

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 2002

August 1, 2003

**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

**DONALD L. HARRIGER, Member**

450 Alessandro Boulevard  
Post Office Box 5286  
Riverside CA 92517-5286  
Tel 909/789-5000 Fax 909/780-3837

**ROBERT L. REITER, Member**

1350 South "E" Street  
Post Office Box 5906  
San Bernardino CA 92412-5906  
Tel 909/387-9200 Fax 909/387-9247

August 1, 2003

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

RE: Watermaster Report for Calendar Year 2002

  
SUPERIOR COURT OF CALIFORNIA  
COUNTY OF RIVERSIDE

JUL 31 2003

**W. Curry**

Gentlemen:

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 2002.

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, 2003, and presents the findings of the Watermaster for Calendar Year 2002 and summarizes the five-year period 1997 through 2001.

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 1997 through 2001 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 2002 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  
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 2002

August 1, 2003

TABLE OF CONTENTS

	Page
Letter of Transmittal	
<b>CHAPTER I - INTRODUCTION</b>	
Scope of Report .....	2
History of Litigation .....	2
Summary of Judgment No. 78426 .....	4
<b>CHAPTER II - WATERMASTER ACTIVITIES</b>	
Groundwater Extractions .....	7
Distribution of Extractions .....	8
Ground Water Level Measurements .....	9
Stream Flow and Water Quality Measurements .....	9
Field Inspections .....	10
<b>CHAPTER III - EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA</b>	
	12
<b>CHAPTER IV - NATURAL SAFE YIELD OF THE SAN BERNARDINO BASIN AREA AND ADJUSTED RIGHTS OF PLAINTIFF EXPORTERS</b>	
	25
<b>CHAPTER V - EXTRACTIONS FROM COLTON BASIN AREA AND RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY</b>	
For Use Outside San Bernardino Valley Municipal Water District .....	27
For Use Within San Bernardino Valley Municipal Water District .....	27
Minimum Water Surface Elevations .....	32
<b>CHAPTER VI - EXTRACTIONS FROM THE PORTION OF RIVERSIDE BASIN AREA IN RIVERSIDE COUNTY WHICH IS TRIBUTARY TO THE RIVERSIDE NARROWS</b>	
Extractions .....	36
Return Flows .....	39

**TABLE OF CONTENTS**  
(continued)

	Page
<b>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 .....</b>	<b>41</b>
<b>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</b>	
Deliveries to Chino Basin .....	43
Deliveries to Areas Other Than Chino Basin .....	43
<b>CHAPTER IX - ANNUAL ACCOUNTING OF EXTRACTIONS, DELIVERIES, AND REPLENISHMENT OBLIGATIONS</b>	
Plaintiffs' Extractions from San Bernardino Basin .....	45
Non-Plaintiffs' Extractions from San Bernardino Basin Area .....	46
Exports to Areas Not Tributary to Riverside Narrows .....	46
Summary of Western's Credits and Obligations .....	47
Summary of San Bernardino Valley's Credits and Obligations .....	47
Replenishment Requirements .....	48

## LIST OF TABLES

No.	Title	Page
1	Costs to the Parties for USGS Surface Water Measurements Used by Western - San Bernardino Watermaster – November 1, 2001 to October 31, 2002 .....	11
2	Verified Extractions from the San Bernardino Basin Area by Other Than Plaintiffs .....	16-17
3	Verified Extractions from the San Bernardino Basin Area for Use by Plaintiffs Classified According to Service Area .....	18-24
4	Verified Extractions from Colton Basin Area by San Bernardino and Riverside County Entities for Use Within Each County.....	28-29
5	Verified Extractions from Riverside Basin Area in San Bernardino County by San Bernardino and Riverside County Entities For Use Within Each County .....	30-31
6	Verified Extractions from the Riverside Basin Area in Riverside County for Use in Riverside County .....	37-38
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 .....	40
8	Verified Extractions from the San Bernardino Basin Area, Colton Basin Area, and the Riverside Basin Area For Use Within Western on Lands That Are Not Tributary To The Riverside Narrows.....	42
9	Verified 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.....	44
10	Annual Accounting of Extractions From the San Bernardino Basin Area and the 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) .....	49-52
11	Annual Accounting of Extractions From the San Bernardino Basin Area and the Deliveries to Each Service Area by Riverside Highland Water Company .....	53-54

LIST OF TABLES  
(Continued)

No.	Title	Page
12	Annual Accounting of Extractions From the San Bernardino Basin Area and the Deliveries to Each Service Area by Agua Mansa Water Company and Meeks & Daley Water Company.....	55-56
13	Annual Accounting of Extractions From the San Bernardino Basin Area and the Deliveries to Each Service Area by the Regents of the University of California.....	57-58
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 .....	59
15	Annual Accounting for San Bernardino Valley Municipal Water District Export of Extractions from San Bernardino Basin Area and Colton Basin Area for Use on Lands Not Within Western nor Tributary to the Riverside Narrows.....	60
16	Annual Accounting for Western Municipal Water District Extractions From Colton Basin Area and Riverside Basin Area in Riverside and San Bernardino Counties for Use Outside San Bernardino Valley .....	61-63
17	Annual Accounting for San Bernardino Valley Municipal Water District Extractions From the San Bernardino Basin Area .....	64
18	Summary of Replenishment Obligations, Western and San Bernardino Valley, Five-Year Period 1997 through 2001.....	65

## FIGURES

No.	Title	Page
1	Groundwater Surface Elevation Johnson No. 1 Well (IS/4W-2IQ3) - 2002 .....	33
2	Groundwater Surface Elevation Flume No. 2 Well (IS/4W-29HI) - 2002 .....	34
3	Groundwater Surface Elevation Flume No. 5 Well (IS/4W-29QI) - 2002 .....	35



**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 2002 includes a description and summary of the work completed during 2002 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 2001. The scope of this report for 2002 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 2002 together with the annual accounting of extractions and deliveries for calendar year 2001.

## **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:

Watermaster Determination Required by Judgment	Verified for Five Calendar Years Ending with 1963	To Be Determined Annually from and after 1971
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 2001 and are summarized herein. Listings of the verified extractions by each individual owner for calendar year 2001 are assembled in Report of Watermaster, Volumes 1-2001, 1A-2001, 2-2001, 3-2001, and 4-2001.

## **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 2001 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-2001.

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 2001 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 6-2001.

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 2001 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-2001.

### **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 2001 in Volume 8 of previous Watermaster reports. The determination for calendar year 2002 is shown in the Report of Watermaster, Volume 8-2001.

### **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 2001 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**

November 1, 2001 to October 31, 2002

	Parties Share	USGS Share
<u>Mill Creek near Mentone</u>	\$ 10,350	\$ 0
<u>Santa Ana River near Mentone</u>	17,700	8,050
<u>Plunge Creek near East Highland</u>	17,700	17,700
<u>Devil Canyon Creek near San Bernardino</u>	16,100	0
<u>East Twin Creek near Arrowhead Springs</u>	8,050	8,050
<u>City Creek near Highland</u>	10,400	10,400
<u>Warm Creek near San Bernardino</u>	8,050	8,050
<u>San Timoteo Creek near Loma Linda</u>	8,050	8,050
<u>Lone Pine Creek near Keenbrook</u>	16,100	0
<u>Cajon Creek below Lone Pine Creek near Keenbrook</u>	8,050	8,050
<u>Lytle Creek at Fontana Union Head Gates</u>		
Lytle Creek near Fontana Streamflow	11,275	11,275
Meter — Infiltration Line	1,900	1,900
Weir No. 2 and No. 3 — Head Gate Diversion	9,650	0
20-ft. Weir — Return to Creek	9,650	0
<u>Southern California Edison Lower Power House on Lytle Creek</u>		
20-ft. Weir--Discharge Lower Power House	9,650	0
Parshall Flume--Return to Creek from Afterbay	9,650	0
Fontana Diversion (20-ft. Weir, West)	9,650	0
<u>Lytle Creek at Colton</u>	<u>8,050</u>	<u>8,050</u>
SUBTOTAL FOR PARTIES AND WATERMASTER	\$190,025	
United States Geological Survey		<u>\$89,575</u>
TOTAL		\$279,600

**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 2001, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 2001 verifications are included in Report of Watermaster, Volume 1-2001.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the 1959-63 Base Period and calendar years 1971 through 2001 are shown on Table No. 3. The individual work sheets for the 2001 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-2001 and Volume 5-2001.

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
1999	0	0	0	48,040
2000	0	0	0	47,230
2001	0	0	0	47,250

**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 With SWRCB	By Owners Who Have Not Filed With SWRCB		
1971	154,836 <b>2</b>	8,350 <b>2</b>	163,186 <b>2</b>	171,342 <b>1</b>
1972	159,628 <b>2</b>	7,599 <b>2</b>	167,227 <b>2</b>	167,238
1973	152,604 <b>3</b>	7,177 <b>3</b>	159,781 <b>3</b>	167,238
1974	153,099 <b>4</b>	5,586 <b>4</b>	158,685 <b>4</b>	167,238
1975	147,199	4,482	151,681	167,238
1976	140,329 <b>5</b>	3,988 <b>5</b>	144,317 <b>5</b>	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 <b>6</b>	5,504	159,422 <b>6</b>	167,238
1981	167,564	5,075	172,639	167,238
1982	148,250 <b>7</b>	4,790	153,040 <b>7</b>	167,238
1983	142,088 <b>8</b>	4,346	146,434 <b>8</b>	167,238
1984	175,605 <b>8</b>	5,203	180,808 <b>8</b>	167,238
1985	172,976 <b>8</b>	4,943 <b>8</b>	177,919 <b>8</b>	167,238
1986	179,842 <b>9</b>	4,892	184,734 <b>9</b>	167,238
1987	168,171	4,330	172,501	167,238
1988	176,770 <b>10</b>	4,655	181,425 <b>10</b>	167,238
1989	168,626 <b>11</b>	4,904	173,530 <b>11</b>	167,238
1990	162,712	4,560	167,272	167,238
1991	162,005	4,342	166,347	167,238
1992	168,700 <b>11</b>	4,213	172,913 <b>11</b>	167,238
1993	174,363 <b>12</b>	4,012	178,375 <b>12</b>	167,238
1994	183,370 <b>13</b>	4,137	187,507 <b>13</b>	167,238
1995	178,046 <b>14</b>	4,125	182,171 <b>14</b>	167,238
1996	185,835 <b>15</b>	3,584	189,419 <b>15</b>	167,238
1997	186,405 <b>16</b>	2,099	188,504 <b>16</b>	167,238
1998	196,897 <b>17</b>	1,960	198,857 <b>17</b>	167,238
1999	193,042 <b>18</b>	2,190	195,232 <b>18</b>	167,238
2000	187,694 <b>19</b>	1,945	189,639 <b>19</b>	167,238
2001	173,087 <b>20</b>	1,678	174,765 <b>20</b>	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.*

