | 0.00 |
| 1970 | 10/1/1969 | 1251.84 | 77859 | 10/1/1969 | 1251.84 | 77859 | 0.00 |
| 1971 | 12/1/1970 | 1247.79 | 63879 | 12/1/1970 | 1247.79 | 63880 | 0.00 |
| 1972 | 12/1/1971 | 1243.68 | 50172 | 12/1/1971 | 1243.68 | 50174 | 0.00 |
| 1973 | 3/1/1973 | 1241.61 | 43543 | 3/1/1973 | 1241.61 | 43543 | 0.00 |
| 1974 | 4/1/1974 | 1241.53 | 43293 | 4/1/1974 | 1241.53 | 43293 | 0.00 |
| 1975 | 3/1/1975 | 1240.58 | 40330 | 3/1/1975 | 1240.58 | 40330 | 0.00 |
| 1976 | 3/1/1976 | 1241.21 | 42294 | 3/1/1976 | 1241.21 | 42294 | 0.00 |
| 1977 | 2/1/1977 | 1240.45 | 39901 | 2/1/1977 | 1240.45 | 39902 | 0.00 |
| 1978 | 5/24/1978 | 1255.99 | 92735 | 5/24/1978 | 1255.71 | 91693 | 0.28 |
| 1979 | 4/14/1979 | 1256.66 | 95223 | 4/14/1979 | 1256.58 | 94908 | 0.08 |
| 1980 | 2/25/1980 | 1263.03 | 119740 | 2/21/1980 | 1263.03 | 119740 | 0.00 |
| 1981 | 10/1/1980 | 1253.69 | 84410 | 10/1/1980 | 1253.65 | 84291 | 0.04 |
| 1982 | 3/1/1982 | 1249.83 | 70873 | 3/1/1982 | 1249.8 | 70761 | 0.03 |
| 1983 | 3/31/1983 | 1259.69 | 106682 | 3/31/1983 | 1259.67 | 106626 | 0.02 |
| 1984 | 10/1/1983 | 1254.61 | 87727 | 10/1/1983 | 1254.6 | 87665 | 0.01 |
| 1985 | 10/1/1984 | 1249.18 | 68627 | 10/1/1984 | 1249.16 | 68567 | 0.02 |
| 1986 | 3/1/1986 | 1245.52 | 56221 | 3/1/1986 | 1245.5 | 56164 | 0.02 |
| 1987 | 10/1/1986 | 1241.95 | 44610 | 10/1/1986 | 1241.93 | 44556 | 0.02 |
| 1988 | 12/1/1987 | 1240.07 | 38722 | 12/1/1987 | 1240.07 | 38722 | 0.00 |
| 1989 | 2/1/1989 | 1240.04 | 38629 | 2/1/1989 | 1240.04 | 38629 | 0.00 |
| 1990 | 2/1/1990 | 1240.09 | 38799 | 2/1/1990 | 1240.09 | 38799 | 0.00 |
| 1991 | 4/1/1991 | 1243.1 | 48289 | 4/1/1991 | 1243.1 | 48289 | 0.00 |
| 1992 | 3/31/1992 | 1242.7 | 47014 | 3/31/1992 | 1242.7 | 47014 | 0.00 |
| 1993 | 2/22/1993 | 1262.34 | 117026 | 2/22/1993 | 1262.36 | 117094 | -0.02 |

[redacted] Table [redacted] ake [redacted] re Ra[redacted] for L[redacted] Reple[redacted]nent [redacted] 124[redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1240 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1240 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/2016 | 1263.11 | 81534 | 120053 | 1 | 1916 | 1263.11 | 81534 | 120053 | 0.008 | 0.83 |
| 1917 | 4/1/2017 | 1254.85 | 50046 | 88565 | 2 | 1980 | 1263.03 | 81221 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/2018 | 1254.08 | 47301 | 85820 | 3 | 1993 | 1262.34 | 78507 | 117026 | 0.032 | 3.20 |
| 1919 | 10/1/2018 | 1250.75 | 35514 | 74033 | 4 | 1938 | 1261.37 | 74680 | 113199 | 0.044 | 4.38 |
| 1920 | 4/1/2020 | 1249.3 | 30514 | 69033 | 5 | 1983 | 1259.69 | 68163 | 106682 | 0.056 | 5.57 |
| 1921 | 1/1/2020 | 1246.18 | 19925 | 58444 | 6 | 1937 | 1259.26 | 66529 | 105048 | 0.068 | 6.75 |
| 1922 | 3/30/2022 | 1258.68 | 64279 | 102798 | 7 | 1927 | 1258.72 | 64445 | 102964 | 0.079 | 7.94 |
| 1923 | 2/1/2023 | 1253.33 | 44622 | 83141 | 8 | 1922 | 1258.68 | 64279 | 102798 | 0.091 | 9.12 |
| 1924 | 10/1/2023 | 1249.76 | 32159 | 70678 | 9 | 1941 | 1258.35 | 63044 | 101563 | 0.103 | 10.31 |
| 1925 | 10/1/2024 | 1245.98 | 19247 | 57766 | 10 | 1995 | 1258.18 | 62416 | 100935 | 0.115 | 11.49 |
| 1926 | 4/1/2026 | 1245.42 | 17374 | 55893 | 11 | 1969 | 1256.99 | 57929 | 96448 | 0.127 | 12.68 |
| 1927 | 3/12/2027 | 1258.72 | 64445 | 102964 | 12 | 1979 | 1256.66 | 56704 | 95223 | 0.139 | 13.86 |
| 1928 | 10/1/2027 | 1252.89 | 43054 | 81573 | 13 | 1978 | 1255.99 | 54216 | 92735 | 0.150 | 15.05 |
| 1929 | 10/1/2028 | 1249.04 | 29610 | 68129 | 14 | 1939 | 1255.5 | 52427 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1245.1 | 16303 | 54822 | 15 | 1917 | 1254.85 | 50046 | 88565 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1241.9 | 5936 | 44455 | 16 | 1984 | 1254.61 | 49208 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1243.62 | 11461 | 49980 | 17 | 1942 | 1254.15 | 47552 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1240.55 | 1706 | 40225 | 18 | 1918 | 1254.08 | 47301 | 85820 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1240.2 | 629 | 39148 | 19 | 1981 | 1253.68 | 45891 | 84410 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1240.62 | 1912 | 40431 | 20 | 1994 | 1253.62 | 45651 | 84170 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1240.49 | 1510 | 40029 | 21 | 1943 | 1253.33 | 44636 | 83155 | 0.245 | 24.53 |
| 1937 | 4/5/1937 | 1259.26 | 66529 | 105048 | 22 | 1923 | 1253.33 | 44622 | 83141 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 74680 | 113199 | 23 | 1996 | 1253.21 | 44209 | 82728 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 52427 | 90946 | 24 | 1928 | 1252.89 | 43054 | 81573 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 41932 | 80451 | 25 | 1940 | 1252.57 | 41932 | 80451 | 0.293 | 29.27 |
| 1941 | 4/22/1941 | 1258.35 | 63044 | 101563 | 26 | 1998 | 1251.92 | 39619 | 78138 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 47552 | 86071 | 27 | 1970 | 1251.84 | 39340 | 77859 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 44636 | 83155 | 28 | 1944 | 1251.08 | 36874 | 75193 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 36674 | 75193 | 29 | 1919 | 1250.75 | 35514 | 74033 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.98 | 26015 | 64534 | 30 | 1997 | 1250.18 | 33541 | 72060 | 0.352 | 35.19 |
| 1946 | 12/1/1946 | 1244.56 | 14527 | 53046 | 31 | 1982 | 1249.83 | 32354 | 70873 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1241.34 | 4187 | 42686 | 32 | 1924 | 1249.76 | 32159 | 70678 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1240.36 | 1106 | 39625 | 33 | 1920 | 1249.3 | 30514 | 69033 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1240.35 | 1076 | 39595 | 34 | 1985 | 1249.18 | 30108 | 68627 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1240.72 | 2234 | 40753 | 35 | 1929 | 1249.04 | 29610 | 68129 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1240 | 0 | 38519 | 36 | 1999 | 1248.62 | 28177 | 66696 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1245.65 | 18143 | 56662 | 37 | 1945 | 1247.98 | 26015 | 64534 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1242.6 | 8166 | 46685 | 38 | 1971 | 1247.79 | 25360 | 63879 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1240.48 | 1489 | 40008 | 39 | 1921 | 1246.18 | 19925 | 58444 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1240.4 | 1227 | 39746 | 40 | 1964 | 1246.04 | 19446 | 57965 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1240.16 | 498 | 39017 | 41 | 1925 | 1245.98 | 19247 | 57766 | 0.482 | 48.22 |

Table 2

[redacted] Table 2. Lake Elsinore Results for Lake Replenishment Level 1240 [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1240 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1240 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1240 | 0 | 38519 | 42 | 1952 | 1245.65 | 18143 | 56662 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1242.84 | 8927 | 47446 | 43 | 1986 | 1245.52 | 17702 | 56221 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1240.1 | 314 | 38833 | 44 | 1926 | 1245.42 | 17374 | 55893 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1240.12 | 387 | 38906 | 45 | 1930 | 1245.1 | 16303 | 54822 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1240 | 0 | 38519 | 46 | 1946 | 1244.56 | 14527 | 53046 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1240.31 | 947 | 39466 | 47 | 1966 | 1244.15 | 13177 | 51696 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1240 | 0 | 38519 | 48 | 1972 | 1243.68 | 11653 | 50172 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1246.04 | 19446 | 57965 | 49 | 1932 | 1243.62 | 11461 | 49980 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1242.81 | 8830 | 47349 | 50 | 1991 | 1243.1 | 9770 | 48289 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1244.15 | 13177 | 51696 | 51 | 1958 | 1242.84 | 8927 | 47446 | 0.601 | 60.07 |
| 1967 | 4/1/1967 | 1241.64 | 5103 | 43622 | 52 | 1965 | 1242.81 | 8830 | 47349 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1240.62 | 1914 | 40433 | 53 | 1992 | 1242.7 | 8495 | 47014 | 0.624 | 62.44 |
| 1969 | 4/11/1969 | 1256.99 | 57929 | 96448 | 54 | 1953 | 1242.6 | 8166 | 46685 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.84 | 39340 | 77859 | 55 | 1987 | 1241.95 | 6091 | 44610 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.79 | 25360 | 63879 | 56 | 1931 | 1241.9 | 5936 | 44455 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1243.68 | 11653 | 50172 | 57 | 1967 | 1241.64 | 5103 | 43622 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1241.61 | 5024 | 43543 | 58 | 1973 | 1241.61 | 5024 | 43543 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1241.53 | 4774 | 43293 | 59 | 1974 | 1241.53 | 4774 | 43293 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1240.58 | 1811 | 40330 | 60 | 1947 | 1241.34 | 4167 | 42686 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1241.21 | 3775 | 42294 | 61 | 1976 | 1241.21 | 3775 | 42294 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1240.45 | 1382 | 39901 | 62 | 1950 | 1240.72 | 2234 | 40753 | 0.731 | 73.10 |
| 1978 | 5/24/1978 | 1255.99 | 54216 | 92735 | 63 | 1968 | 1240.62 | 1914 | 40433 | 0.743 | 74.29 |
| 1979 | 4/14/1979 | 1256.66 | 56704 | 95223 | 64 | 1935 | 1240.62 | 1912 | 40431 | 0.755 | 75.47 |
| 1980 | 2/21/1980 | 1263.03 | 81221 | 119740 | 65 | 1975 | 1240.58 | 1811 | 40330 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 45891 | 84410 | 66 | 1933 | 1240.55 | 1706 | 40225 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 32354 | 70873 | 67 | 1936 | 1240.49 | 1510 | 40029 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 68163 | 106682 | 68 | 1954 | 1240.48 | 1489 | 40008 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 49208 | 87727 | 69 | 1977 | 1240.45 | 1382 | 39901 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.18 | 30108 | 68627 | 70 | 1955 | 1240.4 | 1227 | 39746 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1245.52 | 17702 | 56221 | 71 | 1948 | 1240.36 | 1106 | 39625 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1241.95 | 6091 | 44610 | 72 | 1949 | 1240.35 | 1076 | 39595 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1240.07 | 203 | 38722 | 73 | 1962 | 1240.31 | 947 | 39466 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1240.04 | 110 | 38629 | 74 | 1934 | 1240.2 | 629 | 39148 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1240.09 | 280 | 38799 | 75 | 1956 | 1240.16 | 498 | 39017 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1243.1 | 9770 | 48289 | 76 | 1960 | 1240.12 | 387 | 38906 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1242.7 | 8495 | 47014 | 77 | 1959 | 1240.1 | 314 | 38833 | 0.909 | 90.88 |
| 1993 | 2/22/1993 | 1262.34 | 78507 | 117026 | 78 | 1990 | 1240.09 | 280 | 38799 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 45651 | 84170 | 79 | 1988 | 1240.07 | 203 | 38722 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 62416 | 100935 | 80 | 1989 | 1240.04 | 110 | 38629 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 44209 | 82728 | 81 | 1951 | 1240 | 0 | 38519 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 33541 | 72060 | 82 | 1957 | 1240 | 0 | 38519 | 0.968 | 96.80 |

Table 2

[redacted] [redacted] [redacted] [redacted] [redacted]able [redacted]ke E[redacted]e Re[redacted]or La[redacted]epter[redacted]ent [redacted]1240[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1240 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1240 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 39619 | 78138 | 83 | 1961 | 1240 | 0 | 38519 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1248.62 | 28177 | 66696 | 84 | 1963 | 1240 | 0 | 38519 | 0.992 | 99.17 |

Table 2

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] La[redacted]inor[redacted]ults [redacted]ke R[redacted]shm[redacted]evel [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1241 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1241 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/1916 | 1263.11 | 78435 | 120053 | 1 | 1916 | 1263.11 | 78435 | 120053 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.85 | 46946 | 88564 | 2 | 1980 | 1263.03 | 78122 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.08 | 44201 | 85819 | 3 | 1993 | 1262.5 | 76016 | 117634 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.75 | 32414 | 74032 | 4 | 1938 | 1261.37 | 71590 | 113208 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1249.3 | 27414 | 69032 | 5 | 1983 | 1259.69 | 65064 | 106682 | 0.056 | 5.57 |
| 1921 | 1/1/1920 | 1246.18 | 16825 | 58443 | 6 | 1937 | 1259.68 | 65010 | 106628 | 0.068 | 6.75 |
| 1922 | 3/22/1922 | 1258.68 | 61190 | 102808 | 7 | 1927 | 1258.72 | 61346 | 102964 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.33 | 41523 | 83141 | 8 | 1922 | 1258.68 | 61190 | 102808 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.78 | 29060 | 70678 | 9 | 1941 | 1258.35 | 59962 | 101580 | 0.103 | 10.31 |
| 1925 | 10/1/1924 | 1245.98 | 16148 | 57766 | 10 | 1995 | 1258.18 | 59317 | 100935 | 0.115 | 11.49 |
| 1926 | 4/1/1926 | 1245.42 | 14275 | 55893 | 11 | 1969 | 1257.37 | 56259 | 97877 | 0.127 | 12.68 |
| 1927 | 3/12/1927 | 1258.72 | 61346 | 102964 | 12 | 1979 | 1256.76 | 53957 | 95575 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.89 | 39955 | 81573 | 13 | 1978 | 1256.54 | 53169 | 94777 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.04 | 26511 | 68129 | 14 | 1939 | 1255.5 | 49328 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1245.1 | 13204 | 54822 | 15 | 1917 | 1254.85 | 46946 | 88564 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1241.9 | 2837 | 44455 | 16 | 1984 | 1254.61 | 46109 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1244.58 | 11491 | 53109 | 17 | 1942 | 1254.15 | 44453 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1241.55 | 1791 | 43409 | 18 | 1918 | 1254.08 | 44201 | 85819 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1241.2 | 630 | 42248 | 19 | 1981 | 1253.69 | 42793 | 84411 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1241.61 | 1925 | 43543 | 20 | 1994 | 1253.62 | 42553 | 84171 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1241.49 | 1528 | 43146 | 21 | 1943 | 1253.33 | 41537 | 83155 | 0.245 | 24.53 |
| 1937 | 4/5/1937 | 1259.68 | 65010 | 106628 | 22 | 1923 | 1253.33 | 41523 | 83141 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 71590 | 113208 | 23 | 1996 | 1253.21 | 41110 | 82728 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 49328 | 90946 | 24 | 1928 | 1252.89 | 39955 | 81573 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 38833 | 80451 | 25 | 1940 | 1252.57 | 38833 | 80451 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 59962 | 101580 | 26 | 1998 | 1251.92 | 36521 | 78139 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 44453 | 86071 | 27 | 1970 | 1251.85 | 36268 | 77886 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 41537 | 83155 | 28 | 1944 | 1251.08 | 33575 | 75193 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 33575 | 75193 | 29 | 1919 | 1250.75 | 32414 | 74032 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.98 | 22916 | 64534 | 30 | 1997 | 1250.18 | 30442 | 72060 | 0.352 | 35.19 |
| 1946 | 12/1/1946 | 1244.56 | 11428 | 53046 | 31 | 1992 | 1249.83 | 29256 | 70874 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1241.34 | 1068 | 42686 | 32 | 1924 | 1249.78 | 29060 | 70678 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1241.35 | 1091 | 42709 | 33 | 1920 | 1249.3 | 27414 | 69032 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1241.34 | 1083 | 42701 | 34 | 1985 | 1249.18 | 27009 | 68627 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1241.7 | 2218 | 43836 | 35 | 1929 | 1249.04 | 26511 | 68129 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1241 | 0 | 41618 | 36 | 1999 | 1248.62 | 25079 | 66697 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1246.58 | 18159 | 59777 | 37 | 1945 | 1247.98 | 22916 | 64534 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1243.53 | 8049 | 49667 | 38 | 1971 | 1247.8 | 22287 | 63905 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1241.48 | 1502 | 43120 | 39 | 1984 | 1246.96 | 19436 | 61054 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1241.39 | 1230 | 42848 | 40 | 1952 | 1246.58 | 18159 | 59777 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1241.16 | 504 | 42122 | 41 | 1921 | 1246.18 | 16825 | 58443 | 0.482 | 48.22 |

