

**WESTERN - SAN BERNARDINO WATERMASTER  
FOR**

**WESTERN MUNICIPAL WATER DISTRICT et al.**

**vs.**

**EAST SAN BERNARDINO COUNTY WATER DISTRICT et al.**

**CASE NO. 78426 - COUNTY OF RIVERSIDE**

**ANNUAL REPORT**

**OF THE**

**WESTERN-SAN BERNARDINO WATERMASTER**

**FOR**

**CALENDAR YEAR 1999**

**August 1, 2000**

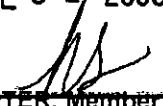
WESTERN - SAN BERNARDINO WATERMASTER

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SUPERIOR COURT  
OF RIVERSIDE COUNTY

FOR  
WESTERN MUNICIPAL WATER DISTRICT ET AL.

vs.  
EAST SAN BERNARDINO COUNTY WATER DISTRICT ET AL.  
CASE NO. 78426 - COUNTY OF RIVERSIDE

JUL 31 2000



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August 1, 2000

TO: Clerk of Superior Court of Riverside County and All Parties

RE: Watermaster Report for Calendar Year 1999

Gentlemen:

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1999.

The provisions of Paragraph III and Paragraphs V through XII of the Judgment in Case No. 78426, entered April 17, 1969, became effective from and after January 1, 1971. The Judgment requires that the Watermaster report to the Court and to each Party in writing not more than seven months after the end of each year, or within such other time as the Court may fix, on each determination made by said Watermaster pursuant to the Judgment and such other items as the Parties may mutually request or the Watermaster may deem to be appropriate.

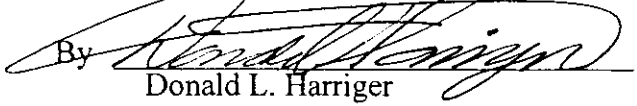
Accordingly, this report is submitted herewith under date of August 1, 2000, and presents the findings of the Watermaster for Calendar Year 1999 and summarizes the five-year period 1994 through 1998.


Provisions of the Judgment require that Western and San Bernardino Valley provide groundwater replenishment if certain base rights are exceeded. The determination of replenishment obligations for the five-year period 1994 through 1998 indicates that Western and San Bernardino Valley are not required to provide additional imported water for replenishment.

We, and each of us, hereby certify that this is a true and correct Report of the Watermaster for work performed by us, and under our supervision, for Calendar Year 1999 pursuant to the requirements of the Judgment.

Respectfully submitted,

WESTERN-SAN BERNARDINO WATERMASTER

By   
Donald L. Harriger

  
Robert L. Reiter

WESTERN - SAN BERNARDINO WATERMASTER  
FOR  
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vs.  
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**OF THE**  
**WESTERN-SAN BERNARDINO WATERMASTER**

FOR

CALENDAR YEAR 1999

August 1, 2000

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**CHAPTER I**  
**INTRODUCTION**

# CHAPTER I

## INTRODUCTION

Provisions of the physical solution set forth in the Judgment in Case No. 78426, Western Municipal Water District of Riverside County et al., vs. East San Bernardino County Water District et al., entered April 17, 1969, in the Superior Court of the State of California in and for the County of Riverside, established the entitlements and obligations of the two major water districts overlying the San Bernardino, Riverside, and Colton groundwater basins, namely San Bernardino Valley Municipal Water District (SBVMWD) and Western Municipal Water District of Riverside County (WMWD).

The Court appointed a Watermaster, composed of two persons, to administer and enforce the provisions of the Judgment and to report annually to the Court and the parties. Donald L. Harriger and Robert L. Reiter were appointed pursuant to nominations by the WMWD and SBVMWD, respectively.

The provisions of the Judgment became effective January 1, 1971; however, progress reports were filed with the Court for calendar years 1969, 1970, and 1971 reporting on the progress of verifications and initial determinations required by the Judgment. The recordation filings obtained from the State Water Resources Control Board and required for determination of annual extractions from the various basins are not available to the Watermaster until seven or eight months after the end of calendar year for which the filings are made. This report for calendar year 1999 includes a description and summary of the work completed during 1999 and also includes the annual accounting of extractions from the San Bernardino, Colton and Riverside Basin areas and the distribution of such extractions to the various service areas for calendar year 1998. The scope of this report for 1999 and a history of the litigation leading to the physical solution settling the case are set forth in some detail in succeeding paragraphs.

## **Scope of Report**

Paragraph XIII(E) of the Judgment requires the Watermaster to report to the Court and each Party not more than seven months after the end of each year.

The Annual Reports of the Western-San Bernardino Watermaster for calendar years 1969 thru 1971 reported on the verifications and initial determinations required by the Judgment including the safe yield of the San Bernardino Basin Area and the determination of the Adjusted Rights of the Plaintiffs. Beginning with the 1972 Report, the Watermaster began the annual accounting in accordance with the Judgment provisions. This report presents the activities of the Watermaster for calendar year 1999 together with the annual accounting of extractions and deliveries for calendar year 1998.

## **History of Litigation**

Before the turn of the century, the various water service organizations diverting surface water from the Santa Ana River and pumping from the underground water basins supplied by the underflow of the Santa Ana River and its tributaries have from time to time engaged in litigation over water rights within the San Bernardino, Riverside, and Orange County areas.

On October 18, 1963, the Orange County Water District (OCWD) filed suit against the City of Chino and others, seeking an adjudication of water rights against more than 2,500 water users in the Santa Ana River Watershed tributary to Prado Dam. Included among the defendants were the Chino Basin Municipal Water District (CBMWD), Western Municipal Water District of Riverside County (WMWD), and San Bernardino Valley Municipal Water District (SBVMWD). Thirteen cross complaints were filed in 1968, which extended the adjudication to more than 1,500 water users in the area downstream from Prado Dam, which included OCWD. Thus, some 4,000 parties were involved in the suit, including the three upper districts and OCWD.

With a case of this magnitude, it became obvious that every effort should be made to arrive at an equitable settlement and a physical solution in order to obviate the enormous expense and unwieldy litigation which would be involved if the case were brought to trial.

Attorneys and engineers representing the four major districts and a large number of the defendants worked diligently in order to effect a settlement and some type of physical solution which would prove acceptable to all parties.

As a result, in May of 1968, an outline of a proposal for settlement of the case was prepared and a committee, composed of attorneys and engineers for the parties, commenced preparation of the settlement documents.

In June, 1968, the Court held a hearing on the motions which it had received requesting a preliminary injunction and an order of reference. The plaintiff OCWD, however, was concerned with the necessity of bringing the case to trial within the statutory period, and therefore, on July 15, 1968, submitted a motion to set the complaint in the case for trial. On October 15, 1968, the trial was commenced and adjourned after a half day of testimony on behalf of the Plaintiff.

Shortly thereafter, the parties filed settlement documents with the Court, including a stipulation for Judgment, and on April 17, 1969, the Court, entered the stipulated Judgment, thus terminating the many years of controversy over water rights along the Santa Ana River involving the issues and parties included in the case of Orange County Water District vs. City of Chino, et al.

During the settlement negotiations, it became apparent that the San Bernardino Valley entities would participate only in a part of the Orange County settlement, in the belief that they had no responsibility for the waters of the Santa Ana River downstream from the point of rising water at Riverside Narrows. Therefore, the settlement of the OCWD action established an obligation of SBVMWD for the delivery of 15,250 acre-

feet of Base Flow annually at the Riverside Narrows, subject, however, to adjustment for quality.

As a result of the Orange County settlement, it became apparent that a second settlement would be necessary between the Riverside and San Bernardino entities who diverted water from the Santa Ana River surface and groundwater sources supplied by the Santa Ana River and tributaries above the Riverside Narrows.

For some time, increasing withdrawals from groundwater resources above Bunker Hill Dike (San Jacinto Fault), which supplied in large part the water requirements of San Bernardino and Redlands as well as the Riverside exporters, had been the cause of concern to the exporters in Riverside County. As a result, on March 1, 1963, a suit was filed by WMWD and others, seeking a general adjudication of water rights within the San Bernardino Basin Area. This suit preceded the filing of the Orange County suit, and it was decided that this suit could well be used as a vehicle for a physical settlement between Riverside and San Bernardino interests.

Following extensive negotiations between Riverside and San Bernardino interests, a physical settlement was completed and documents delineating the settlement were entered in the Superior Court of the State of California in and for the County of Riverside on April 17, 1969, being Judgment No. 78426.

#### **Summary of Judgment No. 78426**

The physical solution as agreed upon and as set forth in the Judgment states that all instructions and orders of the Court are to be administered and enforced by a Watermaster consisting of a committee of two persons, one of whom shall be nominated by SBVMWD and the other by WMWD and appointed by the Court.

The Judgment directed the Watermaster to make certain initial determinations and to verify the amounts of water diverted and pumped from streams and groundwater basins embraced by the Judgment where such amounts had been assumed for

purposes of the Judgment. Upon completion of the verifications and initial determinations compliance with the Judgment requires an annual accounting of the ground and surface water production within the various basins in order that the Watermaster may properly report to the Court the comparisons of the year-by-year operations with the verified entitlements and an accounting as to the replenishment obligations or credits indicated by such comparison. The items verified or determined initially and to be reported on annually are as follows:

	<b>Watermaster Determination Required by Judgment</b>	<b>Verified for Five Calendar Years Ending with 1963</b>	<b>To Be Determined Annually from and after 1971</b>
1.	Total actual average annual extractions from the San Bernardino Basin Area by entities other than plaintiffs for use within San Bernardino County.	X	X
2.	The natural safe yield of the San Bernardino Basin Area based upon the cultural conditions equivalent to those existing during the five-calendar year period ending with 1963.	1	1
3.	The annual "adjusted right" of each Exporter (Plaintiff) to extract water from the San Bernardino Basin Area based upon the percentage of the natural safe yield determined by the methods used in Table B-2 of the Judgment.	X	
4.	The annual production by plaintiffs for comparison with adjusted right determined in item 3 next preceding.		X
5.	Annual discharge from the City of San Bernardino Water Quality Control Plant to the river as to quantity and quality.	2	X
6.	Average annual extractions from the Colton Basin Area for use outside San Bernardino Valley.	X	X
7.	Average annual extractions from the Riverside Basin Area within San Bernardino County for use outside San Bernardino Valley.	X	X

	Watermaster Determination Required by Judgment	Verified for Five Calendar Years Ending with 1963	To Be Determined Annually from and after 1971
8.	The average static water levels within the Colton Basin and Riverside Basin within San Bernardino County as determined by the three wells listed in Judgment.	3	X
9.	The average annual extractions from that portion of the Riverside Basin Area in Riverside County which are tributary to the Riverside Narrows for use in Riverside County.	X	X
10.	Annual amounts of water extracted for use within Western from the San Bernardino Basin and the area downstream therefrom to the Riverside Narrows which have been exported for use outside the area tributary to the Riverside Narrows.	X	X
11.	Annual amount of water extracted for use within San Bernardino County from the San Bernardino Basin Area and Colton Basin Area for use on lands which are not tributary to the Riverside Narrows.	4	X
12.	Reduction in return flow now contributing to base flows at Riverside Narrows which results from conversion of agriculture using water within Western to domestic or other uses connected to sewage or waste disposal system, the effluent from which is not tributary to the rising water at Riverside Narrows.	5	X

<sup>1</sup> Determined initially by supplemental order of the Court to be 232,100 acre-feet per annum. Such amount is subject to the continuing jurisdiction of the Court.

<sup>2</sup> Assumed for purposes of Judgment to be 16,000 acre-feet annually, verification not required.

<sup>3</sup> Established at 822.04 feet above sea level, based on fall season of 1963.

<sup>4</sup> Revised by Watermaster during preparation of the Annual Report for calendar year 1974.

<sup>5</sup> Average for 5 years ending with 1963 established by Judgment to be 3,916 acres; verification not required.

The foregoing initial determinations and verifications required by the Judgment have been completed and were reported in the *Annual Report of the Western-San Bernardino Watermaster for Calendar Years 1971 and 1972.*

**CHAPTER II**  
**WATERMASTER ACTIVITIES**



## **CHAPTER II**

### **WATERMASTER ACTIVITIES**

The Watermaster activities have included principally the collection, tabulation, and analysis of data, the maintenance of records, and the preparation of the annual report which presents the determinations and findings of the Watermaster as required by the Judgment.

#### **Groundwater Extractions**

The most important data required for implementing the provisions of the Judgment are the annual tabulations of the groundwater extractions and surface water diversions made within the San Bernardino, Colton, and Riverside Basin Areas. These extractions and diversions were initially determined and verified for the 1959-63 Base Period and were assembled and summarized in the Watermaster Report on Verification of Extractions, Volume 1 (consisting of three parts), Volumes 2, 3, and 4 for the San Bernardino Basin Area, Colton Basin Area, Riverside Basin Area in San Bernardino County, and Riverside Basin Area in Riverside County, respectively. A program has been established for obtaining and tabulating annual notices of groundwater extractions and surface diversions filed with the State Water Resources Control Board. These data are verified by the Watermaster and provide the basis for the annual accounting of extractions as required by the Judgment. Such extractions have been determined for calendar year 1998 and are summarized herein. Listings of the verified extractions by each individual owner for calendar year 1998 are assembled in Report of Watermaster, Volumes 1-1998, 1A-1998, 2-1998, 3-1998, and 4-1998.

### **Distribution of Extractions**

In addition to the annual accounting of the extractions from each Basin, the Judgment also requires a determination as to the distribution of such extractions to the various service areas.

The distribution of verified extractions from the Colton and Riverside Basin Areas and the distribution of the Plaintiffs' extractions from the San Bernardino Basin Area were determined initially for the 1959-63 Base Period, and were reported in Report of Watermaster, Volume 5, entitled *Distribution of Extractions*. Such distribution has been determined for calendar year 1998 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-1998.

The Watermaster is also required to determine the amount of water extracted from each of the various Basin Areas and delivered to areas not tributary to Riverside Narrows. Such amounts fall into two classifications, described as follows:

- 1) Extractions from the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for use within Western on lands not tributary to the Riverside Narrows.
- 2) Extractions from the San Bernardino Basin Area and Colton Basin Area within the San Bernardino Valley Municipal Water District for use on lands not within Western nor tributary to the Riverside Narrows.

The amount of water extracted and delivered under Classification No. 1 was determined initially for the 1959-63 Base Period and was reported in the Report of Watermaster, Volume 6, dated June, 1972. The amount determined for calendar year 1998 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, in Volume 6-1998.

The amount of water extracted and delivered under Classification No. 2 was determined for the 1959-63 Base Period and the additional years 1970 and 1971 and was published in the Report of Watermaster, Volume 7, dated February, 1973. The amount determined for calendar year 1998 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-1998.

### **Groundwater Level Measurements**

Groundwater surface elevation data required for three key wells located in the Colton Basin Area and the Riverside Basin Area within San Bernardino County are currently furnished by the City of Riverside, SBVMWD and Western Municipal Water District.

These data are shown in both tabular and graphical form for calendar years 1963 thru 1998 in Volume 8 of previous Watermaster reports. The determination for calendar year 1999 is shown in the Report of Watermaster Volume 8-1998.

### **Stream Flow and Water Quality Measurements**

The program of stream flow measurements conducted by the United States Geological Survey (USGS) in cooperation with the Watermaster has continued to provide basin inflow and stream diversion data.

The Western-San Bernardino Watermaster participates with the Santa Ana River Watermaster in part of the expense of the cooperative program with the USGS on surface water gages and water quality monitors at various locations. These expenses are presented in reports filed by the Santa Ana River Watermaster. The costs incurred for stream flow data collected and analyzed by the USGS on behalf of the Western-San Bernardino Watermaster are set forth in Table No. 1.

### **Field Inspections**

During the verification of the 1998 extractions from the San Bernardino, Colton and Riverside Basin Areas, many of the pumping facilities installed for extractions of groundwater and diversion of surface water were visited by the Watermasters or their representatives. Contact was made with many of the extractors to review their methods of computing production for annual reports filed with the State Water Resources Control Board.

During the initial verification program in the San Bernardino Basin Area, it was found that many groundwater producers and several diverters of surface water did not file their extractions and diversions with the State Water Resources Control Board. This condition was found to exist in many locations during the current year, which again necessitated inspection trips and contacts with various owners by the Watermasters or their representatives.