*Amount corrected during verification of 1999 extractions.*

*18 Includes 3,726 acre-feet pumped to OCWD under January 6, 1999, 12th Amendment to December 22, 1981 agreements.*

*19 Includes 3,162 acre-feet pumped to OCWD under August 16, 2000, 14th Amendment to December 22, 1981 agreements.*

*20 Includes 415 acre-feet pumped to OCWD under February 7, 2001, 16th 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	930,553	15,905	946,458	836,190
1995-99	940,225	13,958	954,183	836,190
1996-00	949,873	11,778	961,651	836,190
1997-01	937,125	9,872	946,997	836,190
1998-02				
1999-03				
2000-04				

\* number corrected

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

			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	
18	Total Extractions	Adjusted Right	1	52,199	4,294	7,833	536	64,862
	in San Bernardino	1971 Extractions		53,882	4,012	2,902	219	61,015
	Basin Area	1972 Extractions		45,694	4,532	3,527	239	53,992
		1973 Extractions		43,022	3,512	2,979	239	49,752
		1974 Extractions		43,367	4,088	4,504	267	52,226
		1975 Extractions		47,962	4,709	3,950	179	56,800
	Delivery to	Adjusted Right	1	1,427	0	0	0	1,427
	San Bernardino	1971 Extractions		98	0	0	0	98
	Basin Area	1972 Extractions	2	85	0	0	0	85
		1973 Extractions		156	0	0	0	156
		1974 Extractions		0	0	0	0	0
		1975 Extractions		0	0	0	0	0
	Delivery to Colton	Adjusted Right	1	1,230	2,449	318	0	3,997
	Basin Area and	1971 Extractions		669	2,388	383	0	3,440
	Riverside Basin Area	1972 Extractions		547	2,239	377	0	3,163
	in San Bernardino	1973 Extractions		512	1,751	250	0	2,513
	County	1974 Extractions		550	1,985	246	0	2,781
		1975 Extractions		498	2,002	168	0	2,668
Delivery to Area	Adjusted Right	1	49,542	1,845	7,515	536	59,438	
Outside	1971 Extractions		53,115	1,624	2,519	219	57,477	
San Bernardino Valley	1972 Extractions	2	45,062	2,293	3,150	239	50,744	
	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, Table 3; and Volume 5, Table 36A.**

**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

			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
Total Extractions in San Bernardino Basin Area	Adjusted Right	<b>1</b>	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	<b>1</b>	1,427	0	0	0
	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	<b>1</b>	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	<b>1</b>	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, Table 3; and Volume 5, Table 36A.**

**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

			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
Total Extractions in San Bernardino Basin Area	Adjusted Right	<b>1</b>	52,199	4,294	7,833	536	64,862
	1981 Extractions		52,157	3,604	3,092	143	58,996
	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
Delivery to San Bernardino Basin Area	Adjusted Right	<b>1</b>	1,427	0	0	0	1,427
	1981 Extractions		724	0	0	0	724
	1982 Extractions		162 <b>2</b>	0	0	0	162 <b>2</b>
	1983 Extractions		335	0	0	0	335
	1984 Extractions		32	0	0	0	32
	1985 Extractions		59	0	0	0	59
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Right	<b>1</b>	1,230	2,449	318	0	3,997
	1981 Extractions		0	2,151	358	0	2,509
	1982 Extractions		0	1,775	169	0	1,944
	1983 Extractions		0	2,318	245	0	2,563
	1984 Extractions		0	2,671	233	0	2,904
	1985 Extractions		0	1,978	210	0	2,188
Delivery to Area Outside San Bernardino Valley	Adjusted Right	<b>1</b>	49,542	1,845	7,515	536	59,438
	1981 Extractions		51,433	1,453	2,734	143	55,763
	1982 Extractions		49,437 <b>2</b>	1,020	3,547	48	54,052 <b>2</b>
	1983 Extractions		45,729	843	2,406	0	48,978
	1984 Extractions		58,874	2,088	4,932	0	65,894
	1985 Extractions		63,014	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, Table 3; and Volume 5, Table 36A.**

**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

			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
Total Extractions	Adjusted Right	<b>1</b>	52,199	4,294	7,833	536	64,862
in San Bernardino	1986 Extractions		59,979	4,744	5,570	48	70,341
Basin Area	1987 Extractions		57,841	3,919	4,914	195	66,869
	1988 Extractions		64,512	4,775	4,966	179	74,432
	1989 Extractions		50,784	4,681	5,392	62	60,919
	1990 Extractions		47,637	4,092	3,851	95	55,675
Delivery to	Adjusted Right	<b>1</b>	1,427	0	0	0	1,427
San Bernardino	1986 Extractions		437	0	0	0	437
Basin Area	1987 Extractions		334	0	0	0	334
	1988 Extractions		815	0	0	0	815
	1989 Extractions		28	0	0	0	28
	1990 Extractions		19	0	0	0	19
Delivery to Colton	Adjusted Right	<b>1</b>	1,230	2,449	318	0	3,997
Basin Area and	1986 Extractions		0	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
Delivery to Area	Adjusted Right	<b>1</b>	49,542	1,845	7,515	536	59,438
Outside	1986 Extractions		59,542	2,614	5,336	48	67,540
San Bernardino Valley	1987 Extractions		57,507	1,690	4,721	195	64,113
	1988 Extractions		63,697	2,546	4,733	179	71,155
	1989 Extractions		50,756	2,713	5,152	62	58,683
	1990 Extractions		47,618	1,779	3,768	95	53,260

**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 EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA  
 FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA  
 (All Values in Acre-Feet)

Plaintiffs

22

			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
Total Extractions in San Bernardino Basin Area	Adjusted Right	<b>1</b>	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
Delivery to San Bernardino Basin Area	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
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	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
Delivery to Area Outside San Bernardino Valley	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 EXTRACTIONS 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	2	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
Total Extractions in San Bernardino Basin Area	Adjusted Right	1	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		61,142	4,972		6,289	586	72,989
	2000 Extractions		63,472	3,423		3,832	624	71,351
Delivery to San Bernardino Basin Area	Adjusted Right	1	1,427	0		0	0	1,427
	1996 Extractions		278	0		0	0	278
	1997 Extractions		494	0		0	0	494
	1998 Extractions		0	0		0	0	0
	1999 Extractions		181	0		0	0	181
	2000 Extractions		117	0		0	0	117
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Right	1	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		0	2,082		90	0	2,172
	2000 Extractions		0	2,811		352	0	3,163
Delivery to Area Outside San Bernardino Valley	Adjusted Right	1	49,542	1,845		7,515	536	59,438
	1996 Extractions		63,104	2,295		3,718	445	69,562
	1997 Extractions		59,444	2,283		4,028	505	66,260
	1998 Extractions		54,417	1,289		3,618	590	59,914
	1999 Extractions		60,961	2,890		6,199	586	70,636
	2000 Extractions		63,355	612		3,480	624	68,071

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 Includes HGMP for Riverside Highland in years 1999, 2000 and 2001 which is included as delivery outside Valley (actual extraction Volume 1A, Table 2 : 0 : Table 23R Column 6: [1-3])

Note: See Report of Watermaster, Volume 1A, Table 3; and Volume 5, Table 36A.

**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

24

			City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	2	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
Total Extractions in San Bernardino Basin Area	Adjusted Right	1	52,199	4,294		7,833	536	64,862
	2001 Extractions		59,312	2,925		3,671	617	66,525
	2002 Extractions		0	0		0	0	0
	2003 Extractions		0	0		0	0	0
	2004 Extractions		0	0		0	0	0
	2005 Extractions		0	0		0	0	0
Delivery to San Bernardino Basin Area	Adjusted Right	1	1,427	0		0	0	1,427
	2001 Extractions		229	0		0	0	229
	2002 Extractions		0	0		0	0	0
	2003 Extractions		0	0		0	0	0
	2004 Extractions		0	0		0	0	0
	2005 Extractions		0	0		0	0	0
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Right	1	1,230	2,449		318	0	3,997
	2001 Extractions		0	2,548		192	0	2,740
	2002 Extractions		0	0		0	0	0
	2003 Extractions		0	0		0	0	0
	2004 Extractions		0	0		0	0	0
	2005 Extractions		0	0		0	0	0
Delivery to Area Outside San Bernardino Valley	Adjusted Right	1	49,542	1,845		7,515	536	59,438
	2001 Extractions		59,083	377		3,479	617	63,556
	2002 Extractions		0	0		0	0	0
	2003 Extractions		0	0		0	0	0
	2004 Extractions		0	0		0	0	0
	2005 Extractions		0	0		0	0	0

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 Includes HGMP for Riverside Highland in years 1999, 2000 and 2001 which is included as delivery outside Valley (actual extraction Volume 1A, Table 2 : 0 : Table 23R Column 6: [1-3])

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.