Table 3

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1241 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1241 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1241 | 0 | 41618 | 42 | 1925 | 1245.98 | 16148 | 57766 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1243.8 | 8943 | 50561 | 43 | 1986 | 1245.52 | 14603 | 56221 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1241.1 | 320 | 41938 | 44 | 1926 | 1245.42 | 14275 | 55893 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1241.12 | 393 | 42011 | 45 | 1930 | 1245.1 | 13204 | 54822 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1241 | 0 | 41618 | 46 | 1966 | 1245.09 | 13185 | 54803 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1241.31 | 963 | 42581 | 47 | 1932 | 1244.58 | 11491 | 53109 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1241 | 0 | 41618 | 48 | 1946 | 1244.56 | 11428 | 53046 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1246.96 | 19436 | 61054 | 49 | 1991 | 1244.05 | 9760 | 51378 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1243.72 | 8674 | 50292 | 50 | 1958 | 1243.8 | 8943 | 50561 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1245.09 | 13185 | 54803 | 51 | 1965 | 1243.72 | 8674 | 50292 | 0.601 | 60.07 |
| 1967 | 4/1/1967 | 1242.56 | 4940 | 46558 | 52 | 1972 | 1243.69 | 8579 | 50197 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1241.6 | 1902 | 43520 | 53 | 1992 | 1243.67 | 8510 | 50128 | 0.624 | 62.44 |
| 1969 | 4/11/1969 | 1257.37 | 56259 | 97877 | 54 | 1953 | 1243.53 | 8049 | 49667 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.85 | 36268 | 77886 | 55 | 1973 | 1242.58 | 5014 | 46632 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.8 | 22287 | 63905 | 56 | 1967 | 1242.56 | 4940 | 46558 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1243.69 | 8579 | 50197 | 57 | 1974 | 1242.5 | 4757 | 46375 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1242.58 | 5014 | 46632 | 58 | 1978 | 1242.2 | 3784 | 45402 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1242.5 | 4757 | 46375 | 59 | 1987 | 1241.95 | 2992 | 44610 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1241.57 | 1798 | 43416 | 60 | 1931 | 1241.9 | 2837 | 44455 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1242.2 | 3784 | 45402 | 61 | 1950 | 1241.7 | 2218 | 43836 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1241.43 | 1365 | 42983 | 62 | 1935 | 1241.61 | 1925 | 43543 | 0.731 | 73.10 |
| 1978 | 4/12/1978 | 1256.54 | 53159 | 94777 | 63 | 1968 | 1241.6 | 1902 | 43520 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.76 | 53957 | 95575 | 64 | 1975 | 1241.57 | 1798 | 43416 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 78122 | 119740 | 65 | 1933 | 1241.55 | 1791 | 43409 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 42793 | 84411 | 66 | 1936 | 1241.49 | 1528 | 43146 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 29256 | 70874 | 67 | 1954 | 1241.48 | 1502 | 43120 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 65064 | 106682 | 68 | 1977 | 1241.43 | 1365 | 42983 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 46109 | 87727 | 69 | 1955 | 1241.39 | 1230 | 42848 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.18 | 27009 | 68627 | 70 | 1948 | 1241.35 | 1091 | 42709 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1245.52 | 14603 | 56221 | 71 | 1949 | 1241.34 | 1083 | 42701 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1241.95 | 2992 | 44610 | 72 | 1947 | 1241.34 | 1068 | 42686 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1241.06 | 204 | 41822 | 73 | 1962 | 1241.31 | 963 | 42581 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1241.03 | 110 | 41728 | 74 | 1934 | 1241.2 | 630 | 42248 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1241.09 | 282 | 41900 | 75 | 1956 | 1241.16 | 504 | 42122 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1244.05 | 9760 | 51378 | 76 | 1960 | 1241.12 | 393 | 42011 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1243.67 | 8510 | 50128 | 77 | 1959 | 1241.1 | 320 | 41938 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.5 | 76016 | 117634 | 78 | 1990 | 1241.09 | 282 | 41900 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 42553 | 84171 | 79 | 1988 | 1241.06 | 204 | 41822 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1256.18 | 59317 | 100935 | 80 | 1989 | 1241.03 | 110 | 41728 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 41110 | 82728 | 81 | 1951 | 1241 | 0 | 41618 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 30442 | 72060 | 82 | 1957 | 1241 | 0 | 41618 | 0.968 | 96.80 |

Table 3

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1241 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1241 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 36521 | 78139 | 83 | 1961 | 1241 | 0 | 41618 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1248.62 | 25079 | 66697 | 84 | 1963 | 1241 | 0 | 41618 | 0.992 | 99.17 |

Table 3

Table 4: Lake Elsinore Results for Lake Replenishment Level 1242

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1242 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1242 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/1916 | 1263.11 | 75286 | 120053 | 1 | 1916 | 1263.11 | 75286 | 120053 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.85 | 43798 | 88565 | 2 | 1980 | 1263.03 | 74973 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.08 | 41053 | 85820 | 3 | 1993 | 1262.64 | 73413 | 118180 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.75 | 29266 | 74033 | 4 | 1938 | 1261.37 | 68448 | 113215 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1249.3 | 24266 | 69033 | 5 | 1937 | 1260.09 | 63442 | 108209 | 0.056 | 5.57 |
| 1921 | 10/1/1920 | 1246.18 | 13677 | 58444 | 6 | 1983 | 1259.69 | 61915 | 106682 | 0.068 | 6.75 |
| 1922 | 3/31/1922 | 1258.68 | 58041 | 102808 | 7 | 1927 | 1258.83 | 58635 | 103402 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.33 | 38374 | 83141 | 8 | 1922 | 1258.68 | 58041 | 102808 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.78 | 25911 | 70678 | 9 | 1941 | 1258.35 | 56813 | 101580 | 0.103 | 10.31 |
| 1925 | 10/1/1924 | 1245.98 | 12999 | 57766 | 10 | 1995 | 1258.18 | 56168 | 100935 | 0.115 | 11.49 |
| 1926 | 4/1/1926 | 1245.74 | 12211 | 56878 | 11 | 1969 | 1257.71 | 54394 | 99161 | 0.127 | 12.68 |
| 1927 | 3/12/1927 | 1258.83 | 58635 | 103402 | 12 | 1978 | 1257.12 | 52159 | 96926 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.9 | 36830 | 81597 | 13 | 1979 | 1256.83 | 51088 | 95855 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.04 | 23386 | 68153 | 14 | 1939 | 1255.5 | 46179 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1245.1 | 10078 | 54845 | 15 | 1917 | 1254.85 | 43798 | 88565 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1242.45 | 1442 | 46209 | 16 | 1984 | 1254.61 | 42960 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1245.53 | 11517 | 56284 | 17 | 1942 | 1254.15 | 41304 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1242.54 | 1731 | 46498 | 18 | 1918 | 1254.08 | 41053 | 85820 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1242.2 | 631 | 45398 | 19 | 1981 | 1253.69 | 39644 | 84411 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1242.61 | 1938 | 46705 | 20 | 1994 | 1253.62 | 39403 | 84170 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1242.48 | 1546 | 46313 | 21 | 1943 | 1253.33 | 38388 | 83155 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1260.09 | 63442 | 108209 | 22 | 1923 | 1253.33 | 38374 | 83141 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 68448 | 113215 | 23 | 1996 | 1253.21 | 37960 | 82727 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 46179 | 90946 | 24 | 1928 | 1252.9 | 36830 | 81597 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 35684 | 80451 | 25 | 1940 | 1252.57 | 35684 | 80451 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 56813 | 101580 | 26 | 1998 | 1251.92 | 33371 | 78138 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 41304 | 86071 | 27 | 1970 | 1251.86 | 33141 | 77908 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 38388 | 83155 | 28 | 1944 | 1251.08 | 30426 | 75193 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 30426 | 75193 | 29 | 1919 | 1250.75 | 29266 | 74033 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.98 | 19767 | 64534 | 30 | 1997 | 1250.18 | 27293 | 72060 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1244.56 | 8279 | 53046 | 31 | 1982 | 1249.83 | 26107 | 70874 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1242.29 | 922 | 45689 | 32 | 1924 | 1249.78 | 25911 | 70678 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1242.34 | 1075 | 45842 | 33 | 1920 | 1249.3 | 24266 | 69033 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1242.34 | 1090 | 45857 | 34 | 1985 | 1249.18 | 23860 | 68627 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1242.59 | 2202 | 46969 | 35 | 1929 | 1249.04 | 23386 | 68153 | 0.411 | 41.11 |
| 1951 | 10/1/1951 | 1242 | 0 | 44767 | 36 | 1999 | 1248.62 | 21929 | 66696 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1247.51 | 18176 | 62943 | 37 | 1945 | 1247.98 | 19767 | 64534 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1244.46 | 7947 | 52714 | 38 | 1964 | 1247.88 | 19428 | 64195 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1242.47 | 1515 | 46282 | 39 | 1971 | 1247.8 | 19159 | 63926 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1242.39 | 1234 | 46001 | 40 | 1952 | 1247.51 | 18176 | 62943 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1242.18 | 509 | 45276 | 41 | 1921 | 1246.18 | 13677 | 58444 | 0.482 | 48.22 |

Table 4. Lake Elsinore Results for Lake Replenishment Level 1242

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1242 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1242 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1242 | 0 | 44767 | 42 | 1966 | 1246.04 | 13192 | 57959 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1244.76 | 8959 | 53726 | 43 | 1925 | 1245.98 | 12999 | 57766 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1242.1 | 325 | 45092 | 44 | 1926 | 1245.74 | 12211 | 56978 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1242.13 | 400 | 45167 | 45 | 1932 | 1245.53 | 11517 | 56284 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1242 | 0 | 44767 | 46 | 1986 | 1245.52 | 11454 | 56221 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1242.31 | 978 | 45745 | 47 | 1930 | 1245.1 | 10078 | 54845 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1242 | 0 | 44767 | 48 | 1991 | 1245 | 9752 | 54519 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1247.88 | 19428 | 64195 | 49 | 1958 | 1244.76 | 8959 | 53726 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1244.64 | 8543 | 53310 | 50 | 1965 | 1244.64 | 8543 | 53310 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1246.04 | 13192 | 57959 | 51 | 1992 | 1244.63 | 8524 | 53291 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1243.49 | 4799 | 49566 | 52 | 1946 | 1244.56 | 8279 | 53046 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1242.59 | 1890 | 46657 | 53 | 1953 | 1244.46 | 7947 | 52714 | 0.624 | 62.44 |
| 1969 | 3/24/1969 | 1257.71 | 54394 | 99161 | 54 | 1972 | 1243.69 | 5450 | 50217 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.86 | 33141 | 77908 | 55 | 1973 | 1243.56 | 5004 | 49771 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.8 | 19159 | 63926 | 56 | 1967 | 1243.49 | 4799 | 49566 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1243.69 | 5450 | 50217 | 57 | 1974 | 1243.48 | 4741 | 49508 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1243.56 | 5004 | 49771 | 58 | 1976 | 1243.18 | 3792 | 48559 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1243.48 | 4741 | 49508 | 59 | 1950 | 1242.69 | 2202 | 46969 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1242.56 | 1793 | 46560 | 60 | 1935 | 1242.61 | 1938 | 46705 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1243.18 | 3792 | 48559 | 61 | 1968 | 1242.59 | 1890 | 46657 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1242.42 | 1347 | 46114 | 62 | 1975 | 1242.56 | 1793 | 46560 | 0.731 | 73.10 |
| 1978 | 3/31/1978 | 1257.12 | 52159 | 96926 | 63 | 1933 | 1242.54 | 1731 | 46498 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.83 | 51088 | 95855 | 64 | 1936 | 1242.48 | 1546 | 46313 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 74973 | 119740 | 65 | 1954 | 1242.47 | 1515 | 46282 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 39644 | 84411 | 66 | 1931 | 1242.45 | 1442 | 46209 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 26107 | 70874 | 67 | 1977 | 1242.42 | 1347 | 46114 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 61915 | 106682 | 68 | 1955 | 1242.39 | 1234 | 46001 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 42960 | 87727 | 69 | 1949 | 1242.34 | 1090 | 45857 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.18 | 23860 | 68627 | 70 | 1948 | 1242.34 | 1075 | 45842 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1245.52 | 11454 | 56221 | 71 | 1962 | 1242.31 | 978 | 45745 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1242 | 0 | 44767 | 72 | 1947 | 1242.29 | 922 | 45689 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1242.06 | 206 | 44973 | 73 | 1934 | 1242.2 | 631 | 45398 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1242.03 | 111 | 44878 | 74 | 1956 | 1242.16 | 509 | 45276 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1242.09 | 284 | 45051 | 75 | 1960 | 1242.13 | 400 | 45167 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1245 | 9752 | 54519 | 76 | 1959 | 1242.1 | 325 | 45092 | 0.897 | 89.69 |
| 1992 | 3/3/1992 | 1244.63 | 8524 | 53291 | 77 | 1990 | 1242.09 | 284 | 45051 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.64 | 73413 | 118180 | 78 | 1988 | 1242.06 | 206 | 44973 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 39403 | 84170 | 79 | 1989 | 1242.03 | 111 | 44878 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 56168 | 100935 | 80 | 1951 | 1242 | 0 | 44767 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 37960 | 82727 | 81 | 1957 | 1242 | 0 | 44767 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 27293 | 72060 | 82 | 1961 | 1242 | 0 | 44767 | 0.968 | 96.80 |

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1242 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1242 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 33371 | 78138 | 83 | 1963 | 1242 | 0 | 44767 | 0.980 | 97.99 |
| 1999 | 10/1/1999 | 1248.62 | 21929 | 66696 | 84 | 1987 | 1242 | 0 | 44767 | 0.992 | 99.17 |

Table 4

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1243 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1243 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/2016 | 1263.11 | 72090 | 120053 | 1 | 1916 | 1263.11 | 72090 | 120053 | 0.008 | 0.83 |
| 1917 | 4/1/2017 | 1254.82 | 40508 | 88471 | 2 | 1980 | 1263.03 | 71777 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/2018 | 1254.06 | 37765 | 85728 | 3 | 1993 | 1262.66 | 70297 | 118260 | 0.032 | 3.20 |
| 1919 | 10/1/2018 | 1250.72 | 25981 | 73944 | 4 | 1938 | 1261.37 | 65255 | 113218 | 0.044 | 4.38 |
| 1920 | 4/1/2020 | 1249.27 | 20984 | 68947 | 5 | 1937 | 1260.32 | 61157 | 109120 | 0.056 | 5.57 |
| 1921 | 10/1/2020 | 1246.16 | 10397 | 58360 | 6 | 1983 | 1259.69 | 58719 | 106682 | 0.068 | 6.75 |
| 1922 | 3/25/2022 | 1258.84 | 55446 | 103409 | 7 | 1927 | 1259.17 | 56709 | 104672 | 0.079 | 7.94 |
| 1923 | 2/1/2023 | 1253.31 | 35091 | 83054 | 8 | 1922 | 1258.84 | 55446 | 103409 | 0.091 | 9.12 |
| 1924 | 10/1/2023 | 1249.75 | 22632 | 70595 | 9 | 1941 | 1258.35 | 53608 | 101571 | 0.103 | 10.31 |
| 1925 | 10/1/2024 | 1245.95 | 9721 | 57684 | 10 | 1995 | 1258.18 | 52972 | 100935 | 0.115 | 11.49 |
| 1926 | 4/1/2026 | 1246.7 | 12212 | 60175 | 11 | 1969 | 1258.13 | 52765 | 100728 | 0.127 | 12.68 |
| 1927 | 2/28/2027 | 1259.17 | 56709 | 104672 | 12 | 1978 | 1257.67 | 51019 | 98982 | 0.139 | 13.86 |
| 1928 | 10/1/2027 | 1252.91 | 33682 | 81645 | 13 | 1979 | 1256.87 | 48042 | 96005 | 0.150 | 15.05 |
| 1929 | 10/1/2028 | 1249.06 | 20236 | 68199 | 14 | 1939 | 1255.5 | 42983 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1245.12 | 6926 | 54889 | 15 | 1917 | 1254.82 | 40508 | 88471 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1243.45 | 1458 | 49421 | 16 | 1984 | 1254.61 | 39764 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1246.5 | 11549 | 59512 | 17 | 1942 | 1254.12 | 37991 | 85954 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1243.54 | 1743 | 49706 | 18 | 1918 | 1254.06 | 37765 | 85728 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1243.19 | 632 | 48595 | 19 | 1981 | 1253.69 | 36447 | 84410 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1243.6 | 1950 | 49913 | 20 | 1994 | 1253.62 | 36207 | 84170 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1243.48 | 1562 | 49525 | 21 | 1923 | 1253.31 | 35091 | 83054 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1260.32 | 61157 | 109120 | 22 | 1943 | 1253.3 | 35079 | 83042 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 65255 | 113218 | 23 | 1996 | 1253.21 | 34764 | 82727 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 42983 | 90946 | 24 | 1928 | 1252.91 | 33682 | 81645 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 32470 | 80433 | 25 | 1940 | 1252.57 | 32470 | 80433 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 53608 | 101571 | 26 | 1998 | 1251.92 | 30175 | 78138 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.12 | 37991 | 85954 | 27 | 1970 | 1251.86 | 29969 | 77932 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.3 | 35079 | 83042 | 28 | 1944 | 1251.05 | 27122 | 75085 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.05 | 27122 | 75085 | 29 | 1919 | 1250.72 | 25981 | 73944 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.95 | 16464 | 64427 | 30 | 1997 | 1250.18 | 24097 | 72060 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1244.53 | 4980 | 52943 | 31 | 1982 | 1249.83 | 22911 | 70874 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1243.29 | 925 | 48888 | 32 | 1924 | 1249.75 | 22632 | 70595 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1243.33 | 1061 | 49024 | 33 | 1920 | 1249.27 | 20984 | 68947 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1243.34 | 1096 | 49059 | 34 | 1986 | 1249.81 | 20664 | 68627 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1243.67 | 2187 | 50150 | 35 | 1929 | 1249.06 | 20236 | 68199 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1243 | 0 | 47963 | 36 | 1964 | 1248.82 | 19419 | 67382 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1248.46 | 18199 | 66162 | 37 | 1999 | 1248.62 | 18733 | 66696 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1245.4 | 7872 | 55835 | 38 | 1952 | 1248.46 | 18199 | 66162 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1243.47 | 1527 | 49490 | 39 | 1945 | 1247.95 | 16464 | 64427 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1243.38 | 1236 | 49199 | 40 | 1971 | 1247.81 | 15986 | 63949 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1243.16 | 514 | 48477 | 41 | 1966 | 1246.99 | 13202 | 61165 | 0.482 | 48.22 |

Table 5 -

[redacted] Lan[redacted]more [redacted]urs [redacted]e Re[redacted]shm [redacted]vel [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1243 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1243 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1243 | 0 | 47963 | 42 | 1926 | 1246.7 | 12212 | 60175 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1245.73 | 8974 | 56937 | 43 | 1932 | 1246.5 | 11549 | 59512 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1243.1 | 330 | 48293 | 44 | 1921 | 1246.16 | 10397 | 58360 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1243.12 | 405 | 48368 | 45 | 1991 | 1245.96 | 9742 | 57705 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1243 | 0 | 47963 | 46 | 1925 | 1245.95 | 9721 | 57684 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1243.31 | 992 | 48855 | 47 | 1958 | 1245.73 | 8974 | 56937 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1243 | 0 | 47963 | 48 | 1992 | 1245.6 | 8539 | 56502 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1248.82 | 19419 | 67382 | 49 | 1965 | 1245.57 | 8434 | 56397 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1245.57 | 8434 | 56397 | 50 | 1986 | 1245.52 | 8258 | 56221 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1246.99 | 13202 | 61165 | 51 | 1953 | 1245.4 | 7872 | 55835 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1244.44 | 4686 | 52649 | 52 | 1930 | 1245.12 | 6926 | 54889 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1243.58 | 1879 | 49842 | 53 | 1973 | 1244.53 | 4996 | 52959 | 0.624 | 62.44 |
| 1969 | 3/6/1969 | 1258.13 | 52765 | 100728 | 54 | 1946 | 1244.53 | 4980 | 52943 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.86 | 29969 | 77932 | 55 | 1974 | 1244.45 | 4722 | 52685 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.81 | 15986 | 63949 | 56 | 1967 | 1244.44 | 4686 | 52649 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1243.7 | 2276 | 50239 | 57 | 1976 | 1244.17 | 3801 | 51764 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1244.53 | 4996 | 52959 | 58 | 1972 | 1243.7 | 2276 | 50239 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1244.45 | 4722 | 52685 | 59 | 1950 | 1243.67 | 2187 | 50150 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1243.55 | 1793 | 49756 | 60 | 1935 | 1243.6 | 1950 | 49913 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1244.17 | 3801 | 51764 | 61 | 1968 | 1243.58 | 1879 | 49842 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1243.41 | 1332 | 49295 | 62 | 1975 | 1243.55 | 1793 | 49756 | 0.731 | 73.10 |
| 1978 | 3/31/1978 | 1257.67 | 51019 | 98982 | 63 | 1933 | 1243.54 | 1743 | 49706 | 0.743 | 74.29 |
| 1979 | 4/18/1979 | 1256.87 | 48042 | 96005 | 64 | 1936 | 1243.48 | 1562 | 49525 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 71777 | 119740 | 65 | 1954 | 1243.47 | 1527 | 49490 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 36447 | 84410 | 66 | 1931 | 1243.45 | 1458 | 49421 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 22911 | 70874 | 67 | 1977 | 1243.41 | 1332 | 49295 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 58719 | 106682 | 68 | 1955 | 1243.38 | 1236 | 49199 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 39764 | 87727 | 69 | 1949 | 1243.34 | 1096 | 49059 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.81 | 20664 | 68627 | 70 | 1948 | 1243.33 | 1061 | 49024 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1245.52 | 8258 | 56221 | 71 | 1962 | 1243.31 | 992 | 48955 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1243 | 0 | 47963 | 72 | 1947 | 1243.29 | 925 | 48888 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1243.06 | 207 | 48170 | 73 | 1934 | 1243.19 | 632 | 48595 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1243.03 | 111 | 48074 | 74 | 1956 | 1243.16 | 514 | 48477 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1243.09 | 286 | 48249 | 75 | 1960 | 1243.12 | 405 | 48368 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1245.96 | 9742 | 57705 | 76 | 1959 | 1243.1 | 330 | 48293 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1245.6 | 8539 | 56502 | 77 | 1990 | 1243.09 | 286 | 48249 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.66 | 70297 | 118260 | 78 | 1988 | 1243.06 | 207 | 48170 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 36207 | 84170 | 79 | 1989 | 1243.03 | 111 | 48074 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 52972 | 100935 | 80 | 1951 | 1243 | 0 | 47963 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 34764 | 82727 | 81 | 1957 | 1243 | 0 | 47963 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 24097 | 72060 | 82 | 1961 | 1243 | 0 | 47963 | 0.968 | 96.80 |