TABLE NO. 1  
 COSTS TO THE PARTIES FOR USGS  
 SURFACE WATER MEASUREMENTS USED BY  
 WESTERN-SAN BERNARDINO WATERMASTER  
 October 1, 1997 to September 30, 1998

	Parties Share	USGS Share
<u>Mill Creek near Mentone</u>	\$ 9,400	\$ 0
<u>Santa Ana River near Mentone</u>	16,050	7,300
<u>Plunge Creek near East Highland</u>	16,050	16,050
<u>Devil Canyon Creek near San Bernardino</u>	14,600	0
<u>East Twin Creek near Arrowhead Springs</u>	8,000	8,000
<u>City Creek near Highland</u>	9,425	9,425
Channel work to repair flood damage	3,000	0
<u>Warm Creek near San Bernardino</u>	7,300	7,300
<u>San Timoteo Creek near Loma Linda</u>	7,300	7,300
<u>Lone Pine Creek near Keenbrook</u>	7,300	7,300
<u>Cajon Creek below Lone Pine Creek near Keenbrook</u>	7,300	7,300
<u>Lytle Creek at Fontana Union Head Gates</u>		
Lytle Creek near Fontana Streamflow	10,225	10,225
Weir No. 2 — infiltration Line	1,750	1,750
Weir No. 3 — Head Gate Diversion	8,750	0
20-ft. Weir — Return to Creek	8,750	0
<u>Southern California Edison Lower Power House on Lytle Creek</u>		
20-ft. Weir--Discharge Lower Power House	8,750	0
Parshall Flume--Return to Creek from Afterbay	8,750	0
Fontana Diversion (20-ft. Weir, West)	8,750	0
<u>Lytle Creek at Colton</u>	<u>7,300</u>	<u>7,300</u>
SUBTOTAL FOR PARTIES AND WATERMASTER	\$168,750	
United States Geological Survey		<u>\$89,250</u>
TOTAL		\$258,000

**CHAPTER III**

**EXTRACTIONS FROM THE  
SAN BERNARDINO BASIN AREA**

**CHAPTER III**  
**EXTRACTIONS FROM THE**  
**SAN BERNARDINO BASIN AREA**

The extractions from the San Bernardino Basin Area have been classified as first, those extractions and diversions for use by other than Plaintiffs and second, those extractions and diversions for use by Plaintiffs.

The total verified extractions by other than Plaintiffs for calendar years 1971 through 1998, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 1998 verifications are included in Report of Watermaster, Volume 1-1998.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the 1959-63 Base Period and calendar years 1971 through 1998 are shown on Table No. 3. The individual work sheets for the 1998 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-1998 and Volume 5-1998.

For reference, the Adjusted Rights of other than Plaintiffs and Plaintiffs are also shown on Tables 2 and 3.

Paragraph VII of the Judgment entitled *Water Discharged Across Bunker Hill Dike* recites as follows:

*San Bernardino Valley shall keep in force an agreement with the City of San Bernardino that the present annual quantity of municipal sewage effluent discharged across Bunker Hill Dike, assumed for all purposes herein to be 16,000 acre-feet annually, shall be committed to the discharge of the downstream obligations imposed on San Bernardino Valley under this Judgment or under the Orange County Judgment, and that such effluent shall comply with the requirements of the Santa Ana River Basin Regional Water Quality Control Board in effect December 31, 1968.*

The Judgment does not charge the Watermaster with verification of the 16,000 acre-foot amount, and the enforcement of the quality requirements is considered to be the responsibility of the California Regional Water Quality Control Board — Santa Ana Region.

Prior to December, 1972, sewage effluent was discharged across the Bunker Hill Dike via Warm Creek (Plant No. 1) and the Santa Ana River (Plant No. 2). With the completion of the new Water Quality Control Plant at the "E" Street site (Plant No. 2) the total effluent discharge of the City of San Bernardino Water Quality Control Plant accrues to the Santa Ana River immediately upstream from the "E" Street Bridge. In January, 1973, the Watermaster in cooperation with the USGS began operation of a gaging station on the plant outfall to obtain a continuous record of the quantity and mineral quality of the sewage effluent discharged to the Santa Ana River. This station has been discontinued and Watermaster now relies on the City of San Bernardino for these data.

On April 1, 1996, the cities of San Bernardino and Colton began discharging their municipal wastewater effluent at a point several miles farther downstream of their historical discharge points and through the Rapid Infiltration and Extraction System (RIX). RIX is a 50-acre groundwater recharge and extraction system specifically designed to meet the filtration and disinfection requirements of *California Code of Regulations, Title 22*, for discharge in Reach Four of the Santa Ana River.

The Regional Water Quality Control Board had ordered the two cities to provide Title 22 treatment levels of their discharge prior to its entrance into the Santa Ana River. An evaluation indicated that a system for groundwater recharge and immediate extraction would accomplish the required treatment levels and would be more cost effective than a conventional tertiary treatment system. The RIX system is located adjacent to the Santa Ana River in the Riverside Basin Area in San Bernardino County.



The project was constructed by the two cities with the Santa Ana Watershed Project Authority acting as the construction manager.

In order to ensure that the secondary effluent recharged to the groundwater system would be fully recovered, it is necessary that the amount of RIX extractions exceed the amount of recharged water. Although it has been projected that the over-extraction rates would, in the long term, be about ten percent more than that recharged, it was necessary during the initial months of operation of the facility to over-extract at a much higher rate. Initially the over-extraction was about 30%.

The over-extraction, combined with the fact that the RIX discharge point is located several miles downstream from the prior discharge points of the two cities, had an immediate impact upon the flows at both Riverside Narrows and Prado. The effect of the changed points of discharge on the key wells (see Chapter 5, Minimum Water Surface Elevation) is being monitored closely with monthly depth to water readings at the wells.

The discharge to the Santa Ana River from the Cities of San Bernardino and Colton has been determined by the Watermaster as shown on the following table:

<b>Calendar Year</b>	<b>Plant No. 1 (Acre-Feet)</b>	<b>Plant No. 2 (Acre-Feet)</b>	<b>Total (Acre-Feet)</b>	<b>RIX (Acre-Feet) San Bernardino and Colton combined flows</b>
1971	5,705	8,925	14,630	
1972	6,784	9,963	16,747	
1973	0	17,640	17,640	
1974	0	17,070	17,070	
1975	0	16,820	16,820	
1976	0	17,530	17,530	
1977	0	17,720	17,720	
1978	0	18,690	18,690	
1979	0	19,350	19,350	
1980	0	20,670	20,670	
1981	0	21,120	21,120	
1982	0	24,493	24,493	
1983	0	23,170	23,170	
1984	0	21,759	21,759	
1985	0	23,814	23,814	
1986	0	25,442	25,442	
1987	0	27,154	27,154	
1988	0	27,290	27,290	
1989	0	28,300	28,300	
1990	0	27,770	27,770	
1991	0	26,980	26,980	
1992	0	25,510	25,510	
1993	0	24,660	24,660	
1994	0	24,790	24,790	
1995	0	26,260	26,260	
1996	0	6,610	6,610	30,880
1997	0	0	0	44,950
1998	0	0	0	48,710

VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO  
BASIN AREA BY OTHER THAN PLAINTIFFS  
(All Values in Acre-Feet)

Calendar Year	Verified Extractions				Total	Adjusted Right		
	By Owners Who Have Filed		By Owners Who Have Not Filed					
	With SWRCB		With SWRCB					
1971	154,836	2	8,350	2	163,186	2	171,342	1
1972	159,628	2	7,599	2	167,227	2	167,238	
1973	152,604	3	7,177	3	159,781	3	167,238	
1974	153,099	4	5,586	4	158,685	4	167,238	
1975	147,199		4,482		151,681		167,238	
1976	140,329	5	3,988	5	144,317	5	167,238	
1977	139,844		4,967		144,811		167,238	
1978	132,439		4,601		137,040		167,238	
1979	150,196		4,611		154,807		167,238	
1980	153,918	6	5,504		159,422	6	167,238	
1981	167,564		5,075		172,639		167,238	
1982	148,250	7	4,790		153,040	7	167,238	
1983	142,088	8	4,346		146,434	8	167,238	
1984	175,605	8	5,203		180,808	8	167,238	
1985	172,976	8	4,943	8	177,919	8	167,238	
1986	179,842	9	4,892		184,734	9	167,238	
1987	168,171		4,330		172,501		167,238	
1988	176,770	10	4,655		181,425	10	167,238	
1989	168,626	11	4,904		173,530	11	167,238	
1990	162,712		4,560		167,272		167,238	
1991	162,005		4,342		166,347		167,238	
1992	168,700	11	4,213		172,913	11	167,238	
1993	174,363	12	4,012		178,375	12	167,238	
1994	183,370	13	4,137		187,507	13	167,238	
1995	178,046	14	4,125		182,171	14	167,238	
1996	185,835	15	3,584		189,419	15	167,238	
1997	186,405	16	2,099		188,504	16	167,238	
1998	196,514	17	1,960		198,474	17	167,238	

1 Adjust Right not effective until January 1, 1972; therefore, 1971 Base Right is as verified for five-year Base Period 1959-63.

2 Amount corrected during verification of 1973 extractions.

3 Amount corrected during verification of 1974 extractions.

4 Amount corrected during verification of 1975 extractions.

5 Amount corrected during verification of 1977 extractions.

6 Amount corrected during verification of 1981 extractions.

7 Amount corrected during verification of 1983 extractions.

8 Amount corrected during verification of 1986 extractions.

9 Amount corrected during verification of 1988 extractions.

10 Amount corrected during verification of 1989 extractions.

11 Amount corrected during verification of 1995 extractions.

12 Includes 1,530 acre-feet pumped by Riverside to OCWD under June 16, 1993 amendment

to December 22, 1981 agreements. Amount corrected during verification of 1994 extractions.

13 Includes 3,485 acre-feet pumped by Riverside to OCWD under March 2, 1994 amendment to December 22, 1981 agreements.

14 Includes 177 acre-feet pumped by Riverside to OCWD under March 15, 1995 amendment to December 22, 1981 agreements.

Amount corrected during verification of 1996 extractions.

15 Includes 2,768 acre-feet pumped by Riverside to OCWD under March 6, 1996 amendment to December 22, 1981 agreements.

Amount corrected during verification of 1998 extractions.

16 Includes 1,873 acre-feet pumped by Riverside to OCWD under February 19, 1997 amendment to December 22, 1981 agreements.

Amount corrected during verification of 1998 extractions.

17 Includes 1,049 acre-feet pumped by Riverside to OCWD under April 30, 1998 amendment to December 22, 1981 agreements.

Note: See Report of Watermaster, Volume 1.

VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO  
BASIN AREA BY OTHER THAN PLAINTIFFS  
(All Values in Acre-Feet)

Five-Year Period	Verified Extractions		Total	Adjusted Right
	By Owners Who Have Filed With SWRCB	By Owners Who Have Not Filed With SWRCB		
1971-75	767,366	33,194	800,560	840,294
1972-76	752,859	28,832	781,691	836,190
1973-77	733,075	26,200	759,275	836,190
1974-78	712,910	23,624	736,534	836,190
1975-79	710,007	22,649	732,656	836,190
1976-80	716,726	23,671	740,397	836,190
1977-81	743,961	24,758	768,719	836,190
1978-82	752,367	24,581	776,948	836,190
1979-83	762,016	24,326	786,342	836,190
1980-84	787,425	24,918	812,343	836,190
1981-85	806,483	24,357	830,840 *	836,190
1982-86	818,761	24,174	842,935	836,190
1983-87	838,682	23,714	862,396	836,190
1984-88	873,364	24,023	897,387	836,190
1985-89	866,385	23,724	890,109	836,190
1986-90	856,121	23,341	879,462	836,190
1987-91	838,284	22,791	861,075 *	836,190
1988-92	838,813	22,674	861,487	836,190
1989-93	836,406	22,031	858,437	836,190
1990-94	851,150	21,264	872,414	836,190
1991-95	866,484	20,829	887,313	836,190
1992-96	890,314	20,071	910,385	836,190
1993-97	908,019	17,957	925,976	836,190
1994-98	930,170	15,905	946,075	836,190

\* number corrected

**TABLE NO. 3**  
**VERIFIED EXTRACTATIONS FROM THE SAN BERNARDINO BASIN AREA**  
**FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA**  
**(All Values in Acre-Feet)**

**Plaintiffs**

		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
<b>Total Extractions</b>	<b>Adjusted Right</b>	<b>1</b>	<b>4,294</b>	<b>7,833</b>	<b>536</b>	<b>64,862</b>
in San Bernardino	1971 Extractions	52,199	4,012	2,902	219	61,015
Basin Area	1972 Extractions	53,882	4,532	3,527	239	53,992
	1973 Extractions	45,694	3,512	2,979	239	49,752
	1974 Extractions	43,022	4,088	4,504	267	52,226
	1975 Extractions	43,367	4,709	3,950	179	56,800
	Adjusted Right	1,427	0	0	0	1,427
Delivery to	1971 Extractions	98	0	0	0	98
San Bernardino	1972 Extractions	85	0	0	0	85
Basin Area	1973 Extractions	156	0	0	0	156
	1974 Extractions	0	0	0	0	0
	1975 Extractions	0	0	0	0	0
	Adjusted Right	1,230	2,449	318	0	3,997
Delivery to Colton	1971 Extractions	669	2,388	383	0	3,440
Basin Area and	1972 Extractions	547	2,239	377	0	3,163
Riverside Basin Area	1973 Extractions	512	1,751	250	0	2,513
in San Bernardino	1974 Extractions	550	1,985	246	0	2,781
County	1975 Extractions	498	2,002	168	0	2,668
	Adjusted Right	49,542	1,845	7,515	536	59,438
Delivery to Area	1971 Extractions	53,115	1,624	2,519	219	57,477
Outside	1972 Extractions	45,062	2,293	3,150	239	50,744
San Bernardino Valley	1973 Extractions	42,354	1,761	2,729	239	47,083
	1974 Extractions	42,817	2,103	4,258	267	49,445
	1975 Extractions	47,464	2,707	3,782	179	54,132

1 Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.  
 2 1971 amount corrected during verification of 1972 extractions.

Note: See Report of Watermaster, Volume 1A and Volume 5.

**TABLE NO. 3**  
**VERIFIED EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA**  
**FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA**  
 (All Values in Acre-Feet)

**Plaintiffs**

	City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
<b>Total Extractions</b>					
in San Bernardino					
Basin Area					
Adjusted Right	52,199	4,294	7,833	536	64,862
1976 Extractions	51,374	4,519	5,393	245	61,531
1977 Extractions	50,999	3,583	4,220	87	58,889
1978 Extractions	45,384	1,350	2,254	183	49,171
1979 Extractions	52,377	3,369	3,930	83	59,759
1980 Extractions	50,756	3,677	2,333	7	56,773
Delivery to					
San Bernardino					
Basin Area					
Adjusted Right	1,427	0	0	0	1,427
1976 Extractions	0	0	0	0	0
1977 Extractions	0	0	0	0	0
1978 Extractions	646	0	0	0	646
1979 Extractions	0	0	0	0	0
1980 Extractions	383	0	0	0	383
Delivery to Colton					
Basin Area and					
Riverside Basin Area					
in San Bernardino					
County					
Adjusted Right	1,230	2,449	318	0	3,997
1976 Extractions	523	2,050	182	0	2,755
1977 Extractions	346	1,820	146	0	2,312
1978 Extractions	301	1,051	161	0	1,513
1979 Extractions	415	1,781	166	0	2,362
1980 Extractions	0	2,060	323	0	2,383
Delivery to Area					
Outside					
San Bernardino Valley					
Adjusted Right	49,542	1,845	7,515	536	59,438
1976 Extractions	50,851	2,469	5,211	245	58,776
1977 Extractions	50,653	1,763	4,074	87	56,577
1978 Extractions	44,437	299	2,093	183	47,012
1979 Extractions	51,962	1,588	3,764	83	57,397
1980 Extractions	50,373	1,617	2,010	7	54,007

1 Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.

2 Amount corrected during verification of 1980 extractions.

3 Amount corrected during preparation of report for Calendar Year 1982.

Note: See Report of Watermaster, Volume 1A and Volume 5.

TABLE NO. 3  
**VERIFIED EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA**  
**FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA**  
 (All Values in Acre-Feet)

**Plaintiffs**

		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
<b>Total Extractions</b>	<b>Adjusted Right</b>	<b>1</b>	<b>4,294</b>	<b>7,833</b>	<b>536</b>	<b>64,862</b>
in San Bernardino	1981 Extractions	52,199	3,604	3,092	143	58,996
Basin Area	1982 Extractions	49,599	2,795	3,716	48	56,158
	1983 Extractions	46,064	3,161	2,651	0	51,876
	1984 Extractions	58,906	4,759	5,165	0	68,830
	1985 Extractions	63,073	3,312	5,385	0	71,770
<b>Delivery to</b>	<b>Adjusted Right</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,427</b>
San Bernardino	1981 Extractions	724	0	0	0	724
Basin Area	1982 Extractions	162	0	0	0	162
	1983 Extractions	335	0	0	0	335
	1984 Extractions	32	0	0	0	32
	1985 Extractions	59	0	0	0	59
<b>Delivery to Colton</b>	<b>Adjusted Right</b>	<b>1</b>	<b>2,449</b>	<b>318</b>	<b>0</b>	<b>3,997</b>
Basin Area and	1981 Extractions	1,230	2,151	358	0	2,509
Riverside Basin Area	1982 Extractions	0	1,775	169	0	1,944
in San Bernardino	1983 Extractions	0	2,318	245	0	2,563
County	1984 Extractions	0	2,671	233	0	2,904
	1985 Extractions	0	1,978	210	0	2,188
<b>Delivery to Area</b>	<b>Adjusted Right</b>	<b>1</b>	<b>1,845</b>	<b>7,515</b>	<b>536</b>	<b>59,438</b>
Outside	1981 Extractions	49,542	1,453	2,734	143	55,763
San Bernardino Valley	1982 Extractions	51,433	1,020	3,547	48	54,052
	1983 Extractions	49,437	843	2,406	0	48,978
	1984 Extractions	45,729	2,088	4,932	0	65,894
	1985 Extractions	58,874	1,334	5,175	0	69,523

1 Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.  
 2 Amount corrected during verification of 1983 extractions.

