

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 1992

AUGUST 1, 1993

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
RIVERSIDE COUNTY

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AUG 2 1993

August 1, 1993
ARTHUR A. SIMS, Clerk
V. Cunningham
Deputy

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

RE: Watermaster Report for Calendar Year 1992

Gentlemen:

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1992.

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, 1993, and presents the findings of the Watermaster for Calendar Year 1992 and summarizes the five-year period 1987 through 1991.

During the period 1987 through 1991 the extractions for delivery outside San Bernardino Valley by the Riverside Highland Water Company exceeded the allowable safe yield amount established by the Watermaster in 1971 by 855 acre-feet.

On February 24, 1992, the Court approved a motion to amend the Judgment which changes the manner in which obligations related to New Export are calculated. The motion provided that credit for prior year under-extractions by Plaintiffs from Colton Basin Area, Riverside Basin Area in San Bernardino County and Riverside Basin Area in Riverside County be cumulative from 1971 when the provisions of the Judgment first took effect. The motion further provided that the obligations of the Parties be re-calculated from 1971 using the amended provisions of the Judgment. The annual report for calendar year 1992 includes these changes. Appendix A to the Report contains a copy of the motion approved by the Court. Appendix B to the Report contains copies of tables of Tables 14, 15, 16, and 17 showing the re-calculated values from 1971 to the present.

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 1987 through 1991 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 1992 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 1992

AUGUST 1, 1993

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CHAPTER I
INTRODUCTION

CHAPTER I

INTRODUCTION

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

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

The provisions of the Judgment became effective January 1, 1971; however, progress reports were filed with the Court for calendar years 1969, 1970, and 1971 reporting on the progress of verifications and initial determinations required by the Judgment. The recordation filings obtained from the State Water Resources Control Board and required for determination of annual extractions from the various basins are not available to the Watermaster until seven or eight months after the end of calendar year for which the filings are made. This report for calendar year 1992 includes a description and summary of the work completed during 1992 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 1991. The scope of this report for 1992 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 1992 together with the annual accounting of extractions and deliveries for calendar year 1991.

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

	<u>Watermaster Determination Required by Judgment</u>	<u>Verified for Five Calendar Years Ending with 1963</u>	<u>To Be Determined Annually from and after 1971</u>
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 1991 and are summarized herein. Listings of the verified extractions by each individual owner for calendar year 1991 are assembled in Report of Watermaster, Volumes 1-1991, 1A-1991, 2-1991, 3-1991, and 4-1991.

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 1991 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-1991.

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 1991 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, in Volume 6-1991.

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 1991 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-1991.

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 and Western Municipal Water District.

These data are shown in both tabular and graphical form for calendar years 1963 thru 1991 in Volume 8 of previous Watermaster reports. The determination for calendar year 1992 is shown in the Report of Watermaster Volume 8-1991.

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 1991 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 smaller extractors to review their methods of computing production for annual reports filed with the State Water Resources Control Board.

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

TABLE NO. 1
 COSTS TO THE PARTIES FOR USGS
 SURFACE WATER MEASUREMENTS USED BY
 WESTERN-SAN BERNARDINO WATERMASTER
 October 1, 1991 to September 30, 1992

	Parties Share	USGS Share
<u>Santa Ana River near Mentone</u>	\$ 4,750	\$4,750
<u>Mill Creek Power Canal #1 near Yucaipa</u>	5,700	0
<u>Plunge Creek near East Highland</u>	10,450	10,450
<u>Devil Canyon Creek near San Bernardino</u>	4,750	4,750
<u>East Twin Creek near Arrowhead Springs</u>	5,250	5,250
<u>City Creek near Highland</u>	6,120	6,120
<u>San Timoteo Creek near Loma Linda</u>	8,250	4,750
<u>Lone Pine Creek near Keenbrook</u>	4,750	4,750
<u>Lytle Creek at Fontana Union Head Gates</u>		
Lytle Creek near Fontana Streamflow	6,650	6,650
Weir No. 2--infiltration Line	2,850	2,850
Weir No. 3--Head Gate Diversion	2,850	2,850
Weir No. 4--Breed Line Diversion	2,850	2,850
20-ft. Weir--Return to Creek	5,700	0
<u>Southern California Edison Lower Power House on Lytle Creek</u>		
20-ft. Weir--Discharge Lower Power House	5,700	0
Parshall Flume--Return to Creek from Afterbay	5,700	0
Fontana Diversion (20-ft. Weir, West)	<u>5,700</u>	<u>0</u>
SUBTOTAL FOR PARTIES AND WATERMASTER	\$88,020	
United States Geological Survey		<u>\$56,020</u>
TOTAL		\$144,040

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 1991, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 1991 verifications are included in Report of Watermaster, Volume 1-1991.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the 1959-63 Base Period and calendar years 1971 through 1991 are shown on Table No. 3. The individual work sheets for the 1991 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-1991 and Volume 5-1991.

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.

The discharge to the Santa Ana River upstream from the Bunker Hill Dike 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)
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	10,670	10,670
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

**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	169,425	4,904	174,329	167,238
1990	162,712	4,560	167,272	167,238
1991	162,005	4,342	166,347	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.

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	867,184	23,724	890,908	836,190
1986-90	856,920	23,341	880,261	836,190
1987-91	839,083	22,791	861,874	836,190

* number corrected

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

	Plaintiffs						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	1	4,294	7,833	536		64,862	
Adjusted Right	52,199	4,012	2,902	219		61,015	
1971 Extractions	53,882	4,532	3,527	239		53,992	
1972 Extractions	45,694	3,512	2,979	239		49,752	
1973 Extractions	43,022	4,088	4,504	267		52,226	
1974 Extractions	43,367	4,709	3,950	179		56,800	
1975 Extractions	47,962	0	0	0		1,427	
Adjusted Right	1,427	0	0	0		98	
1971 Extractions	98	0	0	0		85	
1972 Extractions	85	0	0	0		156	
1973 Extractions	156	0	0	0		0	
1974 Extractions	0	0	0	0		0	
1975 Extractions	0	0	0	0		0	
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	
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 and Volume 5.

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

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

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

2 Amount corrected during verification of 1980 extractions.

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

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

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

	Adjusted Right	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	Aqua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California		
Total Extractions in San Bernardino Basin Area	1	52,199	4,294	7,833	536	64,862	
	Adjusted Right						
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	1	1,427	0	0	0	1,427	
	Adjusted Right						
1981 Extractions		724	0	0	0	724	
1982 Extractions		162	2	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 Basin Area and Riverside Basin Area in San Bernardino County	1	1,230	2,449	318	0	3,997	
	Adjusted Right						
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	1	49,542	1,845	7,515	536	59,438	
	Adjusted Right						
1981 Extractions		51,433	1,453	2,734	143	55,763	
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 and Volume 5.

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 Gege Canal Company)	Riverside Highland Water Company	Aqua 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.

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	Aqua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California		
Total Extractions in San Bernardino Basin Area	Adjusted Right 1991 Extractions 1992 Extractions 1993 Extractions 1994 Extractions 1995 Extractions	52,199 52,909	4,294 3,021	7,833 4,426	536 23	64,862 60,379	
Delivery to San Bernardino Basin Area	Adjusted Right 1991 Extractions 1992 Extractions 1993 Extractions 1994 Extractions 1995 Extractions	1,427 155	0 0	0 0	0 0	1,427 155	
Delivery to Cotton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Right 1991 Extractions 1992 Extractions 1993 Extractions 1994 Extractions 1995 Extractions	1,230 0	2,449 1,669	318 190	0 0	3,997 1,859	
Delivery to Area Outside San Bernardino Valley	Adjusted Right 1991 Extractions 1992 Extractions 1993 Extractions 1994 Extractions 1995 Extractions	49,542 52,754	1,845 1,352	7,515 4,236	536 23	59,438 58,365	

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

CHAPTER IV

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

CHAPTER IV

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

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

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

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

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

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

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

ADJUSTED RIGHTS FOR EXTRACTIONS BY PLAINTIFFS
FROM THE SAN BERNARDINO BASIN AREA BASED ON NATURAL
SAFE YIELD OF 232,100 ACRE-FEET PER ANNUM ¹
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 ²	1,427	1,230	49,542 ²
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 ²	0	0	536 ²
TOTAL	64,862	1,427	3,997	59,438

¹ Effective January 1, 1972.

² 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 that basis 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 1991 calendar year have been verified by the Watermaster as 1,835 acre-feet and 18,555 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-1991, Volume 3-1991, and Volume 5-1991 entitled *Verified Extractions From Cotton Basin Area, Verified Extractions From Riverside Basin Area Within San Bernardino County and Distribution of Extractions From the San Bernardino Basin Area, Cotton 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 1991 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-1991, 3-1991 and 5-1991.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for calendar years 1971 through 1991 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 ¹
			Total	Used in San Bernardino County	Used in Riverside County	
Five-Year Base Period 1959-63 Avg.	11,731 3	8,235 3	3,496	115	3,381	3,381
1971	11,388 2	8,363 2	3,025	248	2,777	3,381
1972	10,414	7,532	2,882	271	2,611	3,381
1973	7,844	6,982	862	247	615	3,381
1974	8,906	7,169	1,737	273	1,464	3,381
1975	11,083	6,821	4,262	389	3,873	3,381
1976	11,558 4	8,605 4	2,953	270	2,683	3,381
1977	8,777	6,061	2,716	447	2,269	3,381
1978	7,663	6,430	1,233	338	895	3,381
1979	7,194	5,224	1,970	288	1,682	3,381
1980	5,681 5	5,610 5	71	0	71	3,381
1981	6,348	6,175	173	0	173	3,381
1982	6,499	5,450	1,049	68	981	3,381
1983	4,735 6	4,603 6	132	37	95	3,381
1984	8,987	7,441	1,546	206	1,340	3,381
1985	10,149	7,142	3,007	763	2,244	3,381
1986	10,035	7,651	2,384	784	1,600	3,381
1987	13,175	11,054	2,121	564	1,557	3,381
1988	13,552	11,453	2,099	392	1,707	3,381
1989	14,166 7	11,862 7	2,304	299	2,005	3,381
1990	17,753	15,733	2,020	368	1,652	3,381
1991	14,323	12,282	2,041	206	1,835	3,381

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

² Amount corrected during verification of 1972 extractions.

³ Amount corrected during verification of 1972 and 1973 extractions.

⁴ Amount corrected during verification of 1977 extractions.

⁵ Amount corrected during verification of 1981 extractions.

