#### WESTERN-SAN BERNARDINO WATERMASTER

FOR

WESTERN MUNICIPAL WATER DISTRICT, et al

VS.

EAST SAN BERNARDINO COUNTY WATER DISTRICT, et al CASE NO. 78426 - COUNTY OF RIVERSIDE

#### ANNUAL REPORT

OF THE

### WESTERN-SAN BERNARDINO WATERMASTER

**FOR** 

**CALENDAR YEAR 1987** 

**AUGUST 1, 1988** 

WESTERN MUNICIPAL WATER DISTRICT, ET AL

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

AUG -1 1988

WILLIAM E. CONERLY, Clerk

Christman D. Christ

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

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

August 1, 1988

TO:

Clerk of Superior Court of Riverside County and All Parties

RE:

Watermaster Report for Calendar Year 1987

Gentlemen:

We have the honor of submitting the Annual Report of the Western San Bernardino Watermaster for the Calendar Year 1987.

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, 1988, and presents the findings of the Watermaster for Calendar Year 1987 and summarizes the five-year period 1982 through 1986.

During the period 1982 through 1986 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 and 1985 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.

Provisions of the Judgment require that Western and San Bernardino Valley provide groundwater replenishment if certain base rights are exceeded. determination of replenishment obligations for the five-year period 1982 through 1986 indicates that neither Western nor San Bernardino Valley is 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 1987, pursuant to the requirements of the Judgment.

Respectfully submitted,

WESTERN-SAN BERNARDINO WATERMASTER

Donald L. Harriger

#### WESTERN-SAN BERNARDINO WATERMASTER

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EAST SAN BERNARDINO COUNTY WATER DISTRICT, et al CASE NO. 78426 - COUNTY OF RIVERSIDE

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FOR

CALENDAR YEAR 1987

**AUGUST 1, 1988** 

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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 1987 includes a description and summary of the work completed during 1987 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 1986. The scope of this report for 1987 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 Base 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 1987 together with the annual accounting of extractions and deliveries for the calendar year 1986.

#### 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
1.	Total actual average annual extractions from the San Bernardino Basin Area by entities other than plaintiffs for use within San Bernardino County.	x	x
2.	The natural safe yield of the San Bernardino Basin Area based upon the cultural conditions equivalent to those existing during the five-calendar-year period ending with 1963.	1	1

	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	<b>x</b>
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.

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

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

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

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

# 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 1986 and are summarized herein. Listings of the verified extractions by each individual owner for the calendar year 1986 are assembled in Report of Watermaster, Volumes 1-1986, 1A-1986, 2-1986, 3-1986, and 4-1986.

#### 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 1986 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-1986.

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:

- 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 1986 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, in Volume 6-1986.

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 1986 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-1986.

#### 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 1986 in Volume 8 of previous Watermaster reports. The determination for the calendar year 1987 is shown in the Report of Watermaster, Volume 8-1986.

#### 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 1986 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, 1987 to September 30, 1988

Santa Ana River near Mentone	\$ 3,675
Mill Creek Power Canal #1 near Yucaipa	4,400
Plunge Creek near East Highland	8,075
Devil Canyon Creek near San Bernardino	3,675
East Twin Creek near Arrowhead Springs	4,175
City Creek near Highland	3,675
San Timoteo Creek near Loma Linda	3,675
Lonepine Creek near Keenbrook	3,675
Lytle Creek at Fontana Union Head Gates	
Lytle Creek near Fontana Streamflow	3,675
Weir No. 2Infiltration Line	2,200
Weir No. 3Head Gate Diversion	2,200
Weir No. 4Breed Line Diversion	2,200
20-ft.WeirReturn to Creek	4,400
Southern California Edison Lower Power House on Lytle Creek	
20-ft.WeirDischarge Lower Power House	4,400
Parshall FlumeReturn to Creek from Afterbay	4,400
Fontana Diversion (20-ft. Weir, West)	4,400
SUBTOTAL FOR PARTIES AND WATERMASTER	<b>\$</b> 62,900
United States Geological Survey	<u>\$40,900</u>
TOTAL	\$103,800

#### 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 1986, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 1986 verifications are included in Report of Watermaster, Volume 1-1986.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the calendar years 1971 through 1986 are shown on Table No. 3. The individual work sheets for the 1986 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-1986 and Volume 5-1986.

For reference, the Adjusted Base 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
<u>Year</u>	(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

TABLE NO. 2

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

(All Values in Acre-Feet)

	Verified	Extractions		
	By Owners	By Owners		
Calendar	Who Have Filed	Who Have Not Filed		Adjusted
Year	With SWRCB	With SWRCB	<u>Total</u>	Base Right
1971	154,836 <sup>2</sup>	8,350 <sup>2</sup>	163,186 <sup>2</sup>	171,342 <sup>1</sup>
1972	159,628 <sup>2</sup>	7,599 <sup>2</sup>	167,227 <sup>2</sup>	167,238
1973	152,604 <sup>3</sup>	7,177 <sup>3</sup>	159,781 <sup>3</sup>	167,238
1974	153,099 <sup>4</sup>	5,586 <sup>4</sup>	158,685 <sup>4</sup>	167,238
1975	147,199	4,482	151,681	167,238
1976	140,329 <sup>5</sup>	3,988 <sup>5</sup>	144,317 <sup>5</sup>	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 <sup>6</sup>	5,504	159,422 <sup>6</sup>	167,238
1981	167,564	5,075	172,639	167,238
1982	148,250 <sup>7</sup>	4,790	153,040 <sup>7</sup>	167,238
1983	142,0888	4,346	146,434 <sup>8</sup>	167,238
1984	175,605 <sup>8</sup>	5,203	180,808 <sup>8</sup>	167,238
1985	172,976 <sup>8</sup>	4,943 <sup>8</sup>	177,919 <sup>8</sup>	167,238
1986	180,002	4,892	184,894	167,238

Note: See Report of Watermaster, Volume 1.

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

<sup>&</sup>lt;sup>2</sup> Amount corrected during verification of 1973 extractions.

<sup>&</sup>lt;sup>3</sup> Amount corrected during verification of 1974 extractions.

<sup>&</sup>lt;sup>4</sup> Amount corrected during verification of 1975 extractions.

<sup>&</sup>lt;sup>5</sup> Amount corrected during verification of 1977 extractions.

Amount corrected during verification of 1981 extractions. Amount corrected during verification of 1983 extractions.

<sup>&</sup>lt;sup>8</sup> Amount corrected during verification of 1986 extractions.

TABLE NO. 2

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

(All Values in Acre-Feet)

<u>Verified Extractions</u>		Extractions			
_	Five-Year Period	By Owners Who Have Filed With SWRCB	By Owners Who Have Not Filed With SWRCB	Total	Adjusted Base 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	818,921	24,174	843,095	836,190

TABLE NO. 3

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

(All Values in Acre-Feet)

**Plaintiffs** 

59,438 57,477<sup>2</sup> 50,744 47,083 49,445 54,132 1,427 98<sup>2</sup> 85 156 52,226 3,440 3,163 2,513 2,781 2,668 61,015 53,992 49,752 64,862 56,800 Total Regents of the University of California 536 219 239 239 267 179 536 219 239 239 267 00000 00000 Agua Mansa Water Company and Meeks & Daley Water Co. 7,833 2,902 3,527 2,979 4,504 3,950 318 383 377 250 246 168 2,519 3,150 2,729 4,258 3,782 00000 515 Riverside Highland Water Company 4,012 4,532 4,532 4,088 4,709 2,449 2,388 2,239 1,751 1,985 2,002 4.294 00000 ,845 2,293 1,761 2,103 2,707 City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company) 49,542 53,115<sup>2</sup> 1,427 98<sup>2</sup> 45,694 43,022 43,367 47,962 156 699 547 512 550 550 498 42,354 42,817 47,464 52,199 53,882 230 45,062 Adjusted Base Right<sup>1</sup> 1971 Extractions Adjusted Base Right<sup>1</sup> Adjusted Base Right<sup>1</sup> Adjusted Base Right<sup>1</sup> 1971 Extractions Extractions Extractions 1971 Extractions Extractions 1971 Extractions 1975 1974 1975 1974 1974 1975 1972 1973 1972 1973 1974 1975 1972 1973 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 Basin Area Delivery to Basin Area County Outside

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

<sup>&</sup>lt;sup>2</sup> 1971 amount corrected during verification of 1972 extractions. Note: See Report of Watermaster, Volume 1A and Volume 5.