Note: See Report of Watermaster, Volume 1A and Volume 5.

**TABLE NO. 3**  
**VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA**  
**FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA**  
 (All Values in Acre-Feet)

		Plaintiffs							Total
		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California				
<b>Total Extractions</b>	<b>Adjusted Right</b>	<b>1</b>	<b>4,294</b>	<b>7,833</b>	<b>536</b>			<b>64,862</b>	
in San Bernardino	1986 Extractions	52,199	4,744	5,570	48			70,341	
Basin Area	1987 Extractions	59,979	3,919	4,914	195			66,869	
	1988 Extractions	57,841	4,775	4,966	179			74,432	
	1989 Extractions	64,512	4,681	5,392	62			60,919	
	1990 Extractions	50,784	4,092	3,851	95			55,675	
	47,637								
<b>Delivery to</b>	<b>Adjusted Right</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>1,427</b>	
San Bernardino	1986 Extractions	1,427	0	0	0			437	
Basin Area	1987 Extractions	437	0	0	0			334	
	1988 Extractions	334	0	0	0			815	
	1989 Extractions	815	0	0	0			28	
	1990 Extractions	28	0	0	0			19	
	19								
<b>Delivery to Colton</b>	<b>Adjusted Right</b>	<b>1</b>	<b>2,449</b>	<b>318</b>	<b>0</b>			<b>3,997</b>	
Basin Area and	1986 Extractions	1,230	2,130	234	0			2,364	
Riverside Basin Area	1987 Extractions	0	2,229	193	0			2,422	
in San Bernardino	1988 Extractions	0	2,229	233	0			2,462	
County	1989 Extractions	0	1,968	240	0			2,208	
	1990 Extractions	0	2,313	83	0			2,396	
<b>Delivery to Area</b>	<b>Adjusted Right</b>	<b>1</b>	<b>1,845</b>	<b>7,515</b>	<b>536</b>			<b>59,438</b>	
Outside	1986 Extractions	49,542	2,614	5,336	48			67,540	
San Bernardino Valley	1987 Extractions	59,542	1,690	4,721	195			64,113	
	1988 Extractions	57,507	2,546	4,733	179			71,155	
	1989 Extractions	63,697	2,713	5,152	62			58,683	
	1990 Extractions	50,756	1,779	3,768	95			53,260	
	47,618								

**1 Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.**  
 Note: See Report of Watermaster, Volume 1A, Table 3; and Volume 5, Table 36A.



TABLE NO. 3  
**VERIFIED EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA  
 FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA**  
 (All Values in Acre-Feet)

		Plaintiffs							Total
		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California				
<b>Total Extractions</b>	<b>1</b>								
Adjusted Right		52,199	4,294	7,833	536			64,862	
1991 Extractions		52,909	3,021	4,426	23			60,379	
1992 Extractions		50,239	4,052	4,100	32			58,423	
1993 Extractions		52,114	3,241	5,013	536			60,904	
1994 Extractions		60,447	4,324	4,525	593			69,889	
1995 Extractions		55,392	3,955	3,560	588			63,495	
Adjusted Right	<b>1</b>	1,427	0	0	0			1,427	
1991 Extractions		155	0	0	0			155	
1992 Extractions		203	0	0	0			203	
1993 Extractions		-108	0	0	0			-108	
1994 Extractions		46	0	0	0			46	
1995 Extractions		99	0	0	0			99	
Adjusted Right	<b>1</b>	1,230	2,449	318	0			3,997	
1991 Extractions		0	1,669	190	0			1,859	
1992 Extractions		0	2,275	118	0			2,393	
1993 Extractions		0	1,777	276	0			2,053	
1994 Extractions		0	2,201	227	0			2,428	
1995 Extractions		0	2,146	145	0			2,291	
Adjusted Right	<b>1</b>	49,542	1,845	7,515	536			59,438	
1991 Extractions		52,754	1,352	4,236	23			58,365	
1992 Extractions		50,036	1,777	3,982	32			55,827	
1993 Extractions		52,222	1,464	4,737	536			58,959	
1994 Extractions		60,401	2,123	4,298	593			67,415	
1995 Extractions		55,293	1,809	3,415	588			61,105	

1 Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.  
 Note: See Report of Watermaster, Volume 1A, Table 3, and Volume 5, Table 36A.

TABLE NO. 3  
**VERIFIED EXTRACTATIONS FROM THE SAN BERNARDINO BASIN AREA**  
**FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA**  
 (All Values in Acre-Feet)

		Plaintiffs						Total
		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California			
Total Extractions in San Bernardino Basin Area	Adjusted Right	52,199	4,294	7,833	536	64,862		
	1996 Extractions	63,382	5,051	3,912	445	72,790		
	1997 Extractions	59,938	4,939	4,165	505	69,547		
	1998 Extractions	54,417	3,250	3,828	590	62,085		
	1999 Extractions							
	2000 Extractions							
Delivery to San Bernardino Basin Area	Adjusted Right	1,427	0	0	0	1,427		
	1996 Extractions	519	0	0	0	519		
	1997 Extractions	683	0	0	0	683		
	1998 Extractions	182	0	0	0	182		
	1999 Extractions							
	2000 Extractions							
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Right	1,230	2,449	318	0	3,997		
	1996 Extractions	0	2,756	194	0	2,950		
	1997 Extractions	0	2,656	137	0	2,793		
	1998 Extractions	0	1,961	210	0	2,171		
	1999 Extractions							
	2000 Extractions							
Delivery to Area Outside San Bernardino Valley	Adjusted Right	49,542	1,845	7,515	536	59,438		
	1996 Extractions	62,863	2,295	3,718	445	69,321		
	1997 Extractions	59,255	2,283	4,028	505	66,071		
	1998 Extractions	54,235	1,289	3,618	590	59,732		
	1999 Extractions							
	2000 Extractions							

1 Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.  
 Note: See Report of Watermaster, Volume 1A, Table 3, and Volume 5, Table 36A.

**CHAPTER IV**

**NATURAL SAFE YIELD OF THE  
SAN BERNARDINO BASIN AREA AND  
ADJUSTED RIGHTS OF PLAINTIFF EXPORTERS**

## CHAPTER IV

### NATURAL SAFE YIELD OF THE SAN BERNARDINO BASIN AREA AND ADJUSTED RIGHTS OF PLAINTIFF EXPORTERS

The Watermaster has determined the natural safe yield of the water supply accruing to the San Bernardino Basin Area at 232,100 acre-feet per annum from which the Adjusted Rights of Plaintiff exporters were also determined. Such determination of safe yield and Adjusted Rights of Plaintiff exporters was set forth in detail in Report of Watermaster, Volume 9, entitled *Determination of Natural Safe Yield of the San Bernardino Basin Area and Adjusted Rights of Plaintiff Exporters*.

The Adjusted Rights of Plaintiffs' extractions from the San Bernardino Basin Area, classified according to service areas and based on the natural safe yield of 232,100 acre-feet per annum have been summarized on the following table for ease of reference. The Adjusted Right of other than Plaintiffs was also based on the natural safe yield of the San Bernardino Basin Area and was determined to be 167,238 acre-feet. Such adjusted rights were not effective until January 1, 1972; therefore, the 1971 base rights for both Plaintiffs and other than Plaintiffs are based on the actual average annual extractions from the San Bernardino Basin Area during the five-year base period 1959-1963.

The Judgment provides for continuing jurisdiction of the Court in the following matters:

- 1) The hydrologic condition of any one or all of the separate basins described in this Judgment in order to determine from time to time the safe yield of the San Bernardino Basin Area, and
- 2) The adjusted rights of the Plaintiffs as required to comply with the provisions hereof with respect to changes in the natural safe yield of the San Bernardino Basin Area. If such changes occur, the Court shall adjudge that the adjusted rights and replenishment obligations of each party shall be changed proportionately to the base rights.

In order to provide a basis for future determination of safe yield, the Watermaster maintains a continuing program of collecting and analyzing current hydrologic data pertinent to the annual water supply to, and utilization of water from, the San Bernardino Basin Area.

Such data will be summarized and reported from time to time in subsequent supplemental reports of the Watermaster.

ADJUSTED RIGHTS FOR EXTRACTIONS BY PLAINTIFFS  
FROM THE SAN BERNARDINO BASIN AREA BASED ON NATURAL  
SAFE YIELD OF 232,100 ACRE-FEET PER ANNUM  
CLASSIFIED ACCORDING TO SERVICE AREA  
(All Values in Acre-Feet)

1

Plaintiffs	Total Extractions in San Bernardino Basin Area	Delivery to San Bernardino Basin Area	Delivery to Citron Basin and Riverside Basin Area in San Bernardino County	Delivery to Areas Outside San Bernardino Valley
City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	52,199 <sup>2</sup>	1,427	1,230	49,542 <sup>2</sup>
Riverside Highland Water Company	4,294	0	2,449	1,845
Agua Mansa Water Company and Meeks & Daley Water Company	7,833	0	318	7,515
Regents of the University of California	536 <sup>2</sup>	0	0	536 <sup>2</sup>
TOTAL	64,862	1,427	3,997	59,438

<sup>1</sup> Effective January 1, 1972.

<sup>2</sup> The Adjusted Rights allocated to the City of Riverside and The Regents of The University of California were established at 52,169 and 566 acre-feet per annum respectively. On the basis of an amended recordation filing for the 1959-63 Base Period, the adjusted right for The Regents of the University of California was reduced to 536 acre-feet, and the City of Riverside adjusted right was increased to 52,199 acre-feet.

**CHAPTER V**

**EXTRACTIONS FROM COLTON BASIN AREA AND  
RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY**

## CHAPTER V

### EXTRACTIONS FROM THE COLTON BASIN AREA AND RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY

#### **For Use Outside San Bernardino Valley Municipal Water District**

The extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use outside San Bernardino Valley during the 1998 calendar year have been verified by the Watermaster as 251 acre-feet and 9,680 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-1998 (Table 4), Volume 3-1998 (Table 4), and Volume 5-1998 entitled *Verified Extractions From Colton Basin Area, Verified Extractions From Riverside Basin Area Within San Bernardino County and Distribution of Extractions From the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Outside the San Bernardino Valley Municipal Water District*, respectively.

#### **For Use Within San Bernardino Valley Municipal Water District**

Provided minimum water surface elevations within the Colton Basin and that portion of Riverside Basin Area within San Bernardino County are maintained by San Bernardino Valley Municipal Water District, extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use within San Bernardino Valley are not limited and therefore verification of such amounts are not specifically required by the Judgment. However, proper allocation of the total extractions from these areas for use on areas outside San Bernardino Valley necessitates the verification of these extractions. The individual work sheets for the 1998 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-1998, 3-1998 and 5-1998.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for calendar years 1971 through 1998 are summarized in Tables 4 and 5 following.

TABLE NO. 4  
 VERIFIED EXTRACTIONS FROM COLTON BASIN AREA  
 BY SAN BERNARDINO AND RIVERSIDE COUNTY  
 ENTITIES FOR USE WITHIN EACH COUNTY  
 (All Values in Acre-Feet)

Extractions for Calendar Years	Total from Basin	Extracted by		Total	Riverside County Entities		Base Right for Use in Riverside County	1
		San Bernardino County Entities			Used in San Bernardino County	Used in Riverside County		
Five-Year Base Period 1959-63 Avg.	11,731	3	8,235	3	3,496	115	3,381	3,381
1971	11,388	2	8,363	2	3,025	248	2,777	3,381
1972	10,414		7,532		2,882	271	2,611	3,381
1973	7,844		6,982		862	247	615	3,381
1974	8,906		7,169		1,737	273	1,464	3,381
1975	11,083		6,821		4,262	389	3,873	3,381
1976	11,558	4	8,605	4	2,953	270	2,683	3,381
1977	8,777		6,061		2,716	447	2,269	3,381
1978	7,663		6,430		1,233	338	895	3,381
1979	7,194		5,224		1,970	288	1,682	3,381
1980	5,681	5	5,610	5	71	0	71	3,381
1981	6,348		6,175		173	0	173	3,381
1982	6,499		5,450		1,049	68	981	3,381
1983	4,735	6	4,603	6	132	37	95	3,381
1984	8,987		7,441		1,546	206	1,340	3,381
1985	10,149		7,142		3,007	763	2,244	3,381
1986	10,035		7,651		2,384	784	1,600	3,381
1987	13,175		11,054		2,121	564	1,557	3,381
1988	13,552		11,453		2,099	392	1,707	3,381
1989	14,103	7	11,799	7	2,304	299	2,005	3,381
1990	17,571	8	15,551	8	2,020	368	1,652	3,381
1991	14,323		12,282		2,041	206	1,835	3,381
1992	16,750		15,068		1,682	227	1,455	3,381
1993	14,977		14,581		396	0	396	3,381
1994	14,588		13,427		1,161	95	1,066	3,381
1995	16,022	9	15,407	9	615	126	489	3,381
1996	15,843		15,188		655	78	577	3,381
1997	13,373	10	12,151	10	1,222	81	1,141	3,381
1998	10,314		10,031		283	32	251	3,381

**1 Extractions for use in Riverside County are limited to the verified extractions for the five-year Base Period 1959-63**

**2 Amount corrected during verification of 1972 extractions.**

**3 Amount corrected during verification of 1972 and 1973 extractions.**

**4 Amount corrected during verification of 1977 extractions.**

**5 Amount corrected during verification of 1981 extractions.**

**6 Amount corrected during verification of 1984 extractions.**

**7 Amount corrected during verification of 1990 and 1992 extractions.**

**8 Amount corrected during verification of 1992 extractions.**

**9 Amount corrected during verification of 1996 extractions.**

**10 Amount corrected during verification of 1998 extractions.**

**Note: See Report of Watermaster, Volume 2, Tables 4 & 5; and Volume 5, Tables 38A & 39.**



TABLE NO. 4  
 VERIFIED EXTRACTIONS FROM COLTON BASIN AREA  
 BY SAN BERNARDINO AND RIVERSIDE COUNTY  
 ENTITIES FOR USE WITHIN EACH COUNTY  
 (All Values in Acre-Feet)

Five-Year Period	Total from Basin	Extracted by San Bernardino County Entities	Extracted by Riverside County Entities			Base Right for Use in Riverside County <sup>1</sup>
			Total	Used in San Bernardino County	Used in Riverside County	
Base Period 1959-63	58,655	41,175	17,480	575	16,905	16,905
1971-75	49,635	36,867	12,768	1,428	11,340	16,905
1972-76	49,805	37,109	12,696	1,450	11,246	16,905
1973-77	48,168	35,638	12,530	1,626	10,904	16,905
1974-78	47,987	35,086	12,901	1,717	11,184	16,905
1975-79	46,275	33,141	13,134	1,732	11,402	16,905
1976-80	40,873	31,930	8,943	1,343	7,600	16,905
1977-81	35,663	29,500	6,163	1,073	5,090	16,905
1978-82	33,385	28,889	4,496	694	3,802	16,905
1979-83	30,457	27,062	3,395	393	3,002	16,905
1980-84	32,250	29,279	2,971	311	2,660	16,905
1981-85	36,718	30,811	5,907	1,074	4,833	16,905
1982-86	40,405	32,287	8,118	1,858	6,260	16,905
1983-87	47,081	37,891	9,190	2,354 <sup>2</sup>	6,836	16,905
1984-88	55,898	44,741	11,157	2,709	8,448	16,905
1985-89	50,979	41,448	9,531	2,802	9,113	16,905
1986-90	68,436	57,508	10,928	2,407	8,521	16,905
1987-91	72,724	62,139	10,585	1,829	8,756	16,905
1988-92	76,299	66,153	10,146	1,492	8,654	16,905
1989-93	77,724	69,281	8,443	1,100	7,343	16,905
1990-94	78,209	70,909	7,300	896	6,404	16,905
1991-95	76,660 <sup>3</sup>	70,765	5,895	654	5,241	16,905
1992-96	78,180	73,671	4,509	526	3,983	16,905
1993-97	74,803	70,754	4,049	380	3,669	16,905
1994-98	70,140	66,204	3,936	412	3,524	16,905

<sup>1</sup> Extractions for use in Riverside County are limited to the verified extractions for the five-year Base Period 1959-63.

<sup>2</sup> Number corrected during verification of 1990 extractions.

<sup>3</sup> Number corrected during verification of 1996 extractions.