⁶ Amount corrected during verification of 1984 extractions.

⁷ Amount corrected during verification of 1990 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 ¹
			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 ²	6,836	16,905
1984-88	55,898	44,741	11,157	2,709	8,448	16,905
1985-89	51,042	41,511	9,531	2,802	9,113	16,905
1986-90	68,681	57,753	10,928	2,407	8,521	16,905
1987-91	72,969	62,384	10,585	1,829	8,756	16,905

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

² Number corrected during verification of 1990 extractions.

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

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

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

² Amounts corrected during verification of 1981 extractions.

³ Amounts corrected during verification of 1984 extractions.

⁴ Amounts corrected during verification of 1986 extractions.

⁵ Amounts corrected during verification of 1987 extractions.

⁶ Amounts corrected during verification of 1988 extractions.

⁷ Amounts corrected during verification of 1989 extractions.

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 ¹
			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

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

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-21Q3, 1S/4W-29H1, and 1S/4W-29Q1 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 1992 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 8-1991 entitled *Ground Water Surface Elevations in Wells Numbered 1S14W-21Q3, 1S14W-29H1, and 1S14W-29Q1 Located Within the Colton Basin Area and Riverside Basin Area in San Bernardino County through December, 1992.*

The lowest static water surface elevation measured in each of the three wells during the fall of 1992 is as follows:

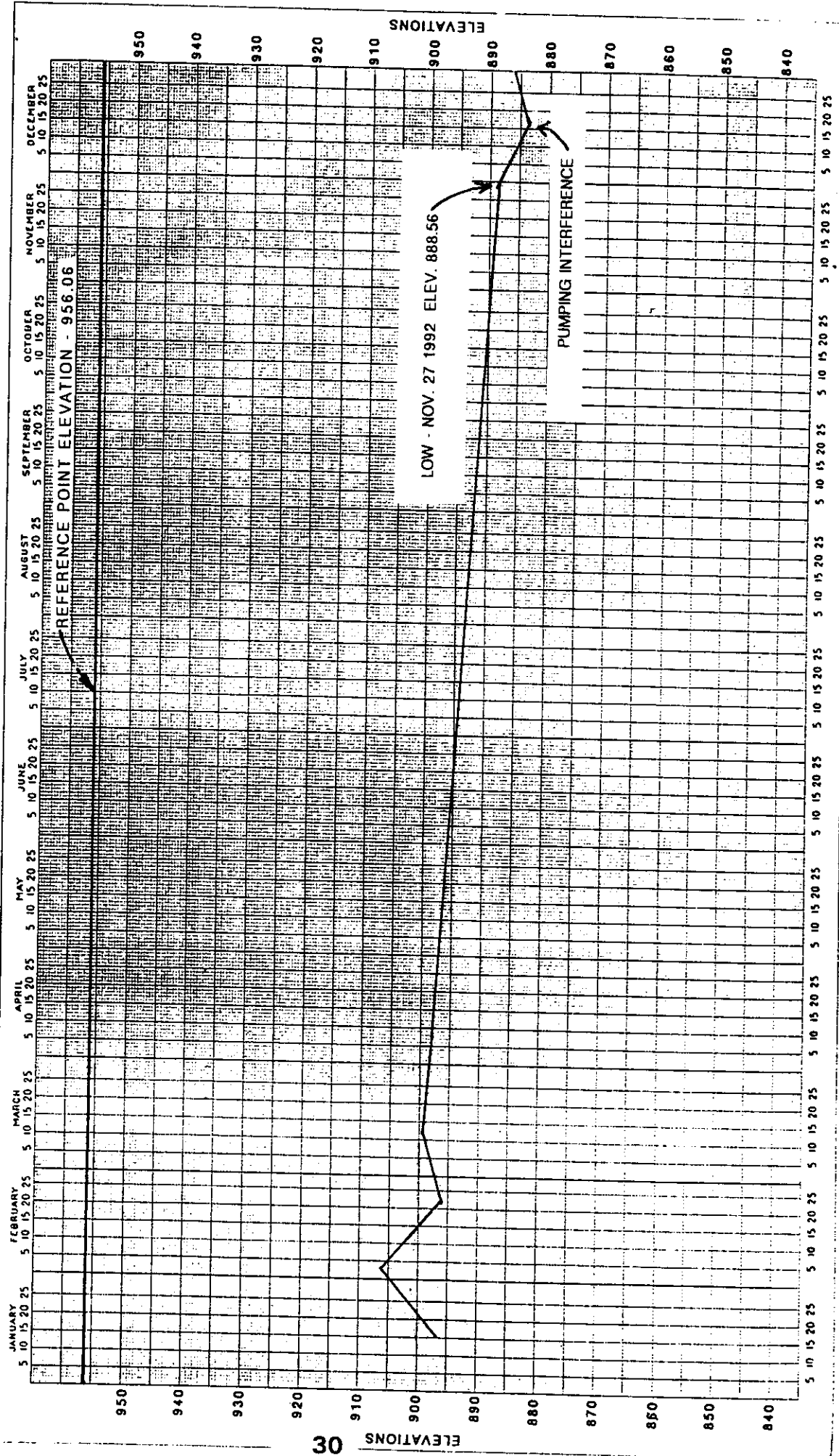
Well Number	Date of Measurement	Elevation of Water Surface
1S/4W-21Q3	Nov 27	888.56
1S/4W-29H1	Dec 15	873.18
1S/4W-29Q1	Dec 15	<u>857.53</u>
	Average	873.09

Thus, the lowest average fall water surface elevation for calendar year 1992 is 11.28 feet lower than the 1991 average of 884.37 and 51.05 feet higher than the 1963 average of 822.04.

GROUNDWATER SURFACE ELEVATIONS JOHNSON NO.1 WELL

STATE WELL NUMBER
RECORDATION NUMBER
BASIN
OWNER

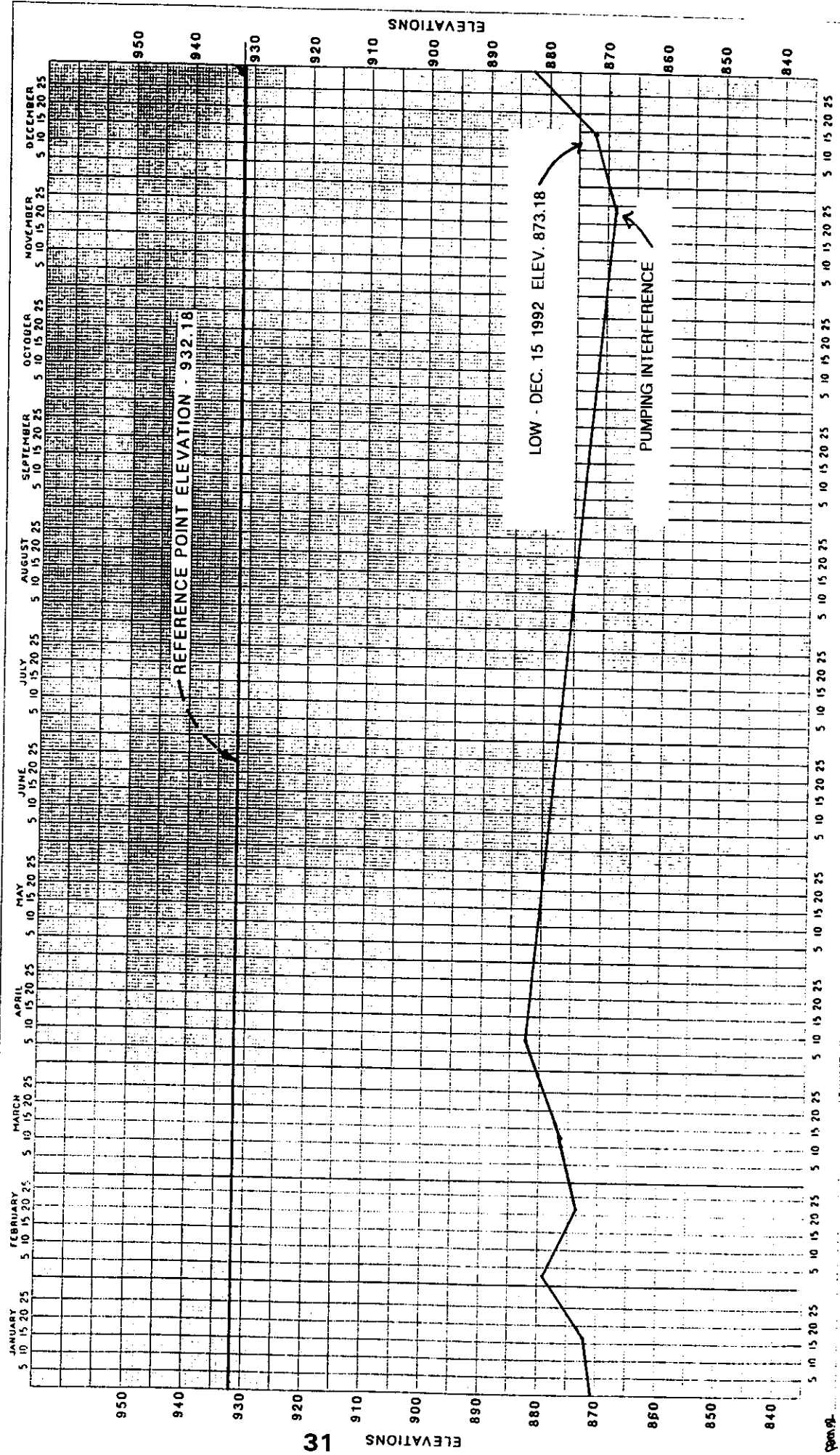
1S/4W - 21Q3
36-01480
COLTON
CITY OF RIVERSIDE