TABLE NO. 3

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

(All Values in Acre-Feet)

Plaintiffs

•		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
Total Extractions in San Bernardino Basin Area	Adjusted Base Right <sup>1</sup> 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions	52,199 51,374 50,999 45,384 52,377 50,756	4,294 4,519 3,583 1,350 3,369 3,677	7,833 5,393 4,220 2,254 3,930 2,333	536 245 87 183 83	64,862 61,531 58,889 49,171 59,759 56,773
Delivery to San Bernardino Basin Area	Adjusted Base Right <sup>1</sup> 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions	1,427 0 0 646 <sup>2</sup> 383	00000	00000	00000	1,427 0 0 646 <sup>2</sup> 383
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Base Right <sup>1</sup> 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions	1,230 523 346 301 415	2,449 2,050 1,820 1,051 1,781 2,060	318 182 146 161 323	00000	3,997 2,755 2,312 1,513 2,362 <sup>3</sup> 2,383
Delivery to Area Outside San Bernardino Valley	Adjusted Base Right <sup>1</sup> 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions	49,542 50,851 50,653 44,437 <sup>2</sup> 51,962 50,373	1,845 2,469 1,763 299 1,588 1,617	7,515 5,211 4,074 2,093 3,764 <sup>3</sup> 2,010	536 245 87 183 83	59,438 58,776 56,577 47,012 <sup>2</sup> 57,397 <sup>3</sup>

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

<sup>&</sup>lt;sup>2</sup> Amount corrected during verification of 1980 extractions.

<sup>&</sup>lt;sup>3</sup> Amount corrected during preparation of report for Calendar Year 1982. Note: See Report of Watermaster, Volume 1A and Volume 5.

TABLE NO. 3

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

(All Values in Acre-Feet)

**Plaintiffs** 

	÷	City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
Total Extractions of San Bernardino Basin Area	Adjusted Base Right <sup>1</sup> 1981 Extractions 1982 Extractions 1983 Extractions 1984 Extractions 1985 Extractions	52,199 52,157 49,599 46,064 58,906 63,073	4,294 3,604 2,795 3,161 4,759 3,312	7,833 3,092 3,716 2,651 5,165 5,385	536 143 48 0 0	64,862 58,996 56,158 51,876 68,830 71,770
Delivery to San Bernardino Basin Area	Adjusted Base Right <sup>1</sup> 1981 Extractions 1982 Extractions 1983 Extractions 1984 Extractions	1,427 724 162 <sup>2</sup> 335 32 59	00000	00000	00000	1,427 124 162 <sup>2</sup> 335 32 59
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Base Right <sup>1</sup> 1981 Extractions 1982 Extractions 1983 Extractions 1984 Extractions	1,230 0 0 0 0	2,449 2,151 1,775 2,318 1,978	318 358 169 245 233 210	00000	3,997 2,509 1,944 2,563 2,904 2,188
Delivery to Area Outside San Bernardino Valley	Adjusted Base Right <sup>1</sup> 1981 Extractions 1982 Extractions 1983 Extractions 1984 Extractions	49,542 51,433 49,437 <sup>2</sup> 45,729 58,874 63,014	1,845 1,453 1,020 843 2,088 1,334	7,515 2,734 3,547 2,406 4,932 5,175	536 143 48 0	59,438 55,763 54,075 48,978 65,894 69,533

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

<sup>&</sup>lt;sup>2</sup> Amount corrected during verification of 1983 extractions. Note: See Report of Watermaster, Volume 1A and Volume 5.

TABLE NO. 3

Page 4 of 4

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

Plaintiffs

		City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)	Riverside Highland Water Company	Agua Mansa Water Company and Meeks & Daley Water Co.	Regents of the University of California	Total
Total Extractions of San Bernardino Basin Area	Adjusted Base Right <sup>1</sup> 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions	52,199 59,979	4,294 4,744	7,833 5,570	536 48	64,862 70,341
Delivery to San Bernardino Basin Area	Adjusted Base Right <sup>1</sup> 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions	1,427		00	00	1,427 437
Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County	Adjusted Base Right <sup>1</sup> 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions	1,230	2,449	318 234	00	3,997 2,364
Delivery to Area Outside San Bernardino Valley	Adjusted Base Right <sup>1</sup> 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions	49,542 59,542	1,845 2,614	7,515 5,336	53 4 8	59,438 67,540

Adjusted Base 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 BASE RIGHTS OF PLAINTIFF EXPORTERS

#### **CHAPTER IV**

#### NATURAL SAFE YIELD OF THE SAN BERNARDINO BASIN AREA AND ADJUSTED BASE 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 Base Rights of Plaintiff exporters were also determined. Such determination of safe yield and Adjusted Base 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 Base Rights of Plaintiff Exporters.

The Adjusted Base 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 Base 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 base 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 <sup>1</sup>

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

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

<sup>&</sup>lt;sup>1</sup> Effective January 1, 1972.

The Adjusted Base 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 1986 calendar year have been verified by the Watermaster as 1,600 acre-feet and 8,655 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-1986, Volume 3-1986, and Volume 5-1986 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, respectfully.

## 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 1986 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-1986, 3-1986 and 5-1986.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for the calendar years 1971 through 1986 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)

			Extracted by Riverside County Entities			
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	3	3				
1959-63 Avg.	11,731 <sup>3</sup>	8,235 <sup>3</sup>	3,496	115	3,381	3,381
1971	11,388 <sup>2</sup>	8,363 <sup>2</sup>	3,025	248	2,777	3,381
1972	10,414	7,532	2,882	271	2,611	3,381
1973	7,844	6,982	862	247	615	3,381
1974	8,906	7,169	1,737	273	1,464	3,381
1975	11,083	6,821	4,262	389	3,873	3,381
1976	11,558 <sup>4</sup>	8,605 <sup>4</sup>	2,953	270	2,683	3,381
1977	8,777	6,061	2,716	447	2,269	3,381
1978	7,663	6,430	1,233	338	895	3,381
1979	7,194	5,224	1,970	288	1,682	3,381
1980	5,681 <sup>5</sup>	5,610 <sup>5</sup>	71	0	71	3,381
1981	6,348	6,175	173	0	173	3,381
1982	6,499	5,450	1,049	68	981	3,381
1983	4,735 <sup>6</sup>	4,603 <sup>6</sup>	132	37	95	3,381
1984	8,987	7,441	1,546	206	1,340	3,381
1985	10,149	7,142	3,007	763	2,244	3,381
1986	10,035	7,651	2,384	784	1,600	3,381

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

<sup>&</sup>lt;sup>2</sup> Amount corrected during verification of 1972 extractions.

<sup>&</sup>lt;sup>3</sup> Amount corrected during verification of 1972 and 1973 extractions.

<sup>&</sup>lt;sup>4</sup> Amount corrected during verification of 1977 extractions.

<sup>&</sup>lt;sup>5</sup> Amount corrected during verification of 1981 extractions.

<sup>&</sup>lt;sup>6</sup> 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	
Five-Year Period	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
Base Period 1959-63	58,655	41,175	17,480	575	16,905	16,905
1971-75	49,635	36,867	12,768	1,428	11,340	16,905
1972-76	49,805	37,109	12,696	1,450	11,246	16,905
1973-77	48,168	35,638	12,530	1,626	10,904	16,905
1974-78	47,987	35,086	12,901	1,717	11,184	16,905
1975-79	46,275	33,141	13,134	1,732	11,402	16,905
1976-80	40,873	31,930	8,943	1,343	7,600	16,905
1977-81	35,663	29,500	6,163	1,073	5,090	16,905
1978-82	33,385	28,889	4,496	694	3,802	16,905
1979-83	30,457	27,062	3,395	393	3,002	16,905
1980-84	32,250	29,279	2,971	311	2,660	16,905
1981-85	36,718	30,811	5,907	1,074	4,833	16,905
1982-86	40,405	32,287	8,118	1,858	6,260	16,905

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)

Extracted by Riverside County Entities Extractions Base Right for Total Extracted by Used in Used in for Use in San Bernardino Calendar from San Bernardino Riverside Riverside Years Basin County Entities Total County County 1 County Five-Year Base Period 1959-63 Avg. 9,609 24,120 3,035 21,085 33,729 21,985 1971 29,070 8,748 20,322 18,108 2,214 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 6,899 1974 21,881 14,982 1,399 13,583 21,085 1975 22,701 6,513 16,188 1,225 14,963 21,085 24,705 6,898 17,807 1,666 16,141 21,085 1976 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 18,533  $5.932^{2}$ 12,601<sup>2</sup> 3,410  $9.191^{2}$ 1980 21,085 1981 23,611 6,811 16,800 3,733 13,067 21,085 5,409  $11,940^3$  $3,483^3$ 1982  $17,349^3$ 8,457 21,085  $11,904^3$  $5.204^{3}$  $6,700^3$ 2,9253 1983 3,775 21,085 1984 17,161 5,648 11,513 1,953 9,560 21,085 1985 19,3924 6.0484 13,344 2,143 11,201 21,085 1986 17,337 7,437 9,900 1,245 8,655 21,085

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

<sup>&</sup>lt;sup>2</sup> Amounts corrected during verification of 1981 extractions.

<sup>&</sup>lt;sup>3</sup> Amounts corrected during verification of 1984 extractions.

Amounts corrected during verification of 1986 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 from San Bernardino 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

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

#### Minimum Water Surface Elevations

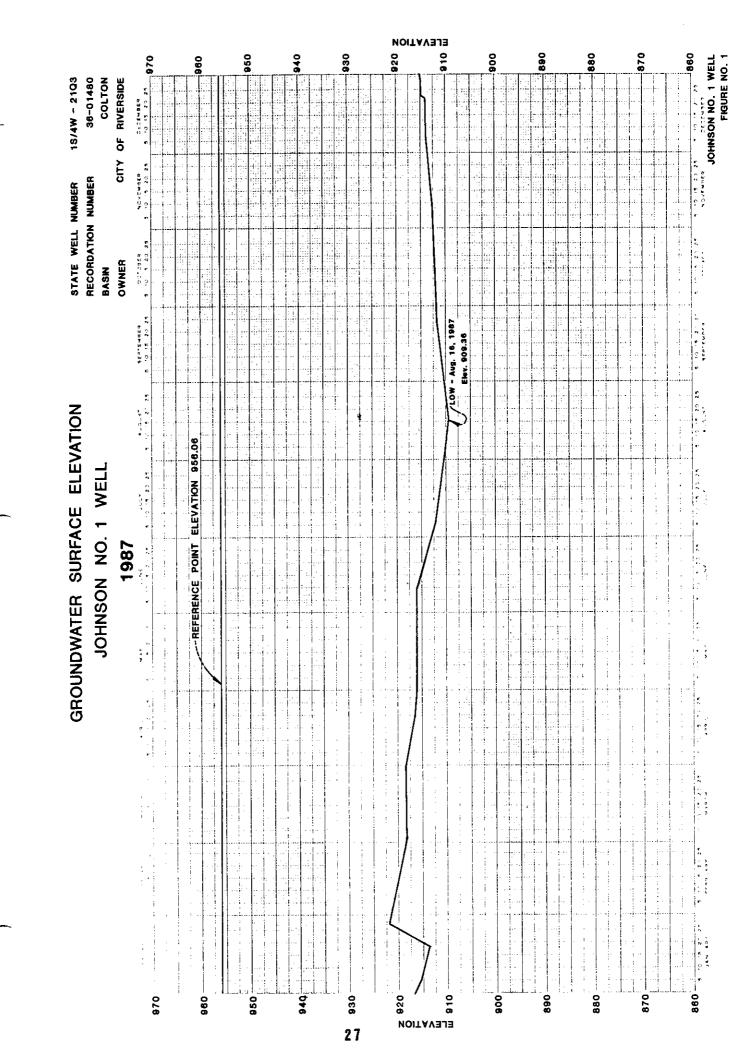
Extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited, provided that the average static water surface elevation as measured at wells numbered 1S/4W-21Q03, 1S/4W-29H01, and 1S/4W-29Q01 is not less 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.

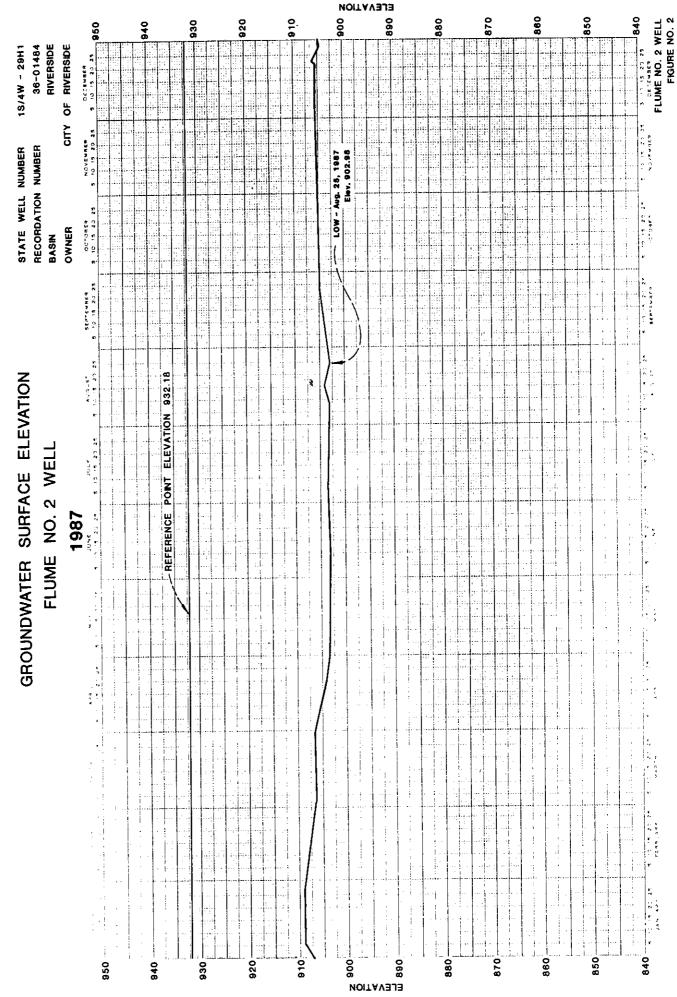
Hydrographs of the 1987 static water surface elevations in the three key wells are shown on Figures 1, 2, and 3 which follow. Data pertinent to the key wells as well as the records of historic water surface measurements are included in Report of Watermaster, Volume 8-1986 entitled *Ground Water Surface 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, 1987.

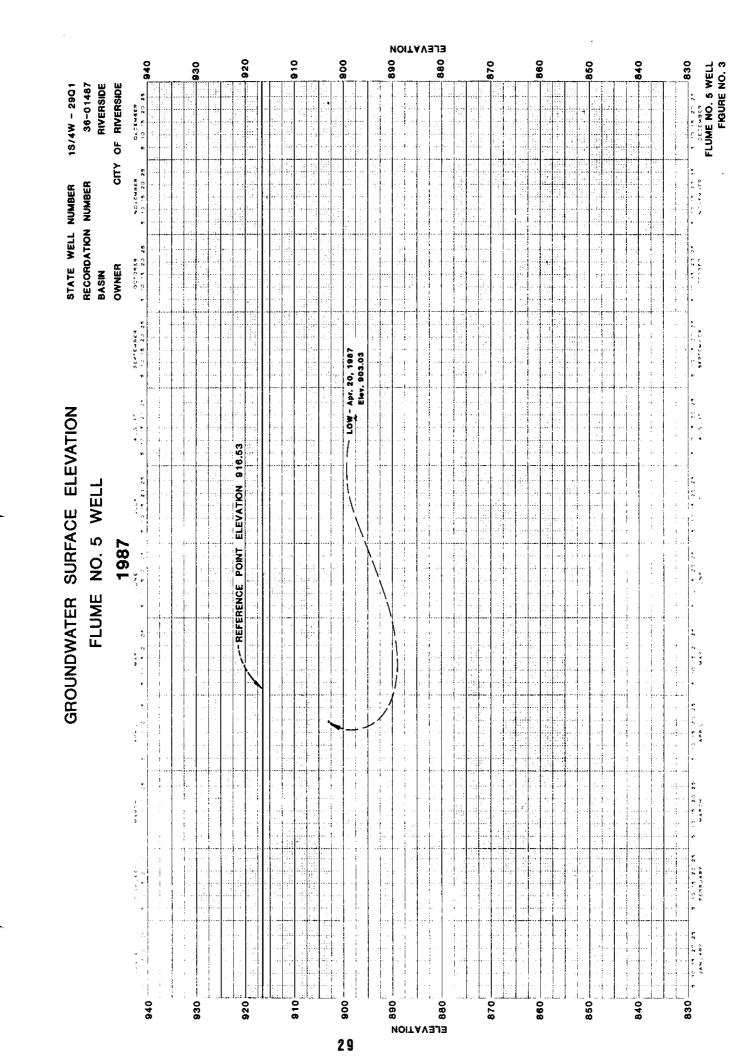
The lowest static water surface elevation measured in each of the three wells during the fall of 1987 is as follows:

Well Number	Date of Measurement	Elevation of Water Surface
1S/4W-21Q03	8/16/87	909.36
1S/4W-29H01	8/25/87	902.98
1S/4W-29Q01	4/20/87	903.03
	Average	905.12

Thus, the lowest average fall water surface elevation for the calendar year 1987 is 3.37 feet lower than the 1986 average of 908.49 and 83.08 feet higher than the 1963 average of 822.04.







#### 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 1986 have been verified by the Watermaster as 25,308 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-1986 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 <sup>1</sup>	29,633
1972	37,804 <sup>2</sup>	29,633
1973	33,094	29,633
1974	38,304 <sup>2</sup>	29,633
1975	28,285	29,633
1976	31,565	29,633
1977	28,226	29,633
1978	24,878 <sup>3</sup>	29,633
1979	25,512	29,633
1980	30,206 <sup>4</sup>	29,633
1981	30,243 <sup>4</sup>	29,633
1982	20,365 <sup>5</sup>	29,633
1983	22,991 <sup>5</sup>	29,633
1984	32,466 <sup>6</sup>	29,633
1985	23,925	29,633
1986	25,308	29,633

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>3</sup> Amount corrected during verification of 1980 extractions.

<sup>&</sup>lt;sup>4</sup> Amount corrected during verification of 1983 extractions.

<sup>&</sup>lt;sup>5</sup> Amount corrected during verification of 1984 extractions.

<sup>&</sup>lt;sup>6</sup> Amount corrected during verification of 1985 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)

Total Verified Extractions	Base Right for Use in Riverside County
148,165	148,165
168,429	148,165
169,052	148,165
159,474	148,165
151,258	148,165
138,466	148,165
140,387	148,165
139,065	148,165
131,204	148,165
129,317	148,165
136,271	148,165
129,990	148,165
123,672	148,165
	Verified Extractions  148,165  168,429  169,052  159,474  151,258  138,466  140,387  139,065  131,204  129,317  136,271  129,990

#### 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, 1985. These maps showing the 1986 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 1982 through 1986 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	<u>Total</u>
1982	197	38	182	0	417
1983	197	38	205	0	440
1984	197	38	253	0	488
1985	205	38	255	0	498
1986	213	38_	275	0	526
TOTAL 1982-86	1,009	190	1,170	0	2,369

Table No. 7 shows that in 1986 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 526 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 1986 were verified by the Watermaster to be 32,085 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 6-1986, 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

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) VERIFIED EXTRACTIONS FROM

				Calendar Years		
	Lincop	1982 Varified	1983 Varified	1984 Verified	1985 Varified	1986 Varified
Entities Within WMWD	1959-63 Average	Delivery	Delivery	Delivery	Delivery	Delivery
City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company	23,836	23,3741	24,484	28,515	24,697	25,111
Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water received from City of Riverside	13,229	4,690	3,299	5,895	4,7382	5,417
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	1,106	817	1,160	945	684
Jurupa Community Services District	531	0		527	006	545
Rubidoux Community Services District	36	252	276	316	324	328
TOTAL	42,535	29,4221	28,876	36,413	31,6042	32,085

<sup>&</sup>lt;sup>1</sup> Amounts corrected during verification of 1983 extractions.

<sup>&</sup>lt;sup>2</sup> 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 1986, were verified by the Watermaster to be 26,098 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 1986 calendar year indicated that during 1986 San Bernardino Valley Municipal Water District diverted 486 acre-feet of water from Mill Creek and delivered such water to the Yucaipa Basin as shown on Table No. 9. During 1986, 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 FOR USE ON LANDS NOT WITHIN WESTERN NOR TRIBUTARY TO THE RIVERSIDE NARROWS VERIFIED EXTRACTIONS FROM THE (All Values in Acre-Feet)

				Calendar Years		
Entitles	Annual 1959-63 Average	1982 Verified Delivery	1983 Verified Delivery	1984 Verified Delivery	1985 Verified Delivery	1986 Verified Delivery
Fontana Union Water Company	10,1701	16,333	21,1243	19,220	18,623	21,832
West San Bernardino County Water District	1,806	2,989	2,951	2,903	3,606	3,252
City of Rialto	5511	515	632	949	731	1.014
Subtotal (Delivery to Chino Basin)	12,527	19,837	24,707 <sup>3</sup>	23,072	22,960	26,098
San Bernardino Valley Municipal Water District	0	625 <sup>2</sup>	1,5542	3212	1,0632	4862
Subtotal (Delivery to areas other than Chino Basin)	0	625	1,554	321	1,063	486
TOTAL	12,5271	20,462	26,261 <sup>3</sup>	23,393	24.023	26.584

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

26,584

24,023

26,261<sup>3</sup>

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

<sup>&</sup>lt;sup>2</sup> Water diverted from Mill Creek and delivered to the Yucaipa Regional Park by SBVMWD.

<sup>&</sup>lt;sup>3</sup> Amount corrected during verification of 1984 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 Base 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 provides for the City of Riverside to extract and export up to 10,000 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, and 1985.

In 1986, City of Riverside extracted additional water under terms of the 1981 agreement in accordance with payment provisions adopted by SBVMWD at its Board

Meeting on January 20, 1986. Footnotes on Table 10 indicate that the City of Riverside extracted 10,000 acre-feet of additional water for export from the San Bernardino Basin Area during 1986.

In summary, Tables 10 through 13 indicate that extractions from the San Bernardino Basin Area and deliveries to the specified areas by all Plaintiffs during the five-year period 1982 through 1986 were less than their respective Adjusted Base Rights.

#### 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 1982 through 1986, the Non-Plaintiffs' production did exceed the Adjusted Base Right. (See Table 17)

A comparison of Adjusted Base Rights to actual production by Plaintiffs and Non-Plaintiffs for the period 1982 through 1986 is as follows:

	(Ali V	Values in Acre-Feet)	
	Adjusted Base Right 1982–1986	Actual Extractions	Difference
Plaintiffs	324,310	318,975	5,335
Non-Plaintiffs	836,190	843,095	(6,905)
TOTAL	1,160,500	1,162,070	(1,570)

#### 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 excess exports to these nontributary lands located in Riverside County and San Bernardino County, respectively.

Tables 14 and 15 indicate the Base 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 1982 through 1986 the export by entities within Western was 54,275 acre-feet less than the Base Right.

Table 15 shows that exports from San Bernardino Valley for use in San Bernardino County exceeded the Base Right for the period 1971 through 1986 by 136,751 acre-feet. The obligation of San Bernardino Valley resulting from this excess 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 1983, 1984, 1985, and 1986 has been excluded from amounts of export shown on Table 14. The additional water extracted by Non-Plaintiffs in 1985 has not been excluded from the amount of export shown on Table 15; however, the 10,681 acre-feet of additional water extracted by Non-Plaintiffs in 1985 has been excluded from the computation of excess export on Table 17 (See Footnote 13).

#### 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 1982 through 1986 were 97,532 acre-feet less than the total five-year Base Right. This under-extraction results in extraction credits for the five-year period 1982 through 1986 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 99,583 acre-feet.

Since actual extractions have not exceeded the Base Right during the period 1982 through 1986, 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 excess exports to areas not tributary to the Riverside Narrows. However, land conversion from agricultural uses to urban uses within Western during the period 1982 through 1986 has resulted in an obligation of 2,369 acre-feet. (See Table 7) Therefore, Western's total accumulated obligation during the period 1982 through 1986 is 2,369 acre-feet.

In summary, Table 16 shows that during the five-year period 1982 through 1986 Western's accumulated credits exceeded its accumulated obligation by 97,214 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 1982.

As indicated previously, the actual extractions from the San Bernardino Basin Area were greater than the Base Right during the period 1982 through 1986. The actual extractions for 1986 were greater than the annual Base Right; therefore, the extraction credit for 1986 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 1986 total 306,965 acre-feet.

Actual extractions exceeded the Base Right in 1984, 1985, and 1986. Table 17 indicates an obligation related to the excess extraction in 1984 of 13,570 acre-feet and in 1986 of 17,656 acre-feet. The accumulated obligation resulting from excess extractions in 1984 and 1986, and excess export during the period 1971 through 1986 is 162,697 acre-feet as shown on Table 17.

In summary, Table 17 shows that at the end of the five-year period 1982 through 1986 San Bernardino Valley's accumulated credits exceeded its accumulated obligations by 144,268 acre- feet.

Chapter V indicates that extractions in the Colton Basin Area and Riverside Basin Area in Riverside 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 1982 through 1986 the actual water surface elevation remained higher than the specified minimum; therefore, no additional water is required for maintenance of these Basins.

#### Replenishment Requirements

Table 18 summarizes the accumulated credits and obligations of both Western and San Bernardino Valley. The credits exceeded the obligations for both parties during the five-year period 1982 through 1986. 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 neither Western nor San Bernardino Valley is required to provide additional replenishment for obligations incurred during the five-year period 1982 through 1986.

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

Adjusted   Maximum   Adjusted   Adjusted   Maximum   Adjusted   Adjusted   Maximum   Adjusted   Adjusted   Maximum   Adjusted   Adjus						•	٠					
Maximum         Adjusted         Maximum         Adjusted         Maximum         Adjusted         Maximum           Allowable 2         53,882         1,462 <sup>4</sup> 1,901         98         1,260 <sup>4</sup> 1,638         669         50,726 <sup>4</sup> 65,944           60,482         53,882         1,462 <sup>4</sup> 1,901         98         1,230         1,699         577         40,524         65,944           67,859         45,694         1,427         1,855         156         1,230         1,599         577         49,542         65,044           67,859         43,067         1,427         1,855         0         1,230         1,599         520         49,542         64,405           67,859         43,067         1,427         1,855         0         1,230         1,599         520         49,542         64,405           67,859         47,962         1,427         1,855         0         1,230         1,599         520         49,542         64,405           67,859         47,364         1,427         1,855         0         1,230         1,599         520         49,542         64,405           67,859         45,367         1,427         1,855	Verifie San	ed Extractions for Besi	rom the in Area		Delivery to Bernardino Basîr	1 Area	Delivery Riv In Si	r to Colton Bas erside Basin Ar an Bernardino C	in and reas ounty	Outside	Delivery to Area San Bernardino	s Valley
CIANTAGE         CASSON         CASSON         LIGAT	Adjusted	Maximum	واجباء	Adjusted Right <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>	Adjusted Right <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>	Adjusted Right <sup>1</sup>	Maximum Allowable <sup>2</sup>	Actual <sup>3</sup>
67,859         45,644         1,427         1,855         85         1,230         1,599         547         49,542         64,405           67,859         43,654         1,427         1,855         156         1,230         1,599         512         49,542         64,405           67,859         43,067         1,427         1,855         0         1,230         1,599         550         49,542         64,405           67,859         47,962         1,427         1,855         0         1,230         1,599         49,542         64,405           67,859         51,374         1,427         1,855         0         1,230         1,599         346         49,542         64,405           67,859         50,999         1,427         1,855         0         1,230         1,599         346         49,542         64,405           67,859         50,999         1,427         1,855         0         1,230         1,599         346         49,542         64,405           67,859         50,999         1,427         1,855         0         1,230         1,599         346         49,542         64,405           67,859         50,756         1,427	TIBUL -	69 482	53.882	1.4624	1.901	86	1,260	1,638	699	50,7264	65,944	53,115
67,859         43,022         1,427         1,855         156         1,230         1,599         512         49,542 <sup>5</sup> 64,405           67,859         43,67         1,855         0         1,230         1,599         550         49,542 <sup>5</sup> 64,405           67,859         47,367         1,427         1,855         0         1,230         1,599         498         49,542 <sup>5</sup> 64,405           67,859         51,374         1,427         1,855         0         1,230         1,599         346         49,542 <sup>5</sup> 64,405           67,859         51,374         1,427         1,855         0         1,230         1,599         346         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         64         1,599         346         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         383         1,230         1,599         -0         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         383         1,230         1,599         -0         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427	52 1995	67.859	45,694	1.427	1,855	85	1,230	1,599	547	49,5425	64,405	45,062
67,859         47,367         1,427         1,855         0         1,230         1,599         550         49,542 <sup>5</sup> 64,405           67,859         47,962         1,427         1,855         0         1,230         1,599         498         49,542 <sup>5</sup> 64,405           67,859         51,374         1,427         1,855         0         1,230         1,599         346         49,542 <sup>5</sup> 64,405           67,859         50,999         1,427         1,855         646         1,230         1,599         301         49,542 <sup>5</sup> 64,405           67,859         50,999         1,427         1,855         646         1,230         1,599         301         49,542 <sup>5</sup> 64,405           67,859         50,756         1,427         1,855         646         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         50,756         1,427         1,855         724         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         724         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859 <td>52,1995</td> <td>67.859</td> <td>43.022</td> <td>1,427</td> <td>1,855</td> <td>156</td> <td>1,230</td> <td>1,599</td> <td>512</td> <td>49,5425</td> <td>64,405</td> <td>42,354</td>	52,1995	67.859	43.022	1,427	1,855	156	1,230	1,599	512	49,5425	64,405	42,354
67,859         47,962         1,427         1,855         0         1,230         1,599         498         49,542 <sup>5</sup> 64,405           67,859         51,374         1,427         1,855         0         1,230         1,599         523         49,542 <sup>5</sup> 64,405           67,859         50,399         1,427         1,855         646         1,230         1,599         301         49,542 <sup>5</sup> 64,405           67,859         50,384         1,427         1,855         646         1,230         1,599         301         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         162         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,6647         1,427         1,855         162         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,8	52,1995	67.859	43,367	1,427	1,855	0	1,230	1,599	550	49,5425	64,405	42,817
67,859         51,374         1,427         1,855         0         1,230         1,599         523         49,542 <sup>5</sup> 64,405           67,859         50,999         1,427         1,855         646         1,230         1,599         346         49,542 <sup>5</sup> 64,405           67,859         45,384         1,427         1,855         646         1,230         1,599         415         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         50,756         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         40,599         1,427         1,855         162         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064         1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         33         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859<	52 1995	67.859	47.962	1,427	1,855	0	1,230	1,599	498	49,5425	64,405	47,464
67,859         50,999         1,427         1,855         0         1,230         1,599         346         49,542 <sup>5</sup> 64,405           67,859         45,384         1,427         1,855         64         1,230         1,599         301         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         50,756         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         162         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064 <sup>7</sup> 1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064 <sup>7</sup> 1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         32         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405 <td< td=""><td>52,1995</td><td>62,829</td><td>51,374</td><td>1,427</td><td>1,855</td><td>0</td><td>1,230</td><td>1,599</td><td>523</td><td>49,5425</td><td>64,405</td><td>50,851</td></td<>	52,1995	62,829	51,374	1,427	1,855	0	1,230	1,599	523	49,5425	64,405	50,851
67,859         45,384         1,427         1,855         646         1,230         1,599         301         49,542 <sup>5</sup> 64,405           67,859         52,377         1,427         1,855         383         1,230         1,599         415         49,542 <sup>5</sup> 64,405           67,859         50,756         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         724         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064 <sup>7</sup> 1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         32         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         59,979 <sup>10</sup> 1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405	52,1995	67.859	50,999	1,427	1,855	0	1,230	1,599	346	49,5425	64,405	50,653
67,859         52,377         1,427         1,855         0         1,230         1,599         415         49,542 <sup>5</sup> 64,405           67,859         50,756         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         724         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         49,599         1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064         1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         32         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         63,073         1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         59,979 <sup>10</sup> 1,427         1,855         437         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405	52,1995	67.859	45,384	1,427	1,855	646	1,230	1,599	301	49,5425	64,405	44,437
67,859         50,756         1,427         1,855         383         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         52,157 <sup>6</sup> 1,427         1,855         724         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         49,599         1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064 <sup>7</sup> 1,427         1,855         33         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         59,979 <sup>10</sup> 1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         59,979 <sup>10</sup> 1,427         1,855         437         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405	52 1995	67,859	52,377	1,427	1,855	0	1,230	1,599	415	49,5425	64,405	51,962
67,859         52,1576         1,427         1,855         724         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         49,599         1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064 <sup>7</sup> 1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         63,073 <sup>9</sup> 1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         59,979 <sup>10</sup> 1,427         1,855         437         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405	52,1995	62,859	50,756	1,427	1,855	383	1,230	1,599	ģ	49,5425	64,405	50,373
67,859         49,599         1,427         1,855         162         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         46,064         1,427         1,855         335         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         58,906 <sup>8</sup> 1,427         1,855         32         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         63,073 <sup>9</sup> 1,427         1,855         59         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405           67,859         59,979 <sup>10</sup> 1,427         1,855         437         1,230         1,599         -0-         49,542 <sup>5</sup> 64,405	52 1995	67.859	52,1576	1,427	1,855	724	1,230	1,599	ģ	49,5425	64,405	51,4336
67,859     46,0647     1,427     1,855     335     1,230     1,599     -0-     49,542 <sup>5</sup> 64,405       67,859     58,906*     1,427     1,855     59     1,230     1,599     -0-     49,542 <sup>5</sup> 64,405       67,859     63,073*     1,427     1,855     59     1,230     1,599     -0-     49,542 <sup>5</sup> 64,405       67,859     59,979**     1,427     1,855     437     1,230     1,599     -0-     49,542 <sup>5</sup> 64,405	52 1995	67.859	49.599	1.427	1,855	162	1,230	1,599	ģ	49,5425	64,405	49,437
67,859 58,906 <sup>8</sup> 1,427 1,855 32 1,230 1,599 -0- 49,542 <sup>5</sup> 64,405 67,859 63,073 <sup>9</sup> 1,427 1,855 59 1,230 1,599 -0- 49,542 <sup>5</sup> 64,405 67,859 59,979 <sup>10</sup> 1,427 1,855 437 1,230 1,599 -0- 49,542 <sup>5</sup> 64,405	52 1995	67.859	46.0647	1,427	1,855	335	1,230	1,599	ģ	49,5425	64,405	45,7297
67,859 $63,073$ $1,427$ $1,855$ $59$ $1,230$ $1,599$ $-0 49,542$ <sup>5</sup> $64,405$ $67,859$ $59,979$ <sup>10</sup> $1,427$ $1,855$ $437$ $1,230$ $1,599$ $-0 49,542$ <sup>5</sup> $64,405$	52 1995	67.859	58.9068	1,427	1,855	32	1,230	1,599	÷	49,5425	64,405	58,8748
67.859 59.979.0 1,427 1,855 437 1,230 1,599 -0- 49,542 <sup>5</sup> 64,405	52,1995	67.859	63,0739	1,427	1,855	29	1,230	1,599	þ	49,5425	64,405	63,0149
	52,1995	67.859	59,979 <sup>10</sup>	1,427	1,855	437	1,230	1,599	9	49,5425	64,405	59,54210

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

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

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

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

See Footnote 2 of Table on Page 24.

Includes 1,148 acre-feet of additional extraction which is allowable under provisions of the December 22, 1981,

Includes 76 acre-feet of additional extraction which is allowable under provisions of the December 22, 1981, Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

<sup>8</sup> Includes 6,912 acre-feet of additional extraction which is allowable under provisions of the December 22, 1981, Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment. Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

<sup>9</sup> includes 13,472 acre-feet of additional extraction which is allowable 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. 10 Includes 10,000 acre-feet of additional extraction which is allowable under provisions of the December 22, 1981, Western-San Bernardino agreement prepared in accordance with paragraph VI(b)6 of the Judgment.

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

	Verifie San I	Verissed Extractions from the San Bernardino Basin Area	rom the in Area	San	Delivery to San Bernardino Basin Area	Area	Delivery Rive in Si	Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County	in and eas ounty	Outside	Delivery to Areas Outside San Bernardino Valley	as Valley
Calendar	Adjusted	Maximum	•	Adjusted	Maximum		Adjusted	Maximum	•	Adjusted	Maximum	•
Year	Right <sup>1</sup>	Allowable <sup>2</sup>	Actual <sup>3</sup>	Right <sup>1</sup>	Allowable <sup>2</sup>	Actual <sup>3</sup>	Right <sup>1</sup>	Allowable <sup>2</sup>	Actual <sup>3</sup>	Right <sup>1</sup>	Allowable <sup>2</sup>	Actual
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	256,2586	7,135	7,135	1,636	6,150	6,150	ģ	247,710	247,710	254,6226
1981-85	260,995	260,995	248,1917	7,135	7,135	1,312	6,150	6,150	ģ	247,710	247,710	246,8797
1982-86	260,995	260,995	247,1618	7,135	7,135	1,025	6,150	6,150	þ	247,710	247,710	246,1368
Excess												
Extraction												
1982-86		(13,834)*			(6,110)*			(6,150)*			(1,574)*	

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

<sup>&</sup>lt;sup>3</sup> 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. Excludes the 1,148 acre-feet of additional extraction in 1981 which is allowable under provisions of the

December 22, 1981, Western-San Bernardino agreement prepared in accordance with paragraph VI (b) 6 of the Judgment. are allowable under provisions of the December 22, 1981, Western-San Bernardino agreement prepared in accordance with Excludes the 1,148 acre-feet of additional extraction in 1981 and the 76 acre-feet of additional extraction in 1983 which paragraph VI(b)6 of the Judgment.

Excludes the 1,148 acre-feet of additional extraction in 1981, the 76 acre-feet of additional extraction in 1983, and the 6,912 acre-feet of additional extraction in 1984 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 and the 13,472 acre-feet of additional extraction in 1985 which are allowable under the 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.

<sup>10,000</sup> acre-feet of additional extraction in 1986 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 and the 13,472 acre-feet of
additional extraction in 1985 which are allowable under the 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 the 76 acre-feet of additional extraction in 1983, the 6,912 acre-feet of additional extraction in 1984, and the Parentheses indicate that actual extractions are less than Adjusted Base Right

TABLE NO. 11

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

as Valley	Actual <sup>3</sup>	1,624	2,293	1,761	2,103	2,707	2,469	1,763	299	1,588	1,617	1,453	1,020	843	2,088	1,334	2,614
Delivery to Areas San Bernardino Valley	Maximum Allowable <sup>2</sup>	2,457	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398	2,398
Outside	Adjusted Right <sup>1</sup>	1,8904	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845
in and reas county	Actual <sup>3</sup>	2,388	2,239	1,751	1,985	2,002	2,050	1,820	1,051	1,781	2,060	2,151	1,775	2,318	2,671	1,978	2,130
Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County	Maximum Allowable <sup>2</sup>	3,262	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184
Delivery Riv in Si	Adjusted Right <sup>1</sup>	2,5094	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449
Area	Actual <sup>3</sup>	þ	þ	ģ	ģ	<b>6</b>	0	o	ò	þ	ģ	ģ	þ	þ	þ	ģ	ģ
Delivery to ernardino Basin Area	Maximum Allowable <sup>2</sup>	-0-	6	9	÷	þ	ģ	ģ	þ	þ	þ	0-	0-	þ	6	-0-	ò
San Bel	Adjusted Right <sup>1</sup>	÷	ģ	þ	þ	þ	0	o-	<u></u>	þ	0	0-	þ	þ	þ	ģ	ė.
om the 1 Area	Actual <sup>3</sup>	4.012	4,532	3,512	4,088	4.709	4.519	3,583	1,350	3,369	3,677	3,604	2,795	3,161	4.759	3,312	4,744
Verified Extractions from the San Bernardino Basin Area	Maximum Allowable <sup>2</sup>	5.719	5,582	5,582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5 582	5,582	5,582	5,582	5,582
Verifiec San E	Adjusted Right <sup>1</sup>	3006	4.294	4.294	4.294	4 294	4 294	4 294	752	4.294	4 294	7 294	7 204	762 7	4 294	4 294	4,294
	Calendar Vear	1071	1972	1973	1974	1975	1976	1977	1078	1979	1980	1081	1087	1083	1087	1085	1986

 $<sup>^1</sup>$  Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page  $^2$ 7.

<sup>&</sup>lt;sup>2</sup> Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

<sup>3</sup> Actual verified extractions from Table No. 3 of Watermaster Report.
<sup>4</sup> Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment.

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

TABLE NO. 11

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

Delivery to Areas Outside San Bernardino Valley		0 10,388												3	•[6
Delivery to Areas San Bernardino V	Maximum Allowable <sup>2</sup>	9,270	9,225	9,225	9,229	9,22	9,22	9,22	9,22	9,22	9,22	9,22	9,22	3	(1,326)*
Outside	Adjusted Right <sup>1</sup>	9,270	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225		
sin and Ireas County	Actual <sup>3</sup>	10,365	10,027	809'6	8,908	8,704	8,762	8,863	8,818	10,085	10,975	10,893	10,872		
Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County	Maximum Allowable <sup>2</sup>	12,305	12,245	12,245	12,245	. 12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245		(1,373)*
Deliver Riv fn S	Adjusted Right <sup>1</sup>	12,305	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245		,
in Area	Actual <sup>3</sup>	þ	ģ	ģ	þ	ģ	ģ	- d	o-	ò	ģ	þ	ģ		
Delivery to Bernardino Basin Area	Maximum Allowable <sup>2</sup>	ģ	· 4	ģ	ģ	þ		þ	þ	ģ	4	þ	ģ		þ
San	Adjusted Right <sup>1</sup>	, <del>†</del>	. <b>수</b>	ģ	· o	ģ	ģ	ģ	ģ	þ	ģ	ģ	ģ		
rom the in Area	Actual <sup>3</sup>	20.853	21.360	20,411	18,249	17,530	16,498	15,583	14,795	16,606	17.996	17.631	18,771		
Verified Extractions from the San Bernardino Basin Area	Maximum Allowable <sup>2</sup>	21.575	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21,470		(3,699)*
Verifie San E	Adjusted Right <sup>1</sup>	21.5754	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21.470	21,470		
	Calendar Year	1971-75	1972-76	1973-77	1974-78	1975-79	1976-80	1977-81	1978-82	1979-83	1980-84	1981-85	1982-86	Excess Extraction	1982-86

<sup>&</sup>lt;sup>1</sup> Adjusted Right as determined and reported to the court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27.

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

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

<sup>&</sup>lt;sup>4</sup> Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.

<sup>&</sup>quot;Parentheses indicate that actual extractions are less than Adjusted Base Right.

TABLE NO. 12

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

ss Valley	Actual <sup>3</sup>	2,519	3,150	2,729	4,258	3,782	5,211	4,074	2,093	3,764	2,010	2,734	3,547	2,406	4,932	5,175	5,336
Delivery to Areas Outside San Bernardino Valley	Maximum Allowable <sup>2</sup>	10,010	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770
Outside	Adjusted Right <sup>1</sup>	7,7004	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515
iin and reas county	Actual <sup>3</sup>	383	377	250	246	168	182	146	161	166	323	358	169	245	233	210	234
Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County	Maximum Allowable <sup>2</sup>	424	413	413	413	. 413	413	413	413	413	413	413	413	413	413	413	413
Delivery Rive	Adjusted Right <sup>1</sup>	3254	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318
Area	Actual <sup>3</sup>	þ	ģ	þ	þ	<b>-</b>	þ	<b>-</b> 0-	ģ	þ	þ	o o	o-	ģ	ģ	ģ	þ
Delivery to Bernardino Basin Area	Maximum Allowable <sup>2</sup>	ò	þ	0-	<b>0</b>	ģ	þ	o-	oʻ	þ	-0-	¢	•	ģ	ģ	þ	0-
San B	Adjusted Right <sup>1</sup>	<b>†</b> -0-	ģ	o-	ģ	ģ	þ	ģ	o-	ģ	ģ	ģ	ģ	þ	þ	o-	÷
om the n Area	Actual <sup>3</sup>	2,902	3,527	2,979	4,504	3,950	5,393	4,220	2,254	3,930	2,333	3,092	3,716	2,651	5,165	5,385	5,570
Verified Extractions from the San Bernardino Basin Area	Maximum Allowable <sup>2</sup>	10,434	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183
Verified San E	Adjusted Right <sup>1</sup>	8,026	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833
	Calendar Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986

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

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

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

<sup>&</sup>lt;sup>4</sup> Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment.

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

TABLE NO. 12

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

Delivery to Areas Outside San Bernardino Valley	Maximum Allowable <sup>2</sup> Actual <sup>3</sup>	37,760 16,438	37,575 19,130	37,575 20,054	37,575 19,418	37,575 18,924	37,575 17,152	37,575 14,675			37,575 15,629	37,575 18,794	37,575 21,396	(16,179)*
D Outside S	Adjusted Right <sup>1</sup>	37,760	37,575	37,575	37,575	37,575	37,575	37,575	37,575	37,575	37,575	37,575	37,575	
in and reas ounty	Actual <sup>3</sup>	1,424	1,223	992	903	823	978	1,154	1,177	1,261	1,328	1,215	1,091	
Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County	Maximum Allowable <sup>2</sup>	1,598	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	*(667)
Delivery Rive in Sa	Adjusted Right <sup>1</sup>	1,598	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	
) Area	Actual <sup>3</sup>	<b>-</b>	þ	-0-	-0-	-0-	6	þ	<b>-</b>	ģ	<del>-</del>	<b>-</b>	þ	
Delivery to Bernardino Basin Area	Maximum Allowable <sup>2</sup>	0-	ò	o-	0-	0	ģ	þ	<b>-</b>	o	þ	<u>0</u>	ģ	-0-
San E	Adjusted Right <sup>1</sup>	ģ	¢	þ	<b>0</b> -	ė	ó	ģ	<b>-</b>	0	þ	þ	ģ	
rom the n Area	Actual <sup>3</sup>	17,862	20,353	21,046	20,321	19,747	18,130	15,829	15,325	15,722	16,957	20,009	22,487	
Verified Extractions from the San Bernardino Basin Area	Maximum Allowable <sup>2</sup>	39,358	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	(16,678)*
Verified San B	Adjusted Right <sup>1</sup>	39,3584	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	39,165	
	Calendar Year	1971-75	1972-76	1973-77	1974-78	1975-79	1976-80	1977-81	1978-82	1979-83	1980-84	1981-85	1982-86	Excess Extraction 1982-86

<sup>&</sup>lt;sup>1</sup> Adjusted Right as determined and reported to the Court in the Annual report of the Western-San Bernardino Watermaster for Calendar Year 1971, Table No. 9, page 27.

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

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

<sup>&</sup>lt;sup>4</sup> Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.

<sup>&</sup>quot;Parentheses indicate that actual extractions are less than Adjusted Base Right.

TABLE NO. 13

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

s Valley	Actual <sup>3</sup>	219	239	239	267	179	245	87	183	83	~	143	48	ģ	ģ	÷	48
Delivery to Areas Outside San Bernardino Valley	Maximum Allowable <sup>2</sup>	755	697	269	269	269	269	697	269	269	269	697	269	269	269	697	269
Outside	Adjusted Right <sup>1</sup>	5814	5365	5365	5365	5365	5365	5365	5365	5362	5365	5365	5365	5365	5365	5365	5365
in and eas ounty	Actual <sup>3</sup>	o-	-0-	þ	-0-	ģ	o-	þ	þ	o-	þ	¢	ģ	÷	þ	þ	ģ
Delivery to Colton Basin and Riverside Basin Areas In San Bernardino County	Maximum Allowable <sup>2</sup>	-0-	-0-	-0-	0	0	0-	0	-0-	<b>-</b>	þ	o	o-	-0-	0-	o-	þ
Delivery Rive In Sa	Adjusted Right <sup>1</sup>	÷	þ	6	þ	þ	-0-	þ	ė,	ė.	÷	o-	0-	¢	0-	¢	ģ
ı Area	Actual <sup>3</sup>	ģ	<b>-</b>	o-	<b>0</b> -	0-	0	þ	0	þ	þ	ó	þ	ģ.	0-	þ	÷
Delivery to Bernardino Basin Area	Maximum Allowable <sup>2</sup>	-0-	0	-0-	-0-	0-	o-	ģ	0-	-0-	ó	0-	þ	0-	o-	-0-	þ
San B	Adjusted Right <sup>1</sup>	4 0-	þ	þ	ó	þ	þ	÷	0	0-	þ	6-	ģ	þ	o-	<b>6</b> -	o-
om the 1 Area	Actual <sup>3</sup>	219	239	239	267	179	245	78	183	83	7	143	48	<b>-</b>	0-	þ	48
Verified Extractions from the San Bernardino Basin Area	Maximum Allowable <sup>2</sup>	755	697	269	269	697	697	269	697	697	697	269	269	269	269	269	269
Verified San B	Adjusted Right <sup>1</sup>	5814	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365	5365
	Calendar Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986

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

<sup>&</sup>lt;sup>2</sup> Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

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

<sup>&</sup>lt;sup>4</sup> Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment.

<sup>5</sup> See Footnote 2 of Table on Page 24.

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

TABLE NO. 13

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

	Verifie San	Verified Extractions from the San Bernardino Basin Area	rom the n Area	San B	Delivery to Bernardino Basin Area	Area	Delivery Riv- in Si	Delivery to Colton Basin and Riverside Basin Areas in San Bernardino County	iin and reas county	Outside	Delivery to Areas Outside San Bernardino Valley	ss Valley
Calendar	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	e;	Adjusted	Maximum	•
Year	Right <sup>1</sup>	Allowable <sup>2</sup>	Actual <sup>3</sup>	Right <sup>1</sup>	Allowable <sup>2</sup>	Actual <sup>3</sup>	Right	Allowable <sup>2</sup>	Actual	Right.	Allowable*	Actual
1971-75	2.7254	2,725	1,143	-0-	÷	þ	þ	þ	ģ	2,725	2,725	1,143
1972-76	2.680	2,680	1,169	0-	ģ	0-	ģ	þ	ģ	2,680	2,680	1,169
1973-77	2.680	2,680	1,017	þ	þ	0-	þ	þ	o o	2,680	2,680	1,017
1974-78	2,680	2,680	961	ģ	þ	þ	þ	4	0-	2,680	2,680	961
1975-79	2,680	2,680	777	0-		0-	ģ	o-	ģ	2,680	2,680	777
1976-80	2,680	2.680	605	þ	þ	þ	þ	ģ	ģ	2,680	2,680	605
1977-81	2.680	2.680	503	0	ģ	ģ	0-	þ	ģ	2,680	2,680	503
1978-87	2.680	2.680	464	0	o	þ	0	0-	ģ	2,680	2,680	464
1979-83	2 680	2.680	281	o	þ	ģ	<b>-</b> 0	þ	<b>-</b>	2,680	2,680	281
1080-84	2 680	2,680	198	þ	ò	ģ	0	þ	ģ	2,680	2,680	198
1981-85	2,680	2.680	191	0-	9-	þ	þ	0-	ģ	2,680	2,680	191
1982-86	2,680	2,680	96	ģ	ģ	÷	ģ	<b>-</b>	þ	2,680	2,680	96
										•		
Excess												
Extraction		*(*65.4)			ċ			ė.			(2.584)*	
1982-86		(2,584)*			  -			,			1 ! - 1	

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

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

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

<sup>&</sup>lt;sup>4</sup> Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods.

<sup>\*</sup>Parentheses indicate that actual extractions are less than Adjusted Base 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

		Cal	endar Years		
	1982	1983	1984	1985	1986
EXPORTS					
Base Right	42,535	42,535	42,535	42,535	42,535
Actual Export <sup>1</sup>	29,422	28,876	36,413	31,604	32,085
ACCUMULATED EXPORT	29,422	58,298	94,711	126,315	158,400
<u>OBLIGATIONS</u>					
Excess Export <sup>2</sup>	(13,113)	(13,659)	(6,122)	(10,931)	(10,450)
ACCUMULATED EXCESS EXPORT	(13,113)	(26,772)	(32,894)	(43,825)	(54,275)

<sup>&</sup>lt;sup>1</sup> See Table 8 of Watermaster Report.

Actual Export minus Base Right, Parentheses indicate that the Actual Export is less than the Base 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

		Ca	lendar Years		
	1982	1983	1984	1985	1986
EXPORTS					
Base Right	12,527	12,527	12,527	12,527	12,527
Actual Export <sup>1</sup>	20,462	26,261	23,393	24,023	26,584
ACCUMULATED EXPORT	236,922 <sup>3</sup>	263,183	286,576	310,599	337,183
<u>OBLIGATIONS</u>					
Excess Export <sup>2</sup>	7,935	13,734	10,866	11,496 <sup>4</sup>	14,057
ACCUMULATED EXCESS EXPORT	86,598 <sup>3</sup>	100,332	111,198	122,694	136,751

<sup>&</sup>lt;sup>1</sup> See Table 9 of Watermaster Report.

<sup>&</sup>lt;sup>2</sup> Actual Export minus Base Right.

Accumulated values beginning in 1982 include amounts accumulated through 1981.

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.

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

		Cal	endar Years		
	1982	1983	1984	1985	1986
EXTRACTIONS	<u> </u>				
Base Right <sup>1</sup>	54,099	54,099	54,099	54,099	54,099
Actual Extractions <sup>1</sup>	29,803	26,861	43,366	37,370	35,563
ACCUMULATED EXTRACTIONS	29,803	56,664	100,030	137,400	172,963
CREDITS					
Extraction <sup>2</sup>	24,296	27,238	10,733	16,729	18,536
Return from imported water	345	303	368	533	502
Total Credits	24,641	27,541	11,101	17,262	19,038
ACCUMULATED CREDITS	24,641	52,182	63,283	80,545	99,583
<u>OBLIGATIONS</u>					
Excess Extractions <sup>3</sup>	0	0	0	0	0
Excess Export <sup>4</sup>	0	0	0	0	0
Land Use Conversion <sup>5</sup>	417	440	488	498	526
Total Obligations	417	440	488	498	526
ACCUMULATED OBLIGATIONS	417	857	1,345	1,843	2,369
NET ACCUMULATED (CREDIT) OR OBLIGATION	(24,224)	(51,325)	(61,938)	(78,702)	(97,214)

<sup>1</sup> See Tables 4, 5, and 6.

<sup>&</sup>lt;sup>2</sup> Amounts which may be extracted without replenishment obligation, which in fact are not extracted, Equal to Base Right minus Actual Extraction.

<sup>&</sup>lt;sup>3</sup> Actual Extraction minus Base Right.

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

<sup>&</sup>lt;sup>5</sup> See Table 7.

#### TABLE NO. 17

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

		Ca	lendar Years	;		
	1982	1983	1984	1985	1986	
<b>EXTRACTIONS</b>	<del></del>			· · · · · · · · · · · · · · · · · · ·		
Base Right <sup>1</sup>	167,238	167,238	167,238	167,238	167,238	
Actual Extractions <sup>1</sup>	153,040	146,434	180,808	177,919 <sup>12</sup>	184,894	
ACCUMULATED EXTRACTIONS	1,866,636 <sup>5</sup>	2,013,070	2,193,878	2,371,797	2,556,691	
CREDITS						
Extraction <sup>2</sup>	14,198	20,804	-0-	-0-	-0-	
Replenishment	8,343 <sup>7</sup>	5,896 <sup>8</sup>	385 <sup>9</sup>	1,161 <sup>10</sup>	-0- <sup>11</sup>	
Total Credits	22,541	26,700	385	1,161	-0-	
ACCUMULATED CREDITS	278,719 <sup>5</sup>	305,419	305,804	306,965	306,965	
<u>OBLIGATIONS</u>						
Excess Extractions <sup>3</sup>	-0-	-0-	13,570	-0- <sup>13</sup>	17,65 <del>6</del>	
Excess Export <sup>4</sup>	7,935	13,734	10,866	815 <sup>13</sup>	14,057	
Total Obligations	7,935	13,734	24,436	815	31,713	
ACCUMULATED OBLIGATIONS	91,999 <sup>5</sup>	105,733	130,169	130,984	162,697	
NET ACCUMULATED (CREDIT) OR OBLIGATIONS	(186,720) <sup>5</sup>	(199,686)	(175,635)	(175,981)	(144,268)	

<sup>&</sup>lt;sup>1</sup> See Table 2.

<sup>&</sup>lt;sup>2</sup> Amounts which may be extracted without replenishment obligation, which in fact are not extracted. Equal to Base Right minus Actual Extraction.

<sup>&</sup>lt;sup>3</sup> Actual Extraction minus Base Right.

<sup>4</sup> See Table 15.

<sup>&</sup>lt;sup>5</sup> Accumulated values beginning in 1982 include amounts accumulated through 1981.

This number not used.

<sup>7</sup> Total import of State Project Water by SBVMWD was 8,409 acre-feet. However, 66 acre-feet of this amount were delivered directly into the North Fork Canal, and 3,220 acre-feet were delivered into Colton Basin for replenishment.

<sup>8</sup> Total import of State Project Water by SBVMWD was 5,994 acre-feet. However, 98 acre-feet of this amount were delivered directly to Southern California Water Company, and 4,736 acre-feet were delivered into Colton Basin for replenishment.

<sup>9</sup> Total import of State Project Water by SBVMWD was 5,269 acre-feet. However, 1,413 acre-feet of this amount were delivered directly to Southern California Water Company, North Fork Canal or Redlands Aqueduct, and 3,471 acre-feet were delivered into Colton Basin for replenishment.

Total import of State Project Water by SBVMWD was 8,799 acre-feet. However, 3,759 acre-feet of this amount were delivered directly to Southern California Water Company, North Fork Canal or Redlands Aqueduct, and 3,879 acre-feet were delivered into Colton Basin for replenishment.

Total import of State Project Water by SBVMWD was 6,811 acre-feet. However, 1,466 acre-feet of this amount were delivered directly to Southern California Water Company, North Fork Canal or Rediands Aqueduct, and 5,345 acre-feet were delivered into Colton Basin for replenishment.

<sup>12</sup> 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.

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.

#### TABLE NO. 18

## SUMMARY OF REPLENISHMENT OBLIGATIONS WESTERN AND SAN BERNARDINO VALLEY FIVE-YEAR PERIOD 1982 THROUGH 1986 (All Values in Acre-Feet)

#### WESTERN MUNICIPAL WATER DISTRICT

	San Bernardino Basin Area	Colton and Riverside Basins
Accumulated Credits <sup>1</sup>	(See Tables 10-13)	99,583
Accumulated Obligations <sup>1</sup>		2,369
Net Accumulated (Credit) or Obligation		(97,214)
Excess Extraction Return Credit <sup>2</sup>		
REPLENISHMENT REQUIRED		_

#### SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

	San Bernardino Basin Area	Colton Basin and Riverside Basin in San Bernardino County
Accumulated Credits <sup>3</sup>	306,965 <sup>4</sup>	20,651
Accumulated Obligations <sup>3</sup>	162,697 <sup>4</sup>	·
Net Accumulated (Credit) or Obligation <sup>3</sup>	(144,268) <sup>4</sup>	_ (20,651)
Excess Extraction Return Credit <sup>2</sup>	_	

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>3</sup> Reference Table 17.

<sup>&</sup>lt;sup>4</sup> Includes amounts accumulated prior to 1982.