CLASSIFIED ACCORDING TO SERVICE AREA  
(All Values in Acre-Feet)

Plaintiffs	Total Extractions in San Bernardino Basin Area	Delivery to San Bernardino Basin Area	Delivery to Colton 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>
<b>TOTAL</b>	<b>64,862</b>	<b>1,427</b>	<b>3,997</b>	<b>59,438</b>

**<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 2001 calendar year have been verified by the Watermaster as 165 acre-feet and 9,146 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-2001 (Table 4), Volume 3-2001 (Table 4), and Volume 5-2001 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 2001 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-2001, 3-2001 and 5-2001.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for calendar years 1971 through 2001 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 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		
Five-Year Base Period 1959-63 Avg.	11,731 <sup>2</sup>	8,235 <sup>2</sup>	3,496	115	3,381	3,381	
1971	11,388 <sup>2</sup>	8,363 <sup>2</sup>	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 <sup>2</sup>	8,605 <sup>2</sup>	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 <sup>2</sup>	5,610 <sup>2</sup>	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 <sup>2</sup>	4,603 <sup>2</sup>	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 <sup>2</sup>	11,799 <sup>2</sup>	2,304	299	2,005	3,381	
1990	17,571 <sup>2</sup>	15,551 <sup>2</sup>	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 <sup>2</sup>	15,407 <sup>2</sup>	615	126	489	3,381	
1996	15,843	15,188	655	78	577	3,381	
1997	13,373 <sup>2</sup>	12,151 <sup>2</sup>	1,222	81	1,141	3,381	
1998	10,319 <sup>2</sup>	10,036 <sup>2</sup>	283	32	251	3,381	
1999	11,295	10,161	1,134	222	912	3,381	
2000	12,509 <sup>2</sup>	12,223 <sup>2</sup>	286	73	213	3,381	
2001	12,964	12,631	333	168	165	3,381	
2002							
2003							
2004							
2005							

<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> Amount corrected during a subsequent year verification of 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	70,145 <sup>4</sup>	66,209	3,936	412	3,524	16,905
1995-99	66,852 <sup>4</sup>	62,943	3,909	539	3,370	16,905
1996-00	63,339 <sup>4</sup>	59,759	3,580	486	3,094	16,905
1997-01	60,460	57,202	3,258	576	2,682	16,905
1998-02						
1999-03						
2000-04						

<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.

<sup>4</sup> Number corrected during verification of 2001 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 <sup>1</sup>
			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 <sup>2</sup>	12,601 <sup>2</sup>	3,410	9,191 <sup>2</sup>	21,085
1981	23,611	6,811	16,800	3,733	13,067	21,085
1982	17,349 <sup>2</sup>	5,409	11,940 <sup>2</sup>	3,483 <sup>2</sup>	8,457	21,085
1983	11,904 <sup>2</sup>	5,204 <sup>2</sup>	6,700 <sup>2</sup>	2,925 <sup>2</sup>	3,775	21,085
1984	17,161	5,648	11,513	1,953	9,560	21,085
1985	19,392 <sup>2</sup>	6,048 <sup>2</sup>	13,344	2,143	11,201	21,085
1986	17,337	7,401 <sup>2</sup>	9,936 <sup>2</sup>	1,245	8,691 <sup>2</sup>	21,085
1987	15,803 <sup>2</sup>	7,374 <sup>2</sup>	8,429	717	7,712	21,085
1988	16,933 <sup>2</sup>	7,235 <sup>2</sup>	9,698 <sup>2</sup>	773	8,925 <sup>2</sup>	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 <sup>2</sup>	5,652 <sup>2</sup>	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 <sup>2</sup>	6,223 <sup>2</sup>	17,642	1,696	15,946	21,085
1996	26,698 <sup>2</sup>	11,986 <sup>2</sup>	14,712	1,307	13,405	21,085
1997	30,284 <sup>2</sup>	17,887 <sup>2</sup>	12,397	1,352	11,045	21,085
1998	33,116	22,112	11,004	1,324	9,680	21,085
1999	35,367	21,784	13,583	1,866	11,717	21,085
2000	35,799	23,309 <sup>2</sup>	12,490 <sup>2</sup>	1,120 <sup>2</sup>	11,370 <sup>2</sup>	21,085
2001	30,996	20,674	10,322	1,234	9,088	21,085

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

<sup>2</sup> Amounts corrected during a subsequent year verification of 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			Base Right for Use in Riverside County <sup>1</sup>
			Total	Used in San Bernardino County	Used in Riverside County	
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
1995-99	149,330	79,992	69,338	7,545	61,793	105,425
1996-00	161,264	97,078	64,186	6,969	57,217	105,425
1997-01	165,562	105,766	59,796	6,896	52,900	105,425
1998-02						
1999-03						
2000-04						

<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 2002 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 8-2001 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, 2002.*

The lowest static water surface elevation measured in each of the three wells during 2002 is as follows:

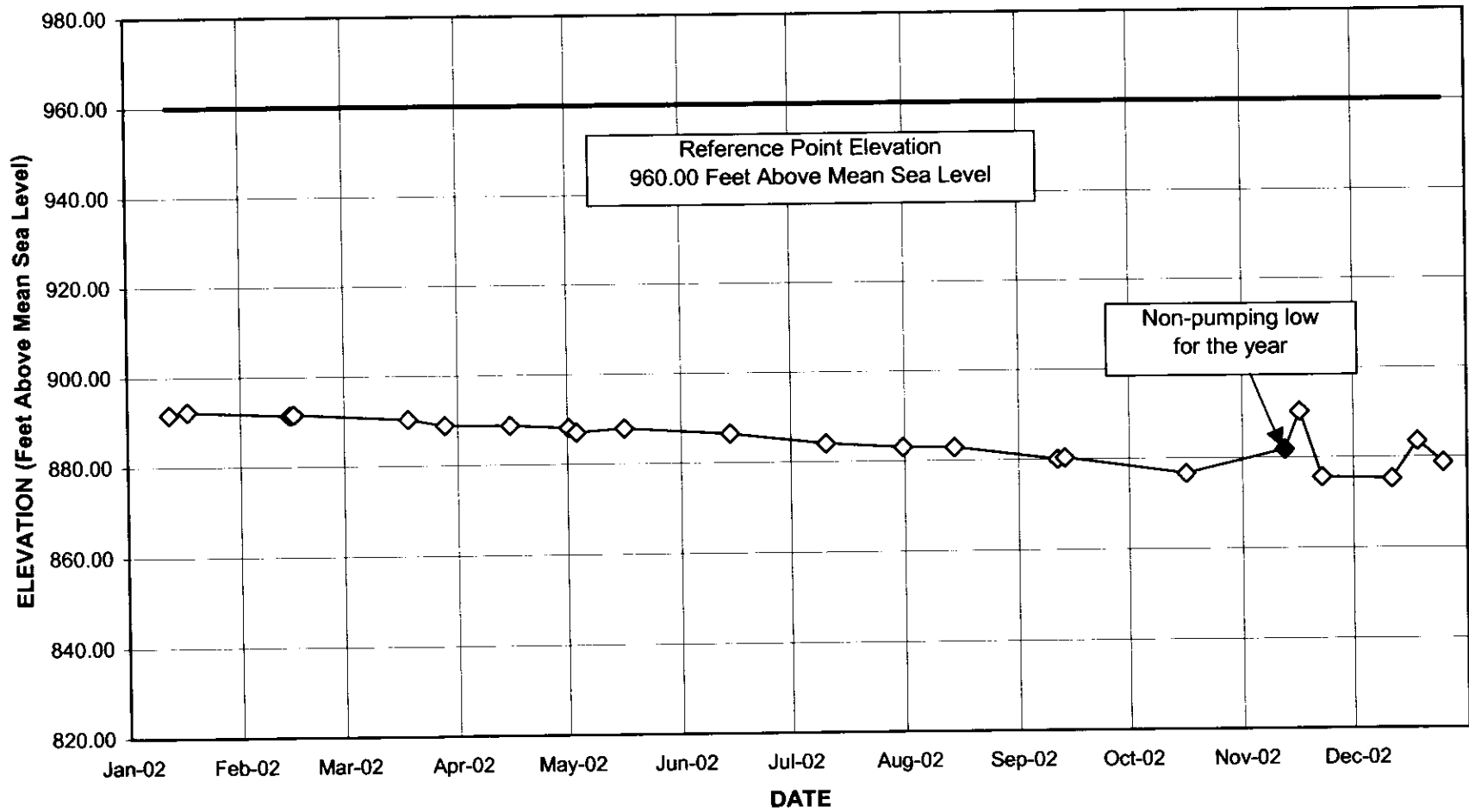
Well Number	Date of Measurement	Elevation of Water Surface
1S/4W-21Q03S (Johnson #1)	Nov. 12, 2002	881.00
1S/4W-29H01S (Flume #2)	Nov. 18, 2002	863.18
1S/4W-29Q01S (Flume #5)	Nov. 22, 2002	<u>858.73</u>
	Average	867.64

Thus, the lowest average fall water surface elevation for calendar year 2002 is 10.33 feet lower than the 2001 average of 877.97 and 45.60 feet higher than the 1963 average of 822.04.