Table 5-

Table 6. Lake Elsinore Results for Lake Replenishment Level 1243

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1243 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1243 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 30176 | 78138 | 83 | 1963 | 1243 | 0 | 47963 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1248.62 | 18733 | 66696 | 84 | 1987 | 1243 | 0 | 47963 | 0.992 | 99.17 |

[redacted] Table [redacted] Lake [redacted] more [redacted] ts fo[redacted] Re[redacted]nme[redacted] evel 12[redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1244 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1244 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/26/1916 | 1263.11 | 68845 | 120053 | 1 | 1916 | 1263.11 | 68845 | 120053 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.82 | 37263 | 88471 | 2 | 1980 | 1263.03 | 68532 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.06 | 34520 | 85728 | 3 | 1993 | 1262.66 | 67078 | 118286 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.72 | 22736 | 73944 | 4 | 1938 | 1261.37 | 62015 | 113223 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1249.27 | 17739 | 68947 | 5 | 1937 | 1260.68 | 59306 | 110514 | 0.056 | 5.57 |
| 1921 | 10/1/1920 | 1246.16 | 7152 | 58360 | 6 | 1983 | 1259.69 | 55474 | 106682 | 0.068 | 6.75 |
| 1922 | 3/27/1922 | 1259.01 | 52872 | 104080 | 7 | 1927 | 1259.56 | 54966 | 106174 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.31 | 31861 | 83069 | 8 | 1922 | 1259.01 | 52872 | 104080 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.76 | 19402 | 70610 | 9 | 1969 | 1258.58 | 51234 | 102442 | 0.103 | 10.31 |
| 1925 | 10/1/1924 | 1245.96 | 6491 | 57699 | 10 | 1941 | 1258.35 | 50363 | 101571 | 0.115 | 11.49 |
| 1926 | 4/1/1926 | 1247.65 | 12210 | 63418 | 11 | 1995 | 1258.18 | 49727 | 100935 | 0.127 | 12.68 |
| 1927 | 3/6/1927 | 1259.56 | 54966 | 106174 | 12 | 1978 | 1258.1 | 49404 | 100612 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.93 | 30512 | 81720 | 13 | 1979 | 1256.9 | 44883 | 96091 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.08 | 17064 | 68272 | 14 | 1939 | 1255.5 | 39738 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1245.14 | 3752 | 54960 | 15 | 1917 | 1254.82 | 37263 | 88471 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1244.45 | 1476 | 52684 | 16 | 1984 | 1254.61 | 36519 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1247.47 | 11582 | 62790 | 17 | 1942 | 1254.12 | 34746 | 85954 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1244.63 | 1756 | 52964 | 18 | 1918 | 1254.06 | 34520 | 85728 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1244.19 | 633 | 51841 | 19 | 1981 | 1253.69 | 33202 | 84410 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1244.6 | 1964 | 53172 | 20 | 1994 | 1253.62 | 32962 | 84170 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1244.48 | 1581 | 52789 | 21 | 1923 | 1253.31 | 31861 | 83069 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1260.68 | 59306 | 110514 | 22 | 1943 | 1253.3 | 31834 | 83042 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 62015 | 113223 | 23 | 1996 | 1253.21 | 31519 | 82727 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 39738 | 90946 | 24 | 1928 | 1252.93 | 30512 | 81720 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 29225 | 80433 | 25 | 1940 | 1252.57 | 29225 | 80433 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 50363 | 101571 | 26 | 1998 | 1251.92 | 26930 | 78138 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.12 | 34746 | 85954 | 27 | 1970 | 1251.88 | 26791 | 77999 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.3 | 31834 | 83042 | 28 | 1944 | 1251.05 | 23877 | 75085 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.05 | 23877 | 75085 | 29 | 1919 | 1250.72 | 22736 | 73944 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.95 | 13219 | 64427 | 30 | 1997 | 1250.18 | 20852 | 72060 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1244.53 | 1735 | 52943 | 31 | 1982 | 1249.83 | 19666 | 70874 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1244.28 | 929 | 52137 | 32 | 1964 | 1249.76 | 19411 | 70619 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1244.32 | 1044 | 52252 | 33 | 1924 | 1249.76 | 19402 | 70610 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1244.33 | 1103 | 52311 | 34 | 1952 | 1249.41 | 18213 | 69421 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1244.66 | 2171 | 53379 | 35 | 1920 | 1249.27 | 17739 | 68947 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1244 | 0 | 51208 | 36 | 1985 | 1249.18 | 17419 | 68627 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1249.41 | 18213 | 69421 | 37 | 1929 | 1249.08 | 17064 | 68272 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1246.35 | 7810 | 59018 | 38 | 1999 | 1248.62 | 15498 | 66696 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1244.47 | 1541 | 52749 | 39 | 1945 | 1247.95 | 13219 | 64427 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1244.38 | 1240 | 52448 | 40 | 1966 | 1247.95 | 13213 | 64421 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1244.16 | 520 | 51728 | 41 | 1971 | 1247.83 | 12806 | 64014 | 0.482 | 48.22 |

Table 6

Table 6. Lake Elsinore Results for Lake Replenishment Level 1244

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1244 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1244 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1244 | 0 | 51208 | 42 | 1926 | 1247.65 | 12210 | 63418 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1246.7 | 8990 | 60198 | 43 | 1932 | 1247.47 | 11582 | 62790 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1244.1 | 335 | 51543 | 44 | 1991 | 1246.92 | 9734 | 60942 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1244.12 | 412 | 51620 | 45 | 1958 | 1246.7 | 8990 | 60198 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1244 | 0 | 51208 | 46 | 1992 | 1246.57 | 8553 | 59761 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1244.31 | 1008 | 52216 | 47 | 1965 | 1246.51 | 8334 | 59542 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1244 | 0 | 51208 | 48 | 1953 | 1246.35 | 7810 | 59018 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1249.76 | 19411 | 70619 | 49 | 1921 | 1246.16 | 7152 | 58360 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1246.51 | 8334 | 59542 | 50 | 1925 | 1245.96 | 6491 | 57699 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1247.95 | 13213 | 64421 | 51 | 1986 | 1245.62 | 5013 | 56221 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1245.39 | 4590 | 55798 | 52 | 1973 | 1245.51 | 4986 | 56194 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1244.57 | 1867 | 53075 | 53 | 1974 | 1245.42 | 4708 | 55916 | 0.624 | 62.44 |
| 1969 | 3/6/1969 | 1258.58 | 51234 | 102442 | 54 | 1967 | 1245.39 | 4590 | 55798 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.88 | 26791 | 77999 | 55 | 1976 | 1245.15 | 3811 | 55019 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.83 | 12806 | 64014 | 56 | 1990 | 1245.14 | 3752 | 54960 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1244.29 | 947 | 52155 | 57 | 1950 | 1244.66 | 2171 | 53379 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1245.51 | 4986 | 56194 | 58 | 1935 | 1244.6 | 1964 | 53172 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1245.42 | 4708 | 55916 | 59 | 1968 | 1244.57 | 1867 | 53075 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1244.54 | 1793 | 53001 | 60 | 1975 | 1244.54 | 1793 | 53001 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1245.15 | 3811 | 55019 | 61 | 1933 | 1244.53 | 1756 | 52964 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1244.4 | 1321 | 52529 | 62 | 1946 | 1244.53 | 1735 | 52943 | 0.731 | 73.10 |
| 1978 | 3/31/1978 | 1258.1 | 49404 | 100612 | 63 | 1936 | 1244.48 | 1681 | 52789 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.9 | 44883 | 96091 | 64 | 1954 | 1244.47 | 1541 | 52749 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 68532 | 119740 | 65 | 1931 | 1244.46 | 1476 | 52684 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 33202 | 84410 | 66 | 1977 | 1244.4 | 1321 | 52529 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 19666 | 70874 | 67 | 1955 | 1244.38 | 1240 | 52448 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 55474 | 106682 | 68 | 1949 | 1244.33 | 1103 | 52311 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 36519 | 87727 | 69 | 1948 | 1244.32 | 1044 | 52252 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.18 | 17419 | 68627 | 70 | 1962 | 1244.31 | 1008 | 52216 | 0.826 | 82.58 |
| 1986 | 4/1/1986 | 1245.52 | 5013 | 56221 | 71 | 1972 | 1244.29 | 947 | 52155 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1244 | 0 | 51208 | 72 | 1947 | 1244.28 | 929 | 52137 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1244.06 | 209 | 51417 | 73 | 1934 | 1244.19 | 633 | 51841 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1244.03 | 112 | 51320 | 74 | 1956 | 1244.16 | 520 | 51728 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1244.09 | 288 | 51496 | 75 | 1960 | 1244.12 | 412 | 51620 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1246.92 | 9734 | 60942 | 76 | 1959 | 1244.1 | 335 | 51543 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1246.57 | 8553 | 59761 | 77 | 1990 | 1244.09 | 288 | 51496 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.66 | 67078 | 118286 | 78 | 1988 | 1244.06 | 209 | 51417 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 32962 | 84170 | 79 | 1989 | 1244.03 | 112 | 51320 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 49727 | 100935 | 80 | 1951 | 1244 | 0 | 51208 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 31519 | 82727 | 81 | 1957 | 1244 | 0 | 51208 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 20852 | 72060 | 82 | 1961 | 1244 | 0 | 51208 | 0.968 | 96.80 |

[redacted] Lake [redacted] nore [redacted] rts fo [redacted] e Re [redacted] nme [redacted] vel 1 [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1244 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1244 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m 0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 26930 | 78138 | 83 | 1963 | 1244 | 0 | 51208 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1248.62 | 15488 | 66696 | 84 | 1987 | 1244 | 0 | 51208 | 0.992 | 99.17 |

Table 6

[redacted] [redacted] [redacted] [redacted] [redacted] T[redacted]. La[redacted] inor[redacted] ults [redacted] ke Ra[redacted] shm[redacted] Level [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1245 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1245 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/2016 | 1263.11 | 65549 | 120053 | 1 | 1916 | 1263.11 | 65549 | 120053 | 0.008 | 0.83 |
| 1917 | 4/1/2017 | 1254.85 | 34057 | 88561 | 2 | 1980 | 1263.03 | 65236 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/2018 | 1254.08 | 31312 | 85816 | 3 | 1993 | 1262.67 | 63801 | 118305 | 0.032 | 3.20 |
| 1919 | 10/1/2018 | 1250.75 | 19525 | 74029 | 4 | 1938 | 1261.37 | 58722 | 113226 | 0.044 | 4.38 |
| 1920 | 4/1/2020 | 1249.3 | 14525 | 69029 | 5 | 1937 | 1261.07 | 57522 | 112026 | 0.056 | 5.57 |
| 1921 | 10/1/2020 | 1246.18 | 3937 | 58441 | 6 | 1927 | 1260.05 | 53559 | 108063 | 0.068 | 6.75 |
| 1922 | 3/25/2022 | 1259.16 | 50130 | 104634 | 7 | 1983 | 1259.69 | 52178 | 106682 | 0.079 | 7.94 |
| 1923 | 2/1/2023 | 1253.35 | 28703 | 83207 | 8 | 1969 | 1259.22 | 50370 | 104874 | 0.091 | 9.12 |
| 1924 | 10/1/2023 | 1249.8 | 16238 | 70742 | 9 | 1922 | 1259.16 | 50130 | 104634 | 0.103 | 10.31 |
| 1925 | 10/1/2024 | 1246 | 3324 | 57828 | 10 | 1978 | 1258.42 | 47307 | 101811 | 0.115 | 11.49 |
| 1926 | 4/1/2026 | 1248.62 | 12211 | 66715 | 11 | 1941 | 1258.35 | 47076 | 101580 | 0.127 | 12.68 |
| 1927 | 2/28/2027 | 1260.05 | 53559 | 108063 | 12 | 1995 | 1258.18 | 46431 | 100935 | 0.139 | 13.86 |
| 1928 | 10/1/2027 | 1252.95 | 27269 | 81773 | 13 | 1979 | 1256.91 | 41637 | 96141 | 0.150 | 15.05 |
| 1929 | 10/1/2028 | 1249.09 | 13819 | 68323 | 14 | 1939 | 1255.5 | 36442 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1245.81 | 2699 | 57203 | 15 | 1917 | 1254.85 | 34057 | 88561 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1245.45 | 1491 | 55995 | 16 | 1984 | 1254.61 | 33223 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1248.44 | 11600 | 66104 | 17 | 1942 | 1254.15 | 31567 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1245.53 | 1767 | 56271 | 18 | 1918 | 1254.08 | 31312 | 85816 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1245.19 | 634 | 55139 | 19 | 1981 | 1253.69 | 29907 | 84411 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1245.59 | 1974 | 56478 | 20 | 1994 | 1253.62 | 29667 | 84171 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1245.48 | 1596 | 56100 | 21 | 1923 | 1253.35 | 28703 | 83207 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1261.07 | 57522 | 112026 | 22 | 1943 | 1253.33 | 28651 | 83155 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 58722 | 113226 | 23 | 1996 | 1253.21 | 28224 | 82728 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 36442 | 90946 | 24 | 1928 | 1252.95 | 27269 | 81773 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 25947 | 80451 | 25 | 1940 | 1252.57 | 25947 | 80451 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 47076 | 101580 | 26 | 1970 | 1251.96 | 23782 | 78286 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 31567 | 86071 | 27 | 1998 | 1251.92 | 23635 | 78139 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 28651 | 83155 | 28 | 1944 | 1251.08 | 20689 | 75193 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 20689 | 75193 | 29 | 1919 | 1250.75 | 19525 | 74029 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.98 | 10030 | 64534 | 30 | 1964 | 1250.71 | 19407 | 73911 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1245.24 | 815 | 55319 | 31 | 1952 | 1250.37 | 18222 | 72726 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1245.28 | 932 | 55436 | 32 | 1997 | 1250.18 | 17556 | 72060 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1245.31 | 1030 | 55534 | 33 | 1982 | 1249.83 | 16370 | 70874 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1245.33 | 1109 | 55613 | 34 | 1924 | 1249.8 | 16238 | 70742 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1245.65 | 2158 | 56662 | 35 | 1920 | 1249.3 | 14525 | 69029 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1245 | 0 | 54504 | 36 | 1985 | 1249.18 | 14123 | 68627 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1250.37 | 18222 | 72726 | 37 | 1929 | 1249.09 | 13819 | 68323 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1247.31 | 7742 | 62246 | 38 | 1966 | 1248.92 | 13223 | 67727 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1245.47 | 1553 | 56057 | 39 | 1926 | 1248.62 | 12211 | 66715 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1245.37 | 1243 | 55747 | 40 | 1999 | 1248.62 | 12193 | 66697 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1245.16 | 525 | 55029 | 41 | 1932 | 1248.44 | 11600 | 66104 | 0.482 | 48.22 |

Table 7

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1245 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1245 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1245 | 0 | 54504 | 42 | 1945 | 1247.98 | 10030 | 64534 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1247.68 | 9004 | 63508 | 43 | 1971 | 1247.91 | 9789 | 64293 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1245.1 | 340 | 54844 | 44 | 1991 | 1247.89 | 9729 | 64233 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1245.13 | 418 | 54922 | 45 | 1958 | 1247.68 | 9004 | 63508 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1245 | 0 | 54504 | 46 | 1992 | 1247.55 | 8565 | 63069 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1245.31 | 1022 | 55526 | 47 | 1965 | 1247.46 | 8255 | 62759 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1245 | 0 | 54504 | 48 | 1953 | 1247.31 | 7742 | 62246 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1250.71 | 19407 | 73911 | 49 | 1973 | 1246.49 | 4975 | 59479 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1247.46 | 8255 | 62759 | 50 | 1974 | 1246.41 | 4698 | 59202 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1248.92 | 13223 | 67727 | 51 | 1967 | 1246.35 | 4514 | 59018 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1246.35 | 4514 | 59018 | 52 | 1921 | 1246.18 | 3937 | 58441 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1245.56 | 1857 | 56361 | 53 | 1976 | 1246.14 | 3817 | 58321 | 0.624 | 62.44 |
| 1969 | 3/6/1969 | 1259.22 | 50370 | 104874 | 54 | 1925 | 1246 | 3324 | 57828 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.96 | 23782 | 78286 | 55 | 1930 | 1245.81 | 2699 | 57203 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.91 | 9789 | 64293 | 56 | 1950 | 1245.65 | 2158 | 56662 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1245.29 | 957 | 55461 | 57 | 1986 | 1245.64 | 2137 | 56641 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1246.49 | 4975 | 59479 | 58 | 1935 | 1245.59 | 1974 | 56478 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1246.41 | 4698 | 59202 | 59 | 1968 | 1245.56 | 1857 | 56361 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1245.54 | 1794 | 56298 | 60 | 1975 | 1245.54 | 1794 | 56298 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1246.14 | 3817 | 58321 | 61 | 1933 | 1245.53 | 1767 | 56271 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1245.4 | 1316 | 55820 | 62 | 1936 | 1245.48 | 1596 | 56100 | 0.731 | 73.10 |
| 1978 | 3/31/1978 | 1258.42 | 47307 | 101811 | 63 | 1954 | 1245.47 | 1553 | 56057 | 0.743 | 74.29 |
| 1979 | 4/18/1979 | 1256.91 | 41637 | 96141 | 64 | 1931 | 1245.45 | 1491 | 55995 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 65236 | 119740 | 65 | 1977 | 1245.4 | 1316 | 55820 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 29907 | 84411 | 66 | 1955 | 1245.37 | 1243 | 55747 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 16370 | 70874 | 67 | 1949 | 1245.33 | 1109 | 55613 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 52178 | 106682 | 68 | 1948 | 1245.31 | 1030 | 55534 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 33223 | 87727 | 69 | 1962 | 1245.31 | 1022 | 55526 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.18 | 14123 | 68627 | 70 | 1972 | 1245.29 | 957 | 55461 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1245.64 | 2137 | 58641 | 71 | 1947 | 1245.28 | 932 | 55436 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1245 | 0 | 54504 | 72 | 1946 | 1245.24 | 815 | 55319 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1245.06 | 210 | 54714 | 73 | 1934 | 1245.19 | 634 | 55138 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1245.03 | 112 | 54616 | 74 | 1956 | 1245.16 | 525 | 55029 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1245.09 | 290 | 54794 | 75 | 1960 | 1245.13 | 418 | 54922 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1247.89 | 9729 | 64233 | 76 | 1959 | 1245.1 | 340 | 54844 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1247.55 | 8565 | 63069 | 77 | 1990 | 1245.09 | 290 | 54794 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.67 | 63801 | 118305 | 78 | 1988 | 1245.06 | 210 | 54714 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 29667 | 84171 | 79 | 1989 | 1245.03 | 112 | 54616 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 46431 | 100935 | 80 | 1951 | 1245 | 0 | 54504 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 28224 | 82728 | 81 | 1957 | 1245 | 0 | 54504 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 17556 | 72060 | 82 | 1961 | 1245 | 0 | 54504 | 0.968 | 96.80 |

Table 7

[redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1245 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1245 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 23635 | 78139 | 83 | 1963 | 1245 | 0 | 54504 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1248.62 | 12193 | 66697 | 84 | 1987 | 1245 | 0 | 54504 | 0.992 | 99.17 |

Table 7

Table 8. Lake Elsinore Results for Lake Replenishment Level 1246

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1246 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1246 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/1916 | 1263.13 | 62288 | 120123 | 1 | 1916 | 1263.13 | 62288 | 120123 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.85 | 30730 | 88565 | 2 | 1980 | 1263.03 | 61905 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.08 | 27985 | 85820 | 3 | 1993 | 1262.37 | 60488 | 118323 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.75 | 16198 | 74033 | 4 | 1938 | 1261.37 | 55391 | 113226 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1249.3 | 11198 | 69033 | 5 | 1937 | 1261.28 | 55073 | 112908 | 0.056 | 5.57 |
| 1921 | 10/1/1920 | 1246.18 | 609 | 58444 | 6 | 1927 | 1260.56 | 52225 | 110060 | 0.068 | 6.75 |
| 1922 | 3/23/1922 | 1259.28 | 47283 | 105118 | 7 | 1969 | 1259.85 | 49480 | 107315 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.35 | 25386 | 83221 | 8 | 1983 | 1259.69 | 48847 | 106682 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.8 | 12921 | 70756 | 9 | 1922 | 1259.28 | 47283 | 105118 | 0.103 | 10.31 |
| 1925 | 2/1/1925 | 1246.06 | 217 | 58052 | 10 | 1978 | 1259.01 | 46217 | 104052 | 0.116 | 11.49 |
| 1926 | 4/1/1926 | 1249.59 | 12210 | 70045 | 11 | 1941 | 1258.35 | 43745 | 101580 | 0.127 | 12.68 |
| 1927 | 2/26/1927 | 1260.56 | 52225 | 110060 | 12 | 1995 | 1258.18 | 43100 | 100935 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.96 | 23974 | 81809 | 13 | 1979 | 1256.92 | 38340 | 96175 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.1 | 10522 | 68357 | 14 | 1939 | 1255.5 | 33111 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1246.81 | 2712 | 60547 | 15 | 1917 | 1254.85 | 30730 | 88565 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1246.45 | 1502 | 59337 | 16 | 1984 | 1254.61 | 29892 | 87727 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1249.42 | 11628 | 69463 | 17 | 1942 | 1254.15 | 28236 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1246.53 | 1775 | 59610 | 18 | 1918 | 1254.08 | 27985 | 85820 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1246.19 | 635 | 58470 | 19 | 1981 | 1253.69 | 26576 | 84411 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1246.59 | 1983 | 59818 | 20 | 1994 | 1253.62 | 26336 | 84171 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1246.48 | 1607 | 59442 | 21 | 1923 | 1253.35 | 25386 | 83221 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1261.28 | 112908 | 170743 | 22 | 1943 | 1253.33 | 25320 | 83155 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 55391 | 113226 | 23 | 1996 | 1253.21 | 24893 | 82728 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 33111 | 90946 | 24 | 1928 | 1252.96 | 23974 | 81809 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 22616 | 80451 | 25 | 1940 | 1252.57 | 22616 | 80451 | 0.293 | 29.27 |
| 1941 | 4/22/1941 | 1258.35 | 43745 | 101580 | 26 | 1970 | 1251.99 | 20530 | 78365 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 28236 | 86071 | 27 | 1998 | 1251.92 | 20304 | 78139 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 25320 | 83155 | 28 | 1964 | 1251.66 | 19399 | 77234 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 17358 | 75193 | 29 | 1952 | 1251.33 | 18235 | 76070 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.98 | 8699 | 64534 | 30 | 1944 | 1251.08 | 17358 | 75193 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1246.24 | 817 | 58652 | 31 | 1919 | 1250.75 | 16198 | 74033 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1246.28 | 934 | 58769 | 32 | 1997 | 1250.18 | 14225 | 72060 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1246.3 | 1021 | 58856 | 33 | 1986 | 1249.89 | 13231 | 71066 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1246.33 | 1116 | 58951 | 34 | 1982 | 1249.83 | 13039 | 70874 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1246.64 | 2148 | 59983 | 35 | 1924 | 1249.8 | 12921 | 70756 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1246 | 0 | 57835 | 36 | 1926 | 1249.59 | 12210 | 70045 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1251.33 | 18235 | 76070 | 37 | 1932 | 1249.42 | 11628 | 69463 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1249.27 | 7683 | 65518 | 38 | 1920 | 1249.3 | 11198 | 69033 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1246.46 | 1561 | 59396 | 39 | 1985 | 1249.81 | 10792 | 68627 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1246.37 | 1245 | 59080 | 40 | 1929 | 1249.1 | 10522 | 68357 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1246.16 | 528 | 58363 | 41 | 1991 | 1248.87 | 9723 | 67558 | 0.482 | 48.22 |

Table 8: Lake Elsinore Results for Lake Replenishment Level 1246

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1246 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1246 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1246 | 0 | 57835 | 42 | 1958 | 1248.66 | 9014 | 66849 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1248.66 | 9014 | 66849 | 43 | 1999 | 1248.62 | 8862 | 66697 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1246.1 | 343 | 58178 | 44 | 1992 | 1248.53 | 8574 | 66409 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1246.13 | 421 | 58256 | 45 | 1965 | 1248.41 | 8170 | 66005 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1246 | 0 | 57835 | 46 | 1953 | 1248.27 | 7683 | 65518 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1246.31 | 1030 | 58865 | 47 | 1945 | 1247.98 | 6699 | 64534 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1246 | 0 | 57835 | 48 | 1971 | 1247.93 | 6535 | 64370 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1251.66 | 19399 | 77234 | 49 | 1973 | 1247.47 | 4972 | 62807 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1248.41 | 8170 | 66005 | 50 | 1974 | 1247.39 | 4685 | 62520 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1249.89 | 13231 | 71066 | 51 | 1967 | 1247.32 | 4451 | 62286 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1247.32 | 4451 | 62286 | 52 | 1976 | 1247.13 | 3823 | 61658 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1246.55 | 1849 | 59684 | 53 | 1939 | 1246.81 | 2712 | 60547 | 0.624 | 62.44 |
| 1969 | 3/5/1969 | 1259.85 | 49480 | 107315 | 54 | 1950 | 1246.64 | 2148 | 59983 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1251.99 | 20530 | 78365 | 55 | 1986 | 1246.63 | 2129 | 59964 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.93 | 6535 | 64370 | 56 | 1935 | 1246.59 | 1983 | 59818 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1246.29 | 962 | 58797 | 57 | 1968 | 1246.55 | 1849 | 59684 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1247.47 | 4972 | 62807 | 58 | 1975 | 1246.53 | 1794 | 59629 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1247.39 | 4685 | 62520 | 59 | 1933 | 1246.53 | 1775 | 59610 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1246.53 | 1794 | 59629 | 60 | 1936 | 1246.48 | 1607 | 59442 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1247.13 | 3823 | 61658 | 61 | 1954 | 1246.46 | 1561 | 59396 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1246.39 | 1313 | 59148 | 62 | 1931 | 1246.45 | 1502 | 59337 | 0.731 | 73.10 |
| 1978 | 3/10/1978 | 1259.01 | 46217 | 104052 | 63 | 1977 | 1246.39 | 1313 | 59148 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.92 | 38340 | 96175 | 64 | 1955 | 1246.37 | 1245 | 59080 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 61905 | 119740 | 65 | 1949 | 1246.33 | 1116 | 58951 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 26576 | 84411 | 66 | 1962 | 1246.31 | 1030 | 58865 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 13039 | 70874 | 67 | 1948 | 1246.3 | 1021 | 58856 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.69 | 48847 | 106682 | 68 | 1972 | 1246.29 | 962 | 58797 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.61 | 29892 | 87727 | 69 | 1947 | 1246.28 | 934 | 58769 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.81 | 10792 | 68627 | 70 | 1946 | 1246.24 | 817 | 58652 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1246.63 | 2129 | 59964 | 71 | 1934 | 1246.19 | 635 | 58470 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1246 | 0 | 57835 | 72 | 1921 | 1246.18 | 609 | 58444 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1246.06 | 211 | 58046 | 73 | 1966 | 1246.16 | 528 | 58363 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1246.03 | 112 | 57947 | 74 | 1960 | 1246.13 | 421 | 58256 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1246.09 | 291 | 58126 | 75 | 1959 | 1246.1 | 343 | 58178 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1248.87 | 9723 | 67558 | 76 | 1990 | 1246.09 | 291 | 58126 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1248.53 | 8574 | 66409 | 77 | 1925 | 1246.06 | 217 | 58052 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.37 | 60488 | 118323 | 78 | 1988 | 1246.06 | 211 | 58046 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 26336 | 84171 | 79 | 1989 | 1246.03 | 112 | 57947 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 43100 | 100935 | 80 | 1951 | 1246 | 0 | 57835 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 24893 | 82728 | 81 | 1957 | 1246 | 0 | 57835 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 14225 | 72060 | 82 | 1961 | 1246 | 0 | 57835 | 0.968 | 96.80 |

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1246 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1246 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1251.92 | 20304 | 78139 | 83 | 1963 | 1246 | 0 | 57835 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1248.62 | 8862 | 66697 | 84 | 1987 | 1246 | 0 | 57835 | 0.992 | 99.17 |

Table 8

Table 9. Lake Elsinore Results for Lake Replenishment Level 1247

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1247 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1247 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/1916 | 1263.17 | 59080 | 120281 | 1 | 1916 | 1263.17 | 59080 | 120281 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.85 | 27364 | 88565 | 2 | 1980 | 1263.03 | 58539 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.08 | 24619 | 85820 | 3 | 1993 | 1262.67 | 57118 | 118319 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.75 | 12832 | 74033 | 4 | 1937 | 1261.45 | 52318 | 113519 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1249.3 | 7832 | 69033 | 5 | 1938 | 1261.37 | 52025 | 113226 | 0.056 | 5.57 |
| 1921 | 2/1/1921 | 1247.11 | 390 | 61591 | 6 | 1927 | 1261.08 | 50893 | 112094 | 0.068 | 6.75 |
| 1922 | 3/23/1922 | 1259.39 | 44317 | 105518 | 7 | 1969 | 1260.48 | 48538 | 109739 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.36 | 22031 | 83232 | 8 | 1983 | 1259.84 | 46076 | 107277 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.8 | 9565 | 70766 | 9 | 1978 | 1259.68 | 45453 | 106654 | 0.103 | 10.31 |
| 1925 | 2/1/1925 | 1247.06 | 206 | 61407 | 10 | 1922 | 1259.39 | 44317 | 105518 | 0.115 | 11.49 |
| 1926 | 4/1/1926 | 1250.57 | 12207 | 73408 | 11 | 1941 | 1258.35 | 40379 | 101580 | 0.127 | 12.68 |
| 1927 | 2/25/1927 | 1261.08 | 50893 | 112094 | 12 | 1995 | 1258.18 | 39734 | 100935 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.96 | 20636 | 81837 | 13 | 1979 | 1256.93 | 35001 | 96202 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.11 | 7184 | 68385 | 14 | 1939 | 1255.5 | 29745 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1247.8 | 2724 | 63925 | 15 | 1917 | 1254.85 | 27364 | 88565 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1247.45 | 1514 | 62715 | 16 | 1984 | 1254.62 | 26534 | 87735 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1250.4 | 11643 | 72844 | 17 | 1942 | 1254.15 | 24870 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1247.53 | 1784 | 62985 | 18 | 1918 | 1254.08 | 24619 | 85820 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1247.19 | 636 | 61837 | 19 | 1981 | 1253.69 | 23210 | 84411 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1247.59 | 1992 | 63193 | 20 | 1994 | 1253.62 | 22970 | 84171 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1247.48 | 1620 | 62821 | 21 | 1923 | 1253.36 | 22031 | 83232 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1261.45 | 52318 | 113519 | 22 | 1943 | 1253.33 | 21954 | 83155 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 52025 | 113226 | 23 | 1996 | 1253.21 | 21527 | 82728 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 29745 | 90946 | 24 | 1928 | 1252.96 | 20636 | 81837 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 19250 | 80451 | 25 | 1998 | 1252.73 | 19803 | 81004 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 40379 | 101580 | 26 | 1964 | 1252.61 | 19395 | 80596 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 24870 | 86071 | 27 | 1940 | 1252.57 | 19250 | 80451 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 21954 | 83155 | 28 | 1952 | 1252.29 | 18229 | 79430 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 13992 | 75193 | 29 | 1970 | 1252.01 | 17231 | 78432 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1247.98 | 3333 | 64534 | 30 | 1944 | 1251.08 | 13992 | 75193 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1247.24 | 820 | 62021 | 31 | 1966 | 1250.86 | 13235 | 74436 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1247.28 | 936 | 62137 | 32 | 1919 | 1250.75 | 12832 | 74033 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1247.3 | 1009 | 62210 | 33 | 1926 | 1250.57 | 12207 | 73408 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1247.33 | 1118 | 62319 | 34 | 1932 | 1250.4 | 11643 | 72844 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1247.63 | 2137 | 63338 | 35 | 1997 | 1250.18 | 10859 | 72060 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1247 | 0 | 61201 | 36 | 1991 | 1249.85 | 9719 | 70920 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1252.29 | 18229 | 79430 | 37 | 1982 | 1249.83 | 9673 | 70874 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1249.22 | 7569 | 68770 | 38 | 1924 | 1249.8 | 9565 | 70766 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1247.46 | 1671 | 62772 | 39 | 1958 | 1249.65 | 9025 | 70226 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1247.37 | 1247 | 62448 | 40 | 1992 | 1249.52 | 8582 | 69783 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1247.16 | 532 | 61733 | 41 | 1999 | 1249.42 | 8253 | 69454 | 0.482 | 48.22 |

Table 9: Lake Elsinore Results for Lake Replenishment Level 1247

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1247 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1247 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1247 | 0 | 61201 | 42 | 1965 | 1249.36 | 8036 | 69237 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1249.65 | 9025 | 70226 | 43 | 1920 | 1249.3 | 7832 | 69033 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1247.1 | 347 | 61548 | 44 | 1953 | 1249.22 | 7569 | 68770 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1247.13 | 426 | 61627 | 45 | 1985 | 1249.18 | 7434 | 68635 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1247 | 0 | 61201 | 46 | 1929 | 1249.11 | 7184 | 68385 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1247.31 | 1042 | 62243 | 47 | 1973 | 1248.46 | 4962 | 66163 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1247 | 0 | 61201 | 48 | 1974 | 1248.38 | 4680 | 65881 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1252.61 | 19395 | 80596 | 49 | 1967 | 1248.29 | 4374 | 65575 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1249.36 | 8036 | 69237 | 50 | 1976 | 1248.13 | 3829 | 65030 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1250.86 | 13235 | 74436 | 51 | 1945 | 1247.98 | 3333 | 64534 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1248.29 | 4374 | 65575 | 52 | 1971 | 1247.95 | 3234 | 64435 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1247.54 | 1841 | 63042 | 53 | 1930 | 1247.8 | 2724 | 63925 | 0.624 | 62.44 |
| 1969 | 3/4/1969 | 1260.48 | 48538 | 109739 | 54 | 1950 | 1247.63 | 2137 | 63338 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1252.01 | 17231 | 78432 | 55 | 1986 | 1247.62 | 2119 | 63320 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1247.95 | 3234 | 64435 | 56 | 1935 | 1247.59 | 1992 | 63193 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1247.29 | 970 | 62171 | 57 | 1968 | 1247.54 | 1841 | 63042 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1248.46 | 4962 | 66163 | 58 | 1975 | 1247.53 | 1795 | 62996 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1248.38 | 4680 | 65881 | 59 | 1933 | 1247.53 | 1784 | 62985 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1247.53 | 1795 | 62996 | 60 | 1936 | 1247.48 | 1620 | 62821 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1248.13 | 3829 | 65030 | 61 | 1954 | 1247.46 | 1571 | 62772 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1247.39 | 1308 | 62509 | 62 | 1931 | 1247.45 | 1514 | 62715 | 0.731 | 73.10 |
| 1978 | 3/10/1978 | 1259.68 | 45453 | 106654 | 63 | 1977 | 1247.39 | 1308 | 62509 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.93 | 35001 | 96202 | 64 | 1955 | 1247.37 | 1247 | 62448 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 58539 | 119740 | 65 | 1949 | 1247.33 | 1118 | 62319 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 23210 | 84411 | 66 | 1962 | 1247.31 | 1042 | 62243 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 9673 | 70874 | 67 | 1948 | 1247.3 | 1009 | 62210 | 0.790 | 79.03 |
| 1983 | 3/31/1983 | 1259.84 | 46076 | 107277 | 68 | 1972 | 1247.29 | 970 | 62171 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.62 | 26534 | 87735 | 69 | 1947 | 1247.28 | 936 | 62137 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.18 | 7434 | 68635 | 70 | 1946 | 1247.24 | 820 | 62021 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1247.62 | 2119 | 63320 | 71 | 1934 | 1247.19 | 636 | 61837 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1247 | 0 | 61201 | 72 | 1956 | 1247.16 | 532 | 61733 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1247.06 | 212 | 61413 | 73 | 1960 | 1247.13 | 426 | 61627 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1247.03 | 113 | 61314 | 74 | 1921 | 1247.11 | 390 | 61591 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1247.09 | 292 | 61493 | 75 | 1959 | 1247.1 | 347 | 61548 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1249.85 | 9719 | 70920 | 76 | 1990 | 1247.09 | 292 | 61493 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1249.52 | 8582 | 69783 | 77 | 1988 | 1247.06 | 212 | 61413 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.67 | 57118 | 118319 | 78 | 1925 | 1247.06 | 206 | 61407 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 22970 | 84171 | 79 | 1989 | 1247.03 | 113 | 61314 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 39734 | 100935 | 80 | 1951 | 1247 | 0 | 61201 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 21527 | 82728 | 81 | 1957 | 1247 | 0 | 61201 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 10859 | 72060 | 82 | 1961 | 1247 | 0 | 61201 | 0.968 | 96.80 |

[redacted] Lak[redacted]nore[redacted]ults f[redacted]e Re[redacted]shm[redacted]vel [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1247 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1247 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1252.73 | 19803 | 81004 | 83 | 1963 | 1247 | 0 | 61201 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1249.42 | 8253 | 69454 | 84 | 1987 | 1247 | 0 | 61201 | 0.992 | 99.17 |