GROUNDWATER SURFACE ELEVATIONS FLUME NO. 2 WELL

STATE WELL NUMBER
RECORDATION NUMBER
BASIN
OWNER

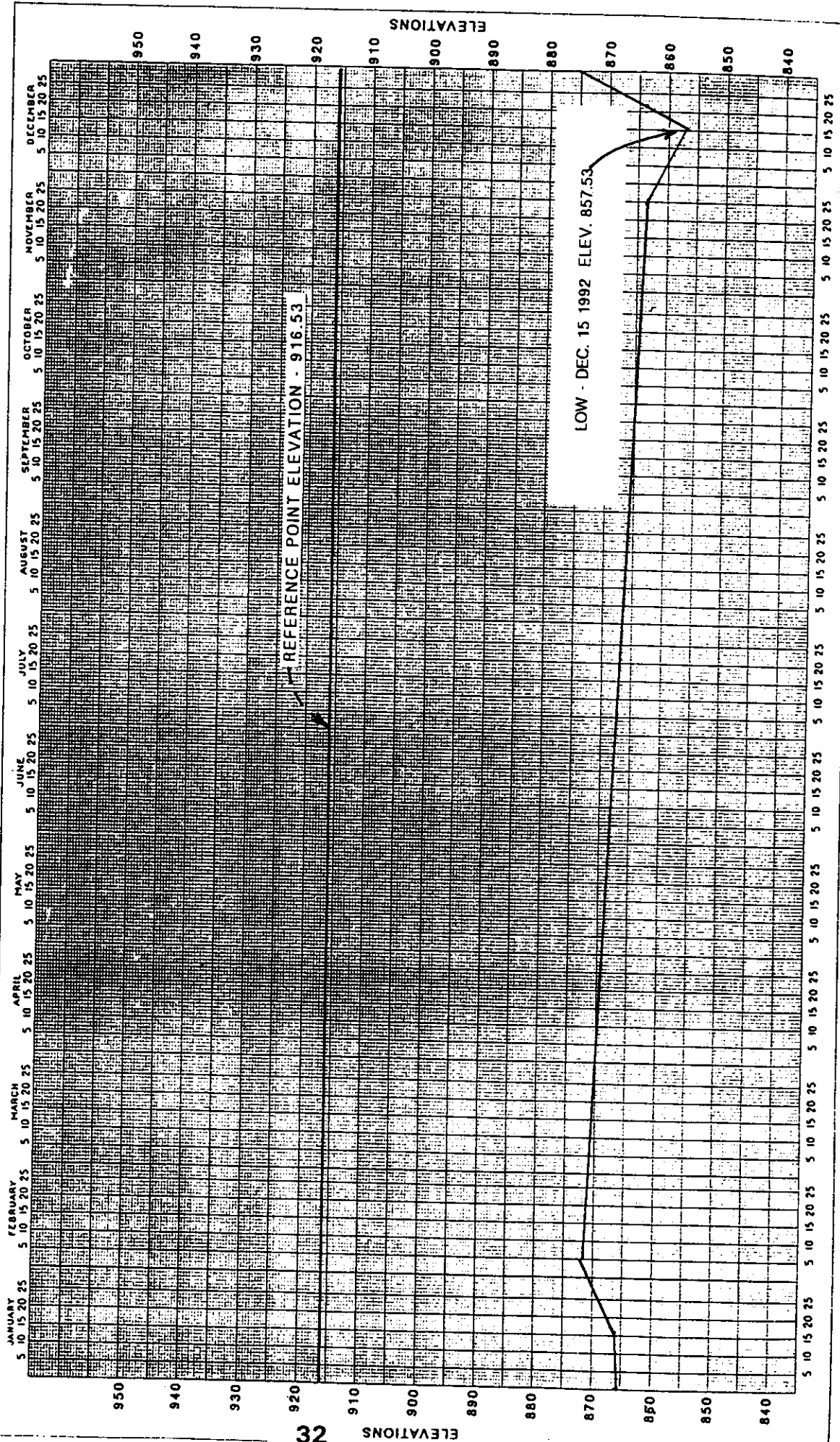
IS/4W - 29H1
36-01484
RIVERSIDE
CITY OF RIVERSIDE



GROUNDWATER SURFACE ELEVATION FLUME NO. 5 WELL

STATE WELL NUMBER
RECORDATION NUMBER
BASIN
OWNER

1S14W - 21C
36-01487
RIVERSIDE
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 1991 have been verified by the Watermaster as 29,300 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-1991 entitled *Verified Extractions from Riverside Basin Area Within Riverside County* and are summarized in Table No. 6 following.

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

Calendar Year	Total Verified Extractions	Base Right for Use in Riverside County
Five-Year Base Period 1959-63 Avg.	29,633	29,633
1971	30,942 1	29,633
1972	37,804 2	29,633
1973	33,094	29,633
1974	38,304 2	29,633
1975	28,285	29,633
1976	31,565	29,633
1977	28,226	29,633
1978	24,878 3	29,633
1979	25,512	29,633
1980	30,206 4	29,633
1981	30,243 4	29,633
1982	20,365 5	29,633
1983	22,991 5	29,633
1984	32,466 6	29,633
1985	23,970 7	29,633
1986	24,549 8	29,633
1987	24,202 9	29,633
1988	24,470 9	29,633
1989	34,417 9	29,633
1990	31,760 9	29,633
1991	29,300	29,633

1 Amount corrected during verification of 1972 extractions.

2 These extractions exceeded the Base Right plus peaking allowance of 20% by 2,244 acre-feet in 1972 and 2744 acre-feet in 1974.

3 Amount corrected during verification of 1980 extractions.

4 Amount corrected during verification of 1983 extractions.

5 Amount corrected during verification of 1984 extractions.

6 Amount corrected during verification of 1985 extractions.

7 Amount corrected during verification of 1986 extractions.

8 Amount corrected during verification of 1987 extractions.

9 Amount corrected during verification of 1991 extractions.

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

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

Calendar Year	Total Verified Extractions	Base Right for Use in Riverside County
Five-Year Base Period 1959-63 Avg.	148,165	148,165
1971-75	168,429	148,165
1972-76	169,052	148,165
1973-77	159,474	148,165
1974-78	151,258	148,165
1975-79	138,466	148,165
1976-80	140,387	148,165
1977-81	139,065	148,165
1978-82	131,204	148,165
1979-83	129,317	148,165
1980-84	136,271	148,165
1981-85	130,035	148,165
1982-86	124,341	148,165
1983-87	128,178	148,165
1984-88	129,657	148,165
1985-89	131,608	148,165
1986-90	139,398	148,165
1987-91	144,149	148,165

Return Flows

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

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

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

The service areas of the companies listed in Table D-5 were investigated and prints of January 30, 1992 air photos were obtained. These photos showing the 1991 irrigated acreage were compared to the 1968 maps used to determine the acreages shown on Table D-5. This comparison indicated those lands no longer being irrigated and the

present use of the converted land. Additional study of these converted lands indicated the date irrigation ceased and the date such lands were connected to a sewage disposal system discharging to the river below Riverside Narrows.

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 1987 through 1991 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
1987	226	38	281	0	545
1988	249	38	281	0	568
1989	249	38	282	0	569
1990	251	38	282	0	571
1987 TOTAL	257	38	284	0	579
1987-91	1,232	190	1,410	0	2,832

Table No. 7 shows that in 1991 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 1991 were verified by the Watermaster to be 46,606 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 6-1991, 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				
		1987 Verified Delivery	1988 Verified Delivery	1989 Verified Delivery	1990 Verified Delivery	
City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company	23,836	24,444	24,666	39,038	38,894	32,724
Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water received from City of Riverside	13,229	5,500	5,412	5,307	3,057	4,723
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	671	1,817	833	881	691
Jurupa Community Services District	531	0	1	397	277	203
Rubidoux Community Services District	36	246	267	266	248	253
TOTAL	42,535	30,861	32,163	45,841	43,357	38,594

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

1 Amounts corrected during verification of 1989 extractions.

2 Amounts corrected during verification of 1990 extractions.

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 1991 were verified by the Watermaster to be 19,027 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 1991 calendar year indicated that during 1991 San Bernardino Valley Municipal Water District diverted 1,166 acre-feet of water from Mill Creek and delivered such water to the Yucaipa Basin as shown on Table No. 9. During 1991, 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					
		1987 Verified Delivery	1988 Verified Delivery	1989 Verified Delivery	1990 Verified Delivery		
Fontana Union Water Company	10,170	1	19,907	19,684	12,531	11,611	11,546
West San Bernardino County Water District	1,806		4,828	5,742	3	6,079	6,500
City of Rialto	551	1	1,370	1,204	1,146	1,745	981
Subtotal (Delivery to Chino Basin)	12,527		26,105	26,630	3	19,756	19,027
San Bernardino Valley Municipal Water District	0		1,527	2	1,800	2	1,166
Subtotal (Delivery to areas other than Chino Basin)	0		1,527	1,800	1,048	117	1,166
TOTAL	12,527	1	27,632	28,430	3	20,804	20,193

1 Amount corrected during verification of 1973 deliveries.

2 Water diverted from Mill Creek and delivered to the Yucaipa Regional Park or Wilson Spreading Basins by SBVWWD.

3 Amount corrected during verification of 1988 deliveries.

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

CHAPTER IX

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

CHAPTER IX

ANNUAL ACCOUNTING OF EXTRACTIONS, DELIVERIES, AND REPLENISHMENT OBLIGATIONS

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

Plaintiffs' Extractions from San Bernardino Basin Area

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

In accordance with paragraph VI(b)6 of the Judgment, San Bernardino Valley Municipal Water District and Western Municipal Water District have entered into agreements on December 22, 1981, February 25, 1985, and August 21, 1985 which provide for additional extraction and exportation of water from the San Bernardino Basin Area. The 1981 agreement and its amendments provide for the City of Riverside to extract and export up to 15,000 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 and 1991.

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 1987 through 1991, the Non-Plaintiffs' production did exceed the Adjusted Right. (See Table 17)

A comparison of Adjusted Rights to actual production by Plaintiffs and Non-Plaintiffs for the period 1987 through 1991 is as follows:

	(All Values in Acre-Feet)		
	Adjusted Right 1987-1991	Actual Extractions	Difference
Plaintiffs	324,310	292,896	31,414
Non-Plaintiffs	836,190	863,511	(27,321)
TOTAL	1,160,500	1,156,407	4,093

Exports to Areas Not Tributary to Riverride 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 1971 through 1991 the export by entities within Western was 121,413 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 1991 by 191,048 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, and 1991 has been excluded from amounts of export shown on Table 14. The additional water extracted by Non-Plaintiffs in 1985, 1987, and 1988 has not been excluded from the amount of export shown on Table 15; however, the 10,681 acre-feet, the 5,263 acre-feet and the 11,487 acre-feet of additional water extracted by Non-Plaintiffs in 1985, 1987, and

1988, respectively, have been excluded from the computation of new export on Table 17 (See Footnotes 13, 15, and 17).

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 five-year period 1987 through 1991 were 50,367 acre-feet less than the total five-year Base Right. This under-extraction results in extraction credits for the period 1971 through 1991 as shown on Table 16.

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 52,039 acre-feet.