**FIGURE 1**  
**GROUNDWATER SURFACE ELEVATION**  
**JOHNSON NO. 1 WELL**  
**2002**

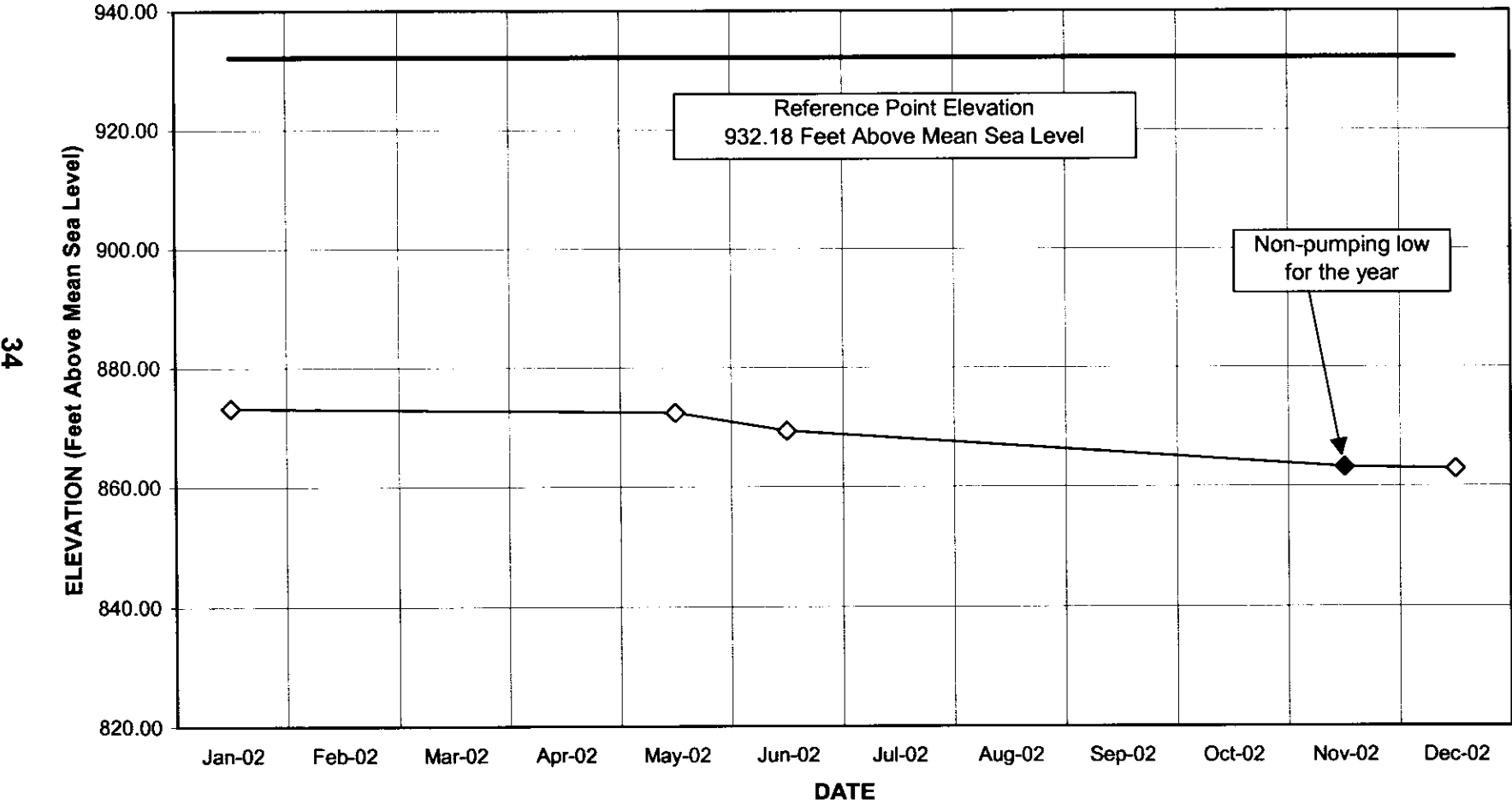
State Well Number: 1S4W21Q03S  
Recordation Number: 3601480  
Basin: Colton  
Owner: City of Riverside

33



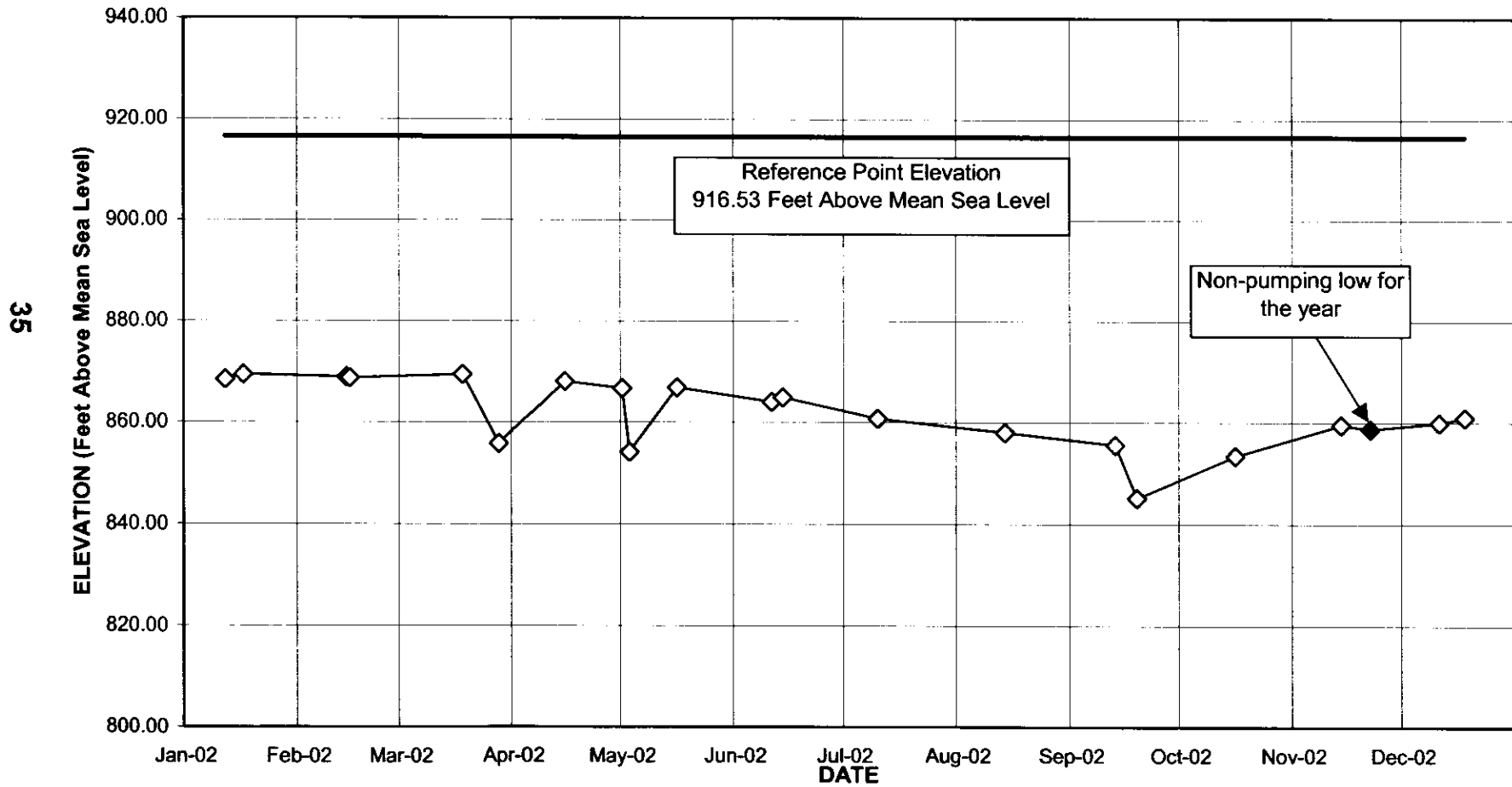
**FIGURE 2**  
**GROUNDWATER SURFACE ELEVATION**  
**FLUME NO. 2 WELL**  
**2002**

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



**FIGURE 3**  
**GROUNDWATER SURFACE ELEVATION**  
**FLUME NO. 5 WELL**  
**2002**

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





**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 2001 have been verified by the Watermaster as 33,701 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-2001 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	3	29,633
1981	30,243	3	29,633
1982	20,365	3	29,633
1983	22,991	3	29,633
1984	32,466	3	29,633
1985	23,970	3	29,633
1986	24,549	3	29,633
1987	24,202	3	29,633
1988	24,470	3	29,633
1989	34,417	3	29,633
1990	31,760	3	29,633
1991	29,364	3	29,633
1992	26,538	3	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
1999	33,882		29,633
2000	32,308		29,633
2001	33,701		29,633
2002			
2003			
2004			
2005			

- 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 subsequent year verification of 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
<hr/>		
Five-Year Base Period		
1959-63 Avg.	148,165	148,165
<hr/>		
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
1995-99	139,054	148,165
1996-00	148,782	148,165
1997-01	157,577	148,165
1998-02		
1999-03		
2000-04		

### 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	3,916

The service areas of the companies listed in Table D-5 were investigated. No new conversions were noted.

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 1997 through 2001 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
1997	257	38	284	0	579
1998	257	38	284	0	579
1999	257	38	284	0	579
2000	257	38	284	0	579
2001	257	38	284	0	579
<b>TOTAL</b> 1997-01	1,285	190	1,420	0	2,895

Table No. 7 shows that in 2001 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 2001 were verified by the Watermaster to be 29,263 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 6-2001, 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 EXTRACTIONS 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				
		1997 Verified Delivery	1998 Verified Delivery	1999 Verified Delivery	2000 Verified Delivery	2001 Verified Delivery
City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company	23,836	30,651	29,367	30,719	27,385	29,847
Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water received from City of Riverside	13,229	1,022	476	989	1,122	356
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	0	0	0	0	0
Jurupa Community Services District	531	37	0	0	0	1
Rubidoux Community Services District	36	250	250	250	250	250
<b>TOTAL</b>	<b>42,535</b>	<b>31,960</b>	<b>30,093</b>	<b>31,958</b>	<b>28,757</b>	<b>30,453</b>

**1 Amount corrected during 2001 verification.**

**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 2001 were verified by the Watermaster to be 26,046 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 2001 calendar year indicated that during 2001 San Bernardino Valley Municipal Water District diverted 532 acre-feet of water from Mill Creek and delivered such water to the Yucaipa Basin as shown on Table No. 9. During 2001, this number includes 415 acre-feet pumped to OCWD (See Footnote 2 on Table No. 9). During 2001, no water was exported to the San Timoteo, Oak Glen or Beaumont Basins.