Table 9

Table 10. Lake Elsinore Results for Lake Replenishment Level 1248

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1248 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1248 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/29/1916 | 1263.19 | 55765 | 120361 | 1 | 1916 | 1263.19 | 55765 | 120361 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.85 | 23969 | 88565 | 2 | 1980 | 1263.03 | 55144 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.08 | 21224 | 85820 | 3 | 1993 | 1262.67 | 53723 | 118319 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.75 | 9437 | 74033 | 4 | 1927 | 1261.62 | 49592 | 114188 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1250.22 | 7620 | 72216 | 5 | 1937 | 1261.57 | 49411 | 114007 | 0.056 | 5.57 |
| 1921 | 2/1/1921 | 1248.11 | 392 | 64988 | 6 | 1938 | 1261.37 | 48630 | 113226 | 0.068 | 6.75 |
| 1922 | 2/28/1922 | 1259.58 | 41652 | 106248 | 7 | 1969 | 1261.09 | 47515 | 112111 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.36 | 18645 | 83241 | 8 | 1978 | 1260.32 | 44538 | 109134 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.81 | 6179 | 70775 | 9 | 1983 | 1260.09 | 43624 | 108220 | 0.103 | 10.31 |
| 1925 | 2/1/1925 | 1248.06 | 201 | 64797 | 10 | 1922 | 1259.58 | 41652 | 106248 | 0.115 | 11.49 |
| 1926 | 4/1/1926 | 1251.54 | 12212 | 76808 | 11 | 1941 | 1258.35 | 36984 | 101580 | 0.127 | 12.68 |
| 1927 | 2/24/1927 | 1261.62 | 49592 | 114188 | 12 | 1995 | 1258.18 | 36339 | 100935 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.97 | 17265 | 81861 | 13 | 1979 | 1256.93 | 31629 | 96225 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.12 | 3811 | 68407 | 14 | 1939 | 1255.5 | 26350 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1248.8 | 2730 | 67326 | 15 | 1917 | 1254.85 | 23969 | 88565 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1248.45 | 1520 | 66116 | 16 | 1984 | 1254.62 | 23150 | 87746 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1251.38 | 11643 | 76239 | 17 | 1942 | 1254.15 | 21475 | 86071 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1248.52 | 1787 | 66383 | 18 | 1918 | 1254.08 | 21224 | 85820 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1248.19 | 636 | 65232 | 19 | 1998 | 1253.69 | 19836 | 84432 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1248.59 | 1996 | 66592 | 20 | 1981 | 1253.69 | 19815 | 84411 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1248.48 | 1626 | 66222 | 21 | 1994 | 1253.62 | 19575 | 84171 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1261.57 | 49411 | 114007 | 22 | 1964 | 1253.57 | 19389 | 83985 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 48630 | 113226 | 23 | 1923 | 1253.36 | 18645 | 83241 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 26350 | 90946 | 24 | 1943 | 1253.33 | 18559 | 83155 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 15855 | 80451 | 25 | 1952 | 1253.25 | 18244 | 82840 | 0.293 | 29.27 |
| 1941 | 4/23/1941 | 1258.35 | 36984 | 101580 | 26 | 1996 | 1253.21 | 18132 | 82728 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.15 | 21475 | 86071 | 27 | 1928 | 1252.97 | 17265 | 81861 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.33 | 18559 | 83155 | 28 | 1940 | 1252.57 | 15855 | 80451 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.08 | 10597 | 75193 | 29 | 1970 | 1252.02 | 13889 | 78485 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1248.15 | 517 | 65113 | 30 | 1966 | 1251.83 | 13234 | 77830 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1248.24 | 821 | 65417 | 31 | 1926 | 1251.54 | 12212 | 76808 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1248.28 | 938 | 65534 | 32 | 1932 | 1251.38 | 11643 | 76239 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1248.29 | 1004 | 65600 | 33 | 1944 | 1251.08 | 10597 | 75193 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1248.33 | 1120 | 65716 | 34 | 1991 | 1250.93 | 9716 | 74312 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1248.63 | 2132 | 66728 | 35 | 1919 | 1250.75 | 9437 | 74033 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1248 | 0 | 64596 | 36 | 1958 | 1250.63 | 9030 | 73626 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1253.25 | 18244 | 82840 | 37 | 1992 | 1250.5 | 8588 | 73184 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1250.18 | 7472 | 72068 | 38 | 1999 | 1250.39 | 8184 | 72780 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1248.46 | 1575 | 66171 | 39 | 1965 | 1250.31 | 7928 | 72524 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1248.37 | 1249 | 65845 | 40 | 1920 | 1250.22 | 7620 | 72216 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1248.16 | 535 | 65131 | 41 | 1953 | 1250.18 | 7472 | 72068 | 0.482 | 48.22 |

Table 10

Table 10. Lake Elsinore Results for Lake Replenishment Level 1248

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1248 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1248 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1248 | 0 | 64596 | 42 | 1997 | 1250.18 | 7464 | 72060 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1250.63 | 9030 | 73626 | 43 | 1982 | 1249.83 | 6278 | 70874 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1248.1 | 349 | 64945 | 44 | 1924 | 1249.81 | 6179 | 70775 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1248.13 | 428 | 65024 | 45 | 1973 | 1249.45 | 4957 | 69553 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1248 | 0 | 64596 | 46 | 1974 | 1249.37 | 4674 | 69270 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1248.31 | 1047 | 65643 | 47 | 1967 | 1249.25 | 4284 | 68880 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1248 | 0 | 64596 | 48 | 1985 | 1249.19 | 4050 | 68646 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1253.57 | 19389 | 83985 | 49 | 1976 | 1249.12 | 3832 | 68428 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1250.31 | 7928 | 72524 | 50 | 1929 | 1249.12 | 3811 | 68407 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1251.83 | 13234 | 77830 | 51 | 1930 | 1248.8 | 2730 | 67326 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1249.25 | 4284 | 68880 | 52 | 1950 | 1248.63 | 2132 | 66728 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1248.54 | 1837 | 66433 | 53 | 1986 | 1248.62 | 2115 | 66711 | 0.624 | 62.44 |
| 1969 | 3/2/1969 | 1261.09 | 47515 | 112111 | 54 | 1935 | 1248.59 | 1996 | 66592 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1252.02 | 13889 | 78485 | 55 | 1968 | 1248.54 | 1837 | 66433 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1248.3 | 1018 | 65614 | 56 | 1975 | 1248.53 | 1796 | 66392 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1248.29 | 974 | 65570 | 57 | 1933 | 1248.52 | 1787 | 66383 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1249.45 | 4957 | 69553 | 58 | 1936 | 1248.48 | 1626 | 66222 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1249.37 | 4674 | 69270 | 59 | 1954 | 1248.46 | 1575 | 66171 | 0.695 | 69.55 |
| 1975 | 3/1/1975 | 1248.53 | 1796 | 66392 | 60 | 1931 | 1248.45 | 1520 | 66116 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1249.12 | 3832 | 68428 | 61 | 1977 | 1248.38 | 1306 | 65902 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1248.38 | 1306 | 65902 | 62 | 1955 | 1248.37 | 1249 | 65845 | 0.731 | 73.10 |
| 1978 | 3/9/1978 | 1260.32 | 44538 | 109134 | 63 | 1949 | 1248.33 | 1120 | 65716 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.93 | 31629 | 96225 | 64 | 1962 | 1248.31 | 1047 | 65643 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 55144 | 119740 | 65 | 1971 | 1248.3 | 1018 | 65614 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 19815 | 84411 | 66 | 1948 | 1248.29 | 1004 | 65600 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1249.83 | 6278 | 70874 | 67 | 1972 | 1248.29 | 974 | 65570 | 0.790 | 79.03 |
| 1983 | 3/30/1983 | 1260.09 | 43624 | 108220 | 68 | 1947 | 1248.28 | 938 | 65534 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.62 | 23150 | 87746 | 69 | 1946 | 1248.24 | 821 | 65417 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.19 | 4050 | 68646 | 70 | 1934 | 1248.19 | 636 | 65232 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1248.62 | 2115 | 66711 | 71 | 1956 | 1248.16 | 535 | 65131 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1248 | 0 | 64596 | 72 | 1945 | 1248.15 | 517 | 65113 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1248.06 | 213 | 64809 | 73 | 1960 | 1248.13 | 428 | 65024 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1248.03 | 113 | 64709 | 74 | 1921 | 1248.11 | 392 | 64988 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1248.09 | 293 | 64889 | 75 | 1959 | 1248.1 | 349 | 64945 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1250.83 | 9716 | 74312 | 76 | 1990 | 1248.09 | 293 | 64889 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1250.5 | 8588 | 73184 | 77 | 1988 | 1248.06 | 213 | 64809 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.67 | 53723 | 118319 | 78 | 1925 | 1248.06 | 201 | 64797 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 19575 | 84171 | 79 | 1989 | 1248.03 | 113 | 64709 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 36339 | 100935 | 80 | 1951 | 1248 | 0 | 64596 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 18132 | 82728 | 81 | 1957 | 1248 | 0 | 64596 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 7464 | 72060 | 82 | 1961 | 1248 | 0 | 64596 | 0.968 | 96.80 |

Table 10

[redacted] Ta[redacted]. La[redacted]inor[redacted]ults [redacted]ke R[redacted]shm[redacted]evel [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1248 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1248 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1253.69 | 19836 | 84432 | 83 | 1963 | 1248 | 0 | 64596 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1250.39 | 8184 | 72780 | 84 | 1987 | 1248 | 0 | 64596 | 0.992 | 99.17 |

Table 10

[redacted] Ta[redacted]. La[redacted]inor[redacted]ults [redacted]ke R[redacted]ishm[redacted]evel [redacted]

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1249 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1249 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1916 | 1/28/1916 | 1263.51 | 53622 | 121628 | 1 | 1916 | 1263.51 | 53622 | 121628 | 0.008 | 0.83 |
| 1917 | 4/1/1917 | 1254.85 | 20559 | 88565 | 2 | 1980 | 1263.03 | 51734 | 119740 | 0.020 | 2.01 |
| 1918 | 3/1/1918 | 1254.08 | 17814 | 85820 | 3 | 1993 | 1262.67 | 50313 | 118319 | 0.032 | 3.20 |
| 1919 | 10/1/1918 | 1250.75 | 6027 | 74033 | 4 | 1927 | 1262.07 | 47946 | 115952 | 0.044 | 4.38 |
| 1920 | 4/1/1920 | 1251.21 | 7627 | 75633 | 5 | 1969 | 1261.74 | 46658 | 114664 | 0.056 | 5.57 |
| 1921 | 2/1/1921 | 1249.11 | 392 | 68398 | 6 | 1937 | 1261.67 | 46372 | 114378 | 0.068 | 6.75 |
| 1922 | 2/25/1922 | 1259.84 | 39254 | 107260 | 7 | 1938 | 1261.37 | 45220 | 113226 | 0.079 | 7.94 |
| 1923 | 2/1/1923 | 1253.36 | 15243 | 83249 | 8 | 1978 | 1260.93 | 43487 | 111493 | 0.091 | 9.12 |
| 1924 | 10/1/1923 | 1249.81 | 2777 | 70783 | 9 | 1983 | 1260.32 | 41128 | 109134 | 0.103 | 10.31 |
| 1925 | 2/1/1925 | 1249.06 | 199 | 68205 | 10 | 1922 | 1259.84 | 39254 | 107260 | 0.115 | 11.49 |
| 1926 | 4/1/1926 | 1252.51 | 12212 | 80218 | 11 | 1941 | 1258.56 | 34362 | 102368 | 0.127 | 12.68 |
| 1927 | 2/22/1927 | 1262.07 | 47946 | 115952 | 12 | 1995 | 1258.18 | 32929 | 100935 | 0.139 | 13.86 |
| 1928 | 10/1/1927 | 1252.98 | 13870 | 81876 | 13 | 1979 | 1256.94 | 28237 | 96243 | 0.150 | 15.05 |
| 1929 | 10/1/1928 | 1249.12 | 416 | 68422 | 14 | 1939 | 1255.5 | 22940 | 90946 | 0.162 | 16.23 |
| 1930 | 1/1/1930 | 1249.8 | 2739 | 70745 | 15 | 1917 | 1254.85 | 20559 | 88565 | 0.174 | 17.42 |
| 1931 | 2/1/1931 | 1249.44 | 1526 | 69532 | 16 | 1998 | 1254.65 | 19860 | 87866 | 0.186 | 18.60 |
| 1932 | 3/1/1932 | 1252.36 | 11670 | 79676 | 17 | 1984 | 1254.62 | 19749 | 87755 | 0.198 | 19.79 |
| 1933 | 1/1/1933 | 1249.52 | 1793 | 69799 | 18 | 1964 | 1254.52 | 19381 | 87387 | 0.210 | 20.97 |
| 1934 | 1/1/1934 | 1249.19 | 636 | 68642 | 19 | 1952 | 1254.2 | 18249 | 86255 | 0.222 | 22.16 |
| 1935 | 2/1/1935 | 1249.58 | 2001 | 70007 | 20 | 1942 | 1254.17 | 18132 | 86138 | 0.233 | 23.34 |
| 1936 | 2/1/1936 | 1249.47 | 1632 | 69638 | 21 | 1918 | 1254.08 | 17814 | 85820 | 0.245 | 24.53 |
| 1937 | 3/31/1937 | 1261.67 | 46372 | 114378 | 22 | 1981 | 1253.69 | 16405 | 84411 | 0.257 | 25.71 |
| 1938 | 3/19/1938 | 1261.37 | 45220 | 113226 | 23 | 1994 | 1253.62 | 16165 | 84171 | 0.269 | 26.90 |
| 1939 | 3/31/1939 | 1255.5 | 22940 | 90946 | 24 | 1923 | 1253.36 | 15243 | 83249 | 0.281 | 28.08 |
| 1940 | 2/1/1940 | 1252.57 | 12445 | 80451 | 25 | 1943 | 1253.35 | 15214 | 83220 | 0.293 | 29.27 |
| 1941 | 4/22/1941 | 1258.56 | 34362 | 102368 | 26 | 1996 | 1253.21 | 14722 | 82728 | 0.305 | 30.45 |
| 1942 | 2/1/1942 | 1254.17 | 18132 | 86138 | 27 | 1928 | 1252.98 | 13870 | 81876 | 0.316 | 31.64 |
| 1943 | 3/1/1943 | 1253.35 | 15214 | 83220 | 28 | 1966 | 1252.8 | 13230 | 81236 | 0.328 | 32.82 |
| 1944 | 3/1/1944 | 1251.11 | 7282 | 75288 | 29 | 1940 | 1252.57 | 12445 | 80451 | 0.340 | 34.00 |
| 1945 | 3/1/1945 | 1249.15 | 516 | 68522 | 30 | 1926 | 1252.51 | 12212 | 80218 | 0.352 | 35.19 |
| 1946 | 12/1/1945 | 1249.24 | 822 | 68828 | 31 | 1932 | 1252.36 | 11670 | 79676 | 0.364 | 36.37 |
| 1947 | 11/1/1946 | 1249.27 | 939 | 68945 | 32 | 1970 | 1252.03 | 10522 | 78528 | 0.376 | 37.56 |
| 1948 | 4/1/1948 | 1249.29 | 1000 | 69006 | 33 | 1991 | 1251.8 | 9706 | 77712 | 0.387 | 38.74 |
| 1949 | 1/1/1949 | 1249.33 | 1123 | 69129 | 34 | 1958 | 1251.61 | 9036 | 77042 | 0.399 | 39.93 |
| 1950 | 4/1/1950 | 1249.62 | 2126 | 70132 | 35 | 1992 | 1251.48 | 8595 | 76601 | 0.411 | 41.11 |
| 1951 | 10/1/1950 | 1249 | 0 | 68006 | 36 | 1999 | 1251.34 | 8100 | 76106 | 0.423 | 42.30 |
| 1952 | 4/1/1952 | 1254.2 | 18249 | 86255 | 37 | 1955 | 1251.25 | 7778 | 75784 | 0.435 | 43.48 |
| 1953 | 12/1/1952 | 1251.13 | 7373 | 75379 | 38 | 1920 | 1251.21 | 7627 | 75633 | 0.447 | 44.67 |
| 1954 | 3/1/1954 | 1249.46 | 1579 | 69585 | 39 | 1953 | 1251.13 | 7373 | 75379 | 0.459 | 45.85 |
| 1955 | 2/1/1955 | 1249.36 | 1249 | 69255 | 40 | 1944 | 1251.11 | 7282 | 75288 | 0.470 | 47.04 |
| 1956 | 1/1/1956 | 1249.16 | 536 | 68542 | 41 | 1919 | 1250.75 | 6027 | 74033 | 0.482 | 48.22 |