TABLE NO. 5  
 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA  
 IN SAN BERNARDINO COUNTY  
 BY SAN BERNARDINO AND RIVERSIDE COUNTY  
 ENTITIES FOR USE WITHIN EACH COUNTY  
 (All Values in Acre-feet)

Extractions for Calendar Years	Total from Basin	Extracted by San Bernardino County Entities	Extracted by Riverside County Entities			Base Right for Use in Riverside County	1
			Total	Used in San Bernardino County	Used in Riverside County		
Five-Year Base Period 1959-63 Avg.	33,729	9,609	24,120	3,035	21,085	21,085	
1971	29,070	8,748	20,322	2,214	18,108	21,085	
1972	28,148	7,963	20,185	1,597	18,588	21,085	
1973	21,809	6,490	15,319	1,333	13,986	21,085	
1974	21,881	6,899	14,982	1,399	13,583	21,085	
1975	22,701	6,513	16,188	1,225	14,963	21,085	
1976	24,705	6,898	17,807	1,666	16,141	21,085	
1977	23,506	7,089	16,417	1,985	14,432	21,085	
1978	17,216	6,261	10,955	1,900	9,055	21,085	
1979	20,024	7,062	12,962	2,370	10,592	21,085	
1980	18,533	5,932 2	12,601 2	3,410	9,191 2	21,085	
1981	23,611	6,811	16,800	3,733	13,067	21,085	
1982	17,349 3	5,409	11,940 3	3,483 3	8,457	21,085	
1983	11,904 3	5,204 3	6,700 3	2,925 3	3,775	21,085	
1984	17,161	5,648	11,513	1,953	9,560	21,085	
1985	19,392 4	6,048 4	13,344	2,143	11,201	21,085	
1986	17,337	7,401 5	9,936 5	1,245	8,691 5	21,085	
1987	15,803 6	7,374 6	8,429	717	7,712	21,085	
1988	16,933 7	7,235 7	9,698 7	773	8,925 7	21,085	
1989	25,557	7,781	17,776	1,619	16,157	21,085	
1990	26,371	7,872	18,499	2,628	15,871	21,085	
1991	28,011	6,472	21,539	2,984	18,555	21,085	
1992	21,959 8	5,652 8	16,307	1,579	14,728	21,085	
1993	21,866	5,428	16,438	1,735	14,703	21,085	
1994	19,661	5,711	13,950	1,746	12,204	21,085	
1995	23,865 9	6,223 9	17,642	1,696	15,946	21,085	
1996	26,698 10	11,986 10	14,712	1,307	13,405	21,085	
1997	30,284 10	17,887 10	12,397	1,352	11,045	21,085	
1998	33,116	22,112	11,004	1,324	9,680	21,085	

1 Extractions for use in Riverside County are limited to the verified extractions for five-year Base Period 1959-63

2 Amounts corrected during verification of 1981 extractions.

3 Amounts corrected during verification of 1984 extractions.

4 Amounts corrected during verification of 1986 extractions.

5 Amounts corrected during verification of 1987 extractions.

6 Amounts corrected during verification of 1988 extractions.

7 Amounts corrected during verification of 1989 extractions.

8 Amounts corrected during verification of 1993 extractions.

9 Amounts corrected during verification of 1996 extractions.

10 Amounts corrected during verification of 1998 extractions.

Note: See Report of Watermaster, Volume 3, Tables 4 & 5; and Volume 5, Table 54.

TABLE NO. 5  
 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA  
 IN SAN BERNARDINO COUNTY  
 BY SAN BERNARDINO AND RIVERSIDE COUNTY  
 ENTITIES FOR USE WITHIN EACH COUNTY  
 (All Values in Acre-Feet)

Five-Year Period	Total from Basin	Extracted by San Bernardino County Entities	Extracted by Riverside County Entities			
			Total	Used in San Bernardino County	Used in Riverside County	Base Right for Use in Riverside County <sup>1</sup>
Base Period 1959-63	168,645	48,045	120,600	15,175	105,425	105,425
1971-75	123,609	36,613	86,996	7,768	79,228	105,425
1972-76	119,244	34,763	84,481	7,220	77,261	105,425
1973-77	114,602	33,889	80,713	7,608	73,105	105,425
1974-78	110,009	33,660	76,349	8,175	68,174	105,425
1975-79	108,152	33,823	74,329	9,146	65,183	105,425
1976-80	103,984	33,242	70,742	11,331	59,411	105,425
1977-81	102,890	33,155	69,735	13,398	56,337	105,425
1978-82	96,733	31,475	65,258	14,896	50,362	105,425
1979-83	91,421	30,418	61,003	15,921	45,082	105,425
1980-84	88,558	29,004	59,554	15,504	44,050	105,425
1981-85	89,417	29,120	60,297	14,237	46,060	105,425
1982-86	83,143	29,710	53,433	11,749	41,684	105,425
1983-87	81,597	31,675	49,922	8,983	40,939	105,425
1984-88	86,626	33,706	52,920	6,831	46,089	105,425
1985-89	95,022	35,839	59,183	6,497	52,686	105,425
1986-90	102,001	37,663	64,338	6,982	57,356	105,425
1987-91	112,675	36,734	75,941	8,721	67,220	105,425
1988-92	118,831	35,012	83,819	9,583	74,236	105,425
1989-93	123,764	33,205	90,559	10,545	80,014	105,425
1990-94	117,868	31,135	86,733	10,672	76,061	105,425
1991-95	115,362	29,486 <sup>2</sup>	85,876	9,740	76,136	105,425
1992-96	114,049	35,000	79,049	8,063	70,986	105,425
1993-97	122,374	47,235	75,139	7,836	67,303	105,425
1994-98	133,624	63,919	69,705	7,425	62,280	105,425

<sup>1</sup> Extractions for use in Riverside County are limited to the verified extractions for the five-year Base Period 1959-63.

<sup>2</sup> Amounts corrected during verification of 1996 extractions.

### Minimum Water Surface Elevations

Extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited, provided that the average static water surface elevation as measured at wells numbered 1S/4W-21Q03S, 1S/4W-29H01S, and 1S/4W-29Q01S is not less than 822.04 feet, as set forth in the Judgment. This elevation is determined each year by averaging the lowest static water level occurring in each of the three wells at or near the same time of the year.

Hydrographs of the 1999 static water surface elevations in the three key wells are shown on Figures 1, 2, and 3 which follow. Data pertinent to the key wells as well as the records of historic water surface measurements are included in Report of Watermaster, Volume 8-1998 entitled *Ground Water Surface Elevations in Wells Numbered 1S14W-21Q03S, 1S14W-29H01S, and 1S14W-29Q01S Located Within the Colton Basin Area and Riverside Basin Area in San Bernardino County through December, 1999.*

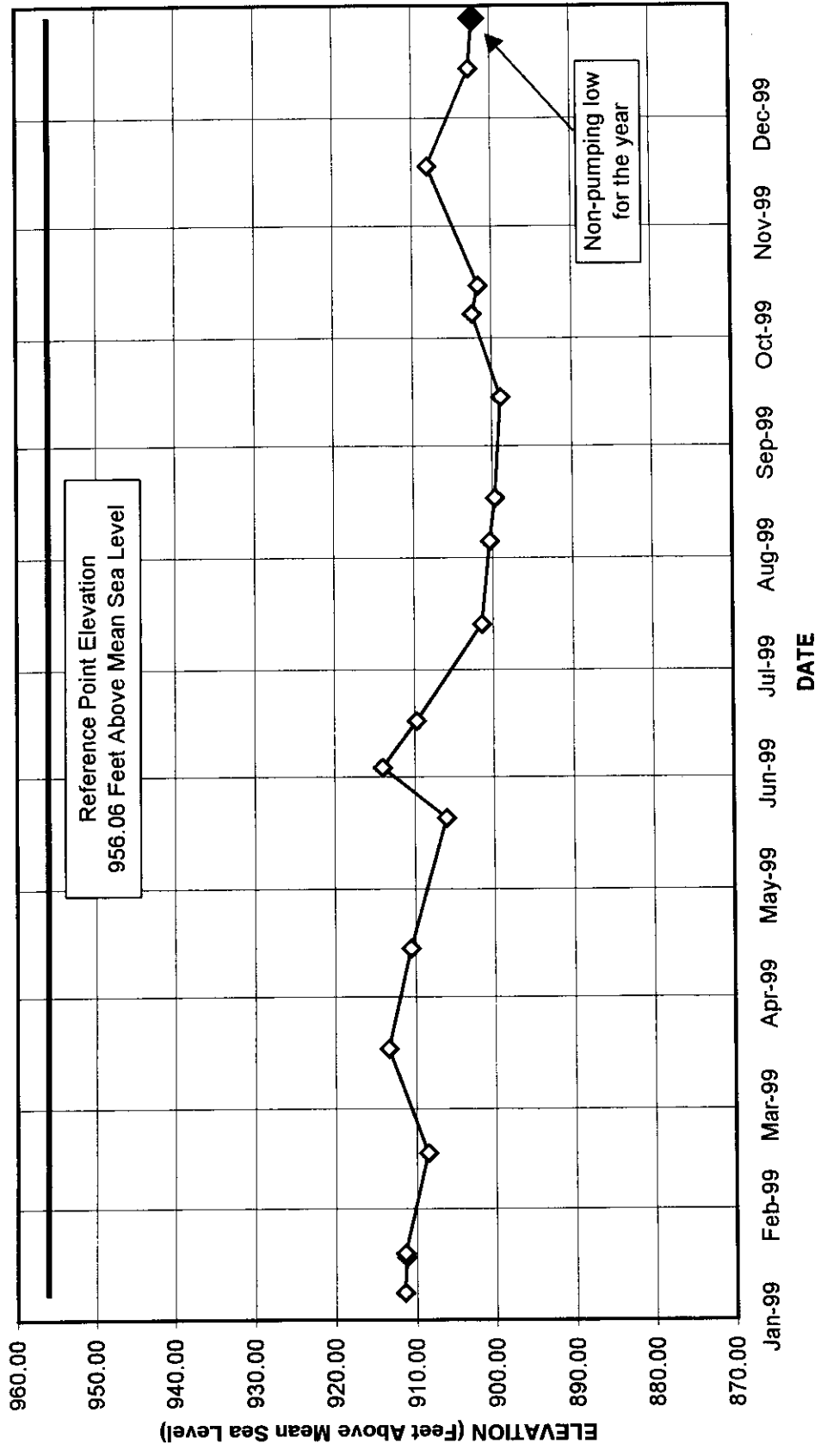
The lowest static water surface elevation measured in each of the three wells during 1999 is as follows:

Well Number	Date of Measurement	Elevation of Water Surface
1S/4W-21Q03S (Johnson #1)	Dec 28, 1999	902.23
1S/4W-29H01S (Flume #2)	Jan 9, 1999	905.58
1S/4W-29Q01S (Flume #5)	Jul 27, 1999	<u>894.73</u>
	Average	900.85

Thus, the lowest average fall water surface elevation for calendar year 1999 is 2.45 feet lower than the 1998 average of 903.85 and 78.81 feet higher than the 1963 average of 822.04. Heavy pumping interference has made this determination difficult.

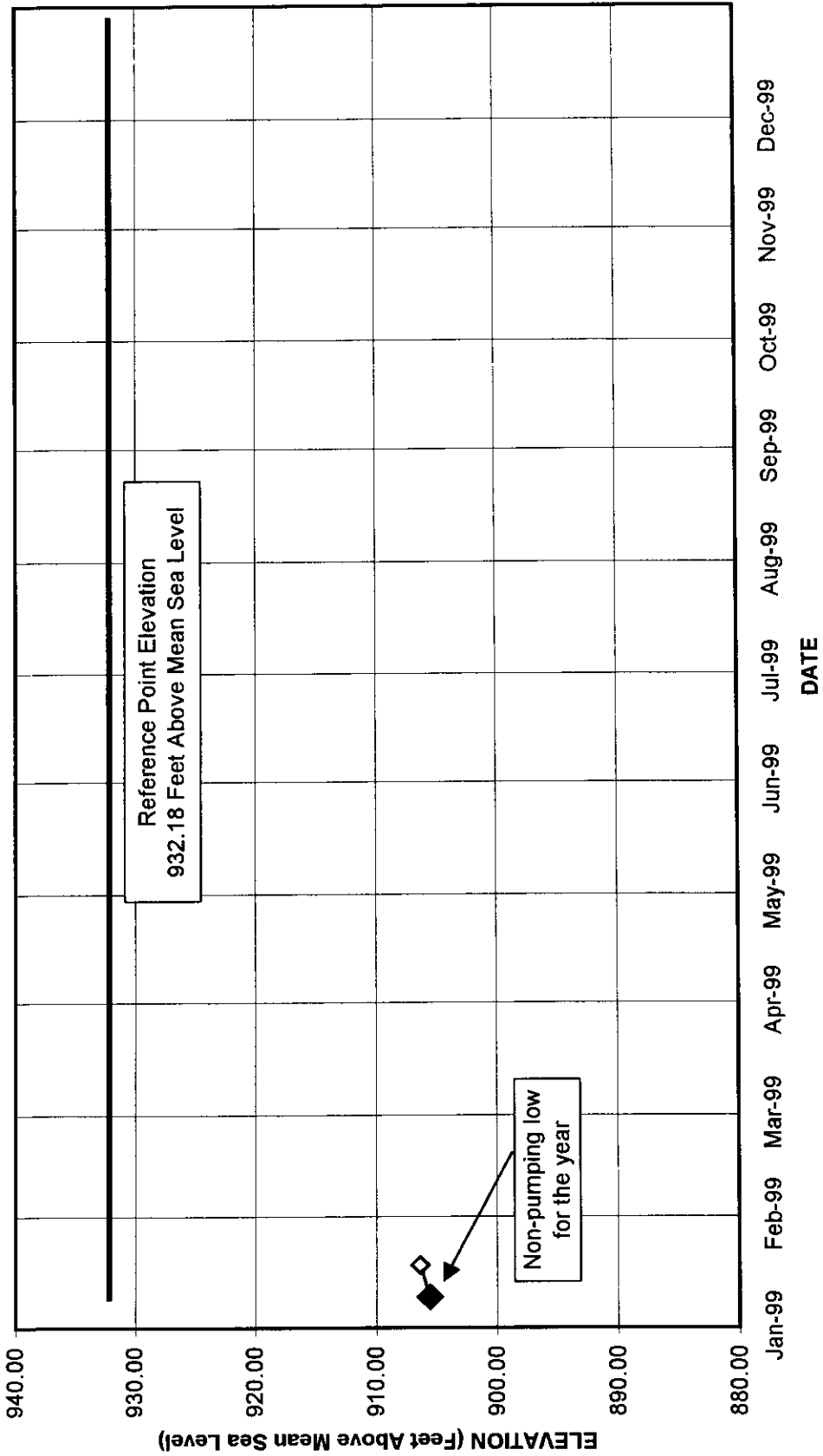
State Well Number: 1S4W21Q03S  
 Recordation Number: 3601480  
 Basin: Colton  
 Owner: City of Riverside

**FIGURE 1**  
**GROUNDWATER SURFACE ELEVATION**  
**JOHNSON NO. 1 WELL**  
**1999**



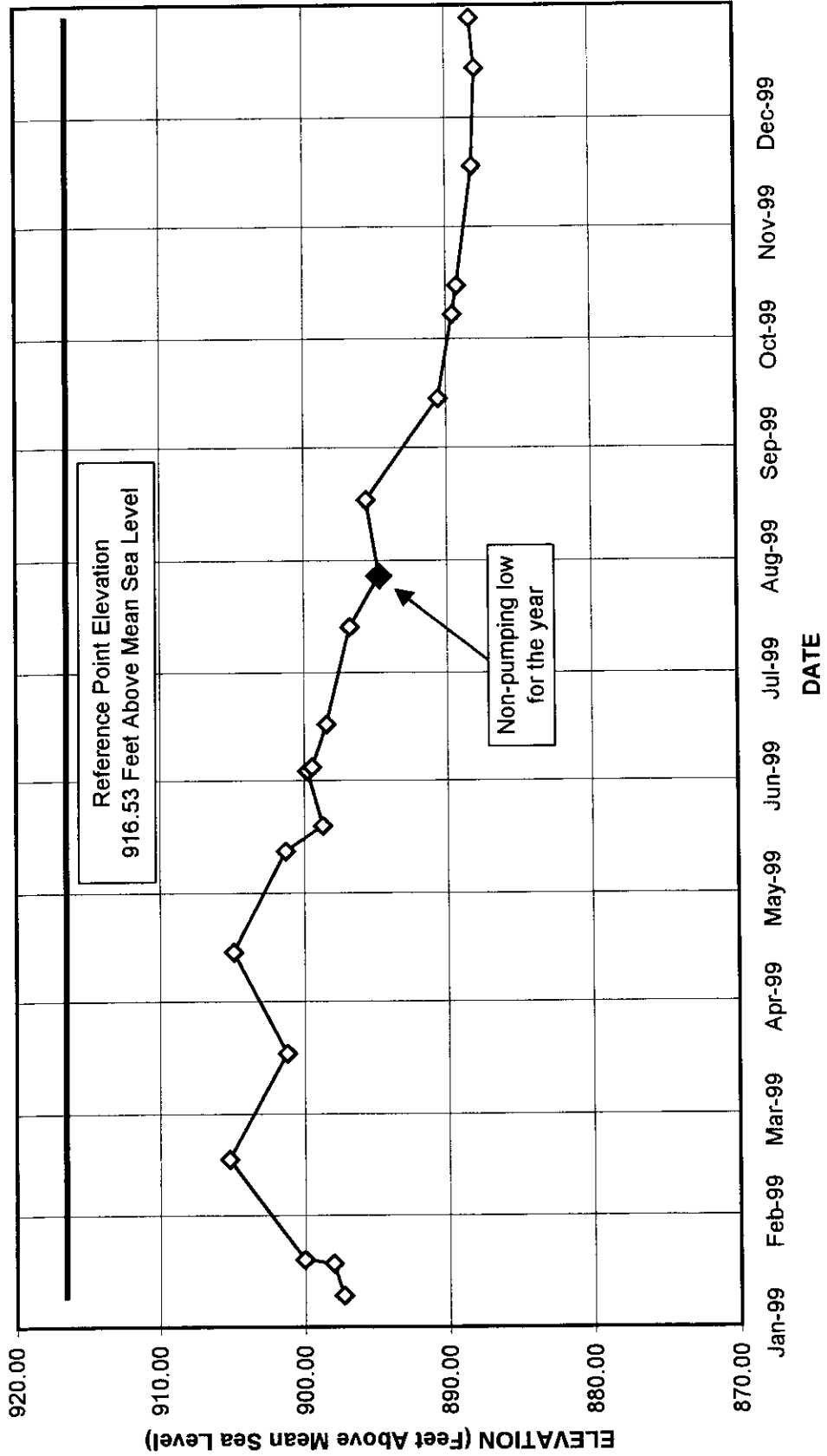
State Well Number: 1S4W29H01S  
Recordation Number: 3601484  
Basin: Riverside North  
Owner: City of Riverside

**FIGURE 2**  
**GROUNDWATER SURFACE ELEVATION**  
**FLUME NO. 2 WELL**  
**1999**



State Well Number: 1S4W29Q01S  
Recordation Number: 3601487  
Basin: Riverside North  
Owner: City of Riverside

**FIGURE 3**  
**GROUNDWATER SURFACE ELEVATION**  
**FLUME NO. 5 WELL**  
**1999**



**CHAPTER VI**

**EXTRACTIONS FROM THE PORTION OF  
RIVERSIDE BASIN AREA IN RIVERSIDE COUNTY  
WHICH IS TRIBUTARY TO THE RIVERSIDE NARROWS**



## CHAPTER VI

### EXTRACTIONS FROM THE PORTION OF RIVERSIDE BASIN AREA IN RIVERSIDE COUNTY WHICH IS TRIBUTARY TO THE RIVERSIDE NARROWS

#### Extractions

The extractions from that portion of the Riverside Basin area in Riverside County which is tributary to the Riverside Narrows for use within Riverside County for calendar year 1998 have been verified by the Watermaster as 28,558 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-1998 entitled *Verified Extractions from Riverside Basin Area Within Riverside County* and are summarized in Table No. 6 following.