TABLE NO. 9  
 VERIFIED 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 RIVERSIDE NARROWS  
 (All Values in Acre-Feet)

Entities	Annual 1959-63 Average	Calendar Years				
		1997 Verified Delivery	1998 Verified Delivery	1999 Verified Delivery	2000 Verified Delivery	2001 Verified Delivery
Fontana Union Water Company	10,170 <sup>1</sup>	19,715	21,987	21,800	17,906	15,208
West San Bernardino County Water District	1,806	6,615	6,800	6,498	6,566	6,600
City of Rialto	551 <sup>1</sup>	1,365	1,711	1,451	1,574	1,424
<b>Subtotal (Delivery to Chino Basin)</b>	<b>12,527</b>	<b>27,695</b>	<b>30,498</b>	<b>29,749</b>	<b>26,046</b>	<b>23,232</b>
San Bernardino Valley Municipal Water District	0	2,073 <sup>2</sup>	2,326 <sup>2</sup>	3,835 <sup>2</sup>	3,345 <sup>2</sup>	532 <sup>2</sup>
<b>Subtotal (Delivery to areas other than Chino Basin)</b>	<b>0</b>	<b>2,073</b>	<b>2,326</b>	<b>3,835</b>	<b>3,345</b>	<b>532</b>
<b>TOTAL</b>	<b>12,527 <sup>1</sup></b>	<b>29,768</b>	<b>32,824</b>	<b>33,584</b>	<b>29,391</b>	<b>23,764</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 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.

In 1999 includes 3,726 acre-feet pumped to OCWD under January 6, 1999, 12th Amendment to December 22, 1981 agreements.

In 2000 includes 3,161 acre-feet pumped to OCWD under August 16, 2000, 14th Amendment to December 22, 1981 agreements.

In 2001 includes 415 acre-feet pumped to OCWD under February 7, 2001, 16th Amendment to December 22, 1981 agreements.

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

44

**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, 1998, 1999, 2000 and 2001.

**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 1997 through 2001, 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 1997 through 2001 is as follows:

	(All Values in Acre-Feet)		
	Allowable 1997-2001	Actual Extractions	Difference
Plaintiffs	367,145	341,670	(10,373)
Non-Plaintiffs	947,163	961,651	14,488
TOTAL	1,314,308	1,310,380	(3,928)

**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 1997 through 2001 the export by entities within Western was 46,894 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 2001 by 361,456 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, 1998, 1999, 2000 and 2001 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, 1998, 1999, 2000 and 2001 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, 18,013 acre-feet in 1998, 27,994 acre-feet in 1999, 22,401 acre-feet in 2000 and 7,527 acre-feet in 2001 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 2001 were 369,652 acre-feet less than the total Base Right. This under-extraction results in extraction credits for the period 1971 through 2001 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 427,780 acre-feet.

Since actual extractions have not exceeded the Base Right during the period 1971 through 2001, 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 1997 through 2001 has resulted in an obligation of 2,895 acre-feet (See Table 7). Therefore, Western's total accumulated obligation through 2001 is 59,192 acre-feet.

In summary, Table 16 shows that through 2001 Western's accumulated credits exceeded its accumulated obligation by 368,588 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 1997.

As indicated previously, the actual extractions from the San Bernardino Basin Area were greater than the Adjusted Right during the period 1997 through 2001. The actual extractions for 2001 were equal to the annual Adjusted Right; therefore, the extraction credit for 2001 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 2001 total 502,965 acre-feet.

The accumulated obligation resulting from excess extractions and new export during the period 1971 through 2001 is 224,432 acre-feet as shown on Table 17.

In summary, Table 17 shows that at the end of the five-year period 1997 through 2001 San Bernardino Valley's accumulated credits exceeded its accumulated obligations by 278,533 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 1997 through 2001 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 1997 through 2001.

In summary, Table 18 shows that Western is not required to provide additional replenishment for obligations incurred during the five-year period 1997 through 2001.

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 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	Adjusted Right	Maximum Allowable	Actual	
1971	53,448	4	69,482	53,882	1,462	4	1,901	98	1,260	4	1,638	669	50,726	4	65,944	53,115
1972	52,199	5	67,859	45,694	1,427		1,855	85	1,230		1,599	547	49,542	5	64,405	45,062
1973	52,199	5	67,859	43,022	1,427		1,855	156	1,230		1,599	512	49,542	5	64,405	42,354
1974	52,199	5	67,859	43,367	1,427		1,855	0	1,230		1,599	550	49,542	5	64,405	42,817
1975	52,199	5	67,859	47,962	1,427		1,855	0	1,230		1,599	498	49,542	5	64,405	47,464
1976	52,199	5	67,859	51,374	1,427		1,855	0	1,230		1,599	523	49,542	5	64,405	50,851
1977	52,199	5	67,859	50,999	1,427		1,855	0	1,230		1,599	346	49,542	5	64,405	50,653
1978	52,199	5	67,859	45,384	1,427		1,855	646	1,230		1,599	301	49,542	5	64,405	44,437
1979	52,199	5	67,859	52,377	1,427		1,855	0	1,230		1,599	415	49,542	5	64,405	51,962
1980	52,199	5	67,859	50,756	1,427		1,855	383	1,230		1,599	0	49,542	5	64,405	50,373
1981	52,199	5	67,859	52,157	1,427		1,855	724	1,230		1,599	0	49,542	5	64,405	51,433
1982	52,199	5	67,859	49,599	1,427		1,855	162	1,230		1,599	0	49,542	5	64,405	49,437
1983	52,199	5	67,859	46,064	1,427		1,855	335	1,230		1,599	0	49,542	5	64,405	45,729
1984	52,199	5	67,859	58,906	1,427		1,855	32	1,230		1,599	0	49,542	5	64,405	58,874
1985	52,199	5	67,859	63,073	1,427		1,855	59	1,230		1,599	0	49,542	5	64,405	63,014
1986	52,199	5	67,859	59,979	1,427		1,855	437	1,230		1,599	0	49,542	5	64,405	59,542
1987	52,199	5	67,859	57,841	1,427		1,855	334	1,230		1,599	0	49,542	5	64,405	57,507
1988	52,199	5	67,859	64,512	1,427		1,855	815	1,230		1,599	0	49,542	5	64,405	63,697
1989	52,199	5	67,859	50,784	1,427		1,855	28	1,230		1,599	0	49,542	5	64,405	50,756
1990	52,199	5	67,859	47,637	1,427		1,855	19	1,230		1,599	0	49,542	5	64,405	47,618
1991	52,199	5	67,859	52,909	1,427		1,855	155	1,230		1,599	0	49,542	5	64,405	52,754
1992	52,199	5	67,859	50,239	1,427		1,855	203	1,230		1,599	0	49,542	5	64,405	50,036
1993	52,199	5	67,859	52,114	1,427		1,855	-108	1,230		1,599	0	49,542	5	64,405	52,222
1994	52,199	5	67,859	60,447	1,427		1,855	46	1,230		1,599	0	49,542	5	64,405	60,401
1995	52,199	5	67,859	55,392	1,427		1,855	99	1,230		1,599	0	49,542	5	64,405	55,293
1996	52,199	5	67,859	63,382	1,427		1,855	278	1,230		1,599	0	49,542	5	64,405	63,104
1997	52,199	5	67,859	59,938	1,427		1,855	494	1,230		1,599	0	49,542	5	64,405	59,444
1998	52,199	5	67,859	54,417	1,427		1,855	0	1,230		1,599	0	49,542	5	64,405	54,417
1999	52,199	5	67,859	61,142	1,427		1,855	181	1,230		1,599	0	49,542	5	64,405	60,961
2000	52,199	5	67,859	63,472	1,427		1,855	117	1,230		1,599	0	49,542	5	64,405	63,355
2001	52,199	5	67,859	59,312	1,427		1,855	229	1,230		1,599	0	49,542	5	64,405	59,083

49

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)

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 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 VI(b)6 of the Judgment.
- 7 Includes 76 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement.
- 8 Includes 9,332 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement.
- 9 Includes 13,472 af of additional extraction which are allowable under provisions of the Feb 25, 1985 and the Aug 21, 1985 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.
- 10 Includes 10,000 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement.
- 11 Includes 7,965 acre-feet of additional extraction which are allowable under provisions of May 20, 1987 amendment to the December 22, 1981 Western-San Bernardino agreement.
- 12 Includes 14,201 acre-feet of additional extraction which are allowable under provisions of January 20, 1988 amendment to the December 22, 1981 Western-San Bernardino agreement.
- 13 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.
- 14 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.
- 15a 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. 5,622 produced from Riverside's allowance for Riverside and 1,530 produced from SBVMWD's allowance for WMWD.
- 15b Includes 9,917 acre-feet of additional export which are allowable under provisions of June 16, 1993 amendment to the December 22, 1981 Western-San Bernardino agreement. 8,387 exported from Riverside's allowance for Riverside and 1,530 exported from SBVMWD's allowance for WMWD.
- 16a 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. 5,622 produced/exported from Riverside's allowance for Riverside and 3,485 produced from SBVMWD's allowance for WMWD.
- 16b Includes 10,859 acre-feet of additional export which are allowable under provisions of March 2, 1994 amendment to the December 22, 1981 Western-San Bernardino agreement. 7,374 exported from Riverside's allowance for Riverside and 3,485 exported from SBVMWD's allowance for WMWD.
- 17a 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. 5,622 produced from Riverside's allowance for Riverside and 177 produced from SBVMWD's allowance for WMWD.
- 17b Includes 8,357 acre-feet of additional export which are allowable under provisions of March 15, 1995 amendment to the December 22, 1981 Western-San Bernardino agreement. 8,180 exported from Riverside's allowance for Riverside and 177 exported from SBVMWD's allowance for WMWD.
- 18a Includes 8,390 acre-feet of additional extraction which are allowable under provisions of March 6, 1996 amendment to the December 22, 1981 Western-San Bernardino agreement. 5,622 produced from Riverside's allowance for Riverside and 2,768 produced from SBVMWD's allowance for WMWD.
- 18b Includes 10,769 acre-feet of additional export which are allowable under provisions of March 6, 1996 amendment to the December 22, 1981 Western-San Bernardino agreement. 8,001 exported from Riverside's allowance for Riverside and 2,768 exported from SBVMWD's allowance for WMWD.
- 19a Includes 7,495 acre-feet of additional extraction which are allowable under provisions of February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement. 5,622 produced from Riverside's allowance for Riverside and 1,873 produced from SBVMWD's allowance for WMWD.
- 19b Includes 9,658 acre-feet of additional export which are allowable under provisions of February 19, 1997 amendment to the December 22, 1981 Western-San Bernardino agreement. 7,785 exported from Riverside's allowance for Riverside and 1,873 exported from SBVMWD's allowance for WMWD.
- 20a Includes 6,671 acre-feet of additional extraction which are allowable under provisions of April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreement. 5,622 produced from Riverside's allowance for Riverside and 1,049 produced from SBVMWD's allowance for WMWD.
- 20b Includes 6,671 acre-feet of additional export which are allowable under provisions of April 30, 1998 amendment to the December 22, 1981 Western-San Bernardino agreement. 5,622 exported from Riverside's allowance for Riverside and 1,049 exported from SBVMWD's allowance for WMWD.
- 21a Includes 8,943 acre-feet of additional extraction which are allowable under provisions of January 6, 1999, 13th Amendment to the December 22, 1981 Western-San Bernardino agreement.
- 21b Includes 11,114 acre-feet of additional export which are allowable under provisions of January 6, 1999, 13th Amendment to the December 22, 1981 Western-San Bernardino agreement.
- 22a Includes 11,273 acre-feet of additional extraction which are allowable under provisions of August 16, 2000, 15th Amendment to the December 22, 1981 Western-San Bernardino agreement.
- 22b Includes 13,793 acre-feet of additional export which are allowable under provisions of August 16, 2000, 15th Amendment to the December 22, 1981 Western-San Bernardino agreement.
- 23a Includes 7,113 acre-feet of additional extraction which are allowable under provisions of February 7, 2001, 17th Amendment to the December 22, 1981 Western-San Bernardino agreement.
- 23b Includes 9,541 acre-feet of additional export which are allowable under provisions of February 7, 2001, 17th Amendment to the December 22, 1981 Western-San Bernardino agreement.

