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 1989

AUGUST 1, 1990

FOR WESTERN MUNICIPAL WATER DISTRICT, ET AL VS.

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

DONALD L. HARRIGER, Member 450 Alessandro Blvd. Post Office Box 5286

August 1, 1990

ROBERT L. REITER, Member 1350 South "E" Street Post Office Box 5906 San Bernardino, CA 92412 (714) 889-0433

TO:

Clerk of Superior Court of Riverside County and All Parties

RE:

Riverside, CA 92517

(714) 780-4170

Watermaster Report for Calendar Year 1989

Gentlemen:

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for the Calendar Year 1989.

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, 1990, and presents the findings of the Watermaster for Calendar Year 1989 and summarizes the five-year period 1984 through 1988.

During the period 1984 through 1988 the actual total extractions and the extractions for delivery outside San Bernardino Valley by the City of Riverside exceeded the allowable safe yield amounts established by the Watermaster in 1971. However, the 1981, 1985, 1987, and 1988 agreements between Western and San Bernardino Valley, prepared in accordance with Paragraph VI(b)6 of the Judgment, provide for extraction of additional water. The City of Riverside actual extractions were less than the amounts permitted under these agreements.

During Calendar Year 1988 extractions for delivery outside San Bernardino Valley by the Riverside Highland Water Company exceeded the maximum allowable safe yield amounts established by the Watermaster in 1971 by 148 acre-feet. Also, during the period 1984 through 1988 the total extractions and the extractions for delivery outside San Bernardino Valley by the Riverside Highland Water Company exceeded the allowable safe yield amounts by 39 acre-feet and 1,047 acre-feet, respectively.

Committee Member Reiter can not agree with the procedure previously used to incorporate the effect of the New Export obligation on the Net Accumulated (Credit) or Obligation, and the Replenishment Required by San Bernardino Valley for Calendar Year 1988 on Tables 17 and 18. Therefore, no calculation of these quantities for 1988 is included in this Report but the issue will have to be resolved.

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 1984 through 1988 indicates that Western is 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 work performed by us and under our supervision during 1989, pursuant to the requirements of the Judgment.

Respectfully submitted.

Robert L. Reiter

WESTERN-SAN BERNARDINO WATERMASTE	R
By Donald L. Harriger	
Donald L. Haffiger	

FOR

WESTERN MUNICIPAL WATER DISTRICT, ET AL

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DONALD L. HARRIGER, Member

450 Alessandro Blvd. Post Office Box 5286 Riverside, CA 92517 (714) 780-4170

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WESTERNSAN BERNARDING WATERMASTER

Donald L. Harriger

FOR

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FOR

CALENDAR YEAR 1989

AUGUST 1, 1990

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CHAPTER I

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 ground water 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 the 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 the calendar year for which the filings are made. This report for the calendar year 1989 includes a description and summary of the work completed during 1989 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 the calendar year 1988. The scope of this report for 1989 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 the 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 the calendar year 1989 together with the annual accounting of extractions and deliveries for the calendar year 1988.

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 ground water sources supplied by the Santa Ana River and tributaries above the Riverside Narrows.

For some time, increasing withdrawals from ground water 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 ground water 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
Total actual average ar extractions from the Sa Bernardino Basin Area entities other than plain for use within San Bernardino County.	nn by	×
2. The natural safe yield the San Bernardino Bar Area based upon the cultural conditions equivalent to those exist during the five-calendar year period ending with 1963.	sin sting	1

	Watermaster Determination Required by Judgment	Verified for Five Calendar Years Ending with 1963	To Be Determine Annually From and After 1971
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
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

	Watermaster Determination Required by Judgment	Verified for Five Calendar Years Ending with 1963	To Be Determined Annually From and After 1971
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

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.

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.*

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.

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.

Ground Water Extractions

The most important data required for implementing the provisions of the Judgment are the annual tabulations of the ground water 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 the calendar year 1988 and are summarized herein. Listings of the verified extractions by each individual owner for the calendar year 1988 are assembled in Report of Watermaster, Volumes 1-1988, 1A-1988, 2-1988, 3-1988, and 4-1988.

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 the calendar year 1988 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-1988.

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 the calendar year 1988 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, in Volume 6-1988.

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 the calendar year 1988 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-1988.

Ground Water Level Measurements

Ground water 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 the calendar years 1963 thru 1988 in Volume 8 of previous Watermaster reports. The determination for the calendar year 1989 is shown in the Report of Watermaster, Volume 8-1988.

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 1988 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, 1989 to September 30, 1990

Santa Ana River near Mentone	\$ 4,050
Mill Creek Power Canal #1 near Yucaipa	4,860
Plunge Creek near East Highland	8,910
Devil Canyon Creek near San Bernardino	4,050
East Twin Creek near Arrowhead Springs	4,550
City Creek near Highland	4,050
San Timoteo Creek near Loma Linda	4,050
Lone Pine Creek near Keenbrook	4,050
Lytle Creek at Fontana Union Head Gates	
Lytle Creek near Fontana Streamflow	4,050
Weir No. 2Infiltration Line	2,430
Weir No. 3Head Gate Diversion	2,430
Weir No. 4Breed Line Diversion	2,430
20-ft.WeirReturn to Creek	4,860
Southern California Edison Lower Power House on Lytle Creek	
20-ft.WeirDischarge Lower Power House	4,860
Parshall FlumeReturn to Creek from Afterbay	4,860
Fontana Diversion (20-ft. Weir, West)	4,860
SUBTOTAL FOR PARTIES AND WATERMASTER	\$69,350
United States Geological Survey	<u>\$45,050</u>
TOTAL	\$114,400

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 1988, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 1988 verifications are included in Report of Watermaster, Volume 1-1988.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the calendar years 1971 through 1988 are shown on Table No. 3. The individual work sheets for the 1988 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-1988 and Volume 5-1988.

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	Plant No. 1	Plant No. 2	Total
Year	(Acre-Feet)	(Acre-Feet)	(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	20,670
1981	0	21,120	21,120
1982	0	24,493	24,493
1983	0	23,170	23,170
1984	0	21,759	21,759
1985	0	23,814	23,814
1986	0	25,442	25,442
1987	0	27,154	27,154
1988	0	27,290	27,290

TABLE NO. 2

VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA BY OTHER THAN PLAINTIFFS

(All Values in Acre-Feet)

	<u>Verified</u>	Extractions		
Calendar Year	By Owners Who Have Filed With SWRCB	By Owners Who Have Not Filed With SWRCB	Total	Adjusted Right
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	174,070	4,655	178,725	167,238

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

² Amount corrected during verification of 1973 extractions.

³ Amount corrected during verification of 1974 extractions.

⁴ Amount corrected during verification of 1975 extractions.

⁵ Amount corrected during verification of 1977 extractions.

⁶ Amount corrected during verification of 1981 extractions.

⁷ Amount corrected during verification of 1983 extractions.

⁸ Amount corrected during verification of 1986 extractions.

Amount corrected during verification of 1988 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)

	Verified	Extractions		
Five-Year Period	By Owners Who Have Filed With SWRCB	By Owners Who Have Not Filed With SWRCB	Total	Adjusted Right
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	830,340	836,190
1982-86	818,761	24,174	842,935	836,190
1983-87	838,682	23,714	862,396	836,190
1984-88	870,664	24,023	894,687	836,190

TABLE NO. 3

FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

Plaintiffs

57,4772 1,427 98² 59,438 50,744 47,083 49,445 54,132 85 156 3,440 3,163 2,513 2,781 2,668 49,752 52,226 56,800 61,015 53,992 Total Regents of the University of California 536 219 239 239 267 179 536 219 239 239 267 179 00000 Agua Mansa Water Company and Meeks & Daley Water Co. 7,833 2,902 3,527 2,979 3,564 3,564 383 377 250 246 168 7,515 2,519 3,150 2,729 4,258 3,782 00000 Riverside Highland Water Company 2,239 1,751 1,985 2,002 1,845 1,624 2,293 1,761 1,761 2,103 2,707 4,294 4,012 4,532 4,088 4,088 00000 City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company) $53,115^{2}$ 547 512 550 550 45,062 42,354 42,817 52,199 53,882 45,694 43,022 43,367 47,962 0 19,542 Adjusted Right¹ 1971 Extractions Adjusted Right¹ 1971 Extractions Extractions Extractions Extractions 971 Extractions Extractions 1971 Extractions Extractions Extractions Extractions Extractions **Extractions** Extractions Extractions Extractions Extractions Extractions Extractions Extractions Adjusted Right¹ Adjusted Right¹ 1974 1975 1973 1974 1975 1973 1974 1975 1973 1974 1972 1972 1972 1972 1973 San Bernardino Valley Riverside Basin Area Delivery to Colton in San Bernardino in San Bernardino Total Extractions Delivery to Area Basin Area and San Bernardino Delivery to Basin Area Basin Area County

15

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

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.

TABLE NO. 3

FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

Plaintiffs

		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the	Riverside Highland		Regents of the University of	
		Gage Canal Company)	Water Company	& Daley Water Co.	California	Total
Total Extractions	Adjusted Right ¹	52,199	4,294	7,833	536	64.862
in San Bernardino	1976 Extractions	51,374	4,519	5,393	245	61,531
Basin Area	1977 Extractions	50,999	3,583	4.220	280	58,880
	1978 Extractions	45,384	1,350	2,254	183	49,171
		52,377	3,369	3,930	e e e e e e e e e e e e e e e e e e e	59,759
	1980 Extractions	50,756	3,677	2,333	-	56,773
						•
Delivery to	Adjusted Right ¹	1,427	0	0	G	1.427
San Bernardino	1976 Extractions	0	0	0		
Basin Area	1977 Extractions	0	0	0		· c
6	1978 Extractions	6462	0	0		6462
	1979 Extractions	0	0	0		6
	1980 Extractions	383	0	. 0	• •	383
		•		;		
Delivery to Colton	Adjusted Right*	1,230	2,449	318	0	3,997
Basin Area and		523	2,050	182	0	2,755
Riverside Basin Area	1977 Extractions	346	1,820	146	0	2,312
in San Bernardino	1978 Extractions	301	1,051	161	0	1,513
County		415	1,781	1663	0	2.3623
	1980 Extractions	0	2,060	323	0	2,383
Delivery to Area	Adjusted Right ¹	49.542	1 845	7 515	736	50 428
Outside	1976 Extractions	50,851	2,469	5.211	245	58,776
San Bernardino Valley	1977 Extractions	50,653	1.763	4.074	200	56,577
		44 4372	299	2 003	- -	47,0122
		51.962	5000	3 7643	, e	57 3073
			1,617	2.010	?	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.

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

² Amount corrected during verification of 1980 extractions.

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

TABLE NO. 3

FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

Plaintiffs

1,427 724 162² 335 32 59 54,0522 48,978 65,894 69,523 64,862 58,996 56,158 51,876 68,830 71,770 55,763 3,997 2,509 1,944 2,563 2,904 2,188 59,438 Total Regents of the University of California 00000 143 00000 000 Company and Meeks & Daley Water Co. Agua Mansa Water 3,092 245 245 233 210 5,165 5,385 000000 2,651 318 358 7,515 2,734 3,547 2,406 4,932 5,175 Riverside Highland Water Company 3,161 4,759 3,312 3,604 00000 2,151 1,775 2,318 2,671 1,978 1,845 1,453 1,020 843 2,088 1,334 City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company 724 162² 335 32 59 51,433 49,437² 52,157 49,599 52,199 46,064 58,906 1,230 0000 45,729 63,073 49,542 58,874 Extractions Adjusted Right¹ 1981 Extractions Adjusted Right¹ Adjusted Right¹ 1981 Extractions Adjusted Right¹ 1983 1984 1982 1984 1985 1982 1983 1981 1984 1985 1982 1983 1982 1983 984 1981 San Bernardino Valley Riverside Basin Area Delivery to Colton of San Bernardino in San Bernardino Total Extractions Delivery to Area Basin Area and San Bernardino Basin Area Delivery to Basin Area County Outside

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

² Amount corrected during verification of 1983 extractions.

TABLE NO. 3

VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA FOR USE BY PLAINTIFFS CLASSIFIED ACCORDING TO SERVICE AREA

Plaintiffs

		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
Total Extractions	Adjusted Right	52,199	4,294	7,833	536	64,862
Basin Area	1987 Extractions	57,841	3,919	5,5/0 4.914	2 to 1	70,341 66,869
		64,512	4,775	4,966	179	74,432
	1989 Extractions 1990 Extractions			•		•
Delivery to	Adjusted Right ¹	1,427	0	0	0	1.427
San Bernardino	1986 Extractions	437	0	0	0	437
Basin Area		334	0	0	0	334
	1988 Extractions 1989 Extractions 1990 Extractions	769	0	0	0	692
Delivery to Colton	Adjusted Right ¹	1,230	2,449	318	0	3,997
Basin Area and	1986 Extractions	0	2,130	234	0 (2,364
in San Bernardino County	1988 Extractions 1989 Extractions 1990 Extractions	• •	2,229 2,229	195 233 3	00	2,422 2,462
Delivery to Area Outside	Adjusted Right ¹ 1986 Extractions	49,542 59,542	1,845	7,515 5,336	536 48	59,438 67,540
San Bernardino Valley	1987 Extractions 1988 Extractions 1989 Extractions 1990 Extractions	57,507 63,743	1,690 2,546	4,733	195 179	64,113

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

<u>Plaintiffs</u>	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 Compa and Meeks & Daley Water Company	ny 7,833	0	318	7,515
Regents of the University of California	<u>536</u> ²	0	0	<u>536</u> 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

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 1988 calendar year have been verified by the Watermaster as 1,707 acre-feet and 8,983 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-1988, Volume 3-1988, and Volume 5-1988 entitled Verified Extractions From Colton Basin Area, Verified Extractions From Riverside Basin Area Within San Bernardino County and Distribution of Extractions From the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Outside the San Bernardino Valley Municipal Water District, respectively.

For Use Within San Bernardino Valley Municipal Water District

Provided minimum water surface elevations within the Colton Basin and that portion of Riverside Basin Area within San Bernardino County are maintained by San Bernardino Valley Municipal Water District, extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use within San Bernardino Valley are not limited and therefore verification of such amounts are not specifically required by the Judgment. However, proper allocation of the total extractions from these areas for use on areas outside San Bernardino Valley necessitates the verification of these extractions. The individual work sheets for the 1988 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-1988, 3-1988 and 5-1988.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for the calendar years 1971 through 1988 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)

				Extracte Riverside County		
Extractions for Calendar Years	Total from Basin	Extracted by San Bernardino County Entities	Totai	Used in San Bernardino County	Used in Riverside County	Base Right for Use in Riverside County 1
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	11,5584	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

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.

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

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)

Extracted by Riverside County Entities Base Right Total Extracted by Used in Used in for Use in Five-Year from San Bernardino San Bernardino Riverside Riverside Period Basin **County Entities** Total County County 1 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 40,873 1976-80 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 1,858 32,287 8,118 6,260 16,905 1983-87 47,081 37,891 9,190 2,534 6,836 16,905 1984-88 55,898 44,741 11,157 2,709 8,448 16,905

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

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)

				Extracte Riverside County		
Extractions for Calendar Years	Total from Basin	Extracted by San Bernardino County Entities	Total	Used in San Bernardino County	Used in Riverside County	Base Right for Use in Riverside County 1
Five-Year Base Period 1959-63 Avg.	33,729	9,609	24,120	3,035	21,085	21,985
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	16,882	7,126	9,756	773	8,983	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.

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)

Extracted by Riverside County Entities Base Right Total Extracted by Used in Used in for Use in Five-Year San Bernardino from San Bernardino Riverside Riverside Period Basin County Entities Total County County County 1 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 1976-80 103,894 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 29,746 53,397 11,749 41,648 105,425 1983-87 81,597 31,675 49,922 8,983 40,939 105,425 1984-88 86,575 33,597 52,978 6,831 46,147 105,425

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-21Q03, 1S/4W-29H01, and 1S/4W-29Q01 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.

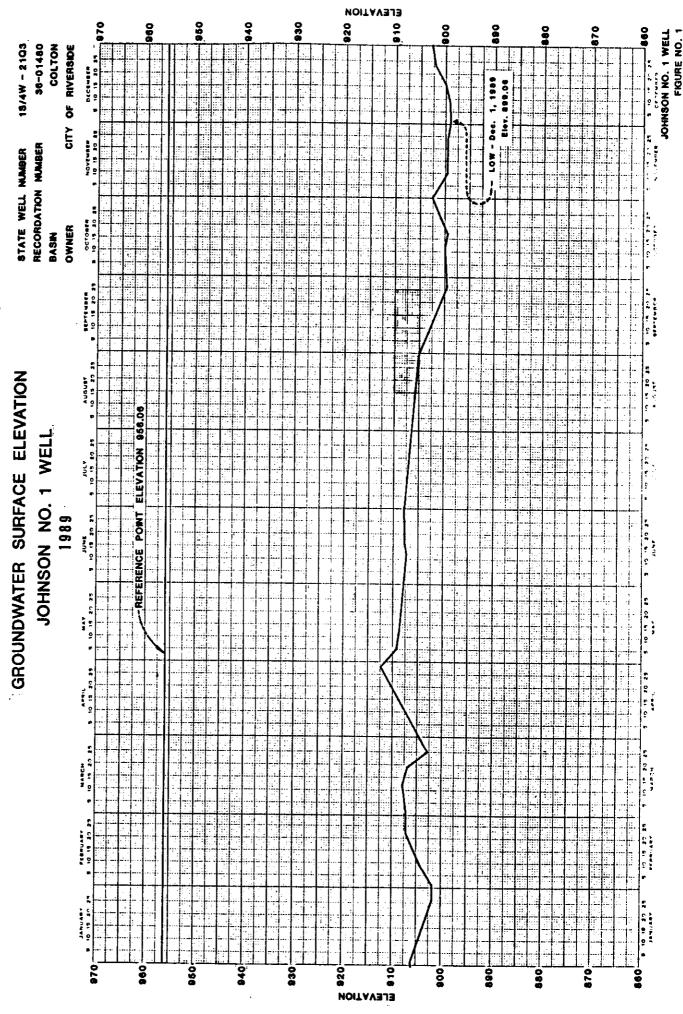
Hydrographs of the 1989 static water surface elevations in the three key wells are shown on Figures 1, 2, and 3 which follow. Data pertinent to the key wells as well as the records of historic water surface measurements are included in Report of Watermaster, Volume 8-1988 entitled Ground Water Surface Elevations in Wells Numbered 15/4W-21Q03, 15/4W-29H01, and 15/4W-29Q01 Located Within the Colton Basin Area and Riverside Basin Area in San Bernardino County through December, 1989.

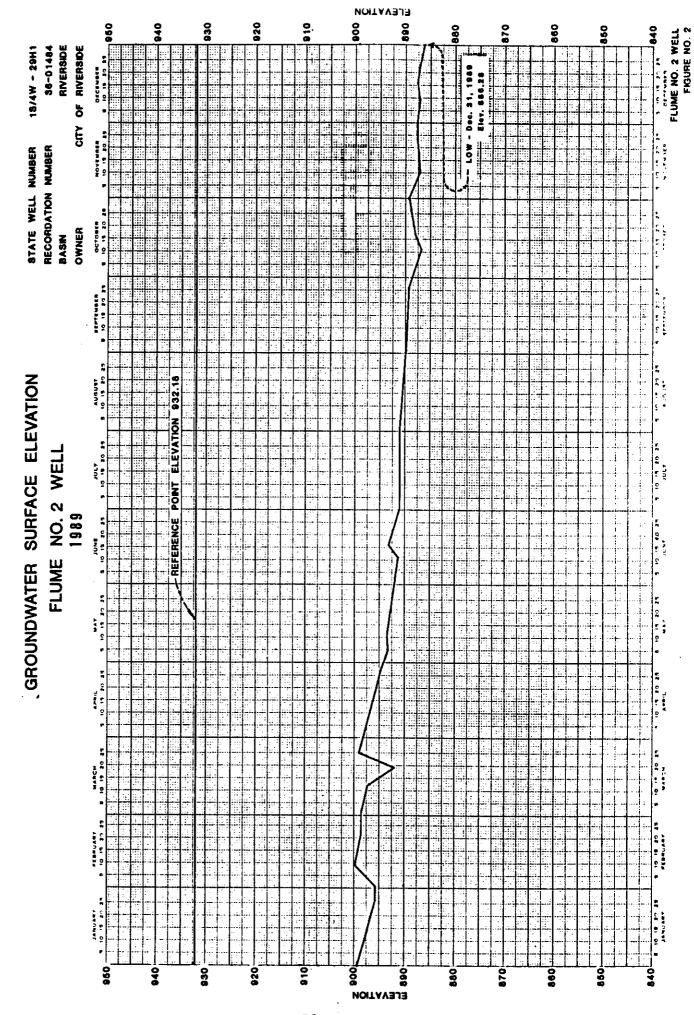
The lowest static water surface elevation measured in each of the three wells during the fall of 1989 is as follows:

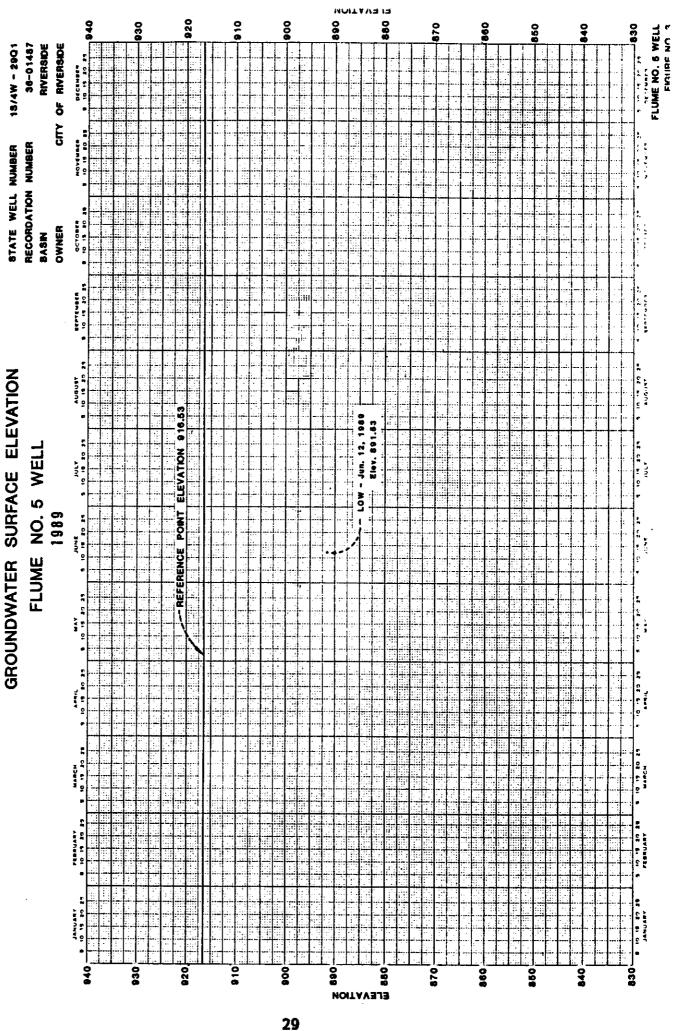
Well Number	Date of Measurement	Elevation of Water Surface
1S/4W-21Q03	Dec 1	899.06
1S/4W-29H01	Dec 31	886.28
15/4W-29Q01 *	June 12	891.53
	Average	892.29

Thus, the lowest average fall water surface elevation for the calendar year 1989 is 8.23 feet lower than the 1988 average of 900.52 and 70.25 feet higher than the 1963 average of 822.04.

^{*} Only measurement for year.







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 the calendar year 1988 have been verified by the Watermaster as 25,728 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-1988 entitled Verified Extractions from Riverside Basin Area Within Riverside County and are summarized in Table No. 6 following.

TABLE NO. 6

VERIFIED EXTRACTIONS FROM THE 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	23,925	29,633
1986	24,549 ⁷	29,633
1987	24,885 ⁸	29,633
1988	25,728	29,633

¹ Amount corrected during verification of 1972 extractions.

These extractions exceeded the Base Right plus peaking allowance of 20% by 2,244 acre-feet in 1972 and 2,744 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.

Amount corrected during verification of 1985 extractions.

⁷ Amount corrected during verification of 1987 extractions.

⁸ Amount corrected during verification of 1988 extractions.
Note: See Report of Watermaster, Volume 4, Table 4.

TABLE NO. 6

VERIFIED EXTRACTIONS FROM THE RIVERSIDE BASIN AREA IN RIVERSIDE COUNTY FOR USE IN RIVERSIDE COUNTY (All Values in Acre-Feet)

Five-Year Period	Total Verified Extractions	Base Right for Use in Riverside County
Base Period 1959–63	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	129,990	148,165
1982-86	124,296	148,165
1983-87	128,816	148,165
1984-88	131,553	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:

APPENDIX D

TABLE D-5

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 re-mapped in August, 1987. These maps showing the 1988 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 1984 through 1988 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
1984	197	38	253	0	488
1985	205	38	255	0	498
1986	213	38	275	0	526
1987	226	38	281	0	545
1988	249	38_	281	0	568
TOTAL 1984-88	1,090	190	1,345	0	2,625

Table No. 7 shows that in 1988 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 568 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 the calendar year 1988 were verified by the Watermaster to be 30,964 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 6-1988, 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)

Calendar Years

Entities Within WMWD	Annual 1959-63 Average	1983 Verified Delivery	1985 Verified Delivery	1986 Verified Delivery	1987 Verified Delivery	1988 Verified Delivery
City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company	23,836	28,515	24,697	25,111	24,437	24,666
Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water received from City of Riverside	13,229	5,895	4,7381	5,417	5,500	5,412
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	1,160	945	88	629	618
Jurupa Community Services District	531	527	006	545	0	4
Rubidoux Community Services District	36	316	324	328	246	267
TOTAL	42,535	36,413	31,6041	32,085	30,842	30,964

1 Amounts corrected during verification of 1986 extractions. Note: See Report of Watermaster, Volume 6, Table A.

CHAPTER VIII

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

CHAPTER VIII

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

Deliveries to Chino Basin

The extractions from the Colton and San Bernardino Basin Areas which were delivered for use on lands not within Western nor tributary to the Riverside Narrows (Chino Basin) during the calendar year 1988, were verified by the Watermaster to be 26,630 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 1988 calendar year indicated that during 1988 San Bernardino Valley Municipal Water District diverted 1,800 acre-feet of water from Mill Creek and delivered such water to the Yucaipa Basin as shown on Table No. 9. During 1988, no water was exported to the San Timoteo, Oak Glen or Beaumont Basins.

TABLE NO. 9

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

Calendar Years

Entities	Annual 1959-63 Average	1984 Verified Delivery	1985 Verified Delivery	1986 Verified Delivery	1987 Verified Delivery	1988 Verified Delivery
Fontana Union Water Company	10,1701	19,220	18,623	21,832	19,907	19,684
West San Bernardino County Water District	1,806	2,903	3,606	3,252	4,828³	5,742
City of Rialto	5511	949	731	1,014	1,370	1,204
Subtotal (Delivery to Chino Basin)	12,527	23,072	22,960	26,098	26,105	26,630
San Bernardino Valley Municipal Water District	0	321 ²	1,0632	4862	1,527 ²	1,800²
Subtotal (Delivery to areas other than Chino Basin)	0	321	1,063	486	1,527	1,800
TOTAL	12,527 ¹	23,393	24,023	26,584	. 27,632	28,430

¹ Amount corrected during verification of 1973 deliveries.

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

Water diverted from Mill Creek and delivered to the Yucaipa Regional Park or Wilson Spreading Basins by SBVMWD.
 Amount corrected during verification of 1988 deliveries.

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 City of Riverside in calendar years 1981, 1983, 1984, 1985, 1986, 1987 and 1988.

In 1988, City of Riverside extracted additional water under terms of the 1981 agreement as amended by the SBVMWD and Western Boards in an amendment dated

January 20, 1988. Footnotes on Table 10 indicate that the City of Riverside extracted 14,201 acre-feet of additional water for export from the San Bernardino Basin Area during 1988.

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 1984 through 1988, 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 1984 through 1988 is as follows:

(All Values in Acre-Feet)

(·		
Adjusted Right	Actual	
1984- 1988	Extractions	Difference
324,310	352,242	(27,932)
836 190	894 687	(59.407)

Non-Plaintiffs 836,190 894,687 (58,497)

TOTAL 1,160,500 1,246,929 (86,429)

Plaintiffs

Exports to Areas Not Tributary to Riverside Narrows

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

Tables 14 and 15 indicate the Adjusted Right and actual export for use on lands in Riverside County and San Bernardino County not tributary to the Riverside Narrows. Table 14 shows that during the period 1984 through 1988 the export by entities within Western was 50,787 acre-feet less than the Adjusted Right.

Table 15 shows that exports from San Bernardino Valley for use in San Bernardino County exceeded Adjusted Right for the period 1971 through 1988 by 167,759 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 1984, 1985, 1986, 1987 and 1988 has been excluded from amounts of export shown on Table 14. The additional water extracted by

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 1984 through 1988 were 80,487 acre-feet less than the total five-year Base Right. This under-extraction results in extraction credits for the five-year period 1984 through 1988 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 82,705 acre-feet.

Since actual extractions have not exceeded the Base Right during the period 1984 through 1988, 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 1984 through 1988 has resulted in an obligation of 2,625 acre-feet. (See Table 7) Therefore, Western's total accumulated obligation during the period 1984 through 1988 is 2,625 acre-feet.

In summary, Table 16 shows that during the five-year period 1984 through 1988 Western's accumulated credits exceeded its accumulated obligation by 80,080 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 1984.

As indicated previously, the actual extractions from the San Bernardino Basin Area were greater than the Adjusted Right during the period 1984 through 1988. The actual extractions for 1988 were greater than the annual Adjusted Right; therefore, the extraction credit for 1988 was zero 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 1988 total 317,157 acre-feet.

Actual extractions exceeded the Adjusted Right in 1984, 1985, 1986, 1987, and 1988. Table 17 indicates an obligation related to the excess extraction in 1984 of 13,570 acre-feet and in 1986 of 17,496 acre-feet. The accumulated obligation resulting from excess extractions in 1984 and 1986, and new export during the period 1971 through 1988 is * acre-feet as shown on Table 17.

In summary, Table 17 shows that at the end of the five-year period 1984 through 1988 San Bernardino Valley's accumulated credits exceeded its accumulated obligations by * 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 1984 through 1988 the actual water surface elevation remained higher than the specified minimum; therefore, no additional water is required for maintenance of these Basins.

^{*} Committee Member Reiter can not agree with the procedure previously used to determine these amounts.

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 1984 through 1988. The Table also indicates that if a net accumulated obligation is incurred by either party, the replenishment required by that party would be reduced by the return flow resulting from any excess extraction. Since the extraction credits exceeded the excess extraction obligations for both parties as shown on Tables 16 and 17, no credit has been allowed for excess extraction return.

In summary, Table 18 shows that Western is not required to provide additional replenishment for obligations incurred during the five-year period 1984 through 1988.

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

	25.	o Valley		Actual ³	53,115	45,062	42,354	42,817	47,464	50,851	50,653	44,437	51,962	50,373	51,4336	49,437	45,7297	58,8748	63,0149	59,54210	57,50711	63,74312
	Delivery to Areas	San Bernardino Valley	Maximum	Allowable ²	65,944	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405
	<u> </u>	Outside	Adjusted	Right ¹	50,7264	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,5425	49,542 ⁵	49,5425
sin and	Ireas	County		Actual ³	699	547	512	550	498	523	346	301	415	o	þ	þ	þ	þ	þ	o o	þ	-0
Delivery to Colton Basin and	Riverside Basin Areas	in San Bernardino	Maximum	Allowable ²	1,638	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599
Delivery	Rive	in Sar	Adjusted	Right ¹	1,2604	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
		n Area		Actual ³	86	82	156	0	0	0	0	646	0	383	724	162	335	32	29	437	334	692
•	Delivery to	ernardino Basin	Maximum	Allowable ²	1,901	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855
	1	San B	Adjusted	Right ¹	1,4624	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427
	from the	iin Area		Actual ³	53,882	45,694	43,022	43,367	47,962	51,374	50,999	45,384	52,377	50,756	52,1576	49,599	46,0647	58,906	63,0739	59,979 ¹⁰	57,84111	64,512 ¹²
	Verified Extractions from the	San Bernardino Basin Area	Maximum	Allowable ²	69,482	67,859	67,859	67,859	67,859	62,859	67,859	67,859	67,859	67,859	67,859	67,859	67,859	62,829	67,859	67,859	67,859	62,859
	Verified	San	Adjusted	Right ¹	53,4484	$52,199^{5}$	$52,199^{5}$	$52,199^{5}$	$52,199^{5}$	52,199 ⁵	52,1995	52.199^{5}	52,1995	52,1995	$52,199^{5}$	$52,199^{5}$	52,199 ⁵	52,199 ⁵	$52 \cdot 199^{5}$	$52,199^{5}$	52,1995	$52,199^{5}$
			Calendar	Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988

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

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.

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

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

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. See Footnote 2 of Table on Page 20.

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.

Includes 9,332 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement. Includes 76 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement.

Includes 13,472 acre-feet of additional extraction which are allowable under provisions of the February 25, 1985 and the August 21, 1985 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

Includes 7,965 acre-feet of additional extraction which are allowable under provisions of May 20, 1987 amendment to the December 22, 1961 Western-San Bernardino agreement. 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 Includes 10,000 acre-feet of additional extraction which are allowable under provisions of 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

FIVE-YEAR PERIOD 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)

					,		Delivery	Delivery to Colton Basin and	sin and			
	Verifi	Verified Extractions from the	from the		Delivery to		Ρέ	Riverside Basin Areas	reas		Delivery to Areas	eas
	San	San Bernardino Basin Area	asin Area	San B	San Bernardino Basin	Area	in Sa	in San Bernardino (County	Outside	Outside San Bernardino Valley	no Valley
Calendar	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Years	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³
1971-75	262,2444	262,244	233,927	7,170	7,170	339	6,180	6,180	2,776	248,894	248,894	230,735
1972-76	260,995	260,995	231,419	7,135	7,135	241	6,150	6,150	2,630	247,710	247,710	228,548
1973-77	260,995	260,995	236,724	7,135	7,135	156	6,150	6,150	2,429	247,710	247,710	234,139
1974-78	260,995	260,995	239,086	7,135	7,135	646	6,150	6,150	2,218	247,710	247,710	236,222
1975-79	260,995	260,995	248,096	7,135	7,135	646	6,150	6,150	2,083	247,710	247,710	245,367
1976-80	250,995	260,995	250,890	7,135	7,135	1,029	6,150	6,150	1,585	247,710	247,710	248,276
1977-81	260,995	260,995	251,673	7,135	7,135	1,753	6,150	6,150	1,062	247,710	247,710	248,858
1978-82	260,995	260,995	249,1255	7,135	7,135	1,915	6,150	6,150	716	247,710	247,710	246,4945
1979-83	260,995	260,995	249,8055	7,135	7,135	1,604	6,150	6,150	415	247,710	247,710	247,7865
1980-84	260,995	260,995	256,258 ⁶	7,135	7,135	1,636	6,150	6,150	ģ	247,710	247,710	254,622
1981-85	260,995	260,995	245,771,7	7,135	7,135	1,312	6,150	6,150	þ	247,710	247,710	244,4597
1982-86	260,995	260,995	244,7418	7,135	7,135	1,025	6,150	6,150	þ	247,710	247,710	243,716
1983-87	260,995	260,995	245,0189	7,135	7,135	1,197	6,150	6,150	þ	247,710	247,710	243,8219
1984-88	260,995	260,995	249,34110	7,135	7,135	1,631	6,150	6,150	o o	247,710	247,710	247,710 ¹⁰
Excess Extraction												
1984-88		(11,654)*			(5,504)*			(6,150)*			• •	

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. Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.

Excludes the 1,148 acre-feet in 1981 of allowable additional extraction. See Footnote 6 on Page 44.

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 44. 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 44.

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 44. 9

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

Actual verified extractions from Table No. 3 of Watermaster Report. Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the Periods.

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 44.

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 44.

ANNUAL ACCOUNTING OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA AND DELIVERIES TO EACH SERVICE AREA BY RIVERSIDE HIGHLAND WATER COMPANY (All Quantities in Acre-Feet)

	Verifie	Verified Extractions from the	from the		. Delivery to	_	Delivery Riv	Delivery to Colton Basin and Riverside Basin Areas	sin and	٥	Delivery to Areas	vo.
	San	San Bernardino Basin Area	sin Area	San Bernar	ernardino Basin	in Area	in Sa	in San Bernardino (County	Outside	Outside San Bernardino Valley	Valley
Calendar	Adjusted	Maximum	•	Adjusted	Maximum	•	Adjusted	Maximum	•	Adjusted	Maximum	•
Year	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual	Right ¹	Allowable ²	Actual
1971	4,3994	5,719	4,012	-1-	oʻ	þ	2,5094	3,262	2,388	1,8904	2,457	1,624
1972	4,294	5,582	4,532	-0-	þ	-	2,449	3,184	2,239	1,845	2,398	2,293
1973	4,294	5,582	3,512	¢	þ	¢	2,449	3,184	1,751	1,845	2,398	1,761
1974	4,294	5,582	4,088	-	ò	-	2,449	3,184	1,985	1,845	2,398	2,103
1975	4,294	5,582	4,709	¢	0	þ	2,449	3,184	2,002	1,845	2,398	2,707
1976	4,294	5,582	4,519	-0-	o-	0 -	2,449	3,184	2,050	1,845	2,398	2,469
1977	4,294	5,582	3,583	þ	þ	þ	2,449	3,184	1,820	1,845	2,398	1,763
1978	4,294	5,582	1,350	ģ	-	÷	2,449	3,184	1,051	1,845	2,398	299
1979	4,294	5,582	3,369	¢	0,	þ	2,449	3,184	1,781	1,845	2,398	1,588
1980	4,294	5,582	3,677	6	0	-0-	2,449	3,184	2,060	1,845	2,398	1,617
1981	4,294	5,582	3,604	0-	ò	0	2,449	3,184	2,151	1,845	2,398	1,453
1982	4,294	5,582	2,795	þ	0-	-0-	2,449	3,184	1,775	1,845	2,398	1,020
1983	4,294	5,582	3,161	0	9	0	2,449	3,184	2,318	1,845	2,398	843
1984	4,294	5,582	4,759	-0-	0-	0-	2,449	3,184	2,671	1,845	2,398	2,088
1985	4,294	5,582	3,312	o-	ò	þ	2,449	3,184	1,978	1,845	2,398	1,334
1986	4,294	5,582	4,744	ģ	þ	þ	2,449	3,184	2,130	1,845	2,398	2,614
1987	4,294	5,582	3,919	ģ	o	þ	2,449	3,184	2,229	1,845	2,398	1,690
1988	4,294	5,582	4,775	ģ	.	ģ	2,449	3,184	2,229	1,845	2,398	2,546

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.

FIVE-YEAR PERIOD ACCOUNTING OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA AND DELIVERIES TO EACH SERVICE AREA BY RIVERSIDE HIGHLAND WATER COMPANY (All Quantities in Acre-Feet)

11,333 10,803 8,826 7,736 6,720 5,977 7,899 8,569 10,388 6,521 7,021 6,738 9,341 Outside San Bernardino Valley Delivery to Areas Allowable² Maximum 9,225 9,225 9,225 9,225 9,225 9,225 9,225 9,225 9,225 Adjusted Right¹ 9,225 9,225 9,270 9,225 9,225 9,225 9,225 9,225 9,225 9,225 9,225 9,225 9,225 8,818 10,085 10,975 10,872 11,326 806'8 8,704 8,762 8,863 10,893 809'6 10,027 Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County Allowable² Maximum 12,245 12,245 12,245 12,245 12,245 12,245 12,245 12,245 12,245 12,245 12,245 Adjusted Right¹ 12,245 12,245 12,245 12,245 12,245 12,245 12,245 12,245 þ þ ģ þ þ þ þ þ þ þ þ þ þ Delivery to San Bernardino Basin Area Allowable² Maximum þ ģ þ ÷ þ þ ģ ģ þ þ Adjusted þ þ þ þ þ 9 ģ þ þ 0 þ 14,795 16,606 17,996 18,249 17,530 16,498 15,583 17,631 21,360 18,771 20,411 Verified Extractions from the San Bernardino Basin Area Allowable² Maximum 21,470 21,470 21,470 21,470 21,575 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 Adjusted Right¹ 21,5754 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 21,470 1975-79 1981-85 1982-86 1972-76 1974-78 1976-80 1978-82 1979-83 1980-84 1984-88 1973-77 1977-81 1983-87 Years

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.

Excess Extraction 1984-88

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.

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.

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

	Verified	Extractions 4	from the				Delivery	Delivery to Colton Basin and	sin and			
	San E	San Bernardino Basin Area	sin Area	San Bernar	ernardino Basin /	n Area	in Sa	in San Bernardino Coun	County	Outside	Delivery to Areas Outside San Bernardino	is Valley
Calendar	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	1	Adjusted	Maximum	•
Year	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³
1971	8,0264	10,434	2,902	+ -0-	0-	þ	3254	424	383	7,7004	10,010	2,519
1972	7,833	10,183	3,527	-0-	-0-	þ	318	413	377	7,515	9,770	3,150
1973	7,833	10,183	2,979	þ	0-	-	318	413	250	7,515	9,770	2,729
1974	7,833	10,183	4,504	-0-	0-	þ	318	413	246	7,515	9,770	4,258
1975	7,833	10,183	3,950	-0-	þ	-	318	413	168	7,515	9,770	3,782
1976	7,833	10,183	5,393	-	0	4	318	413	182	7,515	9,770	5,211
1977	7,833	10,183	4,220	0-	ó		318	413	146	7,515	9,770	4,074
1978	7,833	10,183	2,254	o-	0	-0-	318	413	161	7,515	9,770	2,093
1979	7,833	10,183	3,930	-	0	÷	318	413	166	7,515	9,770	3,764
1980	7,833	10,183	2,333	-0-	ò	-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-	þ	-0-	318	413	169	7,515	9,770	3,547
1983	7,833	10,183	2,651	þ	þ	0-	318	413	245	7,515	9,770	2,406
1984	7,833	10,183	5,165	þ	0	-0-	318	413	233	7,515	9,770	4,932
1985	7,833	10,183	5,385	þ	o	-0-	318	413	210	7,515	9,770	5,175
1986	7,833	10,183	5,570	þ	þ	-	318	413	234	7,515	9,770	5,336
1987	7,833	10,183	4,914	-0-	ģ	0-	318	413	193	7,515	9,770	4,721
1988	7,833	10,183	4,966	-0-	0	6	318	413	233	7,515	9,770	4,733

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

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

				, T				Delivery	Delivery to Colton Basin and	sin and	ſ	•	
		San E	San Bernardino Basin Area	iroin ule sin Area	San Be	Delivery to ernardino Basin Area	n Area	in Sa	KIVERSIDE BASIN AREAS in San Bernardino Coun	Areas County	Outside	Delivery to Areas Outside San Bernardino Valley	Valley
	Calendar	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	•	Adjusted	Maximum	•
	Years	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actua
	1971-75	39,3584	39,358	17,862	þ	0	þ	1,598	1,598	1,424	37,760	37,760	16,43
	1972-76	39,165	39,165	20,353	¢	þ	ģ	1,590	1,590	1,223	37,575	37,575	19,13
	1973-77	39,165	39,165	21,046	¢	þ	ģ	1,590	1,590	992	37,575	37,575	20,05
	1974-78	39,165	39,165	20,321	¢	þ	0-	1,590	1,590	903	37,575	37,575	19,41
	1975-79	39,165	39,165	19,747	þ	0-	0-	1,590	1,590	823	37,575	37,575	18,92
	1976-80	39,165	39,165	18,130	þ	-	þ	1,590	1,590	876	37,575	37,575	17,15
	1977-81	39,165	39,165	15,829	þ	0-	þ	1,590	1,590	1,154	37,575	37,575	14,67
	1978-82	39,165	39,165	15,325	þ	0	o	1,590	1,590	1,177	37,575	37,575	14,14
	1979-83	39,165	39,165	15,722		-	þ	1,590	1,590	1,261	37,575	37,575	14,46
A	1980-84	39,165	39,165	16,957	þ	0 -	þ	1,590	1,590	1,328	37,575	37,575	15,62
a	1981-85	39,165	39,165	20,009	þ	-	0-	1,590	1,590	1,215	37,575	37,575	18,79
	1982-86	39,165	39,165	22,487	þ	0.	0	1,590	1,590	1,091	37,575	37,575	21,39
	1983-87	39,165	39,165	23,685	þ	- 0-	o ,	1,590	1,590	1,115	37,575	37,575	22,57
	1984-88	39,165	39,165	26,000	þ	þ	ģ	1,590	1,590	1,103	37,575	37,575	24,89
	Excess												
	Extraction 1984-88		(13,165)*			o o			(487)*			(12,678)*	
									•				

¹ Adjusted Right as determined and reported to the Court in the Annual report of the Western-San Bernardino Watermaster for Calendar Year 1971, 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.

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)

Vallev		Actual	219	239	239	267	179	245	87	183	69	_	143	48	ģ	þ	ģ	4	195	179
Delivery to Areas San Bernardino Vallev	Maximum 2	Allowable	755	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269
Outside	Adjusted	Kignt-	5814	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365
asin and Areas County	A.4.113	Actual	-	÷	ф	ģ	þ	þ	þ	ģ	÷	ģ	þ	÷	þ	þ	þ	6	9	o¦
Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County			-	þ	þ	ģ	o	o-	þ	ģ	þ	ģ	þ	ģ	ģ	ģ	þ	þ	¢	þ
Delivery Rive in San	Adjusted Dight1	Night.	-0	o¦	6	o¦	þ	-	ò	ģ	ģ	ģ	þ	9	ģ	¢	o-	¢	ģ	-
n Area	Actual3	Vergal	-	-	ģ	þ	÷	0	-	þ	ģ	þ	¢	ģ	ģ	ģ	ģ	÷	ģ	9
Delivery to San Bernardino Basin Area	Maximum Allowable ²		ļ	þ	¢	þ	4	¢	÷	÷	o o	4	-0	.	o-	o l	o	ģ	÷	0
San Bo	Adjusted Right ¹	9	-0-	ģ	þ	ģ	-	ģ	ģ	þ	o o	÷	þ	þ	-	0	-0-	-0	ò	ģ
from the sin Area	Actual ³	940	617	239	239	797	179	245	87	183	83	1	143	48	þ	þ	0	48	195	179
Verified Extractions from the San Bernardino Basin Area	Maximum Allowable ²	75.5	CC)	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269
Verified San B	Adjusted Right ¹	5814	Toc	236 ₂	536 ⁵	5365	5365	536 ⁵	536 ⁵	5365	5365	5365	5365	5365	536 ⁵	5365	5365	5365	5365	5365
	Calendar Year	1071	1161	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988

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

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

FIVE-YEAR PERIOD ACCOUNTING OF EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA AND AND DELIVERIES TO EACH SERVICE AREA BY THE REGENTS OF UNIVERSITY OF CALIFORNIA (All Quantities in Acre-Feet)

								to Calban D.				
	Verifie	Verified Extractions from the	from the	ć	Delivery to	•		Riverside Basin Areas	sin and Vreas		Delivery to Areas	v/s
		San Bernardino Basin Area	in Area	San Bernar	ernardino Basin Area	n Area	ES. E	in San Bernardino County	County	Outside	Outside San Bernardino Valley	Valley
Calendar	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	1	Adjusted	Maximum	
Years	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³	Right ¹	Allowable ²	Actual ³
1971-75	2,7254	2,725	1,143	þ	þ	ģ	þ	þ	ģ	2.725	2,725	1 143
1972-76	2,680	2,680	1,169	0	-	0-	÷	4	o d	2,680	2,680	1 160
1973-77	2,680	2,680	1,017	þ	0-	ģ	ģ	o	.	2.680	2.680	1,017
1974-78	2,680	2,680	961	¢	-	ģ	÷	þ	¢	2.680	2.680	196
1975-79	2,680	2,680	777	ģ	ģ	þ	÷	-0-	o	2,680	2.680	111
1976-80	2,680	2,680	909	-0-	-	þ	þ	þ	o-	2.680	2,680	909
1977-81	2,680	2,680	503	þ	9	þ	ģ	þ	þ	2.680	2,680	203
1978-82	2,680	2,680	1 94	þ	þ	9	÷	þ	ģ	2.680	2.680	797
1979-83	2,680	2,680	281	ģ	þ	þ	ģ	0	ģ	2.680	2,680	281
1980-84	2,680	2,680	198	÷	ģ	þ	÷	þ	9	2,680	2.680	198
1981-85	2,680	2,680	191	÷	ģ	þ	þ	9	þ	2,680	2,680	191
1982-86	2,680	2,680	96	-	ģ	þ	þ	þ	-	2,680	2,680	96
1983-87	2,680	2,680	243	þ	þ	ģ	4	þ	÷	2,680	2,680	243
1984-88	2,680	2,680	422	ģ	0 -	þ	o	0-	ģ	2,680	2,680	422
	•											
Excess												
Extraction 1984-88		(2,258)*			-0-			ģ			(2,258)*	

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)

		Ca	lendar Years		
	1984	1985	1986	1987	1988
EXPORTS					
Adjusted Right	42,535	42,535	42,535	42,535	42,535
Actual Export ¹	36,413	31,604	32,085	30,842	30,964
ACCUMULATED EXPORT	36,413	68,017	100,102	130,944	161,908
<u>OBLIGATIONS</u>					
New Export ²	(6,122)	(10,931)	(10,450)	(11,693)	(11,571)
ACCUMULATED NEW EXPORT	(6,122)	(17,053)	(27,503)	(39,196)	(50,767)

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.

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)

		Ca	lendar Years	}	
	1984	1985	1986	1987	1988
EXPORTS					
Adjusted Right	12,527	12,527	12,527	12,527	12,527
Actual Export ¹	23,393	24,023	26,584	27,632	28,430
ACCUMULATED EXPORT	286,576 ³	310,599	337,183	364,815	393,245
<u>OBLIGATIONS</u>					
New Export ²	10,866	11,496 ⁴	14,057	15,105 ⁵	15,903 ⁶
ACCUMULATED NEW EXPORT	111,198 ³	122,694	136,751	151,856	167,759

¹ See Table 9 of Watermaster Report.

² Actual Export minus Adjusted Right.

³ Accumulated values beginning in 1984 include amounts accumulated through 1983.

⁴ Includes 10,681 acre-feet of additional water extracted under provisions of the February 25, 1985 and August 21, 1985 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

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.

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.

TABLE NO. 16

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

(All Values in Acre-Feet)

		Cal	endar Years		
	1984	1985	1986	1987	1988
EXTRACTIONS					
Base Right ¹	54,099	54,099	54,099	54,099	54,099
Actual Extractions ¹	43,366	37,370	34,840	34,154	36,418
ACCUMULATED EXTRACTIONS	43,366	80,736	115,576	149,730	186,148
CREDITS					
Extraction ²	10,733	16,729	19,259	19,945	17,681
Return from imported water	368	533	502	505	310
Total Credits	11,101	17,262	19,761	20,450	17,991
ACCUMULATED CREDITS	11,101	28,363	48,124	68,574	86,565
<u>OBLIGATIONS</u>					
Excess Extractions ³	0	0	0	0	0
New Export ⁴	0	0	0	0	0
Land Use Conversion ⁵	488	498	526	545	568
Total Obligations	488	498	526	545	568
ACCUMULATED OBLIGATIONS	488	986	1,512	2,057	2,625
NET ACCUMULATED (CREDIT) OR OBLIGATION	(10,613)	(27,377)	(46,612)	(66,517)	(83,940)

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.

See Table 14. Note that New Export is shown as zero when Accumulated Export is less than Base Right.

⁵ See Table 7.

TABLE NO. 17

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

(All Values in Acre-Feet)

		Ca	lendar Year	s	
	1984	1985	1986	1987	1988
<u>EXTRACTIONS</u>					
Adjusted Right ¹	167,238	167,238	167,238	167,238	167,238
Actual Extractions ¹ ACCUMULATED	180,808	177,919 ¹²	•	172,501 ¹⁴	•
EXTRACTIONS	2,193,878 ⁵	2,371,797	2,556,531	2,729,032	2,907,757
<u>CREDITS</u>			•	, ,	_,,,
Extraction ²	-0-	-0-	-0-	-0-	-0-
Replenishment	405 ⁷	1,156 ⁸	-05	9,776 ¹⁰	5,461 ¹¹
Total Credits	405	1,156	-0-	9,776	5,461
ACCUMULATED CREDITS	300,764 ⁵	301,920	301,920	311,696	317,157
<u>OBLIGATIONS</u>					
Excess Extractions ³	13,570	-0-13	17,496	-0- ¹⁵	-0- ¹⁷
New Export	10,866	815 ¹³	14,057	9,842 ¹⁵	* 17
Total Obligations ACCUMULATED	24,436	815	31,553	9,842	*
OBLIGATIONS NET ACCUMULATED (CREDIT)	130,169 ⁵	130,984	162,537	172,379	•
OR OBLIGATIONS	(170,595) ⁵	(170,936)	(139,383)	(139,317)	*

¹ See Table 2.

Actual Extraction minus Adjusted Right.

⁴ See Table 15.

⁶ This number not used.

Total import of State Project Water by SBVMWD was 7,390 acre-feet. However, 2,701 acre-feet of this amount were delivered directly, and 3,533 acre-feet were delivered into Colton Basin for replenishment.

Total import of State Project Water by SBVMWD was 6,421 acre-feet. However, 1,441 acre-feet of this amount were delivered directly, and 4,980 acre-feet were delivered into Colton Basin for replenishment.

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.

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.

lncludes 10,681 acre-feet of additional water extracted under provisions of the February 25, 1985 and August 21, 1985 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

Excludes 10,681 acre-feet of additional water extracted and exported under provisions of the February 25, 1985 and August 21, 1985 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

Includes 5.263 acre-feet of additional water extracted under provisions of the August 21, 1985 and 1985 and 1985 acre-feet of additional water extracted under provisions of the August 25, 1985 and 1985 are 1985 and 1985 and 1985 are 1985 are 1985 and 1985 are 1

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 agreements prepared in accordance with paragraph VI(b)6 of the Judgment.
 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

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 agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

7 Excludes 11,487 acre-feet of additional water extracted under provisions of the January 20, 1988 amendment to the

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.

* Committee Member Reiter can not agree with the procedure previously used to determine this amount.

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

⁵ Accumulated values beginning in 1984 include amounts accumulated through 1983.

⁷ Total import of State Project Water by SBVMWD was 5,556 acre-feet. However, 1,490 acre-feet of this amount were delivered directly, and 3,661 acre-feet were delivered into Colton Basin for replenishment.

TABLE NO. 18

SUMMARY OF REPLENISHMENT OBLIGATIONS WESTERN AND SAN BERNARDINO VALLEY FIVE-YEAR PERIOD 1984 THROUGH 1988 (All Values in Acre-Feet)

WESTERN MUNICIPAL WATER DISTRICT

	San Bernardino Basin Area	Colton and Riverside Basins
Accumulated Credits ¹	(See Tables 10-13)	86,565
Accumulated Obligations ¹		2,625
Net Accumulated (Credit) or Obligation		(83,940)
Excess Extraction Return Credit ²		_
REPLENISHMENT REQUIRED		_

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

	San Bernardino Basin Area	Colton Basin and Riverside Basin in San Bernardino County
Accumulated Credits ³	317,157 ⁴	28,503
Accumulated Obligations ³	a 4	_
Net Accumulated (Credit) or Obligation ³	• 4	(28,503)
Excess Extraction Return Credit ²		
REPLENISHMENT REQUIRED		_

¹ Reference Table 16 for Colton and Riverside Basins.

When a net accumulated obligation exists, excess extraction returns are computed as 36% of the excess extraction and are subtracted from the net accumulated obligation to determine the required replenishment.

³ Reference Table 17.

⁴ includes amounts accumulated prior to 1984.

^{*} Committee Member Reiter can not agree with the procedure previously used to determine this amount.