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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 1988

AUGUST 1, 1989

WESTERN-SAN BERNARDINO WATERMASTER

WESTERN MUNICIPAL WATER DISTRICT, ET AL VS.

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

JUL 31 1989

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August 1, 1989

TO:

Clerk of Superior Court of Riverside County and All Parties

RE:

Watermaster Report for Calendar Year 1988

Gentlemen:

We have the honor of submitting the Annual Report of the Western San Bernardino Watermaster for the Calendar Year 1988.

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, 1989, and presents the findings of the Watermaster for Calendar Year 1988 and summarizes the five-year period 1983 through 1987.

During the period 1983 through 1987 the actual total extractions and the extractions for delivery outside San Bernardino Valley by the City of Riverside exceeded the allowable safe yield amounts established by the Watermaster in 1971. However, the 1981, 1985, and 1987 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 1983 through 1987 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 1988, pursuant to the requirements of the Judgment.

Respectfully submitted,

WESTERN SAN BERNARDING WATERMASTER

male

Donald L. Harriger

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

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FOR

CALENDAR YEAR 1988

AUGUST 1, 1989

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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 1988 includes a description and summary of the work completed during 1988 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 1987. The scope of this report for 1988 and a history of the litigation leading to the physical solution settling the case are set forth in some detail in succeeding paragraphs.

Scope of Report

Paragraph XIII(e) of the Judgment requires the Watermaster to report to the Court and each Party not more than seven months after the end of each year.

The Annual Reports of the Western-San Bernardino Watermaster for the calendar years 1969 thru 1971 reported on the verifications and initial determinations required by the Judgment including the safe yield of the San Bernardino Basin Area and the determination of the Adjusted Rights of the Plaintiffs. Beginning with the 1972 Report, the Watermaster began the annual accounting in accordance with the Judgment provisions. This report presents the activities of the Watermaster for the calendar year 1988 together with the annual accounting of extractions and deliveries for the calendar year 1987.

History of Litigation

Before the turn of the century, the various water service organizations diverting surface water from the Santa Ana River and pumping from the underground water basins supplied by the underflow of the Santa Ana River and its tributaries have from time to time engaged in litigation over water rights within the San Bernardino, Riverside, and Orange County areas.

On October 18, 1963, the Orange County Water District (OCWD) filed suit against the City of Chino and others, seeking an adjudication of water rights against more than 2,500 water users in the Santa Ana River Watershed tributary to Prado Dam. Included among the defendants were the Chino Basin Municipal Water District (CBMWD), Western Municipal Water District of Riverside County (WMWD), and San Bernardino Valley Municipal Water District (SBVMWD). Thirteen cross complaints were filed in 1968, which extended the adjudication to more than 1,500 water users in the area downstream from Prado Dam, which included OCWD. Thus, some 4,000 parties were involved in the suit, including the three upper districts and OCWD.

With a case of this magnitude, it became obvious that every effort should be made to arrive at an equitable settlement and a physical solution in order to obviate the enormous expense and unwieldy litigation which would be involved if the case were brought to trial.

Attorneys and engineers representing the four major districts and a large number of the defendants worked diligently in order to effect a settlement and some type of physical solution which would prove acceptable to all parties.

As a result, in May of 1968, an outline of a proposal for settlement of the case was prepared and a committee, composed of attorneys and engineers for the parties, commenced preparation of the settlement documents.

In June, 1968, the Court held a hearing on the motions which it had received requesting a preliminary injunction and an order of reference. The plaintiff OCWD, however, was concerned with the necessity of bringing the case to trial within the statutory period, and therefore, on July 15, 1968, submitted a motion to set the complaint in the case for trial. On October 15, 1968, the trial was commenced and adjourned after a half day of testimony on behalf of the Plaintiff.

Shortly thereafter, the parties filed settlement documents with the Court, including a stipulation for Judgment, and on April 17, 1969, the Court, entered the stipulated Judgment, thus terminating the many years of controversy over water rights along the Santa Ana River involving the issues and parties included in the case of Orange County Water District vs. City of Chino, et al.

During the settlement negotiations, it became apparent that the San Bernardino Valley entities would participate only in a part of the Orange County settlement, in the belief that they had no responsibility for the waters of the Santa Ana River downstream from the point of rising water at Riverside Narrows. Therefore, the settlement of the OCWD action established an obligation of SBVMWD for the delivery of 15,250 acre-feet of Base Flow annually at the Riverside Narrows, subject, however, to adjustment for quality.

As a result of the Orange County settlement, it became apparent that a second settlement would be necessary between the Riverside and San Bernardino entities who diverted water from the Santa Ana River surface and ground water sources supplied by the Santa Ana River and tributaries above the Riverside Narrows.

For some time, increasing withdrawals from ground water resources above Bunker Hill Dike (San Jacinto Fault), which supplied in large part the water requirements of San Bernardino and Redlands as well as the Riverside exporters, had been the cause of concern to the exporters in Riverside County. As a result, on March 1, 1963, a suit was filed by WMWD and others, seeking a general adjudication of water rights within the San Bernardino Basin Area. This suit preceded the filing of

the Orange County suit, and it was decided that this suit could well be used as a vehicle for a physical settlement between Riverside and San Bernardino interests.

Following extensive negotiations between Riverside and San Bernardino interests, a physical settlement was completed and documents delineating the settlement were entered in the Superior Court of the State of California in and for the County of Riverside on April 17, 1969, being Judgment No. 78426.

Summary of Judgment No. 78426

The physical solution as agreed upon and as set forth in the Judgment states that all instructions and orders of the Court are to be administered and enforced by a Watermaster consisting of a committee of two persons, one of whom shall be nominated by SBVMWD and the other by WMWD and appointed by the Court.