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 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3
1971-75	260,995 4	262,244	236,724	7,135	7,170	156	6,150	6,180	2,429	247,710	248,984	234,139 13
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 5	7,135	7,135	1,636	6,150	6,150	0	247,710	247,710	254,698 5
1979-83	260,995	260,995	268,651 5	7,135	7,135	1,312	6,150	6,150	0	247,710	247,710	267,339 5
1980-84	260,995	260,995	268,575 6	7,135	7,135	1,312	6,150	6,150	0	247,710	247,710	267,263 6
1981-85	260,995	260,995	261,835 7	7,135	7,135	1,197	6,150	6,150	0	247,710	247,710	260,638 7
1982-86	260,995	260,995	271,431 8	7,135	7,135	1,677	6,150	6,150	0	247,710	247,710	269,754 8
1983-87	260,995	260,995	255,344 9	7,135	7,135	1,673	6,150	6,150	0	247,710	247,710	253,671 9
1984-88	260,995	260,995	249,341 10	7,135	7,135	1,677	6,150	6,150	0	247,710	247,710	247,664 10
1985-89	260,995	260,995	250,551 11	7,135	7,135	1,673	6,150	6,150	0	247,710	247,710	248,878 11
1986-90	260,995	260,995	248,587 12	7,135	7,135	1,633	6,150	6,150	0	247,710	247,710	246,954 12
1987-91	260,995	260,995	248,305 14	7,135	7,135	1,351	6,150	6,150	0	247,710	247,710	246,954 14
1988-92	260,995	260,995	241,491 15	7,135	7,135	1,220	6,150	6,150	0	247,710	247,710	240,271 15
1989-93	260,995	260,995	240,614 16	7,135	7,135	297	6,150	6,150	0	247,710	247,710	240,317 16
1990-94	260,995	260,995	241,170 17	7,135	7,135	315	6,150	6,150	0	247,710	247,710	240,855 17
1991-95	260,995	260,995	243,174 18	7,135	7,135	395	6,150	6,150	0	247,710	247,710	242,779 18
1992-96	260,995	260,995	248,469 19	7,135	7,135	518	6,150	6,150	0	247,710	247,710	247,951 19
1993-97	260,995	260,995	253,330 20a	7,135	7,135	809	6,150	6,150	0	247,710	247,710	241,334 20b
1994-98	260,995	260,995	256,114 21a	7,135	7,135	917	6,150	6,150	0	247,710	247,710	246,345 21b
1995-99	260,995	260,995	256,973 22a	7,135	7,135	1,052	6,150	6,150	0	247,710	247,710	246,650 22b
1996-00	260,995	260,995	265,053 23a	7,135	7,135	1,070	6,150	6,150	0	247,710	247,710	254,712 23b
1997-01	260,995	260,995	256,786 24a	7,135	7,135	1,021	6,150	6,150	0	247,710	247,710	246,483 24b
Excess Extraction												
1997-01		(4,209) *			(6,114) *			(6,150) *			(1,227) *	

51

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)

- 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 50.
- 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 50.
- 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 50.
- 8 Excludes the 76 acre-feet in 1983, the 9,332 acre-feet in 1984, the 13,472 acre-feet in 1985, and the 10,000 acre-feet in 1986 of allowable additional extraction. See Footnotes 7, 8, 9, and 10 on Page 50.
- 9 Excludes the 76 af in 1983, the 9,332 af in 1984, the 13,472 af in 1985, the 10,000 af in 1986, and the 7,965 af in 1987 of allowable additional extraction. See Footnotes 7, 8, 9, 10, and 11 on Page 50.
- 10 Excludes the 9,332 af in 1984, the 13,472 af in 1985, the 10,000 af in 1986, the 7,965 af in 1987, and the 14,201 af in 1988 of allowable additional extraction. See Footnotes 8, 9, 10, 11, and 12 on Page 50.
- 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 50.
- 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 10, 11, and 12 on Page 50.
- 13 Number corrected during verification of 1990 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 50.
- 15 Excludes the 14,201 acre-feet in 1988, the 3,212 acre-feet in 1991, and the 7,177 acre-feet in 1992 of allowable additional extraction. See Footnotes 12, 13, and 14 on Page 50.
- 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 50.
- 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 9,107 acre-feet in 1994 of allowable additional extraction. See Footnotes 13, 14, 15, and 16 on Page 50.
- 18 Excludes the 3,212 af in 1991, the 7,177 af in 1992, the 2,680 af in 1993, the 9,107 af in 1994, and the 5,751 af in 1995 of allowable additional extraction. See Footnotes 13, 14, 15, 16 and 17 on Page 50.
- 19 Excludes the 7,177 af in 1992, the 2,680 af in 1993, the 9,107 af in 1994, the 5,751 af in 1995, and the 8,390 af in 1996, of allowable additional extraction. See Footnotes 14, 15, 16, 17 and 18 on Page 50.
- 20a Excludes the 7,152 af in 1993, the 9,107 af in 1994, the 5,799 af in 1995, the 8,390 af in 1996, and the 7,495 af in 1997 of allowable additional extraction. See Footnotes 15a, 16a, 17a, 18a and 19a on Page 50.
- 20b Excludes the 9,917 af in 1993, the 10,859 af in 1994, the 8,357 af in 1995, the 10,769 af in 1996, and the 9,658 af in 1997 of allowable additional extract. See Footnotes 15b, 16b, 17b, 18b and 19b on Page 50.
- 21a Excludes the 9,107 af in 1994, the 5,799 af in 1995, the 8,390 af in 1996, the 7,495 af in 1997, and the 6,671 af in 1998 of allowable additional extraction. See Footnotes 16a, 17a, 18a, 19a and 20a on Page 50.
- 21b Excludes the 10,859 af in 1994, the 8,357 af in 1995, the 10,769 af in 1996, the 9,658 af in 1997, and the 6,671 af in 1998 of allowable additional extract. See Footnotes 16b, 17b, 18b, 19b and 20b on Page 50.
- 22a Excludes the 5,799 af in 1995, the 8,390 af in 1996, the 7,495 af in 1997, the 6,671 af in 1998, and the 8,943 af in 1999 of allowable additional extraction. See Footnotes 17a, 18a, 19a, 20a and 21a on Page 50.
- 22b Excludes the 8,357 af in 1995, the 10,769 af in 1996, the 9,658 af in 1997, the 6,671 af in 1998, and the 11,114 af in 1999 of allowable additional extract. See Footnotes 17b, 18b, 19b, 20b and 21b on Page 50.
- 23a Excludes the 8,390 af in 1996, the 7,495 af in 1997, the 6,671 af in 1998, the 8,943 af in 1999, and the 11,273 af in 2000 of allowable additional extraction. See Footnotes 18a, 19a, 20a, 21a, and 22a on Page 50.
- 23b Excludes the 10,769 af in 1996, the 9,658 af in 1997, the 6,671 af in 1998, the 11,114 af in 1999, and the 13,793 af in 2000 of allowable additional extract. See Footnotes 18b, 19b, 20b, 21b, 22b on Page 50.
- 24a Excludes the 7,495 af in 1997, the 6,671 af in 1998, the 8,943 af in 1999, the 11,273 af in 2000, and the 7,113 af in 2001 of allowable additional extraction. See Footnotes 19a, 20a, 21a, 22a and 23a on Page 50.
- 24b Excludes the 9,658 af in 1997, the 6,671 af in 1998, the 11,114 af in 1999, the 13,793 af in 2000, and the 9,541 af in 2001 of allowable additional extract. See Footnotes 19b, 20b, 21b, 22b, and 23b on Page 50.