Table 11

Table 11. Lake Minore Results for Lake Replenishment Level 1249

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1249 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1249 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1957 | 10/1/1956 | 1249 | 0 | 68006 | 42 | 1973 | 1250.44 | 4960 | 72966 | 0.494 | 49.41 |
| 1958 | 4/1/1958 | 1251.61 | 9036 | 77042 | 43 | 1974 | 1250.35 | 4659 | 72665 | 0.506 | 50.59 |
| 1959 | 2/1/1959 | 1249.1 | 350 | 68356 | 44 | 1967 | 1250.21 | 4161 | 72167 | 0.518 | 51.78 |
| 1960 | 2/1/1960 | 1249.13 | 430 | 68436 | 45 | 1997 | 1250.18 | 4054 | 72060 | 0.530 | 52.96 |
| 1961 | 10/1/1960 | 1249 | 0 | 68006 | 46 | 1976 | 1250.12 | 3837 | 71843 | 0.541 | 54.15 |
| 1962 | 2/1/1962 | 1249.31 | 1051 | 69057 | 47 | 1982 | 1250.11 | 3825 | 71831 | 0.553 | 55.33 |
| 1963 | 10/1/1962 | 1249 | 0 | 68006 | 48 | 1924 | 1249.81 | 2777 | 70783 | 0.565 | 56.52 |
| 1964 | 3/1/1964 | 1254.52 | 19381 | 87387 | 49 | 1930 | 1249.8 | 2739 | 70745 | 0.577 | 57.70 |
| 1965 | 10/1/1964 | 1251.25 | 7778 | 75784 | 50 | 1950 | 1249.62 | 2126 | 70132 | 0.589 | 58.89 |
| 1966 | 3/1/1966 | 1252.8 | 13230 | 81236 | 51 | 1986 | 1249.61 | 2111 | 70117 | 0.601 | 60.07 |
| 1967 | 1/1/1967 | 1250.21 | 4161 | 72167 | 52 | 1935 | 1249.58 | 2001 | 70007 | 0.613 | 61.26 |
| 1968 | 3/1/1968 | 1249.53 | 1833 | 69839 | 53 | 1968 | 1249.53 | 1833 | 69839 | 0.624 | 62.44 |
| 1969 | 3/2/1969 | 1261.74 | 46658 | 114664 | 54 | 1975 | 1249.52 | 1795 | 69801 | 0.636 | 63.63 |
| 1970 | 10/1/1969 | 1252.03 | 10522 | 78528 | 55 | 1933 | 1249.52 | 1793 | 69799 | 0.648 | 64.81 |
| 1971 | 12/1/1970 | 1249.3 | 1020 | 69026 | 56 | 1936 | 1249.47 | 1632 | 69638 | 0.660 | 66.00 |
| 1972 | 12/1/1971 | 1249.28 | 977 | 68983 | 57 | 1954 | 1249.46 | 1579 | 69585 | 0.672 | 67.18 |
| 1973 | 3/1/1973 | 1250.44 | 4960 | 72966 | 58 | 1931 | 1249.44 | 1528 | 69532 | 0.684 | 68.36 |
| 1974 | 4/1/1974 | 1250.35 | 4659 | 72665 | 59 | 1977 | 1249.38 | 1305 | 69311 | 0.696 | 69.55 |
| 1975 | 3/1/1975 | 1249.52 | 1795 | 69801 | 60 | 1955 | 1249.36 | 1249 | 69255 | 0.707 | 70.73 |
| 1976 | 3/1/1976 | 1250.12 | 3837 | 71843 | 61 | 1949 | 1249.33 | 1123 | 69129 | 0.719 | 71.92 |
| 1977 | 2/1/1977 | 1249.38 | 1305 | 69311 | 62 | 1962 | 1249.31 | 1051 | 69057 | 0.731 | 73.10 |
| 1978 | 3/9/1978 | 1260.93 | 43487 | 111493 | 63 | 1971 | 1249.3 | 1020 | 69026 | 0.743 | 74.29 |
| 1979 | 4/13/1979 | 1256.94 | 28237 | 96243 | 64 | 1948 | 1249.29 | 1000 | 69006 | 0.755 | 75.47 |
| 1980 | 2/22/1980 | 1263.03 | 51734 | 119740 | 65 | 1972 | 1249.28 | 977 | 68983 | 0.767 | 76.66 |
| 1981 | 10/1/1980 | 1253.69 | 16406 | 84411 | 66 | 1947 | 1249.27 | 939 | 68945 | 0.778 | 77.84 |
| 1982 | 3/1/1982 | 1250.11 | 3825 | 71831 | 67 | 1946 | 1249.24 | 822 | 68828 | 0.790 | 79.03 |
| 1983 | 3/29/1983 | 1260.32 | 41128 | 109134 | 68 | 1985 | 1249.19 | 649 | 68655 | 0.802 | 80.21 |
| 1984 | 10/1/1983 | 1254.62 | 19749 | 87755 | 69 | 1934 | 1249.19 | 636 | 68642 | 0.814 | 81.40 |
| 1985 | 10/1/1984 | 1249.19 | 649 | 68655 | 70 | 1966 | 1249.16 | 536 | 68542 | 0.826 | 82.58 |
| 1986 | 3/1/1986 | 1249.61 | 2111 | 70117 | 71 | 1945 | 1249.15 | 516 | 68522 | 0.838 | 83.77 |
| 1987 | 10/1/1986 | 1249 | 0 | 68006 | 72 | 1960 | 1249.13 | 430 | 68436 | 0.850 | 84.95 |
| 1988 | 12/1/1987 | 1249.06 | 213 | 68219 | 73 | 1929 | 1249.12 | 416 | 68422 | 0.861 | 86.14 |
| 1989 | 2/1/1989 | 1249.03 | 113 | 68119 | 74 | 1921 | 1249.11 | 392 | 68398 | 0.873 | 87.32 |
| 1990 | 2/1/1990 | 1249.09 | 294 | 68300 | 75 | 1959 | 1249.1 | 350 | 68356 | 0.885 | 88.51 |
| 1991 | 4/1/1991 | 1251.8 | 9706 | 77712 | 76 | 1990 | 1249.09 | 294 | 68300 | 0.897 | 89.69 |
| 1992 | 3/31/1992 | 1251.48 | 8595 | 76601 | 77 | 1988 | 1249.06 | 213 | 68219 | 0.909 | 90.88 |
| 1993 | 2/20/1993 | 1262.67 | 50313 | 118319 | 78 | 1925 | 1249.06 | 199 | 68205 | 0.921 | 92.06 |
| 1994 | 3/28/1994 | 1253.62 | 16165 | 84171 | 79 | 1989 | 1249.03 | 113 | 68119 | 0.932 | 93.25 |
| 1995 | 3/29/1995 | 1258.18 | 32929 | 100935 | 80 | 1951 | 1249 | 0 | 68006 | 0.944 | 94.43 |
| 1996 | 10/1/1995 | 1253.21 | 14722 | 82728 | 81 | 1957 | 1249 | 0 | 68006 | 0.956 | 95.62 |
| 1997 | 2/13/1997 | 1250.18 | 4054 | 72060 | 82 | 1961 | 1249 | 0 | 68006 | 0.968 | 96.80 |

Table 11. Lake Elsinore Results for Lake Replenishment Level 1249

| Data Ordered Chronologically | | | | | Data Ranked by Event Magnitude | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Year | Date | Annual Maximum Lake Elevation ft | Storage above 1249 ac-ft | Total Storage ac-ft | Rank | Water Year | Annual Maximum Lake Elevation ft | Storage above 1249 ac-ft | Total Storage ac-ft | Exceedence Prob Median Position (m-0.3)/(n+0.4) | Probability % |
| 1998 | 4/2/1998 | 1254.65 | 19860 | 87866 | 83 | 1963 | 1249 | 0 | 68006 | 0.980 | 97.99 |
| 1999 | 10/1/1998 | 1251.34 | 8100 | 76106 | 84 | 1967 | 1249 | 0 | 68006 | 0.992 | 99.17 |

Table 12
may be found
within the report text (page 6)

Table 13. Peak Flow and Duration of Selected Discharges for Lake Replenishment Level 1240

| Year | LRL 1240 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max WSE | Peak Outflow/Change from 1240 | | Total Duration/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | |
| | ft | cfs | | | | 60 cfs | | 260 cfs | | 300 cfs | | 400 cfs | | 500 cfs | | 600 cfs | | 700 cfs | | 800 cfs | | 900 cfs | |
| 1916 | 1263.11 | 823 | - | 175 | - | 107 | - | 83 | - | 47 | - | 25 | - | 19 | - | 11 | - | 2 | - | 1 | - | - | - |
| 1980 | 1263.03 | 808 | - | 170 | - | 97 | - | 56 | - | 51 | - | 42 | - | 35 | - | 31 | - | 27 | - | 2 | - | - | - |
| 1993 | 1262.34 | 666 | - | 174 | - | 84 | - | 34 | - | 24 | - | 18 | - | 14 | - | 9 | - | - | - | - | - | - | - |
| 1927 | 1258.72 | 179 | - | 130 | - | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1969 | 1256.99 | 51 | - | 88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1938 | 1261.37 | 499 | - | 208 | - | 84 | - | 32 | - | 28 | - | 18 | - | - | - | - | - | - | - | - | - | - | - |
| 1937 | 1259.26 | 295 | - | 141 | - | 59 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1978 | 1255.99 | 25 | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1983 | 1259.69 | 268 | - | 176 | - | 91 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1922 | 1259.68 | 174 | - | 165 | - | 84 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1941 | 1258.35 | 144 | - | 120 | - | 47 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1995 | 1258.18 | 129 | - | 136 | - | 48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1979 | 1256.66 | 42 | - | 166 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1939 | 1255.5 | 12 | - | 106 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 14. Peak Flow and Duration of Selected Discharges for Lake Replenishment Level 1249 and Differences from Lake Replenishment Level 1240

| Year | LRL 1249 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max WSE | Peak Outflow/Change from 1240 | | Total Duration/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | |
| | ft | cfs | | | | 60 cfs | | 260 cfs | | 300 cfs | | 400 cfs | | 500 cfs | | 600 cfs | | 700 cfs | | 800 cfs | | 900 cfs | |
| 1916 | 1263.51 | 903 | 80 | 161 | 6 | 109 | 2 | 83 | 0 | 49 | 2 | 25 | 0 | 19 | 0 | 13 | 2 | 2 | 0 | 1 | 0 | 1 | 1 |
| 1980 | 1263.03 | 808 | 0 | 170 | 0 | 97 | 0 | 56 | 0 | 51 | 0 | 42 | 0 | 35 | 0 | 31 | 0 | 27 | 0 | 2 | 0 | - | - |
| 1993 | 1262.67 | 709 | 43 | 185 | 11 | 105 | 21 | 59 | 25 | 54 | 30 | 48 | 30 | 24 | 10 | 19 | 10 | 3 | 3 | - | - | - | - |
| 1927 | 1262.07 | 618 | 439 | 133 | 3 | 80 | 9 | 32 | 32 | 27 | 27 | 18 | 18 | 10 | 10 | 3 | 3 | - | - | - | - | - | - |
| 1969 | 1261.74 | 558 | 507 | 125 | 37 | 69 | 69 | 24 | 24 | 18 | 18 | 10 | 10 | 6 | 6 | - | - | - | - | - | - | - | - |
| 1938 | 1261.37 | 499 | 0 | 210 | 2 | 84 | 0 | 32 | 0 | 28 | 0 | 18 | 0 | - | - | - | - | - | - | - | - | - | - |
| 1937 | 1261.67 | 546 | 251 | 176 | 35 | 97 | 38 | 38 | 38 | 32 | 32 | 20 | 20 | 7 | 7 | - | - | - | - | - | - | - | - |
| 1978 | 1260.93 | 425 | 400 | 122 | 42 | 75 | 75 | 20 | 20 | 11 | 11 | 3 | 3 | - | - | - | - | - | - | - | - | - | - |
| 1983 | 1260.32 | 342 | 74 | 180 | 2 | 94 | 3 | 16 | 11 | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1922 | 1259.84 | 283 | 109 | 210 | 45 | 119 | 35 | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1941 | 1258.56 | 164 | 20 | 150 | 30 | 51 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1995 | 1258.18 | 129 | 0 | 136 | 0 | 48 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1979 | 1256.94 | 49 | 7 | 162 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1939 | 1255.5 | 12 | 0 | 106 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 15. Peak Flow and Duration of Selected Discharges for Lake Replenishment Level 1245 and Differences from Lake Replenishment Level 1240

| Year | LRL 1245 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max WSE | Peak Outflow/Change from 1240 | | Total Duration/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | |
| | ft | cfs | | | | 60 cfs | | 260 cfs | | 300 cfs | | 400 cfs | | 500 cfs | | 600 cfs | | 700 cfs | | 800 cfs | | 900 cfs | |
| 1916 | 1263.11 | 823 | 0 | 175 | 0 | 107 | 0 | 63 | 0 | 47 | 0 | 25 | 0 | 19 | 0 | 11 | 0 | 2 | 0 | 1 | 0 | - | - |
| 1980 | 1263.03 | 808 | 0 | 170 | 0 | 97 | 0 | 56 | 0 | 51 | 0 | 42 | 0 | 35 | 0 | 31 | 0 | 27 | 0 | 2 | 0 | - | - |
| 1993 | 1262.67 | 699 | 33 | 184 | 10 | 103 | 19 | 39 | 5 | 34 | 10 | 28 | 10 | 22 | 8 | 10 | 1 | - | - | - | - | - | - |
| 1927 | 1260.05 | 304 | 125 | 132 | 2 | 77 | 6 | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1969 | 1259.22 | 225 | 174 | 124 | 36 | 62 | 62 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1938 | 1261.37 | 499 | 0 | 210 | 2 | 84 | 0 | 32 | 0 | 28 | 0 | 18 | 0 | - | - | - | - | - | - | - | - | - | - |
| 1937 | 1261.07 | 446 | 151 | 167 | 26 | 76 | 17 | 29 | 29 | 21 | 21 | 8 | 8 | - | - | - | - | - | - | - | - | - | - |
| 1978 | 1258.42 | 147 | 122 | 116 | 36 | 64 | 64 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1983 | 1259.69 | 268 | 0 | 178 | 0 | 91 | 0 | 5 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1922 | 1259.16 | 220 | 46 | 171 | 8 | 103 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1941 | 1256.35 | 144 | 0 | 120 | 0 | 47 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1995 | 1258.18 | 129 | 0 | 136 | 0 | 48 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1979 | 1258.91 | 49 | 7 | 162 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1939 | 1255.5 | 12 | 0 | 106 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 16. Peak Flow and Duration of Selected Discharges for Lake Replenishment Level 1247 and Differences from Lake Replenishment Level 1240

| Year | LRL 1247 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max WSE | Peak Outflow/Change from 1240 | | Total Duration/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | | Outflow duration greater than/ Change from 1240 | |
| | ft | cfs | | | | 60 cfs | | 260 cfs | | 300 cfs | | 400 cfs | | 500 cfs | | 600 cfs | | 700 cfs | | 800 cfs | | 900 cfs | |
| 1916 | 1263.17 | 837 | 14 | 178 | 3 | 107 | 0 | 63 | 0 | 48 | 1 | 25 | 0 | 19 | 0 | 11 | 0 | 2 | 0 | 1 | 0 | - | - |
| 1980 | 1263.03 | 808 | 0 | 170 | 0 | 97 | 0 | 56 | 0 | 51 | 0 | 42 | 0 | 35 | 0 | 31 | 0 | 27 | 0 | 2 | 0 | - | - |
| 1993 | 1262.87 | 710 | 44 | 185 | 11 | 104 | 20 | 56 | 22 | 50 | 25 | 29 | 11 | 21 | 7 | 16 | 7 | 3 | 3 | - | - | - | - |
| 1927 | 1261.06 | 451 | 272 | 132 | 2 | 79 | 8 | 29 | 29 | 22 | 22 | 10 | 10 | - | - | - | - | - | - | - | - | - | - |
| 1969 | 1260.48 | 365 | 314 | 124 | 36 | 67 | 67 | 16 | 16 | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1938 | 1261.37 | 499 | 0 | 210 | 2 | 84 | 0 | 32 | 0 | 28 | 0 | 18 | 0 | - | - | - | - | - | - | - | - | - | - |
| 1937 | 1261.45 | 508 | 213 | 175 | 34 | 90 | 31 | 35 | 35 | 29 | 29 | 15 | 15 | 3 | 3 | - | - | - | - | - | - | - | - |
| 1978 | 1259.68 | 266 | 241 | 119 | 39 | 70 | 70 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1983 | 1259.84 | 283 | 15 | 179 | 1 | 92 | 1 | 9 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1922 | 1257.39 | 241 | 67 | 210 | 45 | 108 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1941 | 1258.35 | 144 | 0 | 150 | 30 | 47 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1995 | 1258.16 | 129 | 0 | 136 | 0 | 48 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1979 | 1256.63 | 49 | 7 | 162 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1939 | 1255.5 | 12 | 0 | 106 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 17. Changes in Peak Flow and Selected Duration from Lake Replenishment Level 1240 for Selected Lake Replenishment Level Alternatives

Events Ordered by Rank for Lake Replenishment Level 1249

| Year | LPL 1245 | | | | LPL 1247 | | | | LPL 1249 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Increase in Peak Flow | Increase in Total Duration | Increase in Duration >260 cfs | Increase in Duration >60 cfs | Increase in Peak Flow | Increase in Total Duration | Increase in Duration >260 cfs | Increase in Duration >60 cfs | Increase in Peak Flow | Increase in Total Duration | Increase in Duration >260 cfs | Increase in Duration >60 cfs |
| | cfs | days | days | days | cfs | days | days | days | cfs | days | days | days |
| 1916 | 0 | 0 | 0 | 0 | 14 | 3 | 0 | 0 | 80 | 6 | 0 | 2 |
| 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 33 | 10 | 5 | 19 | 44 | 11 | 22 | 20 | 43 | 11 | 25 | 21 |
| 1927 | 125 | 2 | 22 | 6 | 272 | 2 | 29 | 8 | 439 | 3 | 32 | 9 |
| 1969 | 174 | 36 | 0 | 62 | 314 | 36 | 16 | 67 | 507 | 37 | 24 | 69 |
| 1938 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 |
| 1937 | 151 | 26 | 29 | 17 | 213 | 34 | 35 | 31 | 251 | 35 | 38 | 38 |
| 1978 | 122 | 36 | 0 | 64 | 241 | 39 | 2 | 70 | 400 | 42 | 20 | 75 |
| 1983 | 0 | 0 | 0 | 0 | 15 | 1 | 4 | 1 | 74 | 2 | 11 | 3 |
| 1922 | 46 | 6 | 0 | 19 | 67 | 45 | 0 | 24 | 109 | 45 | 20 | 35 |
| 1941 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 20 | 30 | 0 | 4 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1979 | 7 | 6 | 0 | 0 | 7 | 6 | 0 | 0 | 7 | 6 | 0 | 0 |
| 1939 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# FIGURES