The Judgment directed the Watermaster to make certain initial determinations and to verify the amounts of water diverted and pumped from streams and ground water basins embraced by the Judgment where such amounts had been assumed for purposes of the Judgment. Upon completion of the verifications and initial determinations compliance with the Judgment requires an annual accounting of the ground and surface water production within the various basins in order that the Watermaster may properly report to the Court the comparisons of the year-by-year operations with the verified entitlements and an accounting as to the replenishment obligations or credits indicated by such comparison. The items verified or determined initially and to be reported on annually are as follows:

| Watermaster Determination Required by Judgment | Verified for Five Calendar Years Ending with 1963 | To Be Determined Annually From and After 1971 |
|---|---|---|
| Total actual average and extractions from the San Bernardino Basin Area be entities other than plaint for use within San Bernardino County. |) Y | x |
| The natural safe yield of the San Bernardino Basi Area based upon the cultural conditions equivalent to those exist during the five-calendar- year period ending with 1963. | n | 1 |

| | Watermaster Determination Required by Judgment | Verified for Five Calendar Years Ending with 1963 | To Be Determined Annually From and After 1971 |
|-----|--|---|---|
| 3 | 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 | |
| 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 | * | X |
| | tributary to the Riverside Narrows. | x | x |

| | Watermaster Determination Required by Judgment | Verified for Five Calendar Years Ending with 1963 | To Be Determined Annually From and After 1971 |
|-----|---|---|---|
| 11. | Annual amount of water extracted for use within San Bernardino County from the San Bernardino Basin Area and Colton Basin Area for use on lands which are not tributary to the Riverside Narrows. | 4 | X |
| 12. | Reduction in return flow now contributing to base flows at Riverside Narrows which results from conversion of agriculture using water within Western to domestic or other uses connected to sewage or waste disposal system, the effluent from which is not tributary to the rising water at Riverside Narrows. | 5 | X |

Determined initially by supplemental order of the Court to be 232,100 acre-feet per annum. Such amount is subject to the continuing jurisdiction of the Court.

The foregoing initial determinations and verifications required by the Judgment have been completed and were reported in the Annual Report of the Western-San Bernardino Watermaster for Calendar Years 1971 and 1972.

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

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

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

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

CHAPTER II WATERMASTER ACTIVITIES

CHAPTER II

WATERMASTER ACTIVITIES

The Watermaster activities have included principally the collection, tabulation, and analysis of data, the maintenance of records, and the preparation of the annual report which presents the determinations and findings of the Watermaster as required by the Judgment.

Ground Water Extractions

The most important data required for implementing the provisions of the Judgment are the annual tabulations of the ground water extractions and surface water diversions made within the San Bernardino, Colton, and Riverside Basin Areas. These extractions and diversions were initially determined and verified for the 1959-63 Base Period and were assembled and summarized in the Watermaster Report on Verification of Extractions, Volume 1 consisting of three parts, Volumes 2, 3, and 4 for the San Bernardino Basin Area, Colton Basin Area, Riverside Basin Area in San Bernardino County, and Riverside Basin Area in Riverside County, respectively. A program has been established for obtaining and tabulating annual notices of groundwater extractions and surface diversions filed with the State Water Resources Control Board. These data are verified by the Watermaster and provide the basis for the annual accounting of extractions as required by the Judgment. Such extractions have been determined for the calendar year 1987 and are summarized herein. Listings of the verified extractions by each individual owner for the calendar year 1987 are assembled in Report of Watermaster, Volumes 1-1987, 1A-1987, 2-1987, 3-1987, and 4-1987.

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 1987 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-1987.

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 1987 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, in Volume 6-1987.

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 1987 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-1987.

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 1987 in Volume 8 of previous Watermaster reports. The determination for the calendar year 1988 is shown in the Report of Watermaster, Volume 8-1987.

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 1987 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, 1988 to September 30, 1989

| Santa Ana River near Mentone | \$ 3,825 |
|---|------------------|
| Mill Creek Power Canal #1 near Yucaipa | 4,600 |
| Plunge Creek near East Highland | 8,425 |
| Devil Canyon Creek near San Bernardino | 3,825 |
| East Twin Creek near Arrowhead Springs | 4,350 |
| City Creek near Highland | 3,825 |
| San Timoteo Creek near Loma Linda | 3,825 |
| Lone Pine Creek near Keenbrook | 3,825 |
| Lytle Creek at Fontana Union Head Gates | |
| Lytle Creek near Fontana Streamflow | 3,825 |
| Weir No. 2Infiltration Line | 2,300 |
| Weir No. 3Head Gate Diversion | 2,300 |
| Weir No. 4Breed Line Diversion | 2,300 |
| 20-ft.WeirReturn to Creek | 4,600 |
| Southern California Edison Lower Power House on Lytle Creek | |
| 20-ft.WeirDischarge Lower Power House | 4,600 |
| Parshall FlumeReturn to Creek from Afterbay | 4,600 |
| Fontana Diversion (20-ft. Weir, West) | 4,600 |
| | |
| SUBTOTAL FOR PARTIES AND WATERMASTER | \$65,625 |
| United States Geological Survey | \$ 40 600 |
| | <u>\$42,625</u> |
| TOTAL | \$108,250 |

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 1987, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 1987 verifications are included in Report of Watermaster, Volume 1-1987.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the calendar years 1971 through 1987 are shown on Table No. 3. The individual work sheets for the 1987 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-1987 and Volume 5-1987.

For reference, the Adjusted Rights of other than Plaintiffs and Plaintiffs are also shown on Tables 2 and 3.

Paragraph VII of the Judgment entitled Water Discharged Across Bunker Hill Dike recites as follows:

San Bernardino Valley shall keep in force an agreement with the City of San Bernardino that the present annual quantity of municipal sewage effluent discharged across Bunker Hill Dike, assumed for all purposes herein to be 16,000 acre-feet annually, shall be committed to the discharge of the downstream obligations imposed on San Bernardino Valley under this Judgment or under the Orange County Judgment, and that such effluent shall comply with the requirements of the Santa Ana River Basin Regional Water Quality Control Board in effect December 31, 1968.

The Judgment does not charge the Watermaster with verification of the 16,000 acre-foot amount, and the enforcement of the quality requirements is considered to be the responsibility of the California Regional Water Quality Control Board-Santa Ana Region.