Since actual extractions have not exceeded the Base Right during the period 1987 through 1991, 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 1987 through 1991 has resulted in an obligation of 2,832 acre-feet. (See Table 7) Therefore, Western's total accumulated obligation during the period 1987 through 1991 is 2,832 acre-feet.

In summary, Table 16 shows that during the five-year period 1987 through 1991 Western's accumulated credits exceeded its accumulated obligation by 49,207 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 1987.

As indicated previously, the actual extractions from the San Bernardino Basin Area were greater than the Adjusted Right during the period 1987 through 1991. The actual extractions for 1991 were less than the annual Adjusted Right; therefore, the extraction credit for 1991 was 8,557 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 1991 total 454,028 acre-feet.

The accumulated obligation resulting from excess extractions and new export during the period 1971 through 1991 is 167,060 acre-feet as shown on Table 17.

In summary, Table 17 shows that at the end of the five-year period 1987 through 1991 San Bernardino Valley's accumulated credits exceeded its accumulated obligations by 286,968 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 1987 through 1991 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 1987 through 1991.

In summary, Table 18 shows that Western is not required to provide additional replenishment for obligations incurred during the five-year period 1987 through 1991.

TABLE NO. 10
 ANNUAL ACCOUNTING OF EXTRACTIIONS 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
1971	53,448	69,482	53,882	1,462	1,901	98	1,260	1,638	669	50,726	65,944	53,115
1972	52,199	67,859	45,694	1,427	1,855	85	1,230	1,599	547	49,542	64,405	45,062
1973	52,199	67,859	43,022	1,427	1,855	156	1,230	1,599	512	49,542	64,405	42,354
1974	52,199	67,859	43,367	1,427	1,855	0	1,230	1,599	550	49,542	64,405	42,817
1975	52,199	67,859	47,962	1,427	1,855	0	1,230	1,599	498	49,542	64,405	47,464
1976	52,199	67,859	51,374	1,427	1,855	0	1,230	1,599	523	49,542	64,405	50,851
1977	52,199	67,859	50,999	1,427	1,855	0	1,230	1,599	346	49,542	64,405	50,653
1978	52,199	67,859	45,384	1,427	1,855	646	1,230	1,599	301	49,542	64,405	44,437
1979	52,199	67,859	52,377	1,427	1,855	0	1,230	1,599	415	49,542	64,405	51,962
1980	52,199	67,859	50,756	1,427	1,855	383	1,230	1,599	0	49,542	64,405	50,373
1981	52,199	67,859	52,157	1,427	1,855	724	1,230	1,599	0	49,542	64,405	51,433
1982	52,199	67,859	49,599	1,427	1,855	162	1,230	1,599	0	49,542	64,405	49,437
1983	52,199	67,859	46,064	1,427	1,855	335	1,230	1,599	0	49,542	64,405	45,729
1984	52,199	67,859	58,906	1,427	1,855	32	1,230	1,599	0	49,542	64,405	58,874
1985	52,199	67,859	63,073	1,427	1,855	59	1,230	1,599	0	49,542	64,405	63,014
1986	52,199	67,859	59,979	1,427	1,855	437	1,230	1,599	0	49,542	64,405	59,542
1987	52,199	67,859	57,841	1,427	1,855	334	1,230	1,599	0	49,542	64,405	57,507
1988	52,199	67,859	64,512	1,427	1,855	815	1,230	1,599	0	49,542	64,405	63,697
1989	52,199	67,859	50,784	1,427	1,855	28	1,230	1,599	0	49,542	64,405	50,756
1990	52,199	67,859	47,637	1,427	1,855	19	1,230	1,599	0	49,542	64,405	47,618
1991	52,199	67,859	52,909	1,427	1,855	155	1,230	1,599	0	49,542	64,405	52,754

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.

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

TABLE NO. 10

ANNUAL ACCOUNTING OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA AND DELIVERIES TO EACH SERVICE AREA BY THE CITY OF RIVERSIDE (INCLUDING THOSE RIGHTS ACQUIRED AS SUCCESSOR TO THE RIVERSIDE WATER COMPANY AND THE GAGE CANAL COMPANY) (All Quantities in Acre-Feet)

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Allowable 2	Actual 3	Adjusted Right	Allowable 2	Actual 3	Adjusted Right	Allowable 2	Maximum	Adjusted Right	Allowable 2	Maximum
1971-75	262,244	262,244	233,927	7,170	7,170	339	6,180	6,180	6,180	248,894	248,984	230,812
1972-76	260,995	260,995	231,419	7,135	7,135	241	6,150	6,150	6,150	247,710	247,710	228,548
1973-77	260,995	260,995	236,724	7,135	7,135	156	6,150	6,150	6,150	247,710	247,710	234,139
1974-78	260,995	260,995	239,086	7,135	7,135	646	6,150	6,150	6,150	247,710	247,710	236,222
1975-79	260,995	260,995	248,096	7,135	7,135	646	6,150	6,150	6,150	247,710	247,710	245,367
1976-80	260,995	260,995	250,890	7,135	7,135	1,029	6,150	6,150	6,150	247,710	247,710	248,276
1977-81	260,995	260,995	251,673	7,135	7,135	1,753	6,150	6,150	6,150	247,710	247,710	248,858
1978-82	260,995	260,995	249,125	7,135	7,135	1,915	6,150	6,150	6,150	247,710	247,710	246,494
1979-83	260,995	260,995	249,805	7,135	7,135	1,604	6,150	6,150	6,150	247,710	247,710	247,786
1980-84	260,995	260,995	256,258	7,135	7,135	1,636	6,150	6,150	6,150	247,710	247,710	254,622
1981-85	260,995	260,995	245,771	7,135	7,135	1,312	6,150	6,150	6,150	247,710	247,710	244,459
1982-86	260,995	260,995	244,741	7,135	7,135	1,025	6,150	6,150	6,150	247,710	247,710	243,716
1983-87	260,995	260,995	245,018	7,135	7,135	1,197	6,150	6,150	6,150	247,710	247,710	243,821
1984-88	260,995	260,995	249,341	7,135	7,135	1,677	6,150	6,150	6,150	247,710	247,710	247,664
1985-89	260,995	260,995	250,551	7,135	7,135	1,673	6,150	6,150	6,150	247,710	247,710	248,878
1986-90	260,995	260,995	248,587	7,135	7,135	1,633	6,150	6,150	6,150	247,710	247,710	246,954
1987-91	260,995	260,995	248,305	7,135	7,135	1,351	6,150	6,150	6,150	247,710	247,710	246,954
Excess												
1987-91	(12,690)	*	(5,784)	*	(6,150)	*	(756)	*				

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 47.
 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 47.
 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 47.
 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 47.
 9 Excludes the 76 acre-feet in 1983, the 9,332 acre-feet in 1984, the 13,472 acre-feet in 1985, the 10,000 acre-feet in 1986, and the 7,965 acre-feet in 1987 of allowable additional extraction. See Footnotes 7, 8, 9, 10, and 11 on Page 47.
 10 Excludes the 9,332 acre-feet in 1984, 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 8, 9, 10, 11, and 12 on Page 47.
 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 47.
 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 47.
 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 47.
 * Parentheses indicate that actual extractions are less than Adjusted Right
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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	Allowable	Maximum	Actual	Adjusted Right	Allowable	Maximum	Adjusted Right	Allowable	Maximum	Adjusted Right	Allowable	Maximum
1971	4,399	4	5,719	4,012	1	4	1	2,509	4	3,262	1,890	4	2,457
1972	4,294	0	5,582	4,532	0	0	0	2,449	0	3,184	1,845	0	2,398
1973	4,294	0	5,582	3,512	0	0	0	2,449	0	3,184	1,845	0	2,398
1974	4,294	0	5,582	4,088	0	0	0	2,449	0	3,184	1,845	0	2,398
1975	4,294	0	5,582	4,709	0	0	0	2,449	0	3,184	1,845	0	2,398
1976	4,294	0	5,582	4,519	0	0	0	2,449	0	3,184	1,845	0	2,398
1977	4,294	0	5,582	3,583	0	0	0	2,449	0	3,184	1,845	0	2,398
1978	4,294	0	5,582	1,350	0	0	0	2,449	0	3,184	1,845	0	2,398
1979	4,294	0	5,582	3,369	0	0	0	2,449	0	3,184	1,845	0	2,398
1980	4,294	0	5,582	3,677	0	0	0	2,449	0	3,184	1,845	0	2,398
1981	4,294	0	5,582	3,604	0	0	0	2,449	0	3,184	1,845	0	2,398
1982	4,294	0	5,582	2,795	0	0	0	2,449	0	3,184	1,845	0	2,398
1983	4,294	0	5,582	3,161	0	0	0	2,449	0	3,184	1,845	0	2,398
1984	4,294	0	5,582	4,759	0	0	0	2,449	0	3,184	1,845	0	2,398
1985	4,294	0	5,582	3,312	0	0	0	2,449	0	3,184	1,845	0	2,398
1986	4,294	0	5,582	4,744	0	0	0	2,449	0	3,184	1,845	0	2,398
1987	4,294	0	5,582	3,919	0	0	0	2,449	0	3,184	1,845	0	2,398
1988	4,294	0	5,582	4,775	0	0	0	2,449	0	3,184	1,845	0	2,398
1989	4,294	0	5,582	4,681	0	0	0	2,449	0	3,184	1,845	0	2,398
1990	4,294	0	5,582	4,092	0	0	0	2,449	0	3,184	1,845	0	2,398
1991	4,294	0	5,582	3,021	0	0	0	2,449	0	3,184	1,845	0	2,398

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

- 1 Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.
- 2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right
- 3 Actual verified extractions from Table No. 3 of Watermaster Report.
- 4 Adjusted Right was not effective until January 1, 1972; thus the Base Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment

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

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

(All Quantities in Acre-Feet)

