

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 2005

August 1, 2006

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August 1, 2006

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

RE: Watermaster Report for Calendar Year 2005

Gentlemen:

FILED
SUPERIOR COURT OF CALIFORNIA
COUNTY OF RIVERSIDE

AUG 01 2006

W. City

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 2005.

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, 2006, and presents the findings of the Watermaster for Calendar Year 2005 and summarizes the five-year period 2000 through 2004.

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 2000 through 2004 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 2005 pursuant to the requirements of the Judgment.

Respectfully submitted,

WESTERN-SAN BERNARDINO WATERMASTER

By Robert L. Reiter
Robert L. Reiter

John V. Rossi
John V. Rossi

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CHAPTER I
INTRODUCTION

CHAPTER I

INTRODUCTION

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

The Court appointed a Watermaster, composed of two persons, to administer and enforce the provisions of the Judgment and to report annually to the Court and the parties. John V. Rossi was appointed on December 9, 2004, to replace Donald L. Harriger as the representative from WMWD. Robert L. Reiter continues as representative for SBVMWD.

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 2005 includes a description and summary of the work completed during 2005 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 2004. The scope of this report for 2005 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 2005 together with the annual accounting of extractions and deliveries for calendar year 2004.

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

¹ 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.

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

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

⁴ Revised by Watermaster during preparation of the Annual Report for calendar year 1974.

⁵ 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 2004 and are summarized herein. Listings of the verified extractions by each individual owner for calendar year 2004 are assembled in Report of Watermaster, Volumes 1-2004, 1A-2004, 2-2004, 3-2004, and 4-2004.

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 2004 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-2004.

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 2004 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 6-2004.

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 2004 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-2004.

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 2004 in Volume 8 of previous Watermaster reports. The determination for calendar year 2005 is shown in the Report of Watermaster, Volume 8-2004.

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 2004 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, 2004 to October 31, 2005

	Parties Share	USGS Share
<u>Mill Creek near Mentone</u>	\$ 11,300	\$ 0
<u>Santa Ana River near Mentone</u>	14,075	14,075
<u>Plunge Creek near East Highland</u>	19,350	19,350
<u>Devil Canyon Creek near San Bernardino</u>	18,900	8,800
<u>East Twin Creek near Arrowhead Springs</u>	18,590	8,800
<u>City Creek near Highland</u>	14,075	14,075
<u>Warm Creek near San Bernardino</u>	8,800	8,800
<u>San Timoteo Creek near Loma Linda</u>	8,800	8,800
<u>Lone Pine Creek near Keenbrook</u>	8,800	8,800
<u>Cajon Creek below Lone Pine Creek near Keenbrook</u>	8,800	8,800
<u>Lytle Creek at Fontana Union Water Head Gates</u>		
Lytle Creek near Fontana Streamflow	9,625	9,625
Meter — Infiltration Line	2,050	2,050
Weir No. 2 and No. 3 — Head Gate Diversion	10,550	0
20-ft. Weir — Return to Creek	10,550	0
<u>Southern California Edison Lower Power House on Lytle Creek</u>		
20-ft. Weir--Discharge Lower Power House	10,550	0
Parshall Flume--Return to Creek from Afterbay	10,550	0
Fontana Diversion (20-ft. Weir, West)	10,550	0
<u>Lytle Creek at Colton</u>	8,800	8,800
<u>Santa Ana River at E Street</u>	<u>11,250</u>	<u>0</u>
SUBTOTAL FOR PARTIES AND WATERMASTER	\$215,965	
United States Geological Survey		<u>\$120,775</u>
TOTAL		\$336,740

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 2004, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 2004 verifications are included in Report of Watermaster, Volume 1-2004.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the 1959-63 Base Period and calendar years 1971 through 2004 are shown on Table No. 3. The individual work sheets for the 2004 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-2004 and Volume 5-2004.

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:

Calendar Year	Plant No. 1 (Acre-Feet)	Plant No. 2 (Acre-Feet)	Total (Acre-Feet)	RIX (Acre-Feet) San Bernardino and Colton combined flows
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
2002	0	0	0	43,828
2003	0	0	0	45,713
2004	0	0	0	44,382