TABLE NO. 6  
 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA  
 IN RIVERSIDE COUNTY  
 FOR USE IN RIVERSIDE COUNTY  
 (All Values in Acre-Feet)

Calendar Year	Total Verified Extractions	Base Right for Use in Riverside County
Five-Year Base Period 1959-63 Avg.	29,633	29,633
1971	30,942    1	29,633
1972	37,804    2	29,633
1973	33,094	29,633
1974	38,304    2	29,633
1975	28,285	29,633
1976	31,565	29,633
1977	28,226	29,633
1978	24,878    3	29,633
1979	25,512	29,633
1980	30,206    4	29,633
1981	30,243    4	29,633
1982	20,365    5	29,633
1983	22,991    5	29,633
1984	32,466    6	29,633
1985	23,970    7	29,633
1986	24,549    8	29,633
1987	24,202    9	29,633
1988	24,470    9	29,633
1989	34,417    9	29,633
1990	31,760    9	29,633
1991	29,364   10	29,633
1992	26,538   10	29,633
1993	26,505	29,633
1994	28,125	29,633
1995	22,580	29,633
1996	24,906	29,633
1997	29,128	29,633
1998	28,558	29,633

- 1 Amount corrected during verification of 1972 extractions.*
- 2 These extractions exceeded the Base Right plus peaking allowance of 20% by 2,244 acre-feet in 1972 and 2744 acre-feet in 1974.*
- 3 Amount corrected during verification of 1980 extractions.*
- 4 Amount corrected during verification of 1983 extractions.*
- 5 Amount corrected during verification of 1984 extractions.*
- 6 Amount corrected during verification of 1985 extractions.*
- 7 Amount corrected during verification of 1986 extractions.*
- 8 Amount corrected during verification of 1987 extractions.*
- 9 Amount corrected during verification of 1991 extractions.*
- 10 Amount corrected during verification of 1993 extractions.*

*Note: See Report of Watermaster, Volume 4, Table 4.*

TABLE NO. 6  
 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA  
 IN RIVERSIDE COUNTY  
 FOR USE IN RIVERSIDE COUNTY  
 (All Values in Acre-Feet)

Calendar Year	Total Verified Extractions	Base Right for Use in Riverside County
Five-Year Base Period 1959-63 Avg.	148,165	148,165
1971-75	168,429	148,165
1972-76	169,052	148,165
1973-77	159,474	148,165
1974-78	151,258	148,165
1975-79	138,466	148,165
1976-80	140,387	148,165
1977-81	139,065	148,165
1978-82	131,204	148,165
1979-83	129,317	148,165
1980-84	136,271	148,165
1981-85	130,035	148,165
1982-86	124,341	148,165
1983-87	128,178	148,165
1984-88	129,657	148,165
1985-89	131,608	148,165
1986-90	139,398	148,165
1987-91	144,213	148,165
1988-92	146,549	148,165
1989-93	148,584	148,165
1990-94	142,292	148,165
1991-95	133,112	148,165
1992-96	128,654	148,165
1993-97	131,244	148,165
1994-98	133,297	148,165

### Return Flows

The Judgment provides for additional replenishment by Western if the urbanization of the Riverside Basin results in a diminution of the return flow accruing from the extractions described above and which would have otherwise accrued to the rising water at Riverside Narrows. The extent of such diminution is determined by the permanent reduction in the irrigated areas within the various water service organizations delivering water to the area as compared to the areas served at the time the Judgment was entered. To the extent that such reduction causes an increase in the urban uses requiring sewage disposal through the Riverside Treatment Plant (the effluent which bypasses the Riverside Narrows), Western may, from time to time, be required to provide replenishment. Such irrigated acreages in the Riverside Basin Area in Riverside County at the time the Judgment was entered, from which return flow was tributary to Riverside Narrows, are set forth in Table D-5 of Appendix "D" of the Judgment and are as follows:

IRRIGATED ACREAGE IN RIVERSIDE BASIN AREA  
IN RIVERSIDE COUNTY PRESENTLY TRIBUTARY TO  
RIVERSIDE NARROWS WHICH UPON CONVERSION  
TO URBAN USES REQUIRING SEWAGE DISPOSAL  
THROUGH THE RIVERSIDE TREATMENT PLANT WILL  
BE DISCHARGED TO THE RIVER BELOW  
RIVERSIDE NARROWS

Entity Serving Acreage	Acres
Gage Canal Company	1,752
Alta Mesa Water Company	65
East Riverside Water Company	926
Riverside Highland Water Company	<u>1,173</u>
 TOTAL	 <u>3,916</u>

The service areas of the companies listed in Table D-5 were investigated. Due to minimal development during 1998, the commercial air photo service did not take aerial photos during the year. It was assumed that no new conversions occurred.

The number of dwelling units connected to the City of Riverside wastewater disposal system and a discharge unit factor of 0.22 acre-feet per year per dwelling unit was used to determine the wastewater discharged to the river from the converted lands. These data have been summarized for the years 1994 through 1998 and are shown on Table No. 7.

TABLE NO. 7  
 REDUCTION IN RETURN FLOW CONTRIBUTING TO BASE FLOW  
 AT RIVERSIDE NARROWS  
 RESULTING FROM CONVERSION OF AGRICULTURAL USES  
 OF WATER TO DOMESTIC USES CONNECTED TO A SEWAGE SYSTEM  
 DISCHARGING TO THE RIVER BELOW RIVERSIDE NARROWS  
 (All Values in Acre-Feet)

Calendar Year	Gage Canal	Alta Mesa	East Riverside	Riverside Highland	Total
1994	257	38	284	0	579
1995	257	38	284	0	579
1996	257	38	284	0	579
1997	257	38	284	0	579
1998	257	38	284	0	579
<b>TOTAL</b> 1994-98	1,285	190	1,420	0	2,895

Table No. 7 shows that in 1998 the reduction in return flow contributing to Base Flow at Riverside Narrows resulting from the conversion of land from agricultural use to urban uses in the Riverside Basin Area was 579 acre-feet. Western's obligation associated with the land use conversion and resulting replenishment requirements are shown on summary Tables 16 and 18.

## **CHAPTER VII**

**EXTRACTIONS FROM THE SAN BERNARDINO BASIN  
AREA,  
COLTON BASIN AREA, AND RIVERSIDE BASIN AREA  
FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT  
TRIBUTARY TO THE RIVERSIDE NARROWS**

## CHAPTER VII

### **EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA, COLTON BASIN AREA AND RIVERSIDE BASIN AREA FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY TO THE RIVERSIDE NARROWS**

The extractions from the San Bernardino, Colton and Riverside Basin Areas which were delivered for use within Western on lands not tributary to the Riverside Narrows during calendar year 1998 were verified by the Watermaster to be 36,764 acre-feet. Said amount is summarized by entity on Table No. 8.

The detailed work sheets for this determination are contained in Report of Watermaster, Volume 6-1998, entitled *Verified Extractions from the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Within Western on Lands Not Tributary to the Riverside Narrows*.

TABLE NO. 8  
 VERIFIED EXTRACTATIONS FROM  
 THE SAN BERNARDINO BASIN AREA,  
 THE COLTON BASIN AREA, AND THE RIVERSIDE BASIN AREA  
 FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY  
 TO THE RIVERSIDE NARROWS  
 (All Values in Acre-Feet)

Entities Within WMWD	Annual 1959-63 Average	Calendar Years				
		1994 Verified Delivery	1995 Verified Delivery	1996 Verified Delivery	1997 Verified Delivery	1998 Verified Delivery
City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company	23,836	28,555	29,816	29,770	30,651	36,038
Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water received from City of Riverside	13,229	1,870	1,028	978	1,022	476
Extractions delivered by West Riverside Canal received from Twin Buttes Water Company, La Sierra Water Company, Agua Mansa Water Company, Salazar Water Company, West Riverside 350 Inch Water Company, and Jurupa Water Company	4,903	236	185	0	0	0
Jurupa Community Services District	531	236	266	236	37	0
Rubidoux Community Services District	36	250	250	250	250	250
<b>TOTAL</b>	<b>42,535</b>	<b>31,147</b>	<b>31,545</b>	<b>31,234</b>	<b>31,960</b>	<b>36,764</b>

Note: See Report of Watermaster, Volume 6, Table A.



**CHAPTER VIII**

**VERIFICATION OF EXTRACTIONS FROM THE  
SAN BERNARDINO BASIN AREA AND COLTON BASIN  
AREA  
WITHIN THE SAN BERNARDINO VALLEY MUNICIPAL  
WATER DISTRICT FOR USE ON LANDS NOT WITHIN  
WESTERN  
NOR TRIBUTARY TO THE RIVERSIDE NARROWS**

## **CHAPTER VIII**

### **VERIFICATION OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA AND COLTON BASIN AREA WITHIN THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT FOR USE ON LANDS NOT WITHIN WESTERN NOR TRIBUTARY TO THE RIVERSIDE NARROWS**

#### **Deliveries to Chino Basin**

The extractions from the Colton and San Bernardino Basin Areas which were delivered for use on lands not within Western nor tributary to the Riverside Narrows (Chino Basin) during calendar year 1998 were verified by the Watermaster to be 30,498 acre-feet. Said amount is summarized by entity on Table No. 9.

#### **Deliveries to Areas Other Than Chino Basin**

Paragraph X of the Judgment also provides for replenishment by San Bernardino Valley to the extent exports are made from the San Bernardino Basin Area for use in the Yucaipa, San Timoteo, Oak Glen, and Beaumont Basins.

The results of the verification of the base period production from the San Bernardino Basin Area indicated that such exports were not made during the five calendar years ending with 1963. The verification of production for the 1998 calendar year indicated that during 1998 San Bernardino Valley Municipal Water District diverted 2,326 acre-feet of water from Mill Creek and delivered such water to the Yucaipa Basin as shown on Table No. 9. During 1998, this number includes 1,049 acre-feet pumped by Riverside to OCWD (See Footnote 2 on Table No. 9). During 1998, no water was exported to the San Timoteo, Oak Glen or Beaumont Basins.

TABLE NO. 9  
**VERIFIED EXTRACTATIONS FROM THE  
 SAN BERNARDINO BASIN AREA AND COLTON BASIN AREA  
 WITHIN THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
 FOR USE ON LANDS NOT WITHIN WESTERN  
 NOR TRIBUTARY TO RIVERSIDE NARROWS**  
 (All Values in Acre-Feet)

Entities	Annual 1959-63 Average	Calendar Years				
		1994 Verified Delivery	1995 Verified Delivery	1996 Verified Delivery	1997 Verified Delivery	
Fontana Union Water Company	10,170 <sup>1</sup>	21,878	20,293	19,327	19,715	21,987
West San Bernardino County Water District	1,806	5,830	5,830	7,022	6,615	6,800
City of Rialto	551 <sup>1</sup>	1,530	1,593	1,469	1,365	1,711
Subtotal (Delivery to Chino Basin)	12,527	29,238	27,716	27,818	27,695	30,498
San Bernardino Valley Municipal Water District	0	6,016 <sup>2</sup>	1,413 <sup>2</sup>	3,937 <sup>2</sup>	2,073 <sup>2</sup>	2,326 <sup>2</sup>
Subtotal (Delivery to areas other than Chino Basin)	0	6,016	1,413	3,937	2,073	2,326
<b>TOTAL</b>	<b>12,527 <sup>1</sup></b>	<b>35,254</b>	<b>29,129</b>	<b>31,755</b>	<b>29,768</b>	<b>32,824</b>

<sup>1</sup> Amount corrected during verification of 1973 deliveries.

<sup>2</sup> Water diverted from Mill Creek and delivered to the Yucaipa Regional Park or Wilson Spreading Basins by SBVMWD.

In 1994 includes 3,485 acre-feet pumped by Riverside to OCWD under March 2, 1994 amendment to December 22, 1981 agreements.

In 1995 includes 177 acre-feet pumped by Riverside to OCWD under March 15, 1995 amendment to December 22, 1981 agreements.

In 1996 includes 2,768 acre-feet pumped by Riverside to OCWD under March 6, 1996 amendment to December 22, 1981 agreements.

In 1997 includes 1,873 acre-feet pumped by Riverside to OCWD under February 19, 1997 amendment to December 22, 1981 agreements.

In 1998 includes 1,049 acre-feet pumped by Riverside to OCWD under April 30, 1998 amendment to December 22, 1981 agreements.

Note: See Report of Watermaster, Volume 7, Table B.

## **CHAPTER IX**

### **ANNUAL ACCOUNTING OF EXTRACTIONS, DELIVERIES, AND REPLENISHMENT OBLIGATIONS**

## CHAPTER IX

### ANNUAL ACCOUNTING OF EXTRACTIONS, DELIVERIES, AND REPLENISHMENT OBLIGATIONS

The Judgment requires the annual determination of extractions from the San Bernardino, Colton, and Riverside Basin Areas by Plaintiffs as well as Non-Plaintiffs, and further requires that a determination be made as to that portion of such extractions delivered to each of the service areas tributary to the Riverside Narrows as well as the deliveries to those areas not tributary to the Riverside Narrows. A comparison of the annual extractions and deliveries with the verified five-year Base Period amounts provides the basis for the annual accounting of replenishment obligations, if any, which accrue by reason of production or deliveries in excess of such amounts.

#### **Plaintiffs' Extractions from San Bernardino Basin Area**

The Judgment specifically defines the Adjusted Right of the City of Riverside, Gage Canal Company, Riverside Highland Water Company, Agua Mansa Water Company, Meeks and Daley Water Company and the Regents of University of California to produce water from the San Bernardino Basin Area for use in three specific service areas. These rights, expressed in terms of the five-year total allowable production and the maximum allowable production in any one year, are shown on Tables 10 through 13. Tables 10 through 13 also show the actual extractions for use by the Plaintiffs in the specific service areas.

In accordance with paragraph VI(b)6 of the Judgment, San Bernardino Valley Municipal Water District and Western Municipal Water District have entered into agreements on December 22, 1981, February 25, 1985, and August 21, 1985 which provide for additional extraction and exportation of water from the San Bernardino Basin Area. The 1981 agreement and its amendments provide for the City of Riverside and Riverside Highland to extract and export up to 17,500 acre-feet per year of additional water from the San Bernardino Basin Area. The agreement also sets forth certain payment provisions for such additional extractions and requires certification to the Watermaster that such provisions have been met. The footnotes on Table 10 indicate the amounts of water extracted by the Plaintiff Entities in calendar years 1981, 1983, 1984, 1985, 1986, 1987, 1988, 1991, 1992, 1993, 1994, 1995, 1996, 1997 and 1998.

### **Non-Plaintiffs' Extractions from San Bernardino Basin Area**

The Judgment provides that the Non-Plaintiffs as a group can produce a specific amount of water from the San Bernardino Basin Area without incurring an obligation to replenish the basin with imported water. During the period 1994 through 1998, the Non-Plaintiffs' production did exceed the Adjusted Right. (See Table 17)

A comparison of Adjusted Rights plus additional water made available by agreement to actual production by Plaintiffs and Non-Plaintiffs for the period 1994 through 1998 is as follows:

	(All Values in Acre-Feet)		
	Allowable 1994-1998	Actual Extractions	Difference
Plaintiffs	358,885	337,806	(21,079)
Non-Plaintiffs	926,255	946,075	19,820
TOTAL	1,285,140	1,283,881	(1,259)

### **Exports to Areas Not Tributary to Riverside Narrows**

The Judgment limits the amount of water that can be extracted from the various basins for use on lands that are not tributary to the Riverside Narrows. Western and San Bernardino Valley are responsible for any obligation that may result from new exports to these nontributary lands located in Riverside County and San Bernardino County, respectively.

Tables 14 and 15 indicate the Adjusted Right and actual export for use on lands in Riverside County and San Bernardino County not tributary to the Riverside Narrows. Table 14 shows that during the period 1994 through 1998 the export by entities within Western was 189,664 acre-feet less than the Base Right.

Table 15 shows that exports from San Bernardino Valley for use in San Bernardino County exceeded the Base Right for the period 1971 through 1998 by 312,298 acre-feet. The obligation of San Bernardino Valley resulting from this new export is shown on Table 17.

The 1981 and 1985 agreements regarding extraction of additional water provide that the provisions of the Judgment related to export to areas not tributary to the Riverside Narrows shall not apply to additional water. Therefore, the additional water pumped by the City of Riverside in 1985, 1986, 1987, 1988, 1991, 1992, 1993, 1994, 1995, 1996, 1997, and 1998 has been excluded from amounts of export shown on Table 14. The additional water extracted by Non-Plaintiffs in 1985, 1987, 1988, 1993, 1994, 1995, 1996, 1997, and 1998 has not been excluded from the amount of export shown on

Table 15; however, the 10,681 acre-feet in 1985, the 5,263 acre-feet in 1987, the 14,187 acre-feet in 1988, the 11,137 acre-feet in 1993, the 18,013 acre-feet in 1994, the 14,993 acre-feet in 1995, the 18,013 acre-feet in 1996, and 17,421 acre-feet of the 18,013 acre-feet in 1997, and 18,013 acre-feet in 1998 of additional water extracted by Non-Plaintiffs have been excluded from the computation of new export on Table 17 (See Footnotes 11, 12, 13, 14, and 15).

### **Summary of Western's Credits and Obligations**

Table 16 summarizes Western's credits and obligations in the Colton and Riverside Basin Areas. The actual extractions in these areas during the period 1971 through 1998 were 363,957 acre-feet less than the total Base Right. This under-extraction results in extraction credits for the period 1971 through 1998 as shown on Table 16, pages 1 of 3, 2 of 3, and 3 of 3.

In addition to extraction credits, Western receives credit for return flows resulting from imported water used in areas that are tributary to the Riverside Narrows. Western's accumulated credit resulting from under-extraction and return of imported water is 384,377 acre-feet.

Since actual extractions have not exceeded the Base Right during the period 1971 through 1998, Western has not incurred an excess extraction obligation. As indicated on Table 14 and as discussed in the previous section, Western has not incurred an obligation due to new exports to areas not tributary to the Riverside Narrows. However, land conversion from agricultural uses to urban uses within Western during the period 1994 through 1998 has resulted in an obligation of 2,895 acre-feet (See Table 7). Therefore, Western's total accumulated obligation through 1998 is 46,463 acre-feet.

In summary, Table 16 shows that through 1998 Western's accumulated credits exceeded its accumulated obligation by 337,914 acre-feet.

### **Summary of San Bernardino Valley's Credits and Obligations**

Table 17 summarizes San Bernardino Valley's credit and obligations in the San Bernardino, Colton and Riverside Basins. Paragraph VI of the Judgment entitled *San Bernardino Basin Area Rights and Replenishment* states in part that:

*San Bernardino shall also receive credit against any future replenishment obligations for all replenishment which it provides in excess of that required herein, and for any amounts which may be extracted without replenishment obligation, which in fact are not extracted.*

The Judgment provides that SBVMWD can carry forward to the current five-year period credits accumulated prior thereto. Obligations incurred by SBVMWD have also been carried forward to the current five-year period. Accordingly the accumulated values shown on Tables 15 and 17 include amounts accumulated prior to 1994.

As indicated previously, the actual extractions from the San Bernardino Basin Area were greater than the Adjusted Right during the period 1994 through 1998. The actual extractions for 1998 were greater than the annual Adjusted Right; therefore, the extraction credit for 1998 was 0 as shown on Table 17. San Bernardino Valley receives credit for imported water that is used for replenishment in the San Bernardino Basin Area as previously discussed. Accumulated credits for such replenishment and from the under-extraction through 1998 total 490,155 acre-feet.

The accumulated obligation resulting from excess extractions and new export during the period 1971 through 1998 is 224,049 acre-feet as shown on Table 17.

In summary, Table 17 shows that at the end of the five-year period 1994 through 1998 San Bernardino Valley's accumulated credits exceeded its accumulated obligations by 266,106 acre-feet.

Chapter V indicates that extractions in the Colton Basin Area and Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited provided that San Bernardino Valley maintains a specified minimum static water surface elevation in these Basins. During the five-year period 1994 through 1998 the actual water surface elevation remained higher than the specified minimum; therefore, no additional water is required for maintenance of these Basins.

### **Replenishment Requirements**

Table 18 summarizes the accumulated credits and obligations of both Western and San Bernardino Valley. The credits exceeded the obligations for Western during the five-year period 1994 through 1998.

In summary, Table 18 shows that Western is not required to provide additional replenishment for obligations incurred during the five-year period 1994 through 1998.



TABLE NO. 10  
ANNUAL ACCOUNTING OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY THE CITY OF RIVERSIDE  
(INCLUDING THOSE RIGHTS ACQUIRED AS SUCCESSOR TO THE  
RIVERSIDE WATER COMPANY AND THE GAGE CANAL COMPANY)  
(All Quantities in Acre-Feet)

Calendar Year	Verified Extractions from the San Bernardino Basin Area			Delivery to Riverside Basin Areas in San Bernardino County			Delivery to Cotton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971	53,448	69,482	53,882	1,462	1,901	98	1,260	1,838	689	50,726	65,944	53,115
1972	52,199	67,859	45,684	1,427	1,855	85	1,230	1,599	547	49,542	64,405	45,062
1973	52,199	67,859	43,022	1,427	1,855	156	1,230	1,599	512	49,542	64,405	42,354
1974	52,199	67,859	43,367	1,427	1,855	0	1,230	1,599	550	49,542	64,405	42,817
1975	52,199	67,859	47,962	1,427	1,855	0	1,230	1,599	498	49,542	64,405	47,464
1976	52,199	67,859	51,374	1,427	1,855	0	1,230	1,599	523	49,542	64,405	50,851
1977	52,199	67,859	50,999	1,427	1,855	0	1,230	1,599	346	49,542	64,405	50,653
1978	52,199	67,859	45,384	1,427	1,855	646	1,230	1,599	301	49,542	64,405	44,437
1979	52,199	67,859	52,377	1,427	1,855	0	1,230	1,599	415	49,542	64,405	51,962
1980	52,199	67,859	50,756	1,427	1,855	383	1,230	1,599	0	49,542	64,405	50,373
1981	52,199	67,859	52,157	1,427	1,855	724	1,230	1,599	0	49,542	64,405	51,433
1982	52,199	67,859	49,589	1,427	1,855	162	1,230	1,599	0	49,542	64,405	49,437
1983	52,199	67,859	46,064	1,427	1,855	335	1,230	1,599	0	49,542	64,405	45,729
1984	52,199	67,859	58,906	1,427	1,855	32	1,230	1,599	0	49,542	64,405	58,874
1985	52,199	67,859	63,073	1,427	1,855	59	1,230	1,599	0	49,542	64,405	63,014
1986	52,199	67,859	59,979	1,427	1,855	11	1,230	1,599	0	49,542	64,405	59,542
1987	52,199	67,859	57,841	1,427	1,855	334	1,230	1,599	0	49,542	64,405	57,507
1988	52,199	67,859	64,512	1,427	1,855	815	1,230	1,599	0	49,542	64,405	63,897
1989	52,199	67,859	50,784	1,427	1,855	28	1,230	1,599	0	49,542	64,405	50,756
1990	52,199	67,859	47,637	1,427	1,855	19	1,230	1,599	0	49,542	64,405	47,618
1991	52,199	67,859	52,909	1,427	1,855	155	1,230	1,599	0	49,542	64,405	52,784
1992	52,199	67,859	50,239	1,427	1,855	203	1,230	1,599	0	49,542	64,405	50,036
1993	52,199	67,859	52,114	1,427	1,855	-108	1,230	1,599	0	49,542	64,405	52,222
1994	52,199	67,859	60,447	1,427	1,855	46	1,230	1,599	0	49,542	64,405	60,401
1995	52,199	67,859	55,392	1,427	1,855	99	1,230	1,599	0	49,542	64,405	55,293
1996	52,199	67,859	63,382	1,427	1,855	519	1,230	1,599	0	49,542	64,405	62,863
1997	52,199	67,859	59,938	1,427	1,855	683	1,230	1,599	0	49,542	64,405	59,255
1998	52,199	67,859	54,417	1,427	1,855	182	1,230	1,599	0	49,542	64,405	54,235

See Report of Watermaster, Volume 1A, Table No. 3.  
 1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.  
 2 Maximum Allowable for any one year, not to exceed 100% of Adjusted Right.  
 3 Minimum Allowable for any one year, not to exceed 100% of Adjusted Right.  
 4 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.  
 5 See Footnote 2 of Table on page 20.  
 6 Includes 1,148 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph 10(b) of the Judgment.  
 7 Includes 8,332 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph 10(b) of the Judgment.  
 8 Includes 13,472 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph 10(b) of the Judgment.  
 9 Includes 10,000 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph 10(b) of the Judgment.  
 10 Includes 2,965 acre-feet of additional extraction which are allowable under provisions of the February 25, 1985 Western-San Bernardino agreement prepared in accordance with paragraph 10(b) of the Judgment.  
 11 Includes 14,201 acre-feet of additional extraction which are allowable under provisions of the January 20, 1988 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 12 Includes 3,212 acre-feet of additional extraction which are allowable under provisions of April 3, 1991 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 13 Includes 7,177 acre-feet of additional extraction which are allowable under provisions of April 4, 1992 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 14 Includes 7,152 acre-feet of additional extraction which are allowable under provisions of June 16, 1993 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 15 Includes 9,917 acre-feet of additional extraction which are allowable under provisions of June 16, 1993 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 16 Includes 9,107 acre-feet of additional extraction which are allowable under provisions of March 2, 1994 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 17 Includes 10,859 acre-feet of additional extraction which are allowable under provisions of March 2, 1994 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 18 Includes 5,799 acre-feet of additional extraction which are allowable under provisions of March 15, 1995 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 19 Includes 4,357 acre-feet of additional extraction which are allowable under provisions of March 15, 1995 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 20 Includes 1,380 acre-feet of additional extraction which are allowable under provisions of March 8, 1998 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 21 Includes 49,329 acre-feet of additional extraction which are allowable under provisions of February 18, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 22 Includes 7,465 acre-feet of additional extraction which are allowable under provisions of February 18, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 23 Includes 9,469 acre-feet of additional extraction which are allowable under provisions of February 18, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 24 Includes 6,071 acre-feet of additional extraction which are allowable under provisions of April 30, 1988 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 25 Includes 6,071 acre-feet of additional extraction which are allowable under provisions of April 30, 1988 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 26 Includes 6,071 acre-feet of additional extraction which are allowable under provisions of April 30, 1988 amendment to the December 22, 1981 Western-San Bernardino agreement.  
 Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 10  
ANNUAL ACCOUNTING OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY THE CITY OF RIVERSIDE  
(INCLUDING THOSE RIGHTS ACQUIRED AS SUCCESSOR TO THE  
RIVERSIDE WATER COMPANY AND THE GAGE CANAL COMPANY)  
(All Quantities in Acre-Feet)

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	260,995	262,244	236,724	7,135	7,170	156	6,150	6,180	2,429	247,710	248,984	234,139
1972-76	260,995	260,995	239,086	7,135	7,135	646	6,150	6,150	2,218	247,710	247,710	236,222
1973-77	260,995	260,995	248,096	7,135	7,135	646	6,150	6,150	2,083	247,710	247,710	245,367
1974-78	260,995	260,995	250,890	7,135	7,135	1,029	6,150	6,150	1,585	247,710	247,710	248,276
1975-79	260,995	260,995	250,890	7,135	7,135	1,029	6,150	6,150	1,585	247,710	247,710	248,276
1976-80	260,995	260,995	250,273	7,135	7,135	1,915	6,150	6,150	716	247,710	247,710	247,642
1977-81	260,995	260,995	250,953	7,135	7,135	1,604	6,150	6,150	415	247,710	247,710	248,934
1978-82	260,995	260,995	256,334	7,135	7,135	1,636	6,150	6,150	0	247,710	247,710	254,698
1979-83	260,995	260,995	268,651	7,135	7,135	1,312	6,150	6,150	0	247,710	247,710	267,339
1980-84	260,995	260,995	268,575	7,135	7,135	1,312	6,150	6,150	0	247,710	247,710	267,263
1981-85	260,995	260,995	261,835	7,135	7,135	1,197	6,150	6,150	0	247,710	247,710	260,638
1982-86	260,995	260,995	271,431	7,135	7,135	1,677	6,150	6,150	0	247,710	247,710	269,754
1983-87	260,995	260,995	255,344	7,135	7,135	1,673	6,150	6,150	0	247,710	247,710	253,671
1984-88	260,995	260,995	249,341	7,135	7,135	1,677	6,150	6,150	0	247,710	247,710	247,664
1985-89	260,995	260,995	250,561	7,135	7,135	1,673	6,150	6,150	0	247,710	247,710	248,878
1986-90	260,995	260,995	248,587	7,135	7,135	1,633	6,150	6,150	0	247,710	247,710	246,954
1987-91	260,995	260,995	248,305	7,135	7,135	1,351	6,150	6,150	0	247,710	247,710	246,954
1988-92	260,995	260,995	241,491	7,135	7,135	1,220	6,150	6,150	0	247,710	247,710	240,271
1989-93	260,995	260,995	240,614	7,135	7,135	297	6,150	6,150	0	247,710	247,710	240,317
1990-94	260,995	260,995	241,170	7,135	7,135	315	6,150	6,150	0	247,710	247,710	240,855
1991-95	260,995	260,995	243,174	7,135	7,135	395	6,150	6,150	0	247,710	247,710	242,779
1992-96	260,995	260,995	248,469	7,135	7,135	759	6,150	6,150	0	247,710	247,710	247,710
1993-97	260,995	260,995	253,330	7,135	7,135	1,239	6,150	6,150	0	247,710	247,710	240,904
1994-98	260,995	260,995	256,114	7,135	7,135	1,529	6,150	6,150	0	247,710	247,710	242,917

Excess

Extraction

1994-98

(4,981)

(5,606)

(6,150)

(4,793)

1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.  
 2 Maximum allowable for the five-year period is the same as the five-year period Adjusted Right.  
 3 Actual verified extractions from Table No. 3 of Watermaster Report.  
 4 Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.  
 5 Excludes the 1,148 acre-feet in 1981 of allowable additional extraction. See Footnote 6 on Page 48.  
 6 Excludes the 1,148 acre-feet in 1981 and the 76 acre-feet in 1983 of allowable additional extraction. See Footnotes 6 & 7 on Page 48.  
 7 Excludes the 1,148 acre-feet in 1981, the 76 acre-feet in 1983, the 9,332 acre-feet in 1984, and the 13,472 acre-feet in 1985 of allowable additional extraction. See Footnotes 6, 7, 8, and 9 on Page 48.  
 8 Excludes the 1,148 acre-feet in 1981, the 76 acre-feet in 1983, the 9,332 acre-feet in 1984, and the 10,000 acre-feet in 1986 of allowable additional extraction. See Footnotes 7, 8, 9, and 10 on Page 48.  
 9 Excludes the 76 acre-feet in 1983, the 9,332 acre-feet in 1984, the 13,472 acre-feet in 1985, and the 7,965 acre-feet in 1987 of allowable additional extraction. See Footnotes 7, 8, 9, 10, and 11 on Page 48.  
 10 Excludes the 9,332 acre-feet in 1984, the 13,472 acre-feet in 1985, the 10,000 acre-feet in 1986, and the 7,965 acre-feet in 1987 of allowable additional extraction. See Footnotes 9, 10, 11, and 12 on Page 48.  
 11 Excludes the 13,472 acre-feet in 1985, the 10,000 acre-feet in 1986, the 7,965 acre-feet in 1987, and the 14,201 acre-feet in 1988 of allowable additional extraction. See Footnotes 9, 10, 11, and 12 on Page 48.  
 12 Excludes the 10,000 acre-feet in 1986, the 7,965 acre-feet in 1987, and the 14,201 acre-feet in 1988 of allowable additional extraction. See Footnotes 9, 10, 11, and 12 on Page 48.  
 13 Number corrected during verification of 1980 extractions.  
 14 Excludes the 7,965 acre-feet in 1987, the 14,201 acre-feet in 1988, and the 3,212 acre-feet in 1991 of allowable additional extraction. See Footnotes 11, 12, and 13 on Page 48.  
 15 Excludes the 14,201 acre-feet in 1988, the 3,212 acre-feet in 1991, and the 7,177 acre-feet in 1993 of allowable additional extraction. See Footnotes 12, 13, and 14 on Page 48.  
 16 Excludes the 3,212 acre-feet in 1991, the 7,177 acre-feet in 1992, and the 2,680 acre-feet in 1993 of allowable additional extraction. See Footnotes 13, 14, and 15 on Page 48.  
 17 Excludes the 3,212 acre-feet in 1991, the 7,177 acre-feet in 1992, the 2,680 acre-feet in 1993, and the 5,107 acre-feet in 1994 of allowable additional extraction. See Footnotes 13, 14, 15, 16, and 17 on Page 48.  
 18 Excludes the 3,212 acre-feet in 1991, the 7,177 acre-feet in 1992, the 2,680 acre-feet in 1993, the 9,107 acre-feet in 1994, and the 5,751 acre-feet in 1995 of allowable additional extraction. See Footnotes 13, 14, 15, 16, 17 and 18 on Page 48.  
 19 Excludes the 7,177 acre-feet in 1992, the 2,680 acre-feet in 1993, the 9,107 acre-feet in 1994, the 5,751 acre-feet in 1995, and the 8,390 acre-feet in 1996 of allowable additional extraction. See Footnotes 14, 15, 16, 17 and 18 on Page 48.  
 20a Excludes the 7,152 acre-feet in 1993, the 9,107 acre-feet in 1994, the 5,799 acre-feet in 1995, and the 7,495 acre-feet in 1997 of allowable additional extraction. See Footnotes 15a, 16a, 17a, 18a and 19a on Page 48.  
 20b Excludes the 9,917 acre-feet in 1993, the 10,859 acre-feet in 1994, the 8,357 acre-feet in 1995, the 8,390 acre-feet in 1996, and the 6,671 acre-feet in 1997 of allowable additional extraction. See Footnotes 15b, 16b, 17b, 18b and 19b on Page 48.  
 21a Excludes the 9,107 acre-feet in 1994, the 5,799 acre-feet in 1995, the 8,390 acre-feet in 1996, and the 6,671 acre-feet in 1997 of allowable additional extraction. See Footnotes 16a, 17a, 18a, 19a and 20a on Page 48.  
 21b Excludes the 10,859 acre-feet in 1994, the 8,357 acre-feet in 1995, the 10,528 acre-feet in 1996, the 9,468 acre-feet in 1997, and the 6,671 acre-feet in 1998 of allowable additional extraction. See Footnotes 16b, 17b, 18b and 20b on Page 48.