**Figure 1. Storage Volume Frequency Curve for Lake Replenishment Level 1240**

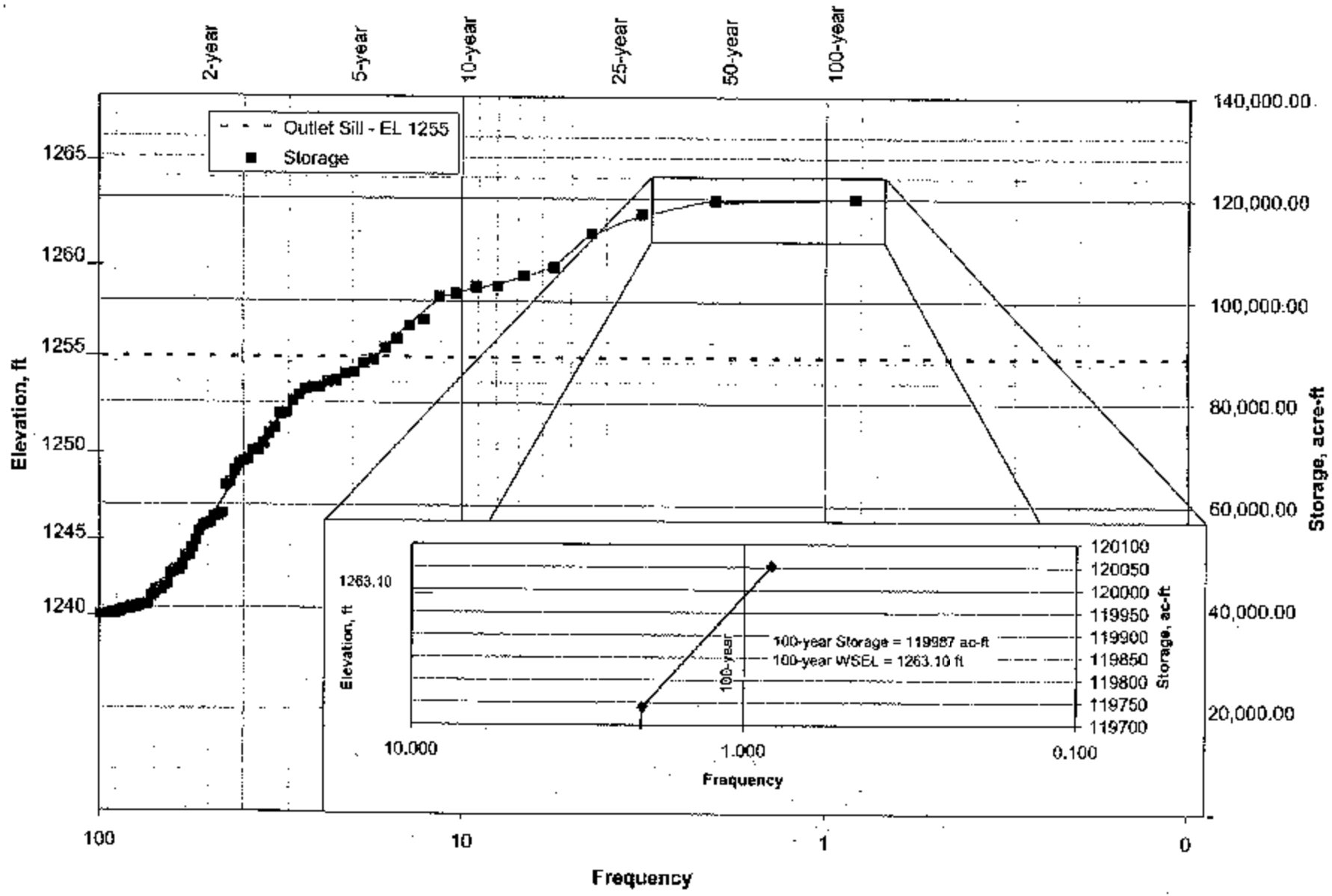


**Figure 2. Storage Volume Frequency Curve for Lake Replenishment Level 1241**

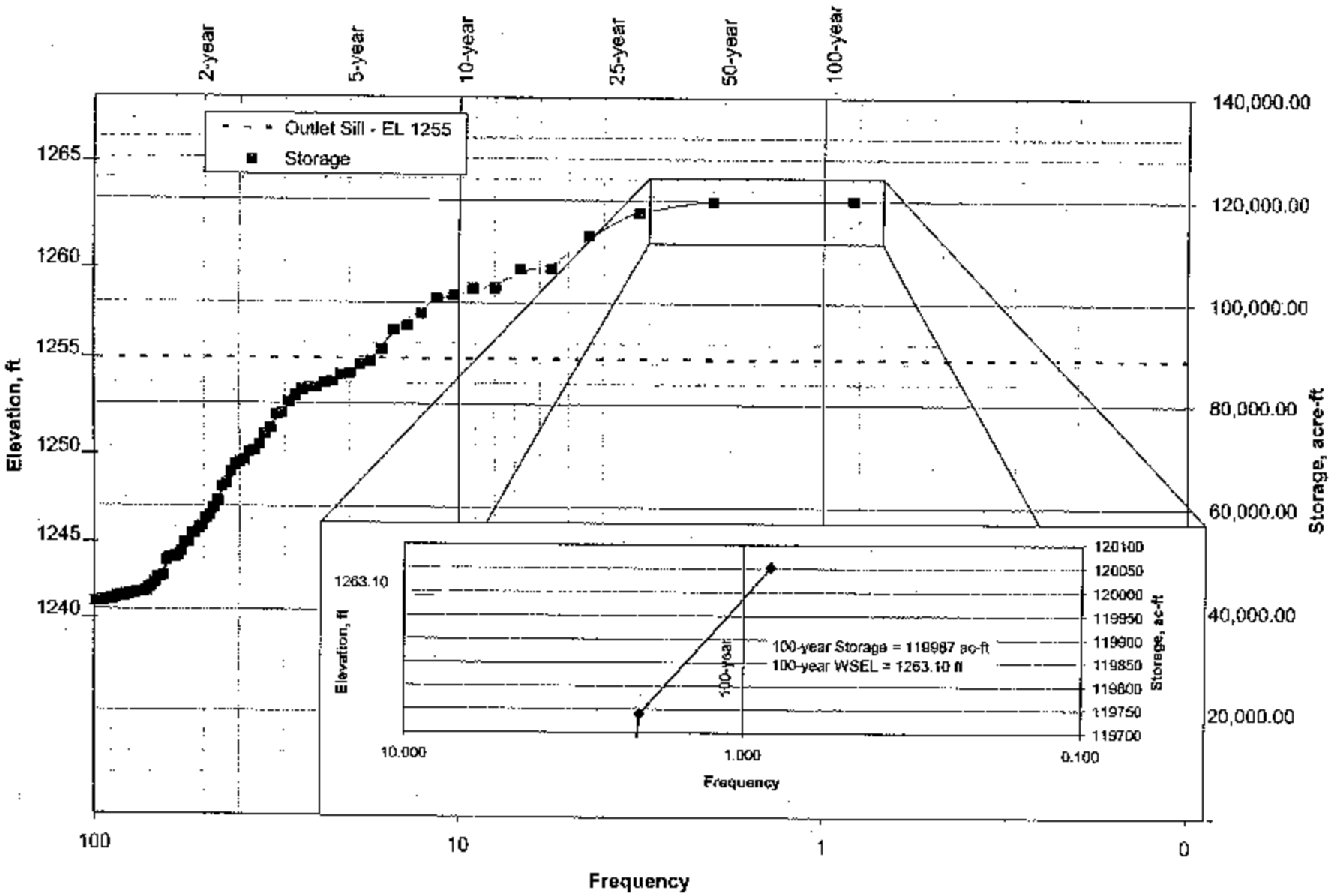


**Figure 3. Storage Volume Frequency Curve for Lake Replenishment Level 1242**

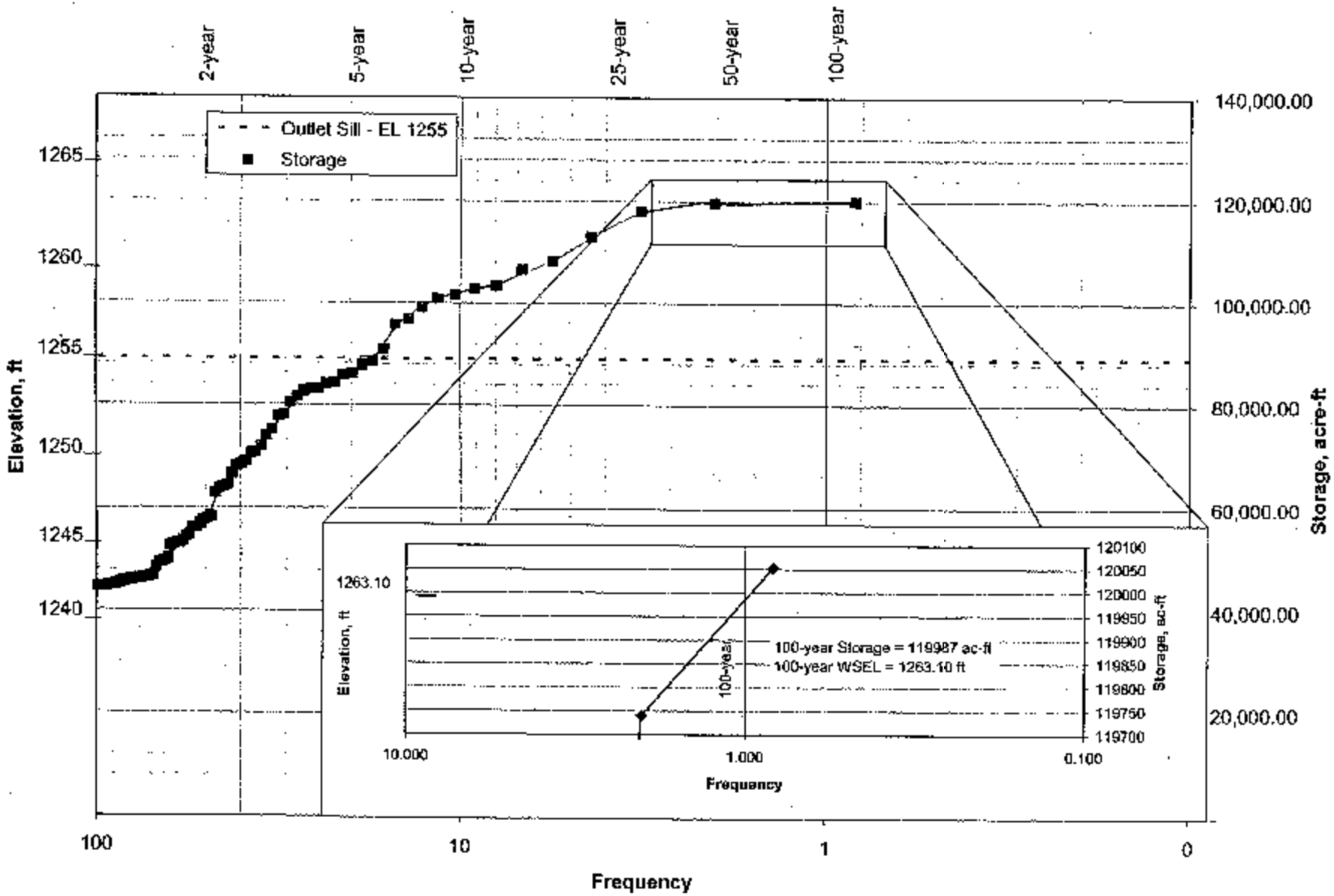


**Figure 4. Storage Volume Frequency Curve for Lake Replenishment Level 1243**

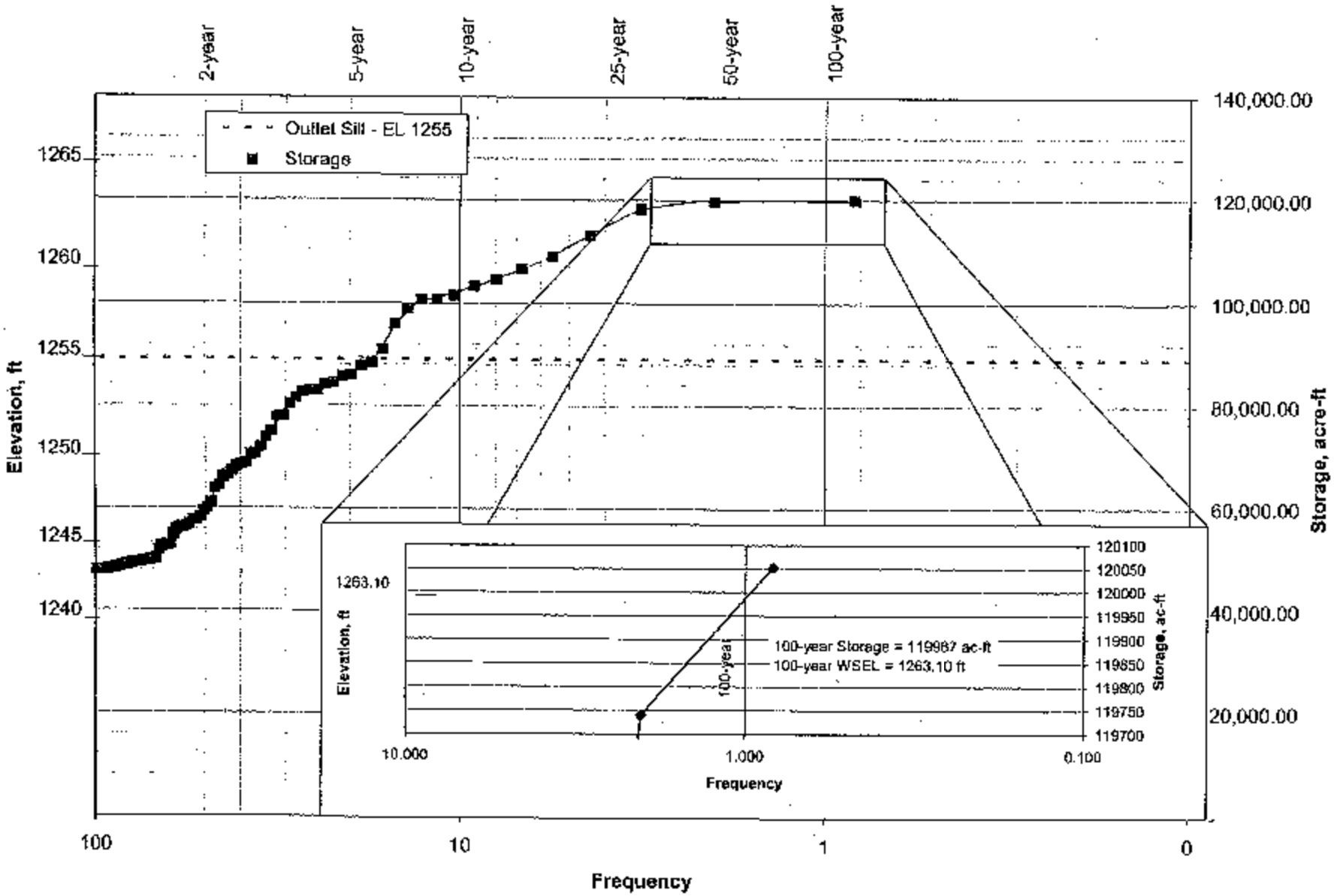


**Figure 5. Storage Volume Frequency Curve for Lake Replenishment Level 1244**

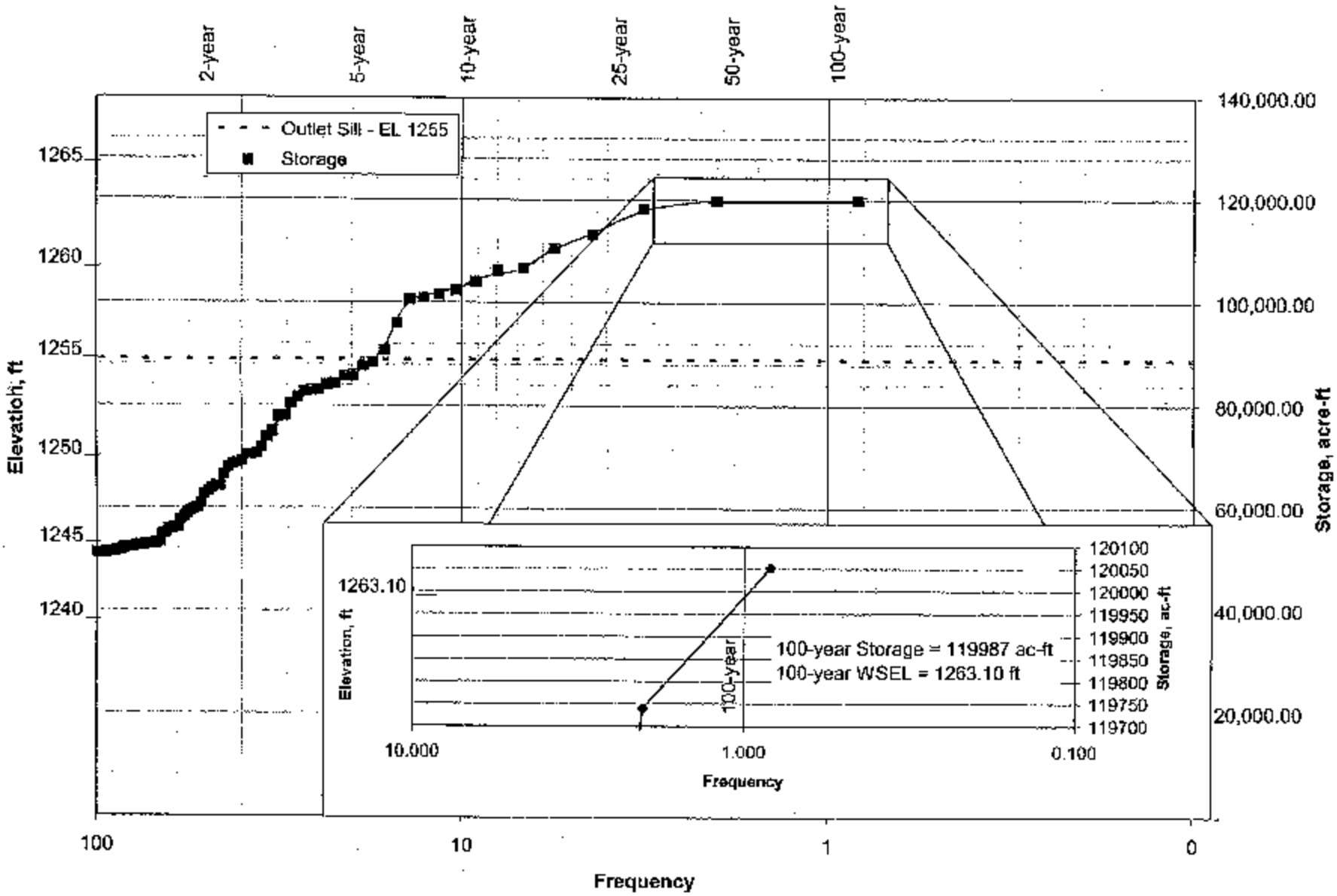


**Figure 6. Storage Volume Frequency Curve for Lake Replenishment Level 1245**

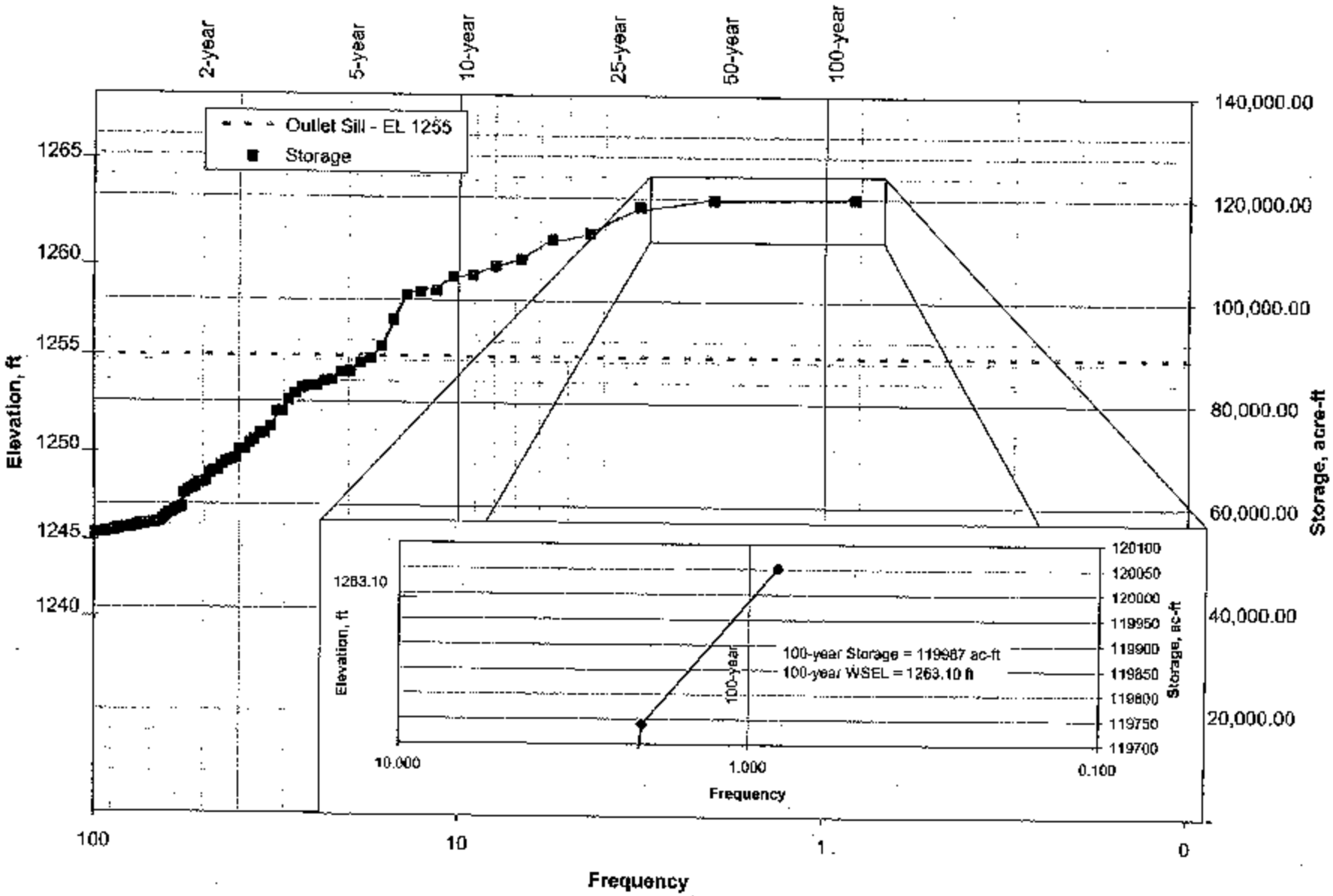


**Figure 7. Storage Volume Frequency Curve for Lake Replenishment Level 1246**

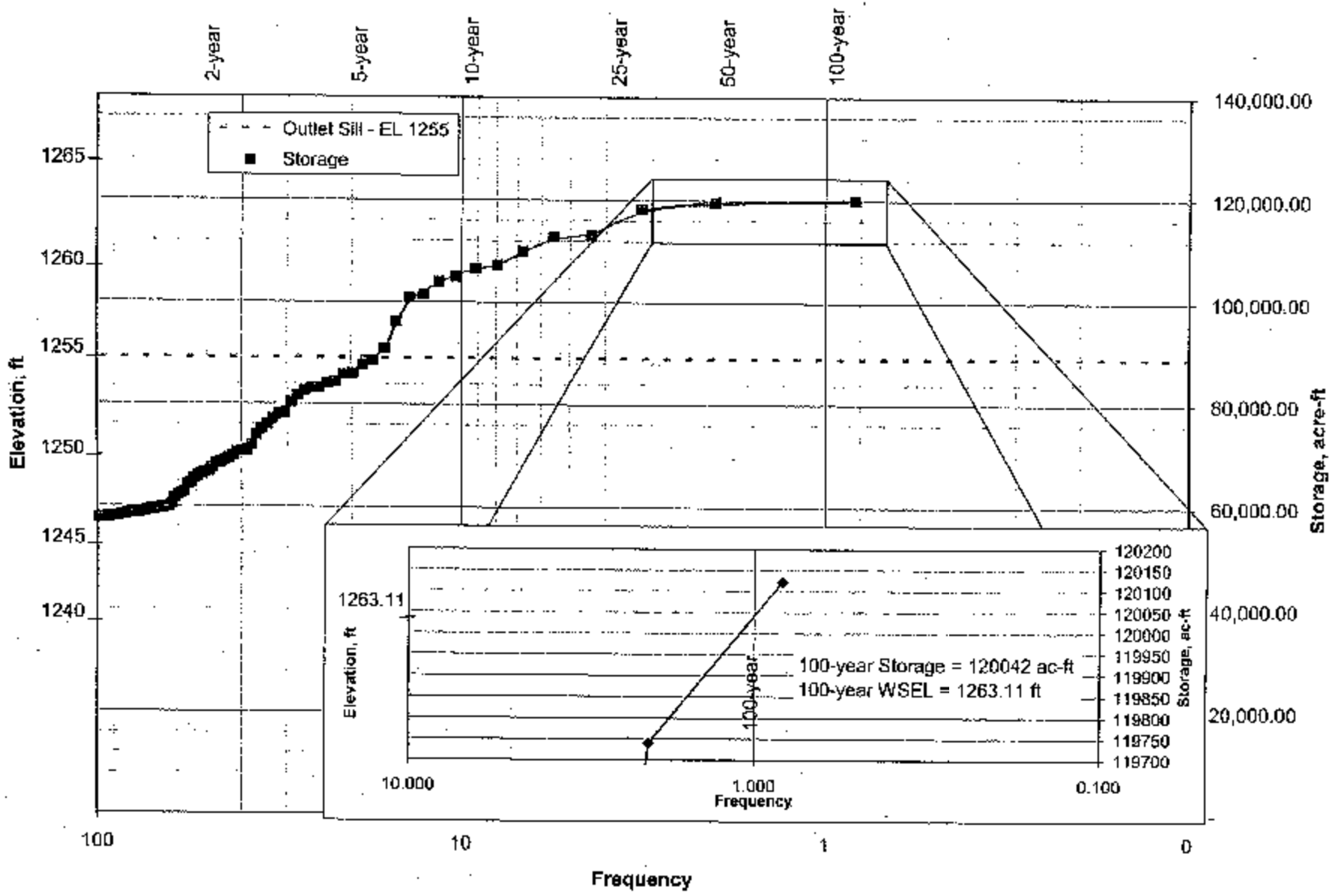


**Figure 8. Storage Volume Frequency Curve for Lake Replenishment Level 1247**

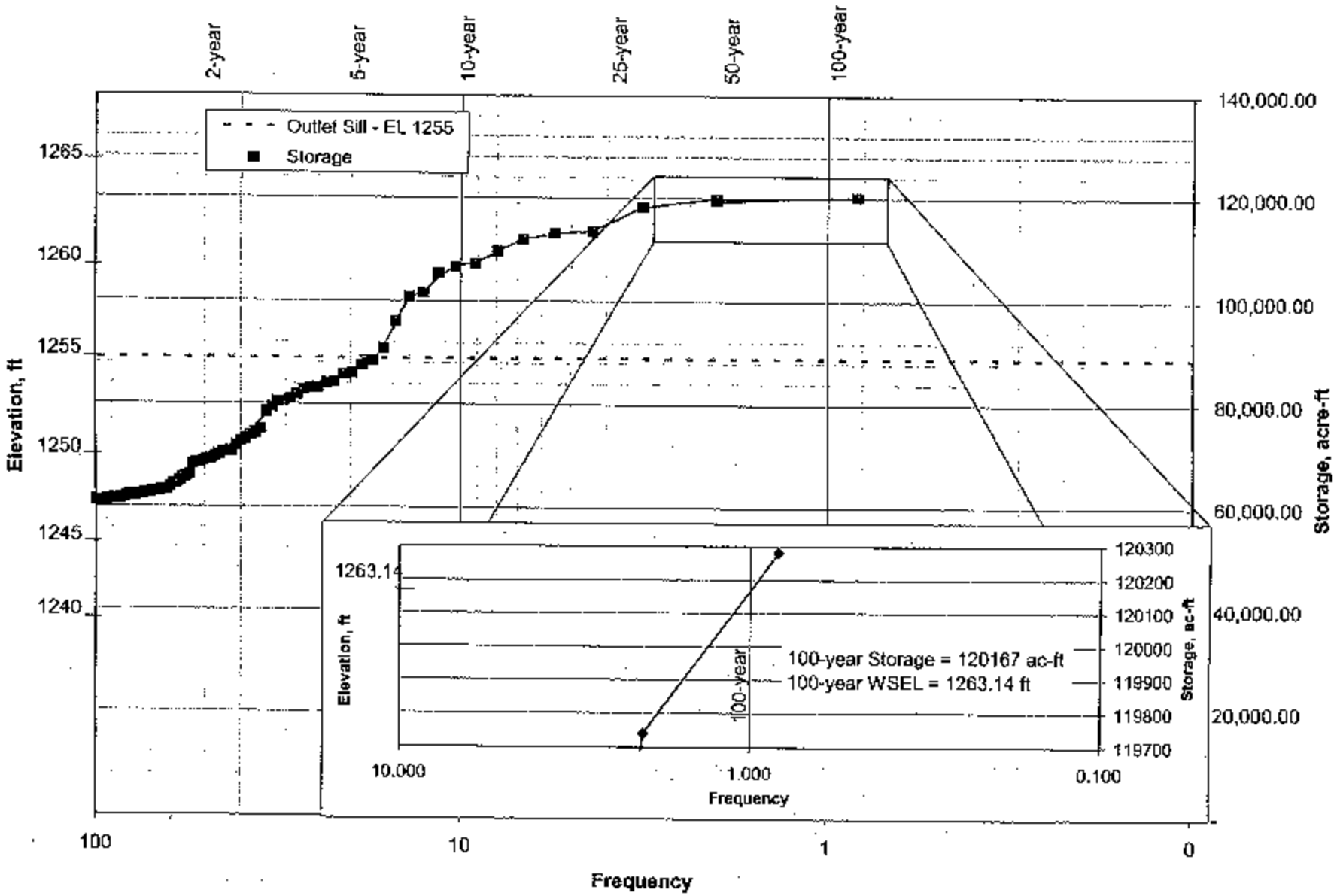


**Figure 9. Storage Volume Frequency Curve for Lake Replenishment Level 1248**

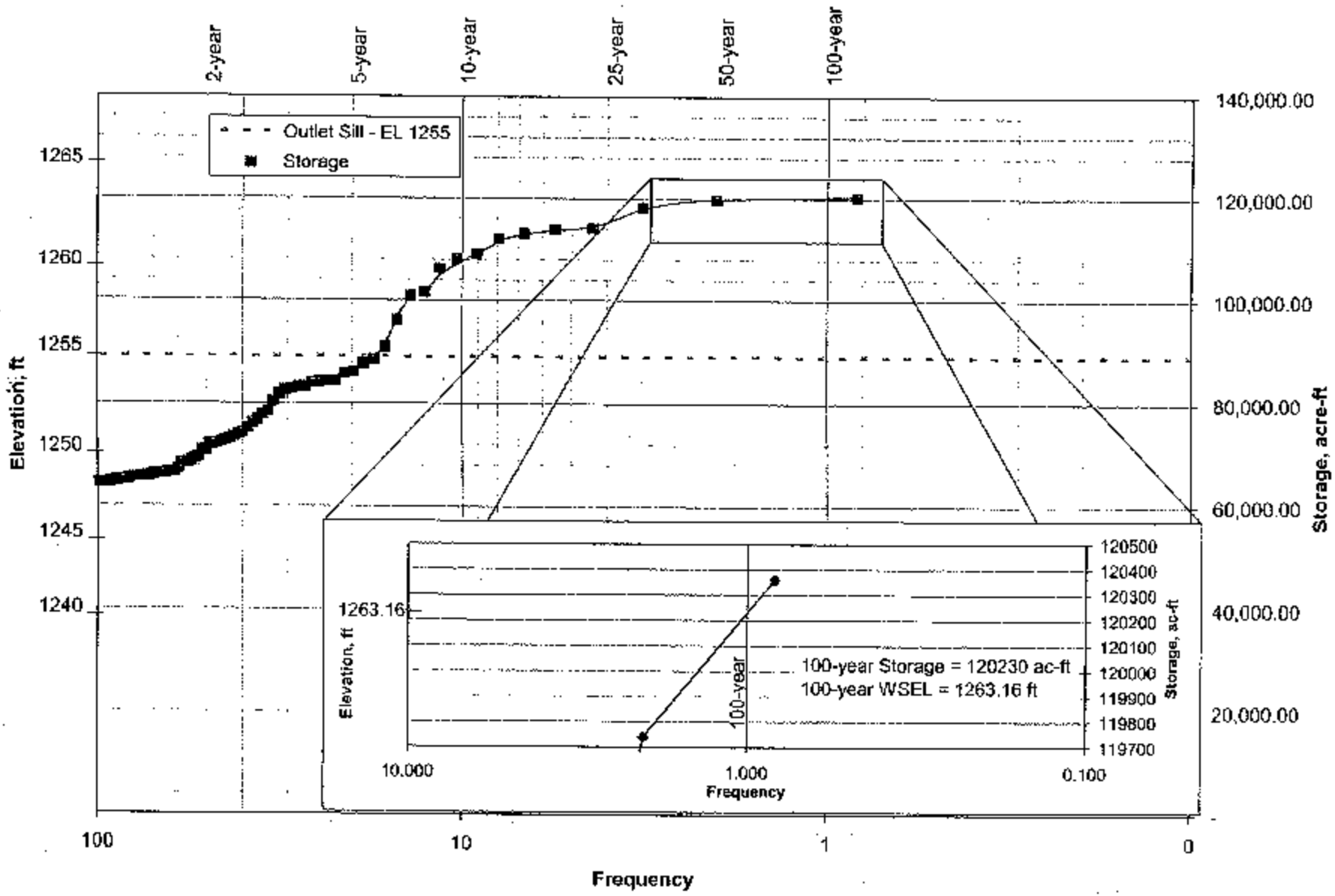


**Figure 10. Storage Volume Frequency Curve for Lake Replenishment Level 1249**

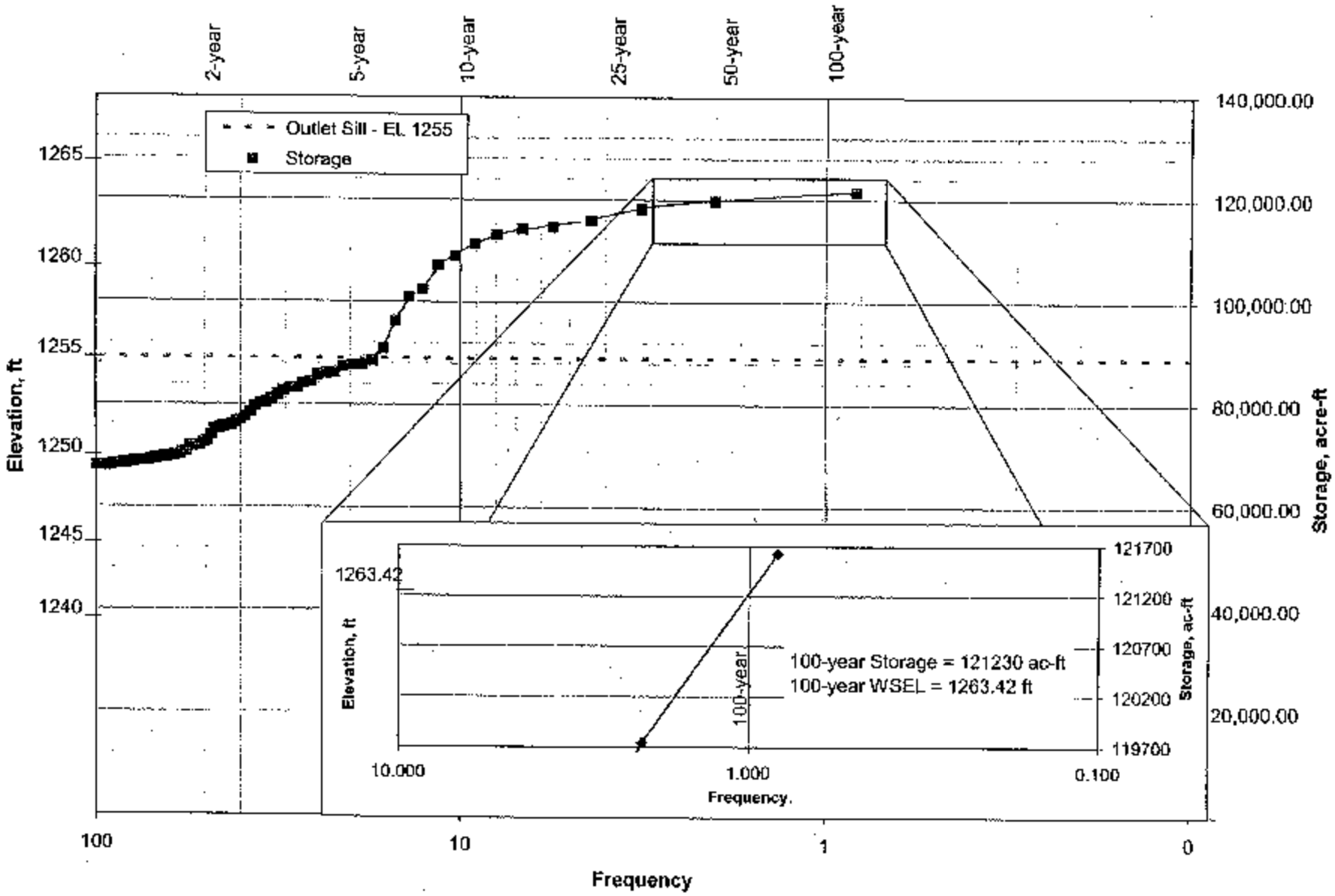
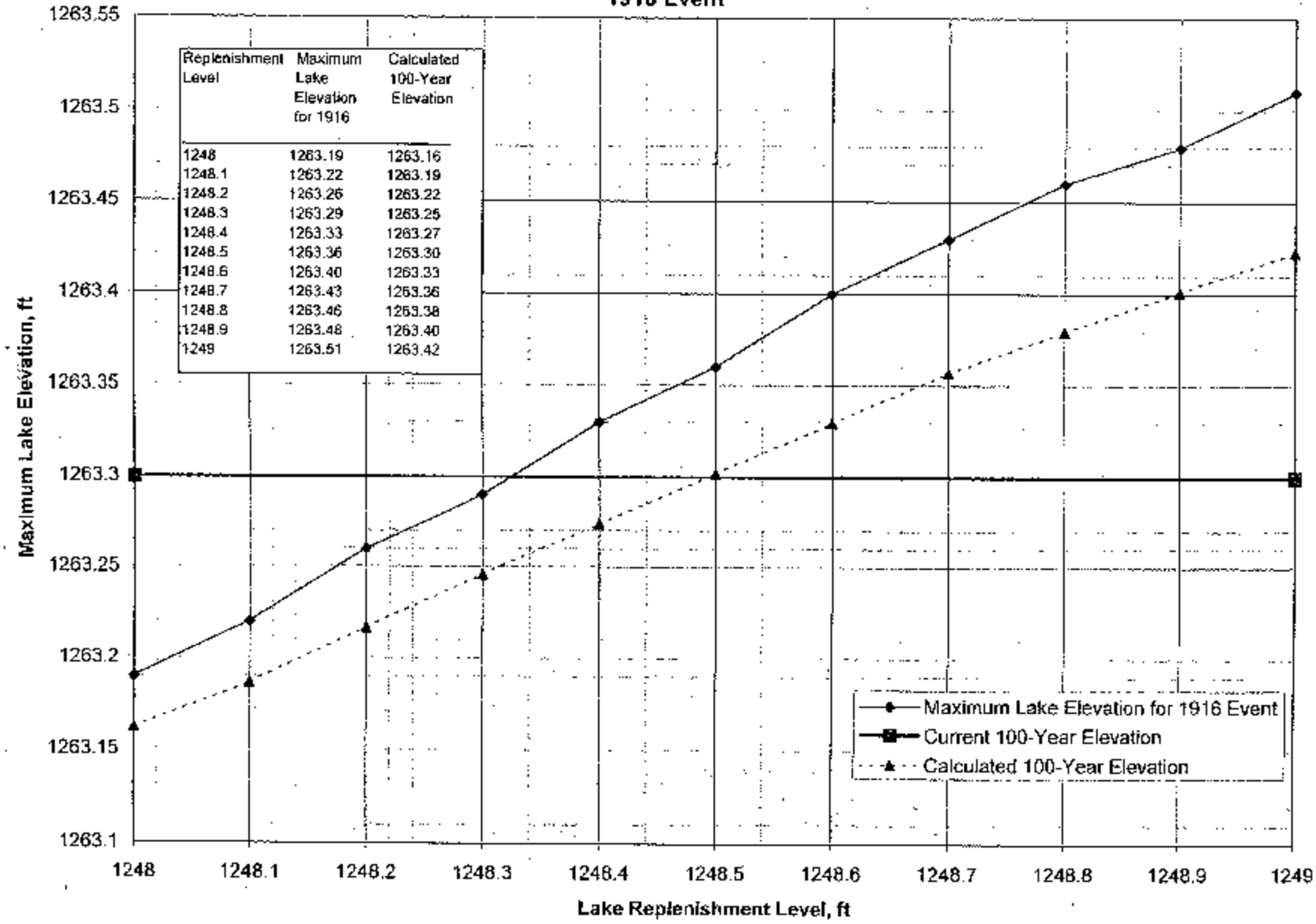


**Figure 11. Maximum Lake Elevation vs. Lake Replenishment Level for 100-Year Calculated and 1916 Event**




| Replenishment Level | Maximum Lake Elevation for 1916 | Calculated 100-Year Elevation |
|---|---|---|
| 1248 | 1263.19 | 1263.16 |
| 1248.1 | 1263.22 | 1263.19 |
| 1248.2 | 1263.26 | 1263.22 |
| 1248.3 | 1263.29 | 1263.25 |
| 1248.4 | 1263.33 | 1263.27 |
| 1248.5 | 1263.36 | 1263.30 |
| 1248.6 | 1263.40 | 1263.33 |
| 1248.7 | 1263.43 | 1263.36 |
| 1248.8 | 1263.46 | 1263.38 |
| 1248.9 | 1263.48 | 1263.40 |
| 1249 | 1263.51 | 1263.42 |

Figure 12. Cumulative Discharge Exceedance Curve for Selected Lake Replenishment Levels