\* 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 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3
1971	4,399 4	5,719	4,012	1 4	1	0	2,509 4	3,262	2,388	1,890 4	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	0	2,449	3,184	2,756	1,845	2,398	2,295 5
1997	4,294	5,582	4,939 6	0	0	0	2,449	3,184	2,656	1,845	2,398	2,283 6
1998	4,294	5,582	3,250 7	0	0	0	2,449	3,184	1,961	1,845	2,398	1,289 7
1999	4,294	5,582	4,972 8	0	0	0	2,449	3,184	2,082	1,845	2,398	2,890 8
2000	4,294	5,582	3,423 9	0	0	0	2,449	3,184	2,811	1,845	2,398	612 9
2001	4,294	5,582	2,925 10	0	0	0	2,449	3,184	2,548	1,845	2,398	377 10

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.

8 Includes 2,041 acre-feet of additional extraction which are allowable under provisions of January 19, 1999, 13th Amendment to the December 22, 1981 Western-San Bernardino agreement.

9 Includes 567 acre-feet of additional extraction which are allowable under provisions of August 16, 2000 14th Amendment to the December 22, 1981 Western-San Bernardino agreement.

10 Includes 260 acre-feet of additional extraction which are allowable under provisions of February 7, 2001, 16th 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 <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>	Adjusted Right <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>	Adjusted Right <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>	Adjusted Right <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>
1971-75	21,470 <sup>4</sup>	21,470	21,360	0	0	0	12,245	12,245	10,027	9,225	9,225	11,333
1972-76	21,470	21,470	20,411	0	0	0	12,245	12,245	9,608	9,225	9,225	10,803
1973-77	21,470	21,470	18,249	0	0	0	12,245	12,245	8,908	9,225	9,225	9,341
1974-78	21,470	21,470	17,530	0	0	0	12,245	12,245	8,704	9,225	9,225	8,826
1975-79	21,470	21,470	16,498	0	0	0	12,245	12,245	8,762	9,225	9,225	7,736
1976-80	21,470	21,470	15,583	0	0	0	12,245	12,245	8,863	9,225	9,225	6,720
1977-81	21,470	21,470	14,795	0	0	0	12,245	12,245	8,818	9,225	9,225	5,977
1978-82	21,470	21,470	16,606	0	0	0	12,245	12,245	10,085	9,225	9,225	6,521
1979-83	21,470	21,470	17,996	0	0	0	12,245	12,245	10,975	9,225	9,225	7,021
1980-84	21,470	21,470	17,631	0	0	0	12,245	12,245	10,893	9,225	9,225	6,738
1981-85	21,470	21,470	18,771	0	0	0	12,245	12,245	10,872	9,225	9,225	7,899
1982-86	21,470	21,470	19,895	0	0	0	12,245	12,245	11,326	9,225	9,225	8,569
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 <sup>5</sup>	0	0	0	12,245	12,245	11,155	9,225	9,225	9,005 <sup>5</sup>
1993-97	21,470	21,470	20,584 <sup>6</sup>	0	0	0	12,245	12,245	11,536	9,225	9,225	9,048 <sup>6</sup>
1994-98	21,470	21,470	20,130 <sup>7</sup>	0	0	0	12,245	12,245	11,720	9,225	9,225	8,410 <sup>7</sup>
1995-99	21,470	21,470	18,756 <sup>8</sup>	0	0	0	12,245	12,245	11,601	9,225	9,225	7,155 <sup>8</sup>
1996-00	21,470	21,470	17,671 <sup>9</sup>	0	0	0	12,245	12,245	12,266	9,225	9,225	5,405 <sup>9</sup>
1997-01	21,470	21,470	15,748	0	0	0	12,245	12,245	12,058	9,225	9,225	3,690 <sup>10</sup>
Excess												
Extraction												
1997-01		(5,722) *			0 *			(187) *			(5,535) *	

<sup>1</sup> 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.

<sup>2</sup> Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.

<sup>3</sup> Actual verified extractions from Table No. 3 of Watermaster Report.

<sup>4</sup> 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.

<sup>5</sup> Excludes the 463 acre-feet in 1996 of allowable additional extraction. See Footnote 5 on Page 53.

<sup>6</sup> Excludes the 463 acre-feet in 1996 and the 463 acre-feet in 1997 of allowable additional extraction. See Footnotes 5 and 6 on Page 53.

<sup>7</sup> 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 53.

<sup>8</sup> Excludes the 463 acre-feet in 1996, the 463 acre-feet in 1997, the 463 acre-feet in 1998, and the 2,022 acre-feet in 1999 of allowable additional extraction. See Footnotes 5, 6, 7, and 8 on Page 53.

<sup>9</sup> Excludes the 463 acre-feet in 1996, the 463 acre-feet in 1997, the 463 acre-feet in 1998, the 2,022 acre-feet in 1999 and the 553 acre-feet in 2000 of allowable additional extraction. See Footnotes 5, 6, 7, 8, and 9 on Page 53.

<sup>10</sup> Excludes the 463 acre-feet in 1997, the 463 acre-feet in 1998, the 2,022 acre-feet in 1999, the 553 acre-feet in 2000 and the 260 acre-feet in 2001 of allowable additional extraction. See Footnotes 6, 7, 8, 9 and 10 on Page 53.

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 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 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3
1971	8,026 4	10,434	2,902	0 4	0	0	325 4	423	383	7,700 4	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
1999	7,833	10,183	6,289	0	0	0	318	413	90	7,515	9,770	6,199
2000	7,833	10,183	3,832	0	0	0	318	413	352	7,515	9,770	3,480
2001	7,833	10,183	3,671	0	0	0	318	413	192	7,515	9,770	3,479

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.



**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	1,590	1,590	983	37,575	37,575	23,710	
1987-91	39,165	39,165	23,549	0	0	0	1,590	1,590	939	37,575	37,575	22,610	
1988-92	39,165	39,165	22,735	0	0	0	1,590	1,590	864	37,575	37,575	21,871	
1989-93	39,165	39,165	22,782	0	0	0	1,590	1,590	907	37,575	37,575	21,875	
1990-94	39,165	39,165	21,915	0	0	0	1,590	1,590	894	37,575	37,575	21,021	
1991-95	39,165	39,165	21,624	0	0	0	1,590	1,590	956	37,575	37,575	20,668	
1992-96	39,165	39,165	21,110	0	0	0	1,590	1,590	960	37,575	37,575	20,150	
1993-97	39,165	39,165	21,175	0	0	0	1,590	1,590	979	37,575	37,575	20,196	
1994-98	39,165	39,165	19,990	0	0	0	1,590	1,590	913	37,575	37,575	19,077	
1995-99	39,165	39,165	21,754	0	0	0	1,590	1,590	776	37,575	37,575	20,978	
1996-00	39,165	39,165	22,026	0	0	0	1,590	1,590	983	37,575	37,575	21,043	
1997-01	39,165	39,165	21,785	0	0	0	1,590	1,590	981	37,575	37,575	20,804	
Excess Extraction													
1997-01		(17,380) *			0 *			(609) *		(16,771) *			

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

(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 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3
1971	581 4	755	219	0 4	0	0	0 4	0	0	581 4	755	219
1972	536 5	697	239	0	0	0	0	0	0	536 5	697	239
1973	536 5	697	239	0	0	0	0	0	0	536 5	697	239
1974	536 5	697	267	0	0	0	0	0	0	536 5	697	267
1975	536 5	697	179	0	0	0	0	0	0	536 5	697	179
1976	536 5	697	245	0	0	0	0	0	0	536 5	697	245
1977	536 5	697	87	0	0	0	0	0	0	536 5	697	87
1978	536 5	697	183	0	0	0	0	0	0	536 5	697	183
1979	536 5	697	83	0	0	0	0	0	0	536 5	697	83
1980	536 5	697	7	0	0	0	0	0	0	536 5	697	7
1981	536 5	697	143	0	0	0	0	0	0	536 5	697	143
1982	536 5	697	48	0	0	0	0	0	0	536 5	697	48
1983	536 5	697	0	0	0	0	0	0	0	536 5	697	0
1984	536 5	697	0	0	0	0	0	0	0	536 5	697	0
1985	536 5	697	0	0	0	0	0	0	0	536 5	697	0
1986	536 5	697	48	0	0	0	0	0	0	536 5	697	48
1987	536 5	697	195	0	0	0	0	0	0	536 5	697	195
1988	536 5	697	179	0	0	0	0	0	0	536 5	697	179
1989	536 5	697	62	0	0	0	0	0	0	536 5	697	62
1990	536 5	697	95	0	0	0	0	0	0	536 5	697	95
1991	536 5	697	23	0	0	0	0	0	0	536 5	697	23
1992	536 5	697	32	0	0	0	0	0	0	536 5	697	32
1993	536 5	697	536	0	0	0	0	0	0	536 5	697	536
1994	536 5	697	593	0	0	0	0	0	0	536 5	697	593
1995	536 5	697	588	0	0	0	0	0	0	536 5	697	588
1996	536 5	697	445	0	0	0	0	0	0	536 5	697	445
1997	536 5	697	505 6	0	0	0	0	0	0	536 5	697	505 6
1998	536 5	697	590 7	0	0	0	0	0	0	536 5	697	590 7
1999	536 5	697	586 8	0	0	0	0	0	0	536 5	697	586 8
2000	536 5	697	624 9	0	0	0	0	0	0	536 5	697	624 9
2001	536 5	697	617 10	0	0	0	0	0	0	536 5	697	617 10

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.

8 Includes 50 acre-feet of additional extraction which are allowable under provisions of January 18, 1999 13th Amendment to the December 22, 1981 Western-San Bernardino agreement.

9 Includes 88 acre-feet of additional extraction which are allowable under provisions of May 16, 2000 15th Amendment to the December 22, 1981 Western-San Bernardino agreement.

10 Includes 81 acre-feet of additional extraction which are allowable under provisions of February 7 2001, 17th 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 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3	Adjusted Right 1	Maximum Allowable 2	Actual 3
1971-75	2,725 4	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 5	0	0	0	0	0	0	2,680	2,680	2,609 5
1994-98	2,680	2,680	2,605 6	0	0	0	0	0	0	2,680	2,680	2,605 6
1995-99	2,680	2,680	2,548 7	0	0	0	0	0	0	2,680	2,680	2,548 7
1996-00	2,680	2,680	2,496 8	0	0	0	0	0	0	2,680	2,680	2,496 8
1997-01	2,680	2,680	2,587 9	0	0	0	0	0	0	2,680	2,680	2,587 9
Excess Extraction 1997-01		(93) *			0 *			0 *			(93) *	

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 57.

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 57.

7 Excludes the 58 acre-feet in 1997, the 58 acre-feet in 1998 and the 50 acre-feet in 1999 of allowable additional extraction. See Footnotes 6, 7, and 8 on Page 57.

8 Excludes the 58 acre-feet in 1997, the 58 acre-feet in 1998, the 50 acre-feet in 1999 and the 88 acre-feet of allowable additional extraction. See Footnotes 6, 7, 8 and 9 on Page 57.

9 Excludes the 58 acre-feet in 1997, the 58 acre-feet in 1998, the 50 acre-feet in 1999, the 88 acre-feet in 2000 and the 81 acre-feet in 2001 of allowable additional extraction. See Footnotes

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

TABLE NO. 14

ANNUAL ACCOUNTING FOR  
 WESTERN MUNICIPAL WATER DISTRICT  
 EXPORT OF EXTRACTATIONS 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				
		1997	1998	1999	2000	2001
<b>EXPORTS</b>						
Adjusted Right		42,535	42,535	42,535	42,535	42,535
Actual Export	1	31,960	30,093	31,958	28,757	30,453
ACCUMULATED EXPORT	3	964,552	994,645	1,026,603	1,055,360	1,085,813
<b>OBLIGATIONS</b>						
New Export	2	(10,575)	(12,442)	(10,577)	(13,778)	(12,082)
ACCUMULATED NEW EXPORT	3	(183,893)	(196,335)	(206,912)	(220,690)	(232,772)

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 1997 include amounts accumulated through 1996.

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)

	Calendar Years				
	1997	1998	1999	2000	2001
<b>EXPORTS</b>					
Adjusted Right	12,527	12,527	12,527	12,527	12,527
Actual Export <sup>1</sup>	29,768	32,824	33,584	29,391	23,764
ACCUMULATED EXPORT	630,230	663,054	696,638	726,029	749,793
<b>OBLIGATIONS</b>					
New Export <sup>2</sup>	17,241 <sup>4</sup>	20,297 <sup>5</sup>	21,057 <sup>6</sup>	16,864 <sup>7</sup>	11,237
ACCUMULATED NEW EXPORT <sup>3</sup>	292,001	312,298	333,355	350,219	361,456

**1 See Table 9 of Watermaster Report.**

**2 Actual Export minus Adjusted Right.**

**3 Accumulated values beginning in 1997 include amounts accumulated through 1996.**

**4 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.**

**5 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.**

**6 Includes 21,057 acre-feet of additional water extracted under provisions of the January 6, 1999 12th Amendment and the January 19, 1999 13th Amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.**

**7 Includes 16,864 acre-feet of additional water extracted under provisions of the August 16, 2000 14th Amendment and the August 16, 2000 15th 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				
		1997	1998	1999	2000	2001
<b>EXTRACTIONS</b>						
Base Right	1	3,381	3,381	3,381	3,381	3,381
Actual Extractions	1	1,141	251	912	213	165
ACCUMULATED EXTRACTIONS	6	39,253	39,504	40,416	40,629	40,794
<b>CREDITS</b>						
Extraction	2	2,240	3,130	2,469	3,168	3,216
Total Credits		2,240	3,130	2,469	3,168	3,216
ACCUMULATED CREDITS	6	52,526	55,656	58,125	61,293	64,509
<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
<b>NET ACCUMULATED (CREDIT) OR OBLIGATION</b>						
	6	(52,034)	(55,164)	(57,633)	(60,801)	(64,017)

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 1997 include amounts accumulated through 1996.

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				
		1997	1998	1999	2000	2001
<b>EXTRACTIONS</b>						
Base Right	1	21,085	21,085	21,085	21,085	21,085
Actual Extractions	1	11,045	9,680	11,717	11,370	9,088
ACCUMULATED EXTRACTIONS	6	342,641	352,321	364,038	375,408	384,496
<b>CREDITS</b>						
Extraction	2	10,040	11,405	9,368	9,715	11,997
Total Credits		10,040	11,405	9,368	9,715	11,997
ACCUMULATED CREDITS	6	226,654	238,059	247,427	257,142	269,139
<b>OBLIGATIONS</b>						
Excess Extractions	3	0	0	0	0	0
Total Obligations		0	0	0	0	0
ACCUMULATED OBLIGATIONS	6	0	0	0	0	0
<b>NET ACCUMULATED (CREDIT) OR OBLIGATION</b>						
	6	(226,654)	(238,059)	(247,427)	(257,142)	(269,139)

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 1997 include amounts accumulated through 1996.

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				
		1997	1998	1999	2000	2001
<b>EXTRACTIONS</b>						
Base Right	1	29,633	29,633	29,633	29,633	29,633
Actual Extractions	1	29,128	28,558	33,882	32,308	33,701
ACCUMULATED EXTRACTIONS	6	765,395	793,953	827,835	860,143	893,844
<b>CREDITS</b>						
Extraction	2	505	1,075	0	0	0
Return from imported water		916	980	961	1,151	1,358
Return from Additional Local Water	7	0	0	0	0	0
Total Credits		1,421	2,055	961	1,151	1,358
ACCUMULATED CREDITS	6	88,607	90,662	91,623	92,774	94,132
<b>OBLIGATIONS</b>						
Excess Extractions	3	0	0	4,249	2,675	4,068
New Export	4	0	0	0	0	0
Land Use Conversion	5	579	579	579	579	579
Total Obligations		579	579	4,828	3,254	4,647
ACCUMULATED OBLIGATIONS	6	45,392	45,971	50,799	54,053	58,700
<b>NET ACCUMULATED (CREDIT) OR OBLIGATION</b>						
	6	(43,215)	(44,691)	(40,824)	(38,721)	(35,432)

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 1997 include amounts accumulated through 1996.

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				
		1997	1998	1999	2000	2001
<b>EXTRACTIONS</b>						
Adjusted Right	1	167,238	167,238	167,238	167,238	167,238
Actual Extractions	1	170,491	180,844	167,238	167,238	167,238
less New Export		0	2,284	0	0	0
Adjusted Extractions		170,491	178,560	167,238	167,238	167,238
<b>ACCUMULATED</b>						
EXTRACTIONS	5	4,211,199	4,389,759	4,556,997	4,724,235	4,891,473
<b>CREDITS</b>						
Extraction	2	0	0	0	0	0
Replenishment		0	177	0	4,155	8,655
Return from Imported Water		3,475	3,475	4,635	5,064	5,064
Return from Excess Extractions		1,171	4,076	0	0	0
Total Credits		0	177	0	4,155	8,655
<b>ACCUMULATED</b>						
CREDITS	5	489,978	490,155	490,155	494,310	502,965
<b>OBLIGATIONS</b>						
Excess Extractions	3	3,253	11,322	0	0	0
New Export	4	0	2,284	0	0	0
Total Obligations		3,253	13,606	0	0	0
<b>ACCUMULATED</b>						
OBLIGATIONS	5	210,826	224,432	224,432	224,432	224,432
<b>NET ACCUMULATED (CREDIT)</b>						
OR OBLIGATION	5	(279,152)	(265,723)	(265,723)	(269,878)	(278,533)

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 1996 include amounts accumulated through 1995. See Appendix B for details.

6 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.

7 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.

8 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.

9 Total import of State Project Water by SBVMWD was 12,874 acre-feet. However, 12,792 acre-feet of this amount were delivered directly, and 82 acre-feet were delivered into Colton Basin for replenishment.

10 Total import of State Project Water by SBVMWD was 18,399 acre-feet. However, 14,067 acre-feet of this amount were delivered directly, and 0 acre-feet were delivered into Colton Basin for replenishment.

11a 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.

11b 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.

12a 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.

12b 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.

13a Excludes 27,994 acre-feet of additional water extracted under provisions of the January 6, 1999 12th Amendment and the January 19, 1999 13th Amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

13b Excludes 21,057 acre-feet of additional water extracted under provisions of the January 6, 1999 12th Amendment and the January 19, 1999 13th Amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

14a Excludes 22,401 acre-feet of additional water extracted under provisions of the August 16, 2000 14th Amendment and the August 16, 2000 15th Amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

14b Excludes 16,864 acre-feet of additional water extracted under provisions of the August 16, 2000 14th Amendment and the August 20, 2000 15th Amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

15a Excludes 7,527 acre-feet of additional water extracted under provisions of the February 7, 2001, 16th Amendment and the February 7, 2001, 17th Amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

15b Excludes 11,237 acre-feet of additional water extracted under provisions of the February 7, 2001, 18th Amendment and the February 7, 2001, 17th 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**

		<u>San Bernardino Basin Area</u>	<u>Colton Basin Area</u>	<u>Riverside Basin Area In San Bernardino County</u>	<u>Riverside Basin Area In Riverside County</u>
Accumulated Credits	<b>1</b>	(see Tables 10-13)	61,293	257,142	92,774
Accumulated Obligations	<b>1</b>	--	492	0	54,053
Net Accumulated (Credit) or Obligation		--	(60,801)	(257,142)	(38,721)
REPLENISHMENT REQUIRED		<u>--</u>	<u>0</u>	<u>0</u>	<u>0</u>

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT**

		<u>San Bernardino Basin Area</u>	<u>Colton Basin Area</u>	<u>Riverside Basin Area In San Bernardino County</u>
Accumulated Credits	<b>2</b>	494,310	37,462	0
Accumulated Obligations	<b>2</b>	224,432	0	0
Net Accumulated (Credit) or Obligation	<b>2</b>	(269,878)	(37,462)	0
REPLENISHMENT REQUIRED		<u>0</u>	<u>0</u>	<u>0</u>

**1** Reference Table 16 for Colton and Riverside Basins.

**2** Reference Table 17.