\* Parentheses indicate that actual extractions are less than Adjusted Right.

TABLE NO. 11  
ANNUAL ACCOUNTING OF EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY RIVERSIDE HIGHLAND WATER COMPANY

(All Quantities in Acre-Feet)

Calendar Year	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971	4,399	5,719	4,012	1	1	0	2,509	3,262	2,388	1,890	2,457	1,624
1972	4,294	5,582	4,532	0	0	0	2,449	3,184	2,239	1,845	2,398	2,293
1973	4,294	5,582	3,512	0	0	0	2,449	3,184	1,751	1,845	2,398	1,761
1974	4,294	5,582	4,088	0	0	0	2,449	3,184	1,985	1,845	2,398	2,103
1975	4,294	5,582	4,709	0	0	0	2,449	3,184	2,002	1,845	2,398	2,707
1976	4,294	5,582	4,519	0	0	0	2,449	3,184	2,050	1,845	2,398	2,469
1977	4,294	5,582	3,583	0	0	0	2,449	3,184	1,820	1,845	2,398	1,763
1978	4,294	5,582	1,350	0	0	0	2,449	3,184	1,051	1,845	2,398	299
1979	4,294	5,582	3,369	0	0	0	2,449	3,184	1,781	1,845	2,398	1,588
1980	4,294	5,582	3,677	0	0	0	2,449	3,184	2,060	1,845	2,398	1,617
1981	4,294	5,582	3,604	0	0	0	2,449	3,184	2,151	1,845	2,398	1,453
1982	4,294	5,582	2,795	0	0	0	2,449	3,184	1,775	1,845	2,398	1,020
1983	4,294	5,582	3,161	0	0	0	2,449	3,184	2,318	1,845	2,398	843
1984	4,294	5,582	4,759	0	0	0	2,449	3,184	2,671	1,845	2,398	2,088
1985	4,294	5,582	3,312	0	0	0	2,449	3,184	1,978	1,845	2,398	1,334
1986	4,294	5,582	4,744	0	0	0	2,449	3,184	2,130	1,845	2,398	2,614
1987	4,294	5,582	3,919	0	0	0	2,449	3,184	2,229	1,845	2,398	1,690
1988	4,294	5,582	4,775	0	0	0	2,449	3,184	2,229	1,845	2,398	2,546
1989	4,294	5,582	4,681	0	0	0	2,449	3,184	1,968	1,845	2,398	2,713
1990	4,294	5,582	4,092	0	0	0	2,449	3,184	2,313	1,845	2,398	1,779
1991	4,294	5,582	3,021	0	0	0	2,449	3,184	1,669	1,845	2,398	1,352
1992	4,294	5,582	4,052	0	0	0	2,449	3,184	2,275	1,845	2,398	1,777
1993	4,294	5,582	3,241	0	0	0	2,449	3,184	1,777	1,845	2,398	1,464
1994	4,294	5,582	4,324	0	0	0	2,449	3,184	2,201	1,845	2,398	2,123
1995	4,294	5,582	3,955	0	0	0	2,449	3,184	2,146	1,845	2,398	1,809
1996	4,294	5,582	5,051	5	0	0	2,449	3,184	2,756	1,845	2,398	2,295
1997	4,294	5,582	4,939	6	0	0	2,449	3,184	2,656	1,845	2,398	2,283
1998	4,294	5,582	3,250	7	0	0	2,449	3,184	1,961	1,845	2,398	1,289

See Report of Watermaster, Volume 1A, Table No. 3.

- 1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.
- 2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.
- 3 Actual verified extractions from Table No. 3 of Watermaster Report.
- 4 Adjusted Right was not effective until January 1, 1972; thus the Base Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment.
- 5 Includes 463 acre-feet of additional extraction which are allowable under provisions of March 6, 1996 amendment to the December 22, 1981 Western-San Bernardino agreement.
- 6 Includes 463 acre-feet of additional extraction which are allowable under provisions of February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement.
- 7 Includes 463 acre-feet of additional extraction which are allowable under provisions of April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreement.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 11  
ANNUAL ACCOUNTING OF EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY RIVERSIDE HIGHLAND WATER COMPANY

(All Quantities in Acre-Feet)

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	21,575	21,575	20,853	1	1	0	12,305	12,305	10,365	9,270	9,270	10,488
1972-76	21,470	21,470	21,360	0	0	0	12,245	12,245	10,027	9,225	9,225	11,333
1973-77	21,470	21,470	20,411	0	0	0	12,245	12,245	9,608	9,225	9,225	10,803
1974-78	21,470	21,470	18,249	0	0	0	12,245	12,245	8,908	9,225	9,225	9,341
1975-79	21,470	21,470	17,530	0	0	0	12,245	12,245	8,704	9,225	9,225	8,826
1976-80	21,470	21,470	16,498	0	0	0	12,245	12,245	8,762	9,225	9,225	7,736
1977-81	21,470	21,470	15,583	0	0	0	12,245	12,245	8,863	9,225	9,225	6,720
1978-82	21,470	21,470	14,795	0	0	0	12,245	12,245	8,818	9,225	9,225	5,977
1979-83	21,470	21,470	16,606	0	0	0	12,245	12,245	10,085	9,225	9,225	6,521
1980-84	21,470	21,470	17,996	0	0	0	12,245	12,245	10,975	9,225	9,225	7,021
1981-85	21,470	21,470	17,631	0	0	0	12,245	12,245	10,893	9,225	9,225	6,738
1982-86	21,470	21,470	18,771	0	0	0	12,245	12,245	10,872	9,225	9,225	7,899
1983-87	21,470	21,470	19,895	0	0	0	12,245	12,245	11,326	9,225	9,225	8,569
1984-88	21,470	21,470	21,509	0	0	0	12,245	12,245	11,237	9,225	9,225	10,272
1985-89	21,470	21,470	21,431	0	0	0	12,245	12,245	10,534	9,225	9,225	10,897
1986-90	21,470	21,470	22,211	0	0	0	12,245	12,245	10,869	9,225	9,225	11,342
1987-91	21,470	21,470	20,488	0	0	0	12,245	12,245	10,408	9,225	9,225	10,080
1988-92	21,470	21,470	20,621	0	0	0	12,245	12,245	10,454	9,225	9,225	10,167
1989-93	21,470	21,470	19,087	0	0	0	12,245	12,245	10,002	9,225	9,225	9,085
1990-94	21,470	21,470	18,730	0	0	0	12,245	12,245	10,235	9,225	9,225	8,495
1991-95	21,470	21,470	18,593	0	0	0	12,245	12,245	10,068	9,225	9,225	8,525
1992-96	21,470	21,470	20,160	5	0	0	12,245	12,245	11,155	9,225	9,225	9,225
1993-97	21,470	21,470	20,584	6	0	0	12,245	12,245	11,536	9,225	9,225	9,048
1994-98	21,470	21,470	20,130	7	0	0	12,245	12,245	11,720	9,225	9,225	8,873
Excess Extraction 1994-98	(1,340)			0	*		(709)			(177)	*	

1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.  
 2 Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.  
 3 Actual verified extractions from Table No. 3 of Watermaster Report.  
 4 Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.  
 5 Excludes the 463 acre-feet in 1996 and the 463 acre-feet in 1997 of allowable additional extraction. See Footnote 5 on Page 50.  
 6 Excludes the 463 acre-feet in 1996, the 463 acre-feet in 1997, and the 463 acre-feet in 1998 of allowable additional extraction. See Footnotes 5, 6, and 7 on Page 50.  
 7 Excludes the 463 acre-feet in 1996, the 463 acre-feet in 1997, and the 463 acre-feet in 1998 of allowable additional extraction. See Footnotes 5, 6, and 7 on Page 50.  
 \* Parentheses indicate that actual extractions are less than Adjusted Right.

TABLE NO. 12  
ANNUAL ACCOUNTING OF EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY  
AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY

(All Quantities in Acre-Feet)

Calendar Year	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971	8,026	10,434	2,902	0	0	0	325	423	383	7,700	10,010	2,519
1972	7,833	10,183	3,527	0	0	0	318	413	377	7,515	9,770	3,150
1973	7,833	10,183	2,979	0	0	0	318	413	250	7,515	9,770	2,729
1974	7,833	10,183	4,504	0	0	0	318	413	246	7,515	9,770	4,258
1975	7,833	10,183	3,950	0	0	0	318	413	168	7,515	9,770	3,782
1976	7,833	10,183	5,393	0	0	0	318	413	182	7,515	9,770	5,211
1977	7,833	10,183	4,220	0	0	0	318	413	146	7,515	9,770	4,074
1978	7,833	10,183	2,254	0	0	0	318	413	161	7,515	9,770	2,093
1979	7,833	10,183	3,930	0	0	0	318	413	166	7,515	9,770	3,764
1980	7,833	10,183	2,333	0	0	0	318	413	323	7,515	9,770	2,010
1981	7,833	10,183	3,092	0	0	0	318	413	358	7,515	9,770	2,734
1982	7,833	10,183	3,716	0	0	0	318	413	169	7,515	9,770	3,547
1983	7,833	10,183	2,651	0	0	0	318	413	245	7,515	9,770	2,406
1984	7,833	10,183	5,165	0	0	0	318	413	233	7,515	9,770	4,932
1985	7,833	10,183	5,385	0	0	0	318	413	210	7,515	9,770	5,175
1986	7,833	10,183	5,570	0	0	0	318	413	234	7,515	9,770	5,336
1987	7,833	10,183	4,914	0	0	0	318	413	193	7,515	9,770	4,721
1988	7,833	10,183	4,966	0	0	0	318	413	233	7,515	9,770	4,733
1989	7,833	10,183	5,392	0	0	0	318	413	240	7,515	9,770	5,152
1990	7,833	10,183	3,851	0	0	0	318	413	83	7,515	9,770	3,768
1991	7,833	10,183	4,426	0	0	0	318	413	190	7,515	9,770	4,236
1992	7,833	10,183	4,100	0	0	0	318	413	118	7,515	9,770	3,982
1993	7,833	10,183	5,013	0	0	0	318	413	276	7,515	9,770	4,737
1994	7,833	10,183	4,525	0	0	0	318	413	227	7,515	9,770	4,298
1995	7,833	10,183	3,560	0	0	0	318	413	145	7,515	9,770	3,415
1996	7,833	10,183	3,912	0	0	0	318	413	194	7,515	9,770	3,718
1997	7,833	10,183	4,165	0	0	0	318	413	137	7,515	9,770	4,028
1998	7,833	10,183	3,828	0	0	0	318	413	210	7,515	9,770	3,618

See Report of Watermaster, Volume 1A, Table No. 3.

1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.

2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

3 Actual verified extractions from Table No. 3 of Watermaster Report.

4 Adjusted Right was not effective until January 1, 1972; thus the Base Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 12

ANNUAL ACCOUNTING OF EXTRactions FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY  
AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY  
(All Quantities in Acre-Feet)

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	39,358	39,358	17,862	0	0	0	1,597	1,597	1,424	37,760	37,760	16,438
1972-76	39,165	39,165	20,353	0	0	0	1,590	1,590	1,223	37,575	37,575	19,130
1973-77	39,165	39,165	21,046	0	0	0	1,590	1,590	992	37,575	37,575	20,054
1974-78	39,165	39,165	20,321	0	0	0	1,590	1,590	903	37,575	37,575	19,418
1975-79	39,165	39,165	19,747	0	0	0	1,590	1,590	823	37,575	37,575	18,924
1976-80	39,165	39,165	18,130	0	0	0	1,590	1,590	978	37,575	37,575	17,152
1977-81	39,165	39,165	15,829	0	0	0	1,590	1,590	1,154	37,575	37,575	14,675
1978-82	39,165	39,165	15,325	0	0	0	1,590	1,590	1,177	37,575	37,575	14,148
1979-83	39,165	39,165	15,722	0	0	0	1,590	1,590	1,261	37,575	37,575	14,461
1980-84	39,165	39,165	16,957	0	0	0	1,590	1,590	1,328	37,575	37,575	15,629
1981-85	39,165	39,165	20,009	0	0	0	1,590	1,590	1,215	37,575	37,575	18,794
1982-86	39,165	39,165	22,487	0	0	0	1,590	1,590	1,091	37,575	37,575	21,396
1983-87	39,165	39,165	23,685	0	0	0	1,590	1,590	1,115	37,575	37,575	22,570
1984-88	39,165	39,165	26,000	0	0	0	1,590	1,590	1,103	37,575	37,575	24,897
1985-89	39,165	39,165	26,227	0	0	0	1,590	1,590	1,110	37,575	37,575	25,117
1986-90	39,165	39,165	24,693	0	0	0	1,908	1,908	983	37,575	37,575	23,710
1987-91	39,165	39,165	23,549	0	0	0	2,226	2,226	939	37,575	37,575	22,610
1988-92	39,165	39,165	22,735	0	0	0	2,226	2,226	864	37,575	37,575	21,871
1989-93	39,165	39,165	22,782	0	0	0	2,226	2,226	907	37,575	37,575	21,875
1990-94	39,165	39,165	21,915	0	0	0	2,226	2,226	894	37,575	37,575	21,021
1991-95	39,165	39,165	21,624	0	0	0	1,908	1,908	956	37,575	37,575	20,668
1992-96	39,165	39,165	21,110	0	0	0	2,226	2,226	960	37,575	37,575	20,150
1993-97	39,165	39,165	21,175	0	0	0	2,226	2,226	979	37,575	37,575	20,196
1994-98	39,165	39,165	19,990	0	0	0	1,908	1,908	913	37,575	37,575	19,077
Excess Extraction												
1994-98		(19,175)		0	0		(677)					(18,498)

1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.  
 2 Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.  
 3 Actual verified extractions from Table No. 3 of Watermaster Report.  
 4 Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.  
 \* Parentheses indicate that actual extractions are less than Adjusted Right.

TABLE NO. 13  
ANNUAL ACCOUNTING OF EXTRactions FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY  
THE REGENTS OF UNIVERSITY OF CALIFORNIA

Calendar Year	Verified Extractions from the San Bernardino Basin Area						Delivery to San Bernardino Basin Area						Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County						Delivery to Areas Outside San Bernardino Valley					
	Adjusted		Maximum		Actual	3	Adjusted		Maximum		Actual	3	Adjusted		Maximum		Actual	3	Adjusted		Maximum		Actual	3
	Right	1	Allowable	2			Right	1	Allowable	2			Right	1	Allowable	2			Right	1	Allowable	2		
1971	581	4	755	697	219	0	4	0	0	0	0	0	0	4	0	0	0	581	4	755	697	219		
1972	536	5	697	697	239	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	239		
1973	536	5	697	697	239	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	239		
1974	536	5	697	697	267	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	267		
1975	536	5	697	697	179	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	179		
1976	536	5	697	697	245	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	245		
1977	536	5	697	697	87	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	87		
1978	536	5	697	697	183	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	183		
1979	536	5	697	697	83	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	83		
1980	536	5	697	697	7	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	7		
1981	536	5	697	697	143	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	143		
1982	536	5	697	697	48	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	48		
1983	536	5	697	697	0	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	0		
1984	536	5	697	697	0	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	0		
1985	536	5	697	697	0	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	0		
1986	536	5	697	697	48	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	48		
1987	536	5	697	697	195	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	195		
1988	536	5	697	697	179	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	179		
1989	536	5	697	697	62	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	62		
1990	536	5	697	697	95	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	95		
1991	536	5	697	697	23	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	23		
1992	536	5	697	697	32	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	32		
1993	536	5	697	697	536	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	536		
1994	536	5	697	697	593	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	593		
1995	536	5	697	697	588	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	588		
1996	536	5	697	697	445	0	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	445		
1997	536	5	697	697	505	6	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	505		
1998	536	5	697	697	590	7	0	0	0	0	0	0	0	0	0	0	0	536	5	697	697	590		

See Report of Watermaster, Volume 1A, Table No. 3.

1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.

2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

3 Actual verified extractions from Table No. 3 of Watermaster Report.

4 Adjusted Right was not effective until January 1, 1972; thus the Base Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment.

5 See Footnote 2 of Table on Page 20.

6 Includes 58 acre-feet of additional extraction which are allowable under provisions of February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement.

7 Includes 58 acre-feet of additional extraction which are allowable under provisions of April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreement.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 13  
ANNUAL ACCOUNTING OF EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA  
AND DELIVERIES TO EACH SERVICE AREA BY  
THE REGENTS OF UNIVERSITY OF CALIFORNIA

(All Quantities in Acre-Feet)

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	2,725	2,725	1,143	0	0	0	0	0	0	2,725	2,725	1,143
1972-76	2,680	2,680	1,169	0	0	0	0	0	0	2,680	2,680	1,169
1973-77	2,680	2,680	1,017	0	0	0	0	0	0	2,680	2,680	1,017
1974-78	2,680	2,680	961	0	0	0	0	0	0	2,680	2,680	961
1975-79	2,680	2,680	777	0	0	0	0	0	0	2,680	2,680	777
1976-80	2,680	2,680	605	0	0	0	0	0	0	2,680	2,680	605
1977-81	2,680	2,680	503	0	0	0	0	0	0	2,680	2,680	503
1978-82	2,680	2,680	464	0	0	0	0	0	0	2,680	2,680	464
1979-83	2,680	2,680	281	0	0	0	0	0	0	2,680	2,680	281
1980-84	2,680	2,680	198	0	0	0	0	0	0	2,680	2,680	198
1981-85	2,680	2,680	191	0	0	0	0	0	0	2,680	2,680	191
1982-86	2,680	2,680	96	0	0	0	0	0	0	2,680	2,680	96
1983-87	2,680	2,680	243	0	0	0	0	0	0	2,680	2,680	243
1984-88	2,680	2,680	422	0	0	0	0	0	0	2,680	2,680	422
1985-89	2,680	2,680	484	0	0	0	0	0	0	2,680	2,680	484
1986-90	2,680	2,680	579	0	0	0	0	0	0	2,680	2,680	579
1987-91	2,680	2,680	554	0	0	0	0	0	0	2,680	2,680	554
1988-92	2,680	2,680	391	0	0	0	0	0	0	2,680	2,680	391
1989-93	2,680	2,680	748	0	0	0	0	0	0	2,680	2,680	748
1990-94	2,680	2,680	1,279	0	0	0	0	0	0	2,680	2,680	1,279
1991-95	2,680	2,680	1,772	0	0	0	0	0	0	2,680	2,680	1,772
1992-96	2,680	2,680	2,194	0	0	0	0	0	0	2,680	2,680	2,194
1993-97	2,680	2,680	2,609	0	0	0	0	0	0	2,680	2,680	2,609
1994-98	2,680	2,680	2,605	0	0	0	0	0	0	2,680	2,680	2,605
Excess Extraction												
1994-98	(75)	*		0	*		0	*				(75)

1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.  
 2 Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.  
 3 Actual verified extractions from Table No. 3 of Watermaster Report.  
 4 Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.  
 5 Excludes the 58 acre-feet in 1997 of allowable additional extraction. See Footnote 6 on Page 54.  
 6 Excludes the 58 acre-feet in 1997 and the 58 acre-feet in 1998 of allowable additional extraction. See Footnotes 6 and 7 on Page 54.  
 \* Parentheses indicate that actual extractions are less than Adjusted Right.



TABLE NO. 14

ANNUAL ACCOUNTING FOR  
 WESTERN MUNICIPAL WATER DISTRICT  
 EXPORT OF EXTRACTIONS FROM SAN BERNARDINO BASIN AREA,  
 COLTON BASIN AREA, AND RIVERSIDE BASIN AREA  
 FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY  
 TO THE RIVERSIDE NARROWS  
 (All Values in Acre-Feet)

		Calendar Years				
		1994	1995	1996	1997	1998
<b>EXPORTS</b>						
Adjusted Right		42,535	42,535	42,535	42,535	42,535
Actual Export	1	31,147	31,545	31,234	31,960	36,764
ACCUMULATED EXPORT	3	869,813	901,358	932,592	964,552	1,001,316
<b>OBLIGATIONS</b>						
New Export	2	(11,388)	(10,990)	(11,301)	(10,575)	(5,771)
ACCUMULATED NEW EXPORT	3	(151,027)	(162,017)	(173,318)	(183,893)	(189,664)

1 See Table 8 of Watermaster Report

2 Actual Export minus Adjusted Right, Parentheses indicate that the Actual Export is less than the Adjusted Right.

3 Accumulated values beginning in 1994 include amounts accumulated through 1993.

TABLE NO. 15

ANNUAL ACCOUNTING FOR  
 SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
 EXPORT OF EXTRACTIONS FROM SAN BERNARDINO BASIN AREA,  
 COLTON BASIN AREA FOR USE ON LANDS  
 NOT WITHIN WESTERN NOR TRIBUTARY  
 TO THE RIVERSIDE NARROWS  
 (All Values in Acre-Feet)

EXPORTS	Calendar Years				
	1994	1995	1996	1997	1998
Adjusted Right	12,527	12,527	12,527	12,527	12,527
Actual Export <sup>1</sup>	35,254	29,129	31,755	29,768	32,824
ACCUMULATED EXPORT	539,578	568,707	600,462	630,230	663,054
<b>OBLIGATIONS</b>					
New Export <sup>2</sup>	22,727 <sup>4</sup>	16,602 <sup>5</sup>	19,228 <sup>6</sup>	17,241 <sup>7</sup>	20,297 <sup>8</sup>
ACCUMULATED NEW EXPORT	238,930	255,532	274,760	292,001	312,298

<sup>1</sup> See Table 9 of Watermaster Report

<sup>2</sup> Actual Export minus Adjusted Right.

<sup>3</sup> Accumulated values beginning in 1994 include amounts accumulated through 1993.

<sup>4</sup> Includes 18,013 acre-feet of additional water extracted under provisions of the March 2, 1994 amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

<sup>5</sup> Includes 14,933 acre-feet of additional water extracted under provisions of the March 15, 1995 amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

<sup>6</sup> Includes 18,013 acre-feet of additional water extracted under provisions of the March 6, 1996 amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

<sup>7</sup> Includes 17,241 acre-feet of additional water extracted under provisions of the February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

<sup>8</sup> Includes 18,013 acre-feet of additional water extracted under provisions of the April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

ANNUAL ACCOUNTING FOR  
WESTERN MUNICIPAL WATER DISTRICT  
EXTRACTIONS FROM COLTON BASIN AREA  
FOR USE OUTSIDE SAN BERNARDINO VALLEY

(All Values in Acre-Feet)

		Calendar Years				
		1994	1995	1996	1997	1998
<b>EXTRACTIONS</b>						
Base Right	1	3,381	3,381	3,381	3,381	3,381
Actual Extractions	1	1,066	489	577	1,141	251
ACCUMULATED EXTRACTIONS	6	37,046	37,535	38,112	39,253	39,504
<b>CREDITS</b>						
Extraction	2	2,315	2,892	2,804	2,240	3,130
Total Credits		2,315	2,892	2,804	2,240	3,130
ACCUMULATED CREDITS	6	44,590	47,482	50,286	52,526	55,656
<b>OBLIGATIONS</b>						
Excess Extractions	3	0	0	0	0	0
Total Obligations		0	0	0	0	0
ACCUMULATED OBLIGATIONS	6	492	492	492	492	492
NET ACCUMULATED (CREDIT) OR OBLIGATION	6	(44,098)	(46,990)	(49,794)	(52,034)	(55,164)

1 See Table 4.

2 Amounts which may be extracted without replenishment obligation, which in fact are not extracted, Equal to Base Right minus Actual Extraction

3 Actual Extraction minus Base Right.

4 Number not used.

5 See Table 7.

6 Accumulated values beginning in 1994 include amounts accumulated through 1993.

ANNUAL ACCOUNTING FOR  
WESTERN MUNICIPAL WATER DISTRICT  
EXTRACTIONS FROM  
RIVERSIDE BASIN AREA  
IN SAN BERNARDINO COUNTY  
FOR USE OUTSIDE SAN BERNARDINO VALLEY  
(All Values in Acre-Feet)

		Calendar Years				
		1994	1995	1996	1997	1998
<b>EXTRACTIONS</b>						
Base Right	1	21,085	21,085	21,085	21,085	21,085
Actual Extractions	1	12,204	15,946	13,405	11,045	9,680
<b>ACCUMULATED</b>						
EXTRACTIONS	6	302,245	318,191	331,596	342,641	352,321
<b>CREDITS</b>						
Extraction	2	8,881	5,139	7,680	10,040	11,405
Total Credits		8,881	5,139	7,680	10,040	11,405
<b>ACCUMULATED</b>						
CREDITS	6	203,795	208,934	216,614	226,654	238,059
<b>OBLIGATIONS</b>						
Excess Extractions	3	0	0	0	0	0
Total Obligations		0	0	0	0	0
<b>ACCUMULATED</b>						
OBLIGATIONS	6	0	0	0	0	0
<b>NET ACCUMULATED (CREDIT)</b>						
OR OBLIGATION	6	(203,795)	(208,934)	(216,614)	(226,654)	(238,059)

1 See Table 5.

2 Amounts which may be extracted without replenishment obligation, which in fact are not extracted, Equal to Base Right minus Actual Extraction

3 Actual Extraction minus Base Right.

4 Number not used.

5 See Table 7.

6 Accumulated values beginning in 1994 include amounts accumulated through 1993.

ANNUAL ACCOUNTING FOR  
WESTERN MUNICIPAL WATER DISTRICT  
EXTRACTIONS FROM  
RIVERSIDE BASIN AREA  
IN RIVERSIDE COUNTY  
FOR USE OUTSIDE SAN BERNARDINO VALLEY  
(All Values in Acre-Feet)

		Calendar Years				
		1994	1995	1996	1997	1998
<b>EXTRACTIONS</b>						
Base Right	1	29,633	29,633	29,633	29,633	29,633
Actual Extractions	1	28,125	22,580	24,906	29,128	28,558
<b>ACCUMULATED</b>						
EXTRACTIONS	6	688,781	711,361	736,267	765,395	793,953
<b>CREDITS</b>						
Extraction	2	1,508	7,053	4,727	505	1,075
Return from imported water		722	792	925	916	980
Return from Additional						
Local Water	7	0	0	0	0	0
Total Credits		2,230	7,845	5,652	1,421	2,055
<b>ACCUMULATED</b>						
CREDITS	6	73,689	81,534	87,186	88,607	90,662
<b>OBLIGATIONS</b>						
Excess Extractions	3	0	0	0	0	0
New Export	4	0	0	0	0	0
Land Use Conversion	5	579	579	579	579	579
Total Obligations		579	579	579	579	579
<b>ACCUMULATED</b>						
OBLIGATIONS	6	43,655	44,234	44,813	45,392	45,971
<b>NET ACCUMULATED (CREDIT)</b>						
OR OBLIGATION	6	(30,034)	(37,300)	(42,373)	(43,215)	(44,691)

1 See Table 6.

2 Amounts which may be extracted without replenishment obligation, which in fact are not extracted, Equal to Base Right minus Actual Extraction

3 Actual Extraction minus Base Right.

4 See Table 14. To account for effect of New Export, 36% of [Total New Export less Total Excess Extractions] if greater than 0.

5 See Table 7.

6 Accumulated values beginning in 1994 include amounts accumulated through 1993.

7 36% of [Actual Extractions (for Colton, Riverside North, and Riverside South Basins) less Actual Export less 11,564]

TABLE NO. 17

ANNUAL ACCOUNTING FOR  
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
EXTRACTIONS FROM SAN BERNARDINO BASIN AREA  
(All Values in Acre-Feet)

		Calendar Years									
		1994		1995		1996		1997		1998	
<b>EXTRACTIONS</b>											
Adjusted Right	1	167,238		167,238		167,238		167,238		167,238	
Actual Extractions	1	169,494	11	167,238	12	171,406	13	170,491	14a	180,461	15a
less New Export		4,714	11	1,669	12	1,215	13	0	14b	2,284	15b
Adjusted Extractions		164,780		165,569		170,191		170,491		178,177	
<b>ACCUMULATED</b>											
EXTRACTIONS	5	3,704,948		3,870,517		4,040,708		4,211,199		4,389,376	
<b>CREDITS</b>											
Extraction	2	2,458		1,669		0		0		0	
Replenishment		3,820	6	0	7	95	8	0	9	177	10
Return from											
Imported Water		1,821		251		1,714		3,475		3,475	
Return from											
Excess Extractions		0		0		1,063		1,171		3,938	
Total Credits		6,278		1,669		95		0		177	
<b>ACCUMULATED</b>											
CREDITS	5	488,214		489,883		489,978		489,978		490,155	
<b>OBLIGATIONS</b>											
Excess Extractions	3	0	11	0	12	2,953	13	3,253	14a	10,939	15a
New Export	4	4,714	11	1,669	12	1,215	13	0	14b	2,284	15b
Total Obligations		4,714		1,669		4,168		3,253		13,223	
<b>ACCUMULATED</b>											
OBLIGATIONS	5	201,736		203,405		207,573		210,826		224,049	
<b>NET ACCUMULATED (CREDIT)</b>											
OR OBLIGATION	5	(286,478)		(286,478)		(282,405)		(279,152)		(266,106)	

- 1 See Table 2.  
2 Amounts which may be extracted without replenishment obligation, which in fact are not extracted, Equal to Adjusted Right minus Adjusted Extractions.  
3 Adjusted Extractions minus Adjusted Right.  
4 See Table 15.  
5 Accumulated values beginning in 1994 include amounts accumulated through 1993. See Appendix B for details.  
6 Total import of State Project Water by SBVMWD was 9,135 acre-feet. However, 5,059 acre-feet of this amount were delivered directly, and 256 acre-feet were delivered into Colton Basin for replenishment.  
7 Total import of State Project Water by SBVMWD was 696 acre-feet. However, 696 acre-feet of this amount were delivered directly, and 0 acre-feet were delivered into Colton Basin for replenishment.  
8 Total import of State Project Water by SBVMWD was 6,064 acre-feet. However, 5,893 acre-feet of this amount were delivered directly, and 76 acre-feet were delivered into Colton Basin for replenishment.  
9 Total import of State Project Water by SBVMWD was 9,654 acre-feet. However, 9,654 acre-feet of this amount were delivered directly, and 0 acre-feet were delivered into Colton Basin for replenishment.  
10 Total import of State Project Water by SBVMWD was 1,878 acre-feet. However, 1,701 acre-feet of this amount were delivered directly, and 0 acre-feet were delivered into Colton Basin for replenishment.  
11 Excludes 18,013 acre-feet of additional water extracted and exported under provisions of the March 2, 1994 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.  
12 Excludes 14,933 acre-feet of additional water extracted and exported under provisions of the March 15, 1995 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.  
13 Excludes 18,013 acre-feet of additional water extracted and exported under provisions of the March 6, 1996 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.  
14a Excludes 18,013 acre-feet of additional water extracted under provisions of the February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.  
14b Excludes 17,241 acre-feet of additional water exported under provisions of the February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.  
15a Excludes 18,013 acre-feet of additional water extracted under provisions of the April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.  
15b Excludes 18,013 acre-feet of additional water exported under provisions of the April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

TABLE NO. 18

SUMMARY OF REPLENISHMENT OBLIGATIONS  
WESTERN AND SAN BERNARDINO VALLEY  
ACCUMULATED FROM 1971

(All Values in Acre-Feet)

**WESTERN MUNICIPAL WATER DISTRICT**

		San Bernardino Basin Area	Colton Basin Area	Riverside Basin Area In San Bernardino County	Riverside Basin Area In Riverside County
Accumulated Credits	1	(see Tables 10-13)	55,656	238,059	90,662
Accumulated Obligations	1	--	492	0	45,971
Net Accumulated (Credit) or Obligation		--	(55,164)	(238,059)	(44,691)
REPLENISHMENT REQUIRED		--	0	0	0

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT**

		San Bernardino Basin Area	Colton Basin Area	Riverside Basin Area In San Bernardino County
Accumulated Credits	2	490,155	37,380	0
Accumulated Obligations	2	224,049	0	0
Net Accumulated (Credit) or Obligation	2	(266,106)	(37,380)	0
REPLENISHMENT REQUIRED		0	0	0

1 Reference Table 16 for Colton and Riverside Basins.

2 Reference Table 17.