**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 2	8,350 2	163,186 2	171,342 1
1972	159,628 2	7,599 2	167,227 2	167,238
1973	152,604 3	7,177 3	159,781 3	167,238
1974	153,099 4	5,586 4	158,685 4	167,238
1975	147,199	4,482	151,681	167,238
1976	140,329 5	3,988 5	144,317 5	167,238
1977	139,844	4,967	144,811	167,238
1978	132,439	4,601	137,040	167,238
1979	150,196	4,611	154,807	167,238
1980	153,918 6	5,504	159,422 6	167,238
1981	167,564	5,075	172,639	167,238
1982	148,250 7	4,790	153,040 7	167,238
1983	142,088 8	4,346	146,434 8	167,238
1984	175,605 8	5,203	180,808 8	167,238
1985	172,976 8	4,943 8	177,919 8	167,238
1986	179,842 9	4,892	184,734 9	167,238
1987	168,171	4,330	172,501	167,238
1988	176,770 10	4,655	181,425 10	167,238
1989	168,626 11	4,904	173,530 11	167,238
1990	162,712	4,560	167,272	167,238
1991	162,005	4,342	166,347	167,238
1992	168,700 11	4,213	172,913 11	167,238
1993	174,363 12	4,012	178,375 12	167,238
1994	183,370 13	4,137	187,507 13	167,238
1995	178,046 14	4,125	182,171 14	167,238
1996	185,835 15	3,584	189,419 15	167,238
1997	186,405 16	2,099	188,504 16	167,238
1998	196,897 17	1,960	198,857 17	167,238
1999	192,135 18	3,097	195,232 18	167,238
2000	188,226 19	1,945	190,171 19	167,238
2001	175,155 20	1,678	176,833 20	167,238
2002	173,656 21	1,709	175,365 21	167,238
2003	167,022	2,235	169,257	167,238
2004	194,609	1,416	196,025	167,238

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

- 1 *Adjusted 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.*
- 21 *Includes 1,770 acre-feet pumped to OCWD under February 6, 2002, 18th 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	939,318	14,865	954,183	836,190
1996-00	949,498	12,685	962,183	836,190
1997-01	938,818	10,779	949,597	836,190
1998-02	926,069	10,389	936,458	836,190
1999-03	896,194	10,664	906,858	836,190
2000-04	898,668	8,983	907,651	836,190

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

		Plaintiffs					Total
		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California		
Total Extractions in San Bernardino Basin Area	Adjusted Right	52,199	4,294	7,833	536	64,862	
	1971 Extractions	53,882	4,012	2,902	219	61,015	
	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 San Bernardino Basin Area	Adjusted Right	1,427	0	0	0	1,427	
	1971 Extractions	98	0	0	0	98	
	1972 Extractions	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 Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Right	1,230	2,449	318	0	3,997	
	1971 Extractions	669	2,388	383	0	3,440	
	1972 Extractions	547	2,239	377	0	3,163	
	1973 Extractions	512	1,751	250	0	2,513	
	1974 Extractions	550	1,985	246	0	2,781	
1975 Extractions	498	2,002	168	0	2,668		
Delivery to Area Outside San Bernardino Valley	Adjusted Right	49,542	1,845	7,515	536	59,438	
	1971 Extractions	53,115	1,624	2,519	219	57,477	
	1972 Extractions	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 EXTRACTATIONS FROM THE SAN BERNARDINO BASIN AREA
 FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA
 (All Values in Acre-Feet)

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

		Plaintiffs					Total
		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California		
Total Extractions	Adjusted Right	52,199	4,294	7,833	536	64,862	
in San Bernardino	1981 Extractions	52,157	3,604	3,092	143	58,996	
Basin Area	1982 Extractions	49,599	2,795	3,716	48	56,158	
	1983 Extractions	46,064	3,161	2,651	0	51,876	
	1984 Extractions	58,906	4,759	5,165	0	68,830	
	1985 Extractions	63,073	3,312	5,385	0	71,770	
Delivery to	Adjusted Right	1,427	0	0	0	1,427	
San Bernardino	1981 Extractions	724	0	0	0	724	
Basin Area	1982 Extractions	162	0	0	0	162	
	1983 Extractions	335	0	0	0	335	
	1984 Extractions	32	0	0	0	32	
	1985 Extractions	59	0	0	0	59	
Delivery to Colton	Adjusted Right	1,230	2,449	318	0	3,997	
Basin Area and	1981 Extractions	0	2,151	358	0	2,509	
Riverside Basin Area	1982 Extractions	0	1,775	169	0	1,944	
in San Bernardino	1983 Extractions	0	2,318	245	0	2,563	
County	1984 Extractions	0	2,671	233	0	2,904	
	1985 Extractions	0	1,978	210	0	2,188	
Delivery to Area	Adjusted Right	49,542	1,845	7,515	536	59,438	
Outside	1981 Extractions	51,433	1,453	2,734	143	55,763	
San Bernardino Valley	1982 Extractions	49,437	1,020	3,547	48	54,052	
	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 EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA
 FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA
 (All Values in Acre-Feet)

		Plaintiffs					Total
		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California		
Total Extractions	Adjusted Right	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	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	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	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.