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	21,575	21,575	20,853	1	1	0	12,305	12,305	10,365	9,270	9,270	10,488
1972-76	21,470	21,470	21,360	0	0	0	12,245	12,245	10,027	9,225	9,225	11,333
1973-77	21,470	21,470	20,411	0	0	0	12,245	12,245	9,608	9,225	9,225	10,803
1974-78	21,470	21,470	18,249	0	0	0	12,245	12,245	8,908	9,225	9,225	9,341
1975-79	21,470	21,470	17,530	0	0	0	12,245	12,245	8,704	9,225	9,225	8,826
1976-80	21,470	21,470	16,498	0	0	0	12,245	12,245	8,762	9,225	9,225	7,736
1977-81	21,470	21,470	15,583	0	0	0	12,245	12,245	8,863	9,225	9,225	6,720
1978-82	21,470	21,470	14,795	0	0	0	12,245	12,245	8,818	9,225	9,225	5,977
1979-83	21,470	21,470	16,806	0	0	0	12,245	12,245	10,085	9,225	9,225	6,521
1980-84	21,470	21,470	17,996	0	0	0	12,245	12,245	10,975	9,225	9,225	7,021
1981-85	21,470	21,470	17,631	0	0	0	12,245	12,245	10,893	9,225	9,225	6,738
1982-86	21,470	21,470	18,771	0	0	0	12,245	12,245	10,872	9,225	9,225	7,899
1983-87	21,470	21,470	19,895	0	0	0	12,245	12,245	11,326	9,225	9,225	8,569
1984-88	21,470	21,470	21,509	0	0	0	12,245	12,245	11,237	9,225	9,225	10,272
1985-89	21,470	21,470	21,431	0	0	0	12,245	12,245	10,534	9,225	9,225	10,897
1986-90	21,470	21,470	22,211	0	0	0	12,245	12,245	10,869	9,225	9,225	11,342
1987-91	21,470	21,470	20,488	0	0	0	12,245	12,245	10,408	9,225	9,225	10,080
Excess Extraction												
1987-91		(982)		0	*			(1,837)	*		855	*

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. 12
 ANNUAL ACCOUNTING OF EXTRACTIIONS FROM THE SAN BERNARDINO BASIN AREA
 AND DELIVERIES TO EACH SERVICE AREA BY
 AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY

(All Quantities in Acre-Feet)

Calendar Year	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Allowable 2	Actual 3	Adjusted Right	Allowable 2	Actual 3	Adjusted Right	Allowable 2	Actual 3	Adjusted Right	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

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

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

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

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

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

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

TABLE NO. 12

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

Calendar Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	39,358	39,358	17,862	0	0	0	1,597	1,597	1,424	37,760	37,760	16,438
1972-76	39,165	39,165	20,353	0	0	0	1,590	1,590	1,223	37,575	37,575	19,130
1973-77	39,165	39,165	21,046	0	0	0	1,590	1,590	992	37,575	37,575	20,054
1974-78	39,165	39,165	20,321	0	0	0	1,590	1,590	903	37,575	37,575	19,418
1975-79	39,165	39,165	19,747	0	0	0	1,590	1,590	823	37,575	37,575	18,924
1976-80	39,165	39,165	18,130	0	0	0	1,590	1,590	978	37,575	37,575	17,152
1977-81	39,165	39,165	15,829	0	0	0	1,590	1,590	1,154	37,575	37,575	14,675
1978-82	39,165	39,165	15,325	0	0	0	1,590	1,590	1,177	37,575	37,575	14,148
1979-83	39,165	39,165	15,722	0	0	0	1,590	1,590	1,261	37,575	37,575	14,461
1980-84	39,165	39,165	16,957	0	0	0	1,590	1,590	1,328	37,575	37,575	15,629
1981-85	39,165	39,165	20,009	0	0	0	1,590	1,590	1,215	37,575	37,575	18,794
1982-86	39,165	39,165	22,487	0	0	0	1,590	1,590	1,091	37,575	37,575	21,396
1983-87	39,165	39,165	23,685	0	0	0	1,590	1,590	1,115	37,575	37,575	22,570
1984-88	39,165	39,165	26,000	0	0	0	1,590	1,590	1,103	37,575	37,575	24,897
1985-89	39,165	39,165	26,227	0	0	0	1,590	1,590	1,110	37,575	37,575	25,117
1986-90	39,165	39,165	24,693	0	0	0	1,908	1,908	983	37,575	37,575	23,710
1987-91	39,165	39,165	23,549	0	0	0	1,908	1,908	939	37,575	37,575	22,610
Excess Extraction 1987-91		(15,616) *			0 *			(651) *			(14,965) *	

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 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 Year	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971	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

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.

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

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 Years	Verified Extractions from the San Bernardino Basin Area			Delivery to San Bernardino Basin Area			Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			Delivery to Areas Outside San Bernardino Valley		
	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual	Adjusted Right	Maximum Allowable	Actual
1971-75	2,725	2,725	1,143	0	0	0	0	0	0	2,725	2,725	1,143
1972-76	2,680	2,680	1,169	0	0	0	0	0	0	2,680	2,680	1,169
1973-77	2,680	2,680	1,017	0	0	0	0	0	0	2,680	2,680	1,017
1974-78	2,680	2,680	961	0	0	0	0	0	0	2,680	2,680	961
1975-79	2,680	2,680	777	0	0	0	0	0	0	2,680	2,680	777
1976-80	2,680	2,680	605	0	0	0	0	0	0	2,680	2,680	605
1977-81	2,680	2,680	503	0	0	0	0	0	0	2,680	2,680	503
1978-82	2,680	2,680	464	0	0	0	0	0	0	2,680	2,680	464
1979-83	2,680	2,680	281	0	0	0	0	0	0	2,680	2,680	281
1980-84	2,680	2,680	198	0	0	0	0	0	0	2,680	2,680	198
1981-85	2,680	2,680	191	0	0	0	0	0	0	2,680	2,680	191
1982-86	2,680	2,680	96	0	0	0	0	0	0	2,680	2,680	96
1983-87	2,680	2,680	243	0	0	0	0	0	0	2,680	2,680	243
1984-88	2,680	2,680	422	0	0	0	0	0	0	2,680	2,680	422
1985-89	2,680	2,680	484	0	0	0	0	0	0	2,680	2,680	484
1986-90	2,680	2,680	579	0	0	0	0	0	0	2,680	2,680	579
1987-91	2,680	2,680	554	0	0	0	0	0	0	2,680	2,680	554
Excess Extraction												
1987-91		(2,126)	*		0	*		0	*		(2,126)	*

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. 14

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

EXPORTS		Calendar Years				
		1987	1988	1989	1990	1991
Adjusted Right		42,535	42,535	42,535	42,535	42,535
Actual Export	1	30,861	32,163	45,841	43,357	38,594
ACCUMULATED EXPORT	3	611,867	644,030	689,871	687,387	728,465
OBLIGATIONS						
New Export	2	(11,674)	(10,372)	3,306	822	(3,941)
ACCUMULATED NEW EXPORT	3	(111,228)	(121,600)	(118,294)	(117,472)	(121,413)

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 1987 include amounts accumulated through 1986.

TABLE NO. 15

ANNUAL ACCOUNTING FOR
 SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
 EXPORT OF EXTRACTATIONS 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				
	1987	1988	1989	1990	1991
EXPORTS					
Adjusted Right	12,527	12,527	12,527	12,527	12,527
Actual Export ¹	27,632	28,430	20,804	19,873	20,193
ACCUMULATED EXPORT	364,815 ³	393,245	414,049	433,922	454,115
OBLIGATIONS					
New Export ²	15,105	15,903 ⁴	8,277 ⁵	7,346	7,666
ACCUMULATED NEW EXPORT	151,856 ³	167,759	176,036	183,382	191,048

¹ See Table 9 of Watermaster Report

² Actual Export minus Adjusted Right.

³ Accumulated values beginning in 1986 include amounts accumulated through 1984.

⁴ Includes 5,263 acre-feet of additional water extracted under provisions of the May 20, 1987 amendment to the December 22, 1981 Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

⁵ Includes 11,487 acre-feet of additional water extracted under provisions of the January 20, 1988 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				
		1987	1988	1989	1990	1991
EXTRACTIONS						
Adjusted Right	1	3,381	3,381	3,381	3,381	3,381
Actual Extractions	1	2,121	2,099	2,304	2,020	2,041
ACCUMULATED EXTRACTIONS	6	32,123	34,222	36,526	38,546	40,587
CREDITS						
Extraction	2	1,260	1,282	1,077	1,361	1,340
Total Credits		1,260	1,282	1,077	1,361	1,340
ACCUMULATED CREDITS	6	26,235	27,517	28,594	29,955	31,295
OBLIGATIONS						
Excess Extractions	3	0	0	0	0	0
Total Obligations		0	0	0	0	0
ACCUMULATED OBLIGATIONS	6	881	881	881	881	881
NET ACCUMULATED (CREDIT) OR OBLIGATION	6	(25,354)	(26,636)	(27,713)	(29,074)	(30,414)

1 See Tables 4, 5, and 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 Number not used.

5 See Table 7.

6 Accumulated values beginning in 1987 include amounts accumulated through 1986.

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				
		1987	1988	1989	1990	1991
EXTRACTIONS						
Adjusted Right	1	21,085	21,085	21,085	21,085	21,085
Actual Extractions	1	8,429	9,698	17,776	18,499	21,539
ACCUMULATED EXTRACTIONS	6	236,400	246,098	263,874	282,373	303,912
CREDITS						
Extraction	2	12,656	11,387	3,309	2,586	0
Total Credits		12,656	11,387	3,309	2,586	0
ACCUMULATED CREDITS	6	122,045	133,432	136,741	139,327	139,327
OBLIGATIONS						
Excess Extractions	3	0	0	0	0	454
Total Obligations		0	0	0	0	454
ACCUMULATED OBLIGATIONS	6	0	0	0	0	454
NET ACCUMULATED (CREDIT) OR OBLIGATION						
	6	(122,045)	(133,432)	(136,741)	(139,327)	(138,873)

1 See Tables 4, 5, and 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 Number not used.

5 See Table 7.

6 Accumulated values beginning in 1987 include amounts accumulated through 1986.

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				
		1987	1988	1989	1990	1991
EXTRACTIONS						
Adjusted Right	1	29,633	29,633	29,633	29,633	29,633
Actual Extractions	1	24,202	24,470	34,417	31,760	29,300
ACCUMULATED EXTRACTIONS	6	487,602	512,072	546,489	578,249	607,549
CREDITS						
Extraction	2	5,431	5,163	0	0	333
Return from imported water		505	310	380	256	221
Return from Additional Local Water	7	0	0	0	0	980
Total Credits		5,936	5,473	380	256	1,534
ACCUMULATED CREDITS	6	59,078	64,551	64,931	65,187	66,721
OBLIGATIONS						
Excess Extractions	3	0	0	4,784	2,127	0
New Export	4	0	0	0	0	0
Land Use Conversion	5	545	568	569	571	579
Total Obligations		545	568	5,353	2,698	579
ACCUMULATED OBLIGATIONS	6	32,720	33,288	38,641	41,339	41,918
NET ACCUMULATED (CREDIT) OR OBLIGATION						
	6	(26,358)	(31,263)	(26,290)	(23,848)	(24,803)

1 See Tables 4, 5, and 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 1987 include amounts accumulated through 1986.

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									
		1987		1988		1989		1990		1991	
EXTRACTIONS											
Adjusted Right	1	167,238		167,238		167,238		167,238		167,238	
Actual Extractions	1	167,238	15	167,238	17	174,329		167,272		166,347	
less New Export		9,842	15	1,716	17	8,277		7,346		7,666	
Adjusted Extractions		157,396		165,522		166,052		159,926		158,681	
ACCUMULATED											
EXTRACTIONS	5	2,569,916		2,735,438		2,901,490		3,061,416		3,220,097	
CREDITS											
Extraction	2	9,842		1,716		1,186		7,312		8,557	
Replenishment		9,776	7	5,461	8	4,454	9	6,994	10	1,064	11
Return from Imported Water		1,614		2,062		3,819		62		679	
Return from Excess Extractions		0		0		0		0		0	
Total Credits		19,618		7,177		5,640		14,306		9,621	
ACCUMULATED											
CREDITS	5	417,284		424,461		430,101		444,407		454,028	
OBLIGATIONS											
Excess Extractions	3	0	15	0	17	0		0		0	
New Export	4	9,842	15	1,716	17	8,277		7,346		7,666	
Total Obligations		9,842		1,716		8,277		7,346		7,666	
ACCUMULATED											
OBLIGATIONS	5	142,055		143,771		152,048		159,394		167,060	
NET ACCUMULATED (CREDIT)											
OR OBLIGATION	5	(275,229)		(280,690)		(278,053)		(285,013)		(286,968)	

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 1987 include amounts accumulated through 1986.

6 This number not used.

7 Total Import of State Project Water by SBVMWD was 18,750 acre-feet. However, 6,037 acre-feet of this amount were delivered directly, and 2,937 acre-feet were delivered into Colton Basin for replenishment.

8 Total Import of State Project Water by SBVMWD was 21,386 acre-feet. However, 7,641 acre-feet of this amount were delivered directly, and 8,284 acre-feet were delivered into Colton Basin for replenishment.

9 Total Import of State Project Water by SBVMWD was 20,782 acre-feet. However, 11,735 acre-feet of this amount were delivered directly, and 4,593 acre-feet were delivered into Colton Basin for replenishment.

10 Total Import of State Project Water by SBVMWD was 18,831 acre-feet. However, 11,771 acre-feet of this amount were delivered directly, and 66 acre-feet were delivered into Colton Basin for replenishment.

11 Total Import of State Project Water by SBVMWD was 3,661 acre-feet. However, 2,162 acre-feet of this amount were delivered directly, and 435 acre-feet were delivered into Colton Basin for replenishment.

12 Number not used.

13 Number not used.

14 Number not used.

15 Excludes 5,263 acre-feet of additional water extracted and exported under provisions of the May 20, 1987 amendment to the December 22, 1981 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

16 Number not used.

17 Excludes 11,487 acre-feet of additional water extracted and exported under provisions of the January 20, 1988 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
FIVE-YEAR PERIOD 1987 THROUGH 1991

(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	1 (see Tables 10-13)		31,295	139,327	66,721
Accumulated Obligations	1	-	881	454	41,918
Net Accumulated (Credit) or Obligation		-	(30,414)	(138,873)	(24,803)
REPLENISHMENT REQUIRED		-	0	0	0

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	3	454,028	28,503	0
Accumulated Obligations	3	167,060	0	0
Net Accumulated (Credit) or Obligation	3	(286,968)	(28,503)	0
REPLENISHMENT REQUIRED		0	0	0

1 Reference Table 16 for Colton and Riverside Basins.

2 Number not used.

3 Reference Table 17.

4 Includes amounts accumulated prior to 1987.

APPENDIX A

RECEIVED

92 FEB -4 A8:22

S.B.V.M.W.D.

FILED
RIVERSIDE COUNTY

JAN 29 1992

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D. Walker
Deputy

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11 Attorneys for Plaintiff
WESTERN MUNICIPAL WATER DISTRICT
12 OF RIVERSIDE COUNTY

13 SUPERIOR COURT OF CALIFORNIA, COUNTY OF RIVERSIDE

14 WESTERN MUNICIPAL WATER DISTRICT)
OF RIVERSIDE COUNTY, et al.,)

15 Plaintiffs,)

16 v.)

17 EAST SAN BERNARDINO COUNTY WATER)
18 DISTRICT, et al.,)

19 Defendants.)

Case No. 78426
NOTICE OF MOTION FOR ORDER
AMENDING THE JUDGMENT TO
CLARIFY THE REPLENISHMENT
OBLIGATIONS OF THE PARTIES
AND POINTS AND AUTHORITIES
AND DECLARATION IN SUPPORT
THEREOF

DATE: 2/24/92
TIME: 8:30 a.m.
DEPT: 4

21 TO ALL PARTIES AND THEIR RESPECTIVE ATTORNEYS OF RECORD:

22 NOTICE IS HEREBY GIVEN that on Feb. 24, 1992, at
23 8:30 a.m., in Department 4, of the above-entitled court, located
24 at 4050 Main Street, Riverside, California, the San Bernardino
25 Valley Municipal Water District and the Western Municipal Water
26

27 NOTICE OF MOTION FOR ORDER, ETC.
28

1 District of Riverside County will move the court, pursuant to its
2 continuing jurisdiction in this case, for an order amending the
3 judgment in the following respects:

4 First: Adding section 3 to subdivision (c) of Paragraph VI of
5 the judgment (page 14, after line 17) to read as follows:

6 "3. In determining, for this subdivision (c), the amount
7 of extractions in any period, the extractions for which
8 San Bernardino Valley is obligated to provide
9 replenishment under Paragraph X shall not be considered."

10 Second: Revising the portion of Paragraph X of the judgment
11 which follows the first sentence to read as follows:

12 "Western shall be obligated to provide replenishment at
13 or above Riverside Narrows to offset loss of return flow
14 related to any increase over such exports by Western or
15 entities within it from such areas for use within areas
16 not tributary to Riverside Narrows. San Bernardino
17 Valley shall be obligated to provide replenishment for
18 any increase over the exports from the San Bernardino
19 Basin Area for use in any area not within Western nor
20 tributary to Riverside Narrows as set forth in Table C-2
21 of Appendix "C," such amounts being subject to correction
22 by the Watermaster, or for any exports from the San
23 Bernardino Basin Area for use in the Yucaipa, San
24 Timoteo, Oak Glen and Beaumont Basins. San Bernardino
25 Valley shall also be obligated to provide replenishment

1 in the Colton or Riverside Basin, as the case may be, to
2 offset loss of return flow related to any increase over
3 the exports therefrom within San Bernardino Valley for
4 use in any area not within Western nor tributary to
5 Riverside Narrows as set forth in Table C-2 of Appendix
6 "C," such amounts being subject to correction by the
7 Watermaster. Against its replenishment obligation to
8 offset loss of return flow related to any increase in the
9 exports from the Colton Basin Area or Riverside Basin
10 Area within San Bernardino Valley, San Bernardino Valley
11 shall receive credit for that portion of direct delivered
12 water which originated outside that Basin and which
13 returns to the ground water of that Basin."

14 Third: Revising the first line of subparagraph (b) of
15 Paragraph XI of the judgment to delete the word "its" and replace
16 it with the words "any future."

17 The motion will be based on the need to clarify the provisions
18 of the judgment with respect to the computation of the
19 replenishment obligations and credits of the parties to more
20 accurately reflect the intent of the parties and to provide the
21 Watermaster with a clear basis for recomputing, from calendar year
22 1971, the replenishment obligations and credits of the parties
23 without any duplicate replenishment obligation.

24 / / /

25 / / /

26 / / /

1 The motion will be based upon this notice, the following
2 Points and Authorities, the Declaration of Donald L. Harriger and
3 Robert L. Reiter, which is attached as EXHIBIT "A", all other
4 matters in the Clerk's files herein, and such other and further
5 evidence or grounds as may be presented at the time of the hearing.

6 JAMES W. DILWORTH
7 MCDONOUGH, HOLLAND & ALLEN

8 by James W. Dilworth

9 JAMES W. DILWORTH
10 Attorneys for Defendant
11 SAN BERNARDINO VALLEY
12 MUNICIPAL WATER DISTRICT

13 BEST, BEST & KRIEGER

14 by Anne T. Thomas

15 ANNE T. THOMAS
16 Attorneys for Plaintiff
17 WESTERN MUNICIPAL WATER
18 DISTRICT OF RIVERSIDE COUNTY
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1 Cal. Proc. (3d ed. 1985) "Judgment" section 82, p. 517.

2 Dated: January 28, 1992

JAMES W. DILWORTH
MCDONOUGH, HOLLAND & ALLEN

3
4 by: James W. Dilworth
JAMES W. DILWORTH
Attorneys for Defendant
SAN BERNARDINO VALLEY
MUNICIPAL WATER DISTRICT

BEST, BEST & KRIEGER

7
8 by: Anne T. Thomas
ANNE T. THOMAS
Attorneys for Plaintiff
WESTERN MUNICIPAL WATER
DISTRICT OF RIVERSIDE
COUNTY

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DECLARATION OF DONALD L. HARRIGER
AND ROBERT L. REITER

DONALD L. HARRIGER AND ROBERT L. REITER each declare:

1. Each of the deponents is a registered civil engineer in the State of California specializing in hydrology. Deponents are the two members of the Committee which acts as Watermaster to enforce the Judgment in this case, representing, respectively, plaintiff Western Municipal Water District of Riverside County and defendant San Bernardino Valley Municipal Water District.

2. As required by the Judgment, the Committee prepares an annual report to the Court in which various calculations are made to determine the replenishment obligations of each Party with respect to the San Bernardino Basin Area, Colton Basin Area, Riverside Basin Area Within San Bernardino County, and Riverside Basin Area Within Riverside County. Replenishment obligation calculations are intended to determine the quantity of water which must be imported and delivered to the groundwater of the respective Basins to preserve the hydrologic integrity of each Basin.

3. In the course of preparing recent annual reports, the current Committee members have been re-examining the manner in which calculations have been made to determine the replenishment obligations of the Parties with respect to each Basin.

4. The Committee has specifically been looking into two issues. The first is in regard to the replenishment obligations of the Parties with respect to New Exports. The second is in

1 regard to the credit for under-extraction in Colton and
2 Riverside Basins allowed Western against its replenishment
3 obligations in each of those Basins. The Committee believes
4 that the underlying purpose of many of the provisions in the
5 Judgment, including replenishment obligations with respect to
6 New Export and under-extraction credits, was to account properly
7 for extractions and their associated return flows so as to
8 preserve the hydrologic integrity of the Basins.

9 5. The Committee believes that replenishment obligations
10 related to New Export for the Parties should have been
11 calculated in a manner which requires the Parties to offset only
12 the loss of return flow due to the individual Party's New Export
13 from a particular Basin. The manner in which these calculations
14 have been made previously resulted in obligations which more
15 than offset the loss of return flow.

16 6. The replenishment obligations of San Bernardino Valley
17 related to New Export from San Bernardino Basin Area, Colton
18 Basin Area, and Riverside Basin Area Within San Bernardino
19 County have previously been summed and shown in the Annual
20 Reports as an obligation due to the San Bernardino Basin Area.
21 This practice does not preserve the hydrologic integrity of the
22 Colton Basin Area or the Riverside Basin Area Within San
23 Bernardino County. Future Annual Reports should have
24 replenishment obligations related to New Export calculated for
25 each Basin.

26 7. Likewise, the Committee believes that the replenishment
27 obligations of Western with respect to New Export to areas not
28 tributary to Riverside Narrows have been calculated in a manner

1 which resulted in obligations which more than offset the loss of
2 return flow tributary to Riverside Narrows.

3 8. The Committee has re-examined the manner in which the
4 credit for under-extractions allowed Western in Colton and
5 Riverside Basins has been calculated. The manner in which these
6 calculations have been made previously only allows credit for
7 under-extractions which occurred during the five-year period
8 covered by each annual report. This results in water remaining
9 in the respective basins which may in the future not be
10 extracted without incurring a replenishment obligation. An
11 accounting method which allows under-extraction credits to
12 accumulate and apply against any future replenishment obligation
13 would more closely reflect the need for replenishment to
14 preserve the hydrologic integrity of the Colton and Riverside
15 Basins.

16 9. The Committee believes that calculating the New Export
17 replenishment obligations of the Parties in a manner which
18 determines the replenishment needed to offset only loss of
19 return flow will, as the Judgment intended, preserve the
20 hydrologic integrity of the Basins for the benefit of the
21 producers from the respective Basins. The Committee further
22 believes that accumulating under-extraction credits in the
23 Colton and Riverside Basins will not adversely affect those
24 Basins. The motion to which this declaration is attached
25 accomplishes these objectives, and the Committee believes that
26 the motion should be granted.

1 Each of the deponents hereby declares, under penalty of
2 perjury, that the foregoing is true and correct.

3 Executed in Riverside, California, this 22nd day of
4 January, 1992.

5 
6 DONALD L. HARRIGER

7 
8 ROBERT L. REITER

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VERIFICATION

STATE OF CALIFORNIA, COUNTY OF

I have read the foregoing _____ and know its contents.

CHECK APPLICABLE PARAGRAPH

I am a party to this action. The matters stated in the foregoing document are true of my own knowledge except as to those matters which are stated on information and belief, and as to those matters I believe them to be true.

I am an Officer a partner _____ a _____ of _____

a party to this action, and am authorized to make this verification for and on its behalf, and I make this verification for that reason. I am informed and believe and on that ground allege that the matters stated in the foregoing document are true. The matters stated in the foregoing document are true of my own knowledge except as to those matters which are stated on information and belief, and as to those matters I believe them to be true.

I am one of the attorneys for _____ a party to this action. Such party is absent from the county of aforesaid where such attorneys have their offices, and I make this verification for and on behalf of that party for that reason. I am informed and believe and on that ground allege that the matters stated in the foregoing document are true.

Executed on _____, 19____, at _____, California.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Type or Print Name

Signature

PROOF OF SERVICE

1013A (2) CCP Revised 5/1/88

STATE OF CALIFORNIA, COUNTY OF RIVERSIDE

I am employed in the county of Riverside, State of California.

I am over the age of 18 and not a party to the within action; my business address is: 5225 Canyon Crest Dr., Bldg. 400, Ste. 409, Riverside, CA 92507

On 2/24, 1992 I served the foregoing document described as NOTICE OF MOTION FOR ORDER AMENDING THE JUDGMENT TO CLARIFY THE REPLENISHMENT OBLIGATIONS OF THE PARTIES AND POINTS AND AUTHORITIES AND DECLARATION IN SUPPORT THEREOF

on interested parties in this action

by placing the true copies thereof enclosed in sealed envelopes addressed as stated on the attached mailing list:
 by placing the original a true copy thereof enclosed in sealed envelopes addressed as follows:

BY MAIL

*I deposited such envelope in the mail at Riverside, California. The envelope was mailed with postage thereon fully prepaid.

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14 SUPERIOR COURT OF CALIFORNIA, COUNTY OF RIVERSIDE
15

16 WESTERN MUNICIPAL WATER DISTRICT)
OF RIVERSIDE COUNTY, et al.,)
17)
18 Plaintiffs,)
19 v.)
20 EAST SAN BERNARDINO COUNTY WATER)
DISTRICT, et al.,)
21)
22 Defendants.)

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92 MAR -2 A9:49 FILED
RIVERSIDE COUNTY

S.B.V.M.W.D.) FEB 28 1992

By *R. Morrow* Clerk
R. Morrow Deputy

23 The joint motion of plaintiff Western Municipal Water District
24 of Riverside County and Defendant San Bernardino Valley Municipal
25 Water District for an order amending the judgment to clarify the
26 replenishment obligations of the parties filed on January 29, 1992
27 came on regularly for hearing on February 24, 1992. The purpose of
28 ORDER APPROVING AGREEMENT, ETC.

1 the motion is to clarify the provisions of the judgment with
2 respect to the computation of the replenishment obligations and
3 credits of the parties to more accurately reflect the intent of the
4 parties and to provide the Watermaster with a clear basis for
5 recomputing, from calendar year 1971, the replenishment obligations
6 and credits of the parties without any duplicate replenishment
7 obligations. James W. Dilworth appeared for Defendant San
8 Bernardino Valley Municipal Water District.

9 Pursuant to the Court's continuing jurisdiction, and good
10 cause having been shown,

11 IT IS ORDERED that the motion be granted and that the Judgment
12 herein be amended in the following respects:

13 First: Section 3 is added to subdivision (c) of Paragraph VI
14 of the judgment (page 14, after line 17) to read as follows:

15 "3. In determining, for this subdivision (c), the amount
16 of extractions in any period, the extractions for which
17 San Bernardino Valley is obligated to provide
18 replenishment under Paragraph X shall not be considered."

19 Second: The portion of Paragraph X of the judgment which
20 follows the first sentence is revised to read as follows:

21 "Western shall be obligated to provide replenishment at
22 or above Riverside Narrows to offset loss of return flow
23 related to any increase over such exports by Western or
24 entities within it from such areas for use within areas
25 not tributary to Riverside Narrows. San Bernardino
26 Valley shall be obligated to provide rpelenishment for
27 any increase over the exports from the San Bernardino

1 Basin Area for use in any area not within Western nor
2 tributary to Riverside Narrows as set forth in Table C-2
3 of Appendix "C," such amounts being subject to correction
4 by the Watermaster, or for any exports from the San
5 Bernardino Basin Area for use in the Yucaipa, San
6 Timoteo, Oak Glen and Beaumont Basins. San Bernardino
7 Valley shall also be obligated to provide replenishment
8 in the Colton or Riverside Basin, as the case may be, to
9 offset loss of return flow related to any increase over
10 the exports therefrom within San Bernardino Valley for
11 use in any area not within Western nor tributary to
12 Riverside Narrows as set forth in Table C-2 of Appendix
13 "C," such amounts being subject to correction by the
14 Watermaster. Against its replenishment obligation to
15 offset loss of return flow related to any increase in the
16 exports from the Colton Basin Area or Riverside Basin
17 Area within San Bernardino Valley, San Bernardino Valley
18 shall receive credit for that portion of direct delivered
19 water which originated outside that Basin and which
20 returns to the ground water of that Basin."

21 Third: The first line of subparagraph (b) of Paragraph XI of
22 the judgment is revised to delete the word "its" and replace it
23 with the words "any future."

24 Dated: FEB 23 1992

E MICHAEL KAISER

E MICHAEL KAISER

JUDGE OF THE SUPERIOR COURT

APPENDIX B

TABLE NO. 14

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

	Calendar Years																				
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
<u>EXPORTS</u>																					
Adjusted Right	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535	42,535
Actual Export	41,612	40,314	31,133	35,020	38,737	42,927	37,113	34,988	39,963	41,458	39,358	29,422	28,876	36,413	31,590	32,082	30,861	32,163	45,841	43,357	38,594
ACCUMULATED EXPORT	41,612	81,926	113,059	148,079	186,816	229,743	266,856	301,844	341,807	383,265	422,623	452,045	480,921	517,334	548,924	581,006	611,867	644,030	689,871	687,387	728,465
<u>OBLIGATIONS</u>																					
New Export	(923)	(2,221)	(11,402)	(7,515)	(3,798)	392	(5,422)	(7,547)	(2,572)	(1,077)	(3,177)	(13,113)	(13,659)	(6,122)	(10,945)	(10,453)	(11,674)	(10,372)	3,306	822	(3,941)
ACCUMULATED NEW EXPORT	(923)	(3,144)	(14,546)	(22,061)	(25,859)	(25,467)	(30,889)	(38,436)	(41,008)	(42,085)	(45,262)	(58,375)	(72,034)	(78,156)	(89,101)	(99,554)	(111,228)	(121,600)	(118,294)	(117,472)	(121,413)

TABLE NO. 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

(All Values in Acre-Feet)

	Calendar Years																				
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
EXPORTS																					
Adjusted Right	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527	12,527
Actual Export	16,550	17,431	21,829	16,251	17,910	17,795	16,546	19,217	23,462	25,351	24,118	20,462	26,261	23,393	24,023	26,584	27,632	28,430	20,804	19,873	20,193
ACCUMULATED EXPORT	16,550	33,981	55,810	72,061	89,971	107,766	124,312	143,529	166,991	192,342	216,460	236,922	263,183	286,576	310,599	337,183	364,815	393,245	414,049	433,922	454,115
OBLIGATIONS																					
New Export	4,023	4,904	9,302	3,724	5,383	5,268	4,019	6,690	10,935	12,824	11,591	7,935	13,734	10,866	11,496	14,057	15,105	15,903	8,277	7,346	7,666
ACCUMULATED EXCESS EXPORT	4,023	8,927	18,229	21,953	27,336	32,604	36,623	43,313	54,248	67,072	78,663	86,598	100,332	111,198	122,694	136,751	151,856	167,759	176,036	183,382	191,048

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																					
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	
EXTRACTIONS																						
Adjusted Right	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381	3,381
Actual Extractions ACCUMULATED	3,025	2,882	862	1,737	4,262	2,953	2,716	1,233	1,970	71	173	1,049	132	1,546	3,007	2,384	2,121	2,099	2,304	2,020	2,041	
EXTRACTIONS	3,025	5,907	6,769	8,506	12,768	15,721	18,437	19,670	21,640	21,711	21,884	22,933	23,065	24,611	27,618	30,002	32,123	34,222	36,526	38,546	40,587	
CREDITS																						
Extraction	356	499	2,519	1,644	0	428	665	2,148	1,411	3,310	3,208	2,332	3,249	1,835	374	997	1,260	1,282	1,077	1,361	1,340	
Total Credits ACCUMULATED	356	499	2,519	1,644	0	428	665	2,148	1,411	3,310	3,208	2,332	3,249	1,835	374	997	1,260	1,282	1,077	1,361	1,340	
CREDITS	356	855	3,374	5,018	5,018	5,446	6,111	8,259	9,670	12,980	16,188	18,520	21,769	23,604	23,978	24,975	26,235	27,517	28,594	29,955	31,295	
OBLIGATIONS																						
Excess Extractions	0	0	0	0	881	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Obligations ACCUMULATED	0	0	0	0	881	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OBLIGATIONS	0	0	0	0	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881
NET ACCUMULATED (CREDIT) OR OBLIGATION	(356)	(855)	(3,374)	(5,018)	(4,137)	(4,565)	(5,230)	(7,378)	(8,789)	(12,099)	(15,307)	(17,639)	(20,888)	(22,723)	(23,097)	(24,094)	(25,354)	(26,636)	(27,713)	(29,074)	(30,414)	

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																					
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	
EXTRACTIONS																						
Adjusted Right	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085	21,085
Actual Extractions	20,322	20,185	15,319	14,982	16,188	17,807	16,417	10,955	12,962	12,601	16,800	11,940	6,700	11,513	13,344	9,936	8,429	9,698	17,776	18,499	21,539	21,539
ACCUMULATED																						
EXTRACTIONS	20,322	40,507	55,826	70,808	86,996	104,803	121,220	132,175	145,137	157,738	174,538	186,478	193,178	204,691	218,035	227,971	236,400	246,098	263,874	282,373	303,912	303,912
CREDITS																						
Extraction	763	900	5,766	6,103	4,897	3,278	4,668	10,130	8,123	8,484	4,285	9,145	14,385	9,572	7,741	11,149	12,656	11,387	3,309	2,586	0	0
Total Credits	763	900	5,766	6,103	4,897	3,278	4,668	10,130	8,123	8,484	4,285	9,145	14,385	9,572	7,741	11,149	12,656	11,387	3,309	2,586	0	0
ACCUMULATED																						
CREDITS	763	1,663	7,429	13,532	18,429	21,707	26,375	36,505	44,628	53,112	57,397	66,542	80,927	90,499	98,240	109,389	122,045	133,432	136,741	139,327	139,327	139,327
OBLIGATIONS																						
Excess Extractions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	454
Total Obligations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	454
ACCUMULATED																						
OBLIGATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	454
NET ACCUMULATED (CREDIT)																						
OR OBLIGATION	(763)	(1,663)	(7,429)	(13,532)	(18,429)	(21,707)	(26,375)	(36,505)	(44,628)	(53,112)	(57,397)	(66,542)	(80,927)	(90,499)	(98,240)	(109,389)	(122,045)	(133,432)	(136,741)	(139,327)	(138,873)	(138,873)

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)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
EXTRACTIONS																					
Adjusted Right	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633	29,633
Actual Extractions	30,942	37,804	33,094	38,304	28,285	31,565	28,226	24,878	25,512	30,206	30,243	20,365	22,991	32,466	23,970	24,549	24,202	24,470	34,417	31,760	29,300
ACCUMULATED																					
EXTRACTIONS	30,942	68,746	101,840	140,144	168,429	199,994	228,220	253,098	278,610	308,816	339,059	359,424	382,415	414,881	438,851	463,400	487,602	512,072	546,489	578,249	607,549
CREDITS																					
Extraction	0	0	0	0	1,348	0	1,407	4,755	4,121	0	0	9,268	6,642	0	5,663	5,084	5,431	5,163	0	0	333
Return from import	331	345	305	346	330	358	331	255	302	398	458	345	303	368	533	502	505	310	380	256	221
Return From Additional																					
Local Water	401	3,237	2,368	3,038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	980
Total Credits	732	3,582	2,673	3,384	1,678	358	1,738	5,010	4,423	398	458	9,613	6,945	368	6,196	5,586	5,936	5,473	380	256	1,534
ACCUMULATED																					
CREDITS	732	4,314	6,987	10,371	12,049	12,407	14,145	19,155	23,578	23,976	24,434	34,047	40,992	41,360	47,556	53,142	59,078	64,551	64,931	65,187	66,721
OBLIGATIONS																					
Excess Extractions	1,309	8,171	3,461	8,671	0	1,932	0	0	0	573	610	0	0	2,833	0	0	0	0	4,784	2,127	0
New Export	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Land Use Conversi	15	23	82	82	147	160	220	297	393	413	414	417	440	488	498	526	545	568	569	571	579
Total Obligations	1,324	8,194	3,543	8,753	147	2,092	220	297	393	986	1,024	417	440	3,321	498	526	545	568	5,353	2,698	579
ACCUMULATED																					
OBLIGATIONS	1,324	9,518	13,061	21,814	21,961	24,053	24,273	24,570	24,963	25,949	26,973	27,390	27,830	31,151	31,649	32,175	32,720	33,288	38,641	41,339	41,918
NET ACCUMULATED (CREDIT)																					
OR OBLIGATION	592	5,204	6,074	11,443	9,912	11,646	10,128	5,415	1,385	1,973	2,539	(6,657)	(13,162)	(10,209)	(15,907)	(20,967)	(26,358)	(31,263)	(26,290)	(23,848)	(24,803)

TABLE NO. 17

ANNUAL ACCOUNTING FOR
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

(All Values in Acre-Feet)

EXTRACTIONS	Calendar Years																					
	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	
Adjusted Right	171,342	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238	167,238
Actual Extractions	163,186	167,227	159,781	158,685	151,681	144,317	144,811	137,040	154,807	159,422	172,639	153,040	146,434	180,808	167,238	184,734	167,238	167,238	174,329	167,272	166,347	166,347
less New Export	4,023	4,904	9,302	3,724	5,383	5,268	4,019	6,690	10,935	12,824	11,591	7,935	13,734	10,866	815	14,057	9,842	1,716	8,277	7,346	7,666	4
Adjusted Extractions	159,163	162,323	150,479	154,961	146,298	139,049	140,792	130,350	143,872	146,598	161,048	145,105	132,700	169,942	166,423	170,677	157,396	165,522	166,052	159,926	158,681	158,681
ACCUMULATED EXTRACTIONS	159,163	318,326	480,649	631,128	786,089	932,387	1,071,436	1,212,228	1,342,578	1,486,450	1,633,048	1,794,096	1,939,201	2,071,901	2,241,843	2,412,520	2,569,916	2,735,438	2,901,490	3,061,416	3,220,097	3,220,097
CREDITS																						
Extraction	12,179	4,915	16,759	12,277	20,940	28,189	26,446	36,888	23,366	20,640	6,190	22,133	34,538	0	815	0	9,842	1,716	1,186	7,312	8,557	8,557
Replenishment	0	1,275	32,426	16,605	13,865	12,273	24,883	4,035	17	0	15,325	8,278	848	405	1,156	0	9,776	5,461	4,454	6,994	1,064	1,064
Return from Imported Water	0	0	0	0	0	0	0	7	0	0	251	(195)	(558)	415	558	329	1,614	2,062	3,819	62	679	679
Return from Excess Extractions	0	0	0	0	0	0	0	0	0	0	0	0	0	973	0	1,238	0	0	0	0	0	0
Total Credits	12,179	6,190	49,185	28,882	34,805	40,462	51,329	40,923	23,383	20,640	21,515	30,411	35,386	405	1,971	0	19,618	7,177	5,640	14,306	9,621	9,621
ACCUMULATED CREDITS	12,179	18,369	67,554	96,436	131,241	171,703	223,032	263,955	287,338	307,978	329,493	359,904	395,290	395,695	397,666	397,666	417,284	424,461	430,101	444,407	454,028	454,028
OBLIGATIONS																						
Excess Extractions	0	0	0	0	0	0	0	0	0	0	0	0	0	2,704	0	3,439	0	0	0	0	0	0
New Export	4,023	4,904	9,302	3,724	5,383	5,268	4,019	6,690	10,935	12,824	11,591	7,935	13,734	10,866	815	14,057	9,842	1,716	8,277	7,346	7,666	7,666
Total Obligations	4,023	4,904	9,302	3,724	5,383	5,268	4,019	6,690	10,935	12,824	11,591	7,935	13,734	13,570	815	17,496	9,842	1,716	8,277	7,346	7,666	7,666
ACCUMULATED OBLIGATIONS	4,023	8,927	18,229	21,953	27,336	32,604	36,623	43,313	54,248	67,072	78,663	86,598	100,332	113,902	114,717	132,213	142,055	143,771	152,048	159,394	167,060	167,060
NET ACCUMULATED (CREDIT) OR OBLIGATIONS	(8,156)	(9,442)	(49,325)	(74,483)	(103,905)	(139,099)	(186,409)	(220,642)	(233,090)	(240,906)	(250,830)	(273,306)	(294,958)	(281,793)	(282,949)	(265,453)	(275,229)	(280,690)	(278,053)	(285,013)	(286,968)	(286,968)

1 excludes 10,681 allowable under 1985 agreements
 2 excludes 5,263 allowable under 1987 amendment to 1981 agreement (2nd Amendment)
 3 excludes 14,187 allowable under 1988 amendment to 1981 agreement (3rd Amendment)
 4 excludes 0 allowable under 1991 amendment to 1981 agreement (4th Amendment)