Prior to December, 1972, sewage effluent was discharged across the Bunker Hill Dike via Warm Creek (Plant No. 1) and the Santa Ana River (Plant No. 2). With

the completion of the new Water Quality Control Plant at the "E" Street site (Plant No. 2) the total effluent discharge of the City of San Bernardino Water Quality Control Plant accrues to the Santa Ana River immediately upstream from the "E" Street Bridge. In January, 1973, the Watermaster in cooperation with the USGS began operation of a gaging station on the plant outfall to obtain a continuous record of the quantity and mineral quality of the sewage effluent discharged to the Santa Ana River. This station has been discontinued and Watermaster now relies on the City of San Bernardino for these data.

The discharge to the Santa Ana River upstream from the Bunker Hill Dike has been determined by the Watermaster as shown on the following table:

| Calendar | Plant No. 1 | Plant No. 2 | Total |
|-------------|-------------|-------------|-------------|
| <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 |
| 1987 | 0 | 27,154 | 27,154 |
| | | | |

TABLE NO. 2

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

(All Values in Acre-Feet)

| | Verified | Extractions | | |
|------------------|---|---|----------------------|----------------------|
| Calendar Year | By Owners Who Have Filed With SWRCB | By Owners Who Have Not Filed With SWRCB | Total | Adjusted Right |
| 1971 | 154,836 ² | 8,350 ² | 163,186 ² | 171,342 ¹ |
| 1972 | 159,628 ² | 7,599 ² | 167,227 ² | 167,238 |
| 1973 | 152,604 ³ | 7,177 ³ | 159,781 ³ | 167,238 |
| 1974 | 153,099 ⁴ | 5,586 ⁴ | 158,685 ⁴ | 167,238 |
| 1975 | 147,199 | 4,482 | 151,681 | 167,238 |
| 1976 | 140,329 ⁵ | 3,988 ⁵ | 144,317 ⁵ | 167,238 |
| 1977 | 139,844 | 4,967 | 144,811 | 167,238 |
| 1978 | 132,439 | 4,601 | 137,040 | 167,238 |
| 1979 | 150,196 | 4,611 | 154,807 | 167,238 |
| 1980 | 153,918 ⁶ | 5,504 | 159,422 ⁶ | 167,238 |
| 1981 | 167,564 | 5,075 | 172,639 | 167,238 |
| 1982 | 148,250 ⁷ | 4,790 | 153,040 ⁷ | 167,238 |
| 1983 | 142,088 ⁸ | 4,346 | 146,434 ⁸ | 167,238 |
| 1984 | 175,605 ⁸ | 5,203 | 180,808 ⁸ | 167,238 |
| 1985 | 172,976 ⁸ | 4,943 ⁸ | 177,919 ⁸ | 167,238 |
| 1986 | 180,702 ⁹ | 4,892 | 185,594 ⁹ | 167,238 |
| 1987 | 168,171 | 4,330 | 172,501 | 167,238 |
| | | | | |

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

² Amount corrected during verification of 1973 extractions.

³ Amount corrected during verification of 1974 extractions.

⁴ Amount corrected during verification of 1975 extractions.

⁵ Amount corrected during verification of 1977 extractions.

⁶ Amount corrected during verification of 1981 extractions.

⁷ Amount corrected during verification of 1983 extractions.

⁸ Amount corrected during verification of 1986 extractions.

⁹ Amount corrected during verification of 1987 extractions. Note: See Report of Watermaster, Volume 1.

TABLE NO. 2

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

(All Values in Acre-Feet)

| | Verified Extractions | | | |
|---------------------|---|---|---------|-------------------|
| Five-Year Period | By Owners Who Have Filed With SWRCB | By Owners Who Have Not Filed With SWRCB | Total | Adjusted Right |
| 1971-75 | 767,366 | 33,194 | 800,560 | 840,294 |
| 1972-76 | 752,859 | 28,832 | 781,691 | 836,190 |
| 1973-77 | 733,075 | 26,200 | 759,275 | 836,190 |
| 1974-78 | 712,910 | 23,624 | 736,534 | 836,190 |
| 1975-79 | 710,007 | 22,649 | 732,656 | 836,190 |
| 1976-80 | 716,726 | 23,671 | 740,397 | 836,190 |
| 1977-81 | 743,961 | 24,758 | 768,719 | 836,190 |
| 1978-82 | 752,367 | 24,581 | 776,948 | 836,190 |
| 1979-83 | 762,016 | 24,326 | 786,342 | 836,190 |
| 1980-84 | 787,425 | 24,918 | 812,343 | 836,190 |
| 1981-85 | 806,483 | 24,357 | 830,340 | 836,190 |
| 1982-86 | 819,621 | 24,174 | 843,795 | 836,190 |
| 1983-87 | 839,542 | 23,714 | 863,256 | 836,190 |

TABLE NO. 3

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

Plaintiffs

| | | City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company) | Riverside Highland Water Company | Agua Mansa Water Company and Meeks & Daley Water Co. | Regents of the University of California | Total |
|---|---|--|--|--|---|---|
| Total Extractions in San Bernardino Basin Area | Adjusted Right ¹ 1971 Extractions 1972 Extractions 1973 Extractions 1974 Extractions | 52,199 53,882 45,694 43,022 43,367 47,962 | 4,294 4,012 4,532 3,512 4,088 4,709 | 7,833 2,902 3,527 2,979 4,504 3,950 | 536 219 239 239 267 179 | 64,862 61,015 53,992 49,752 52,226 56,800 |
| Delivery to San Bernardino Basin Area | Adjusted Right ¹ 1971 Extractions 1972 Extractions 1973 Extractions 1974 Extractions | 1,427 98 ² 85 156 0 | 00000 | 00000 | 00000 | 1,427 98 ² 85 156 0 |
| Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County | Adjusted Right ¹ 1971 Extractions 1972 Extractions 1973 Extractions 1974 Extractions | 1,230 669 547 512 550 498 | 2,449 2,388 2,239 1,751 1,985 2,002 | 318 383 377 250 246 168 | 00000 | 3,997 3,440 3,163 2,513 2,781 2,668 |
| Delivery to Area Outside San Bernardino Valley | Adjusted Right ¹ 1971 Extractions 1972 Extractions 1973 Extractions 1974 Extractions | 49,542 53,1152 45,062 42,354 42,817 47,464 | 1,845 1,624 2,293 1,761 2,103 | 7,515 2,519 3,150 2,729 4,258 3,782 | 536 219 239 239 267 179 | 59,438 57,477 ² 50,744 47,083 49,445 54,132 |

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

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

TABLE NO. 3

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

Plaintiffs

| | | City of Riverside (including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company) | Riverside Highland Water Company | Agua Mansa Water Company and Meeks & Daley Water Co. | Regents of the University of California | Total |
|---|---|--|--|---|---|--|
| Total Extractions in San Bernardino Basin Area | Adjusted Right ¹ 1976 Extractions 1977 Extractions | 52,199 51,374 50,999 | 4,294 4,519 3,583 | 7,833 5,393 4,220 | 536 245 87 | 64,862 61,531 58,880 |
| | 1978 Extractions 1979 Extractions 1980 Extractions | 45,384 52,377 50,756 | 1,350 3,369 3,677 | 2,254 3,930 2,333 | 183 83 7 | 59,759 59,759 56,773 |
| Delivery to San Bernardino Basin Area | Adjusted Right ¹ 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions | 1,427 0 0 646 ² 383 | 00000 | 00000 | | 1,427 0 0 646 ² 383 |
| Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County | Adjusted Right ¹ 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions | 1,230 523 346 301 415 0 | 2,449 2,050 1,820 1,051 1,781 2,060 | 318 182 146 161 166 ³ 323 | 00000 | 3,997 2,755 2,312 1,513 2,362 ³ 2,383 |
| Delivery to Area Outside San Bernardino Valley | Adjusted Right ¹ 1976 Extractions 1977 Extractions 1978 Extractions 1979 Extractions | 49,542 50,851 50,653 44,437 ² 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 ³ 2,010 | 536 245 87 183 83 | 59,438 58,776 56,577 47,012 ² 57,397 ³ |

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

² Amount corrected during verification of 1980 extractions.

³ Amount corrected during preparation of report for Calendar Year 1982. Note: See Report of Watermaster, Volume 1A and Volume 5.

TABLE NO. 3

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

Plaintiffs

| | | City of Riverside (including those rights acquired as | | | | |
|-----------------------|-----------------------------|---|--------------------|---------------------------------------|------------------------------|--------|
| | | Successor to the Riverside Water Company and the | Riverside Highland | Agua Mansa Water Company and Meeks | Regents of the University of | |
| | | Cage Canal Company) | Water Company | & Daley Water Co. | California | Total |
| Total Extractions | Adjusted Right ¹ | 52,199 | 4,294 | 7,833 | 536 | 64.862 |
| of San Bernardino | | 52,157 | 3,604 | 3,092 | 143 | 58 996 |
| Basin Area | 1982 Extractions | 49,599 | 2,795 | 3,716 | 8 | 56.158 |
| | | 46,064 | 3,161 | 2.651 | ; c | 51,20 |
| | 1984 Extractions | 58,906 | 4,759 | 5,165 |) C | 68,830 |
| | 1985 Extractions | 63,073 | 3,312 | 5,385 | 00 | 71,770 |
| : | | | | | | • |
| Delivery to | Adjusted Right | 1,427 | 0 | 0 | 0 | 1.427 |
| | | 724 | 0 | 0 | 0 | 724 |
| ∠ Basin Area | | 162^{2} | 0 | 0 | c | 1622 |
| | 1983 Extractions | 335 | 0 | 0 | | 335 |
| | 1984 Extractions | 32 | 0 | 0 | , | 33 |
| | 1985 Extractions | 59 | 0 | 0 | . 0 | 29 |
| : | • | | | | | |
| Delivery to Colton | Adjusted Right ¹ | 1,230 | 2,449 | 318 | 0 | 3.997 |
| Basin Area and | | 0 | 2,151 | 358 | 0 | 2,509 |
| Kiverside Basin Area | | 0 | 1,775 | 169 | 0 | 1,944 |
| in San Bernardino | 1983 Extractions | 0 | 2,318 | 245 | 0 | 2,563 |
| County | | 0 | 2,671 | 233 | 0 | 2 904 |
| | 1985 Extractions | 0 | 1,978 | 210 | 0 | 2,188 |
| Delivery to Area | Adjusted Right ¹ | 49 542 | 1 845 | 7 646 | Ç | 6 |
| Outside | 1981 Extractions | 51,433 | 1.453 | 0.1.C. | 550 | 54,438 |
| San Bernardino Valley | 1982 Extractions | 49 4372 | 1,020 | 2, C4 | 7 7 7 | 20,703 |
| | | 45 720 | 27017 | - 10°C | | 24,052 |
| | | 58 874 | 2 043 | 2,400 A 032 | > c | 48,978 |
| | | 63.014 | 1 334 | 1,332 5,475 | > 0 | 400,00 |
| | | 10,00 | +00'T | 611,6 | Þ | 69,523 |
| | | | | | | |

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

² Amount corrected during verification of 1983 extractions. Note: See Report of Watermaster, Volume 1A and Volume 5.

TABLE NO. 3

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

Plaintiffs

| e Total | 64,862 70,341 66,869 | 1,427 437 334 | 3,997 2,364 2,422 | 59,438 67,540 64,113 |
|--|--|---|---|---|
| Regents of the University of California | 536 48 195 | 000 | 000 | 536 48 195 |
| Agua Mansa Water Company and Meeks & Daley Water Co. | 7,833 5,570 4,914 | 000 | 318 234 193 | 7,515 5,336 4,721 |
| Riverside Highland Water Company | 4,294 4,744 3,919 | 000 | 2,449 2,130 2,229 | 1,845 2,614 1,690 |
| City of Riverside (including those rights acquired as successor to the Riverside W≇ter Company and the Gage Canal Company) | 52,199 59,979 57,841 | 1,427 437 334 | 1,230 0 0 | 49,542 59,542 57,507 |
| | Adjusted Right ¹ 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions 1990 Extractions | Adjusted Right ¹ 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions | Adjusted Right ¹ 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions | Adjusted Right ¹ 1986 Extractions 1987 Extractions 1988 Extractions 1989 Extractions |
| | Total Extractions of San Bernardino Basin Area | Delivery to San Bernardino Basin Area | Delivery to Colton Basin Area and Riverside Basin Area in San Bernardino County | Delivery to Area Outside San Bernardino Valley |

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

CHAPTER IV

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

CHAPTER IV

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

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

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

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

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

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

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

ADJUSTED RIGHTS FOR EXTRACTIONS BY PLAINTIFFS FROM THE SAN BERNARDINO BASIN AREA BASED ON NATURAL SAFE YIELD OF 232,100 ACRE-FEET PER ANNUM ¹

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

| 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 | S | | | |
| Gage Canal Company) | 52,199 ² | 1,427 | 1,230 | 49,542 ² |
| Riverside Highland Water Company | 4,294 | 0 | 2,449 | 1,845 |
| Agua Mansa Water Compa and Meeks & Daley Water Company | any 7,833 | 0 | 318 | 7,515 |
| Regents of the University of California | 536 ² | 0 | 0 | 536 ² |
| TOTAL | 64,862 | 1,427 | 3,997 | 59,438 |

¹ Effective January 1, 1972.

The Adjusted Rights allocated to the City of Riverside and the Regents of the University of California were established at 52,169 and 566 acre-feet per annum respectively. On that basis University of California was reduced to 536 acre-feet, and the City of Riverside adjusted right was increased to 52,199 acre-feet.

CHAPTER V

EXTRACTIONS FROM COLTON BASIN AREA AND RIVERSIDE BASIN AREA IN SAN BERNARDINO

CHAPTER V

EXTRACTIONS FROM THE COLTON BASIN AREA AND RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY

For Use Outside San Bernardino Valley Municipal Water District

The extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use outside San Bernardino Valley during the 1987 calendar year have been verified by the Watermaster as 1,557 acre-feet and 7,712 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-1987, Volume 3-1987, and Volume 5-1987 entitled Verified Extractions From Colton Basin Area, Verified Extractions From Riverside Basin Area Within San Bernardino County and Distribution of Extractions From the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Outside the San Bernardino Valley Municipal Water District, respectively.

For Use Within San Bernardino Valley Municipal Water District

Provided minimum water surface elevations within the Colton Basin and that portion of Riverside Basin Area within San Bernardino County are maintained by San Bernardino Valley Municipal Water District, extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use within San Bernardino Valley are not limited and therefore verification of such amounts are not specifically required by the Judgment. However, proper allocation of the total extractions from these areas for use on areas outside San Bernardino Valley necessitates the verification of these extractions. The individual work sheets for the 1987 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-1987, 3-1987 and 5-1987.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for the calendar years 1971 through 1987 are summarized in Tables 4 and 5 following.

TABLE NO. 4

VERIFIED EXTRACTIONS FROM COLTON BASIN AREA BY SAN BERNARDINO AND RIVERSIDE COUNTY **ENTITIES FOR USE WITHIN EACH COUNTY**

(All Values in Acre-Feet)

| | | | | Extracte Riverside County | d by | |
|---|------------------------|---|-------|-------------------------------------|--------------------------|---|
| 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 | | | | | <u> </u> | |
| 1959-63 Avg. | 11,731 ³ | 8,235 ³ | 3,496 | 115 | 3,381 | 3,381 |
| 1971 | 11,388 ² | 8,363 ² | 3,025 | 248 | 2,777 | 3,381 |
| 1972 | 10,414 | 7,532 | 2,882 | 271 | 2,611 | 3,381 |
| 1973 | 7,844 | 6,982 | 862 | 247 | 615 | 3,381 |
| 1974 | 8,906 | 7,169 | 1,737 | 273 | 1,464 | 3,381 |
| 1975 | 11,083 | 6,821 | 4,262 | 389 | 3,873 | 3,381 |
| 1976 | 11,5584 | 8,605 ⁴ | 2,953 | 270 | 2,683 | 3,381 |
| 1977 | 8,777 | 6,061 | 2,716 | 447 | 2,269 | 3,381 |
| 1978 | 7,663 | 6,430 | 1,233 | 338 | 895 | 3,381 |
| 1979 | 7,194 | 5,224 | 1,970 | 288 | 1,682 | 3,381 |
| 1980 | 5,681 ⁵ | 5,610 ⁵ | 71 | 0 | 71 | 3,381 |
| 1981 | 6,348 | 6,175 | 173 | 0 | 173 | 3,381 |
| 1982 | 6,499 | 5,450 | 1,049 | 68 | 981 | 3,381 |
| 1983 | 4,735 ⁶ | 4,603 ⁶ | 132 | 37 | 95 | 3,381 |
| 1984 | 8,987 | 7,441 | 1,546 | 206 | 1,340 | 3,381 |
| 1985 | 10,149 | 7,142 | 3,007 | 763 | 2,244 | 3,381 |
| 1986 | 10,035 | 7,651 | 2,384 | 784 | 1,600 | 3,381 |
| 1987 | 13,175 | 11,054 | 2,121 | 564 | 1,557 | 3,381 |

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

² Amount corrected during verification of 1972 extractions.

³ Amount corrected during verification of 1972 and 1973 extractions.

⁴ Amount corrected during verification of 1977 extractions.

⁵ Amount corrected during verification of 1981 extractions.

⁶ Amount corrected during verification of 1984 extractions.

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

TABLE NO. 4

VERIFIED EXTRACTIONS FROM COLTON BASIN AREA BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE WITHIN EACH COUNTY (All Values in Acre-Feet)

Extracted by

| | | | | Riverside County | Entities | |
|------------------------|------------------------|---|--------|-------------------------------------|--------------------------------|---|
| 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 |
| 1983-87 | 47,081 | 37,891 | 9,190 | 2,534 | 6,836 | 16,905 |
| | | | | | | |

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

TABLE NO. 5

VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE WITHIN EACH COUNTY (All Values in Acre-Feet)

Extracted by Riverside County Entities Extractions Base Right for Total Extracted by Used in Used in for Use in Calendar from San Bernardino San Bernardino Riverside Riverside Years Basin County Entities Total County County County 1 Five-Year Base Period 1959-63 Avg. 33,729 9,609 24,120 3,035 21,085 21,985 1971 29,070 8,748 20,322 2,214 18,108 21,085 1972 28,148 7,963 20,185 1,597 18,588 21,085 1973 21,809 6,490 15,319 1,333 13,986 21,085 1974 21,881 6,899 14,982 1,399 13,583 21,085 1975 22,701 6,513 16,188 1,225 14,963 21,085 1976 24,705 6,898 17,807 1,666 16,141 21,085 1977 23,506 7,089 16,417 1,985 14,432 21,085 1978 17,216 6,261 10,955 1,900 9,055 21,085 1979 20,024 7,062 12,962 2,370 10,592 21,085 1980 18,533 5,9322 12,601² 3,410 9,1912 21,085 1981 23,611 6,811 16,800 3,733 13,067 21,085 1982 17.349^3 5,409 $11,940^3$ 3.483^3 8,457 21,085 1983 11.904^3 $5,204^3$ $6,700^3$ 2.925^{3} 3,775 21,085 1984 17,161 5.648 11,513 1,953 9,560 21,085 1985 19,3924 6,0484 13,344 2,143 11,201 21,085 1986 17,337 7,401⁵ 9,936⁵ 1,245 8,6915 21,085 1987 15,763 7,334 8,429 717 7,712 21,085

Note: See Report of Watermaster, Volume 3, Tables 4 & 5; and Volume 5, Table 54.

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

² Amounts corrected during verification of 1981 extractions.

³ Amounts corrected during verification of 1984 extractions.

⁴ Amounts corrected during verification of 1986 extractions.

⁵ Amounts corrected during verification of 1987 extractions.

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 | |
|------------------------|------------------------|---|---------|-------------------------------------|--------------------------------|---|
| 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 | 168,645 | 48,045 | 120,600 | 15,175 | 105,425 | 105,425 |
| 1971-75 | 123,609 | 36,613 | 86,996 | 7,768 | 79,228 | 105,425 |
| 1972-76 | 119,244 | 34,763 | 84,481 | 7,220 | 77,261 | 105,425 |
| 1973-77 | 114,602 | 33,889 | 80,713 | 7,608 | 73,105 | 105,425 |
| 1974-78 | 110,009 | 33,660 | 76,349 | 8,175 | 68,174 | 105,425 |
| 1975-79 | 108,152 | 33,823 | 74,329 | 9,146 | 65,183 | 105,425 |
| 1976-80 | 103,894 | 33,242 | 70,742 | 11,331 | 59,411 | 105,425 |
| 1977-81 | 102,890 | 33,155 | 69,735 | 13,398 | 56,337 | 105,425 |
| 1978-82 | 96,733 | 31,475 | 65,258 | 14,896 | 50,362 | 105,425 |
| 1979-83 | 91,421 | 30,418 | 61,003 | 15,921 | 45,082 | 105,425 |
| 1980-84 | 88,558 | 29,004 | 59,554 | 15,504 | 44,050 | 105,425 |
| 1981-85 | 89,417 | 29,120 | 60,297 | 14,237 | 46,060 | 105,425 |
| 1982-86 | 83,143 | 29,746 | 53,397 | 11,749 | 41,648 | 105,425 |
| 1983-87 | 81,557 | 31,635 | 49,922 | 8,983 | 40,939 | 105,425 |
| | | | | | | |

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

Minimum Water Surface Elevations

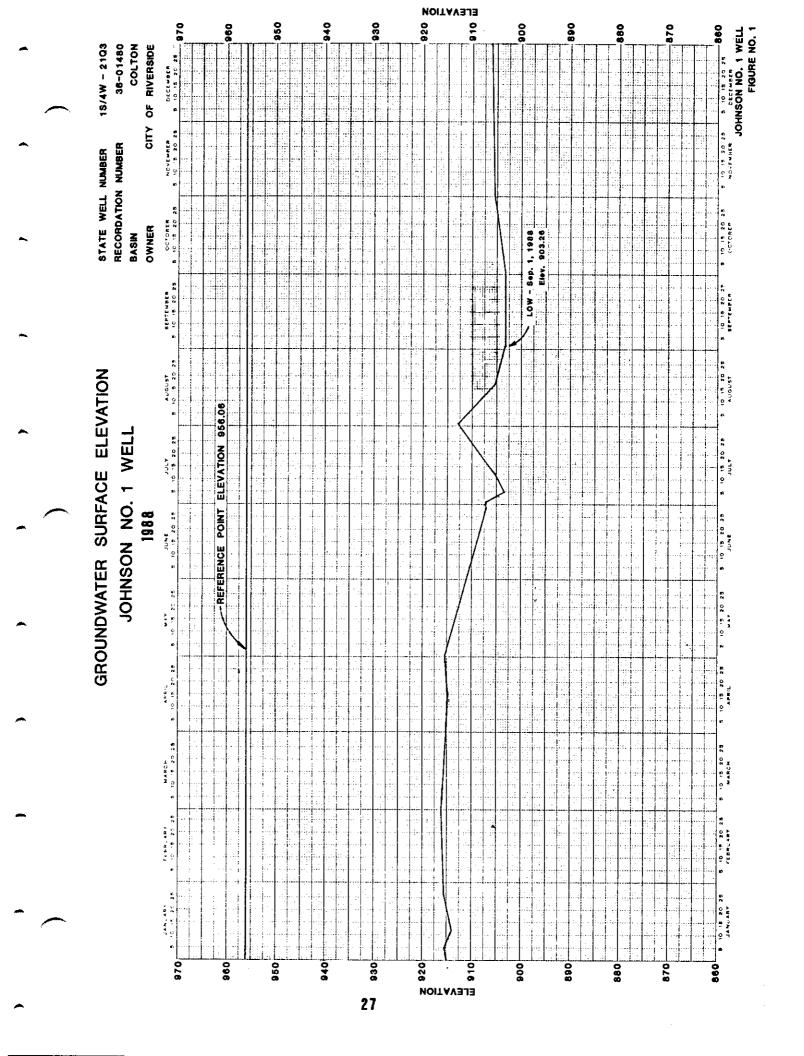
Extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited, provided that the average static water surface elevation as measured at wells numbered 15/4W-21Q03, 15/4W-29H01, and 15/4W-29Q01 is not less 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.

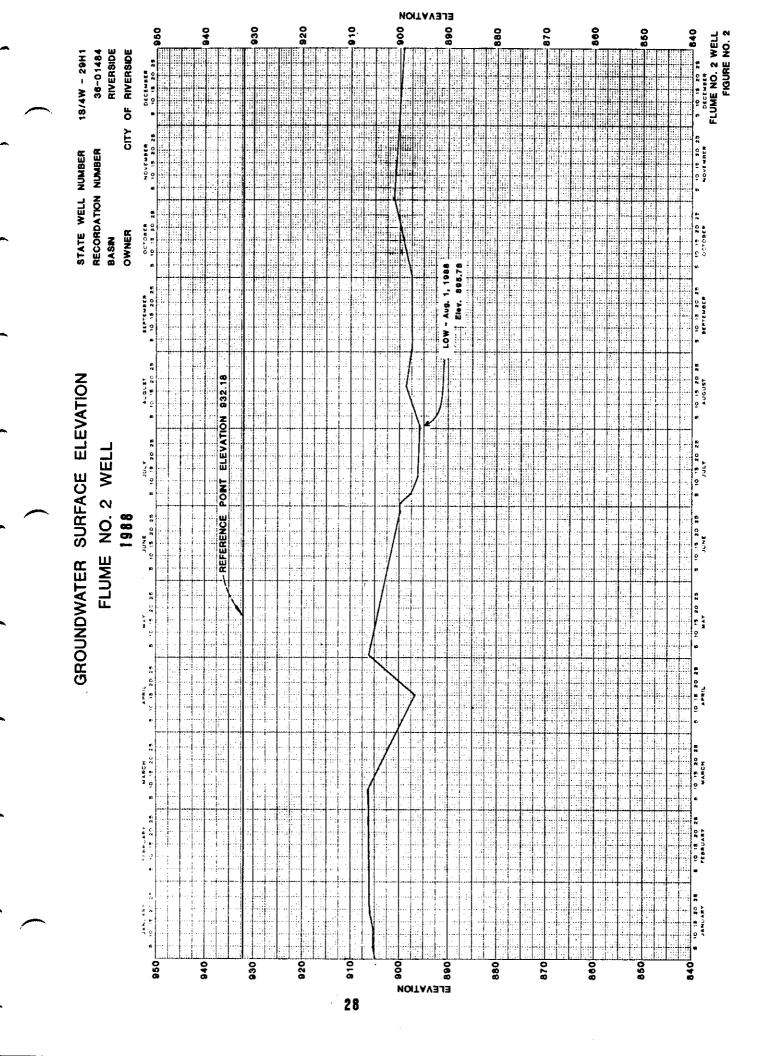
Hydrographs of the 1988 static water surface elevations in the three key wells are shown on Figures 1, 2, and 3 which follow. Data pertinent to the key wells as well as the records of historic water surface measurements are included in Report of Watermaster, Volume 8-1987 entitled Ground Water Surface 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, 1988.

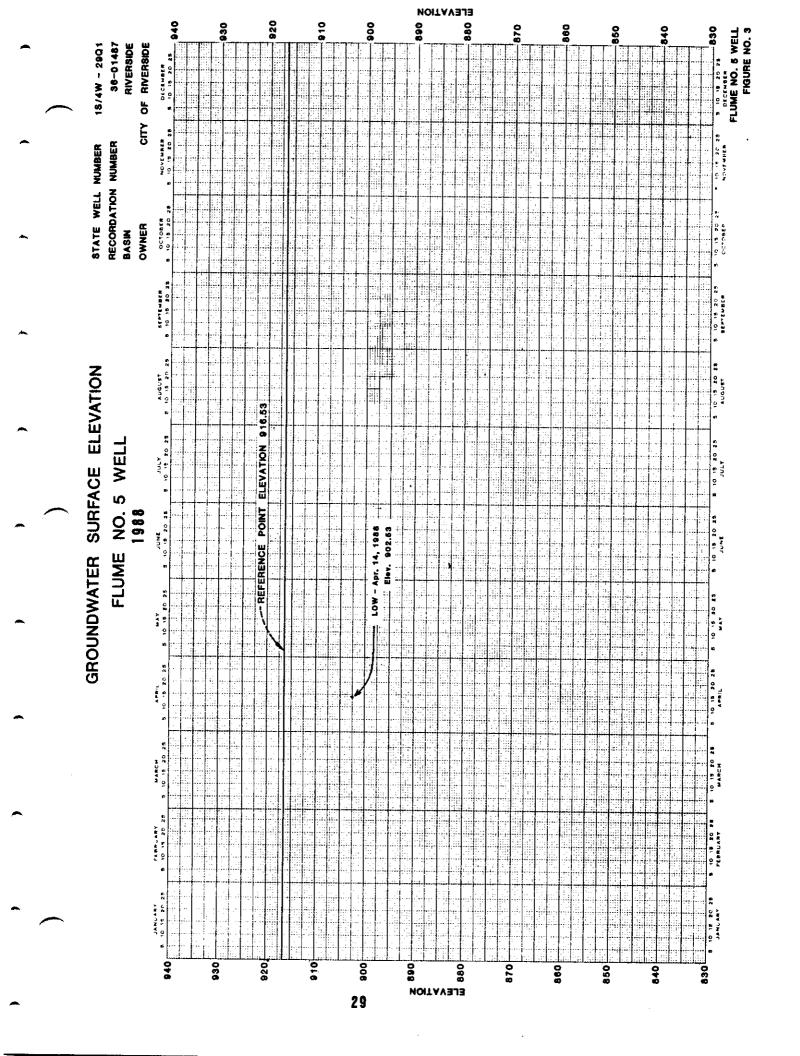
The lowest static water surface elevation measured in each of the three wells during the fall of 1988 is as follows:

| Well Number | Date of Measurement | Elevation of Water Surface |
|-------------|---------------------|-------------------------------|
| 1S/4W-21Q03 | 09/01/88 | 903.26 |
| 1S/4W-29H01 | 08/01/88 | 895.78 |
| 1S/4W~29Q01 | 04/14/88 | 902.53 |
| | Average | 900.52 |

Thus, the lowest average fall water surface elevation for the calendar year 1988 is 4.60 feet lower than the 1987 average of 905.12 and 78.48 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 1987 have been verified by the Watermaster as 24,840 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-1987 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 | |
| | 29,033 | 29,633 |
| 1971 | 30,942 ¹ | 29,633 |
| 1972 | 37,804 ² | 29,633 |
| 1973 | 33,094 | 29,633 |
| 1974 | 38,304 ² | 29,633 |
| 1975 | 28,285 | 29,633 |
| 1976 | 31,565 | 29,633 |
| 1977 | 28,226 | 29,633 |
| 1978 | 24,878 ³ | 29,633 |
| 1979 | 25,512 | 29,633 |
| 1980 | 30,206 ⁴ | 29,633 |
| 1981 | 30,243 ⁴ | 29,633 |
| 1982 | 20,365 ⁵ | 29,633 |
| 1983 | 22,991 ⁵ | 29,633 |
| 1984 | 32,466 ⁶ | 29,633 |
| 1985 | 23,925 | 29,633 |
| 1986 | 24,549 ⁷ | 29,633 |
| 1987 | 24,840 | 29,633 |
| | | |

¹ Amount corrected during verification of 1972 extractions.

These extractions exceeded the Base Right plus peaking allowance of 20% by 2,244 acre-feet in 1972 and 2,744 acre-feet in 1974.

³ Amount corrected during verification of 1980 extractions.

⁴ Amount corrected during verification of 1983 extractions.

⁵ Amount corrected during verification of 1984 extractions.

⁶ Amount corrected during verification of 1985 extractions.

⁷ Amount corrected during verification of 1987 extractions.
Note: See Report of Watermaster, Volume 4, Table 4.

TABLE NO. 6

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

| Five-Year Period | Total Verified Extractions | Base Right for Use in Riverside County |
|------------------------|----------------------------------|--|
| Base Period 1959-63 | 148,165 | 148,165 |
| 1971-75 | 168,429 | 148,165 |
| 1972-76 | 169,052 | 148,165 |
| 1973-77 | 159,474 | 148,165 |
| 1974-78 | 151,258 | 148,165 |
| 1975-79 | 138,466 | 148,165 |
| 1976-80 | 140,387 | 148,165 |
| 1977-81 | 139,065 | 148,165 |
| 1978-82 | 131,204 | 148,165 |
| 1979-83 | 129,317 | 148,165 |
| 1980-84 | 136,271 | 148,165 |
| 1981-85 | 129,990 | 148,165 |
| 1982-86 | 124,296 | 148,165 |
| 1983-87 | 128,771 | 148,165 |
| | | |

Return Flows

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

APPENDIX D

TABLE D-5

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

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

The service areas of the companies listed in Table D-5 were investigated and re-mapped in August, 1986. These maps showing the 1987 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 1983 through 1987 and are shown on 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)

TABLE NO. 7

| Calendar Year | Gage Canal | Alta Mesa | East Riverside | Riverside Highland | Total |
|------------------|------------|-----------|-------------------|-----------------------|-------|
| 1983 | 197 | 38 | 205 | 0 | 440 |
| 1984 | 197 | 38 | 253 | 0 | 488 |
| 1985 | 205 | 38 | 255 | 0 | 498 |
| 1986 | 213 | 38 | 275 | 0 | 526 |
| 1987 | 226 | 38 | 281 | 0 | 545 |
| TOTAL 1983-87 | 1,038 | 190 | 1,269 | 0 | 2,497 |

Table No. 7 shows that in 1987 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 549 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 1987 were verified by the Watermaster to be 30,842 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 6-1987, entitled *Verified Extractions from the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Within Western on Lands Not Tributary to the Riverside Narrows.*

TABLE NO. 8

VERIFIED EXTRACTIONS FROM
THE SAN BERNARDINO BASIN AREA,
THE COLTON BASIN AREA, AND THE RIVERSIDE BASIN AREA
FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY
TO THE RIVERSIDE NARROWS
(All Values in Acre-Feet)

Calendar Years

| Entities Within WMWD | Annual 1959-63 Average | 1983 Verified Delivery | 1984 Verified Delivery | 1985 Verified Delivery | 1986 Verified Delivery | 1987 Verified Delivery |
|---|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company | 23,836 | 24,484 | 28,515 | 24,697 | 25,111 | 24,437 |
| Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water received from City of Riverside | 13,229 | 3,299 | 5,895 | 4,7381 | 5,417 | 5,500 |
| 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 | 817 | 1,160 | 945 | 68 4 | 629 |
| Jurupa Community Services District | 531 | 0 | 527 | 006 | 545 | 0 |
| Rubidoux Community Services District | 36 | 276 | 316 | 324 | 328 | 246 |
| TOTAL | 42,535 | 28,876 | 36,413 | $31,604^{1}$ | 32,085 | 30,842 |

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

CHAPTER VIII

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

CHAPTER VIII

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

Deliveries to Chino Basin

The extractions from the Colton and San Bernardino Basin Areas which were delivered for use on lands not within Western nor tributary to the Riverside Narrows (Chino Basin) during the calendar year 1987, were verified by the Watermaster to be 26,364 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 1987 calendar year indicated that during 1987 San Bernardino Valley Municipal Water District diverted 1,527 acre-feet of water from Mill Creek and delivered such water to the Yucaipa Basin as shown on Table No. 9. During 1987, no water was exported to the San Timoteo, Oak Glen or Beaumont Basins.

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

Calendar Years

| Entities | Annual 1959-63 Average | 1983 Verified Delivery | 1984 Verified Delivery | 1985 Verified Delivery | 1986 Verified Delivery | 1987 Verified Delivery |
|---|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Fontana Union Water Company | 10,1701 | 21,1243 | 19,220 | 18,623 | 21,832 | 19,907 |
| West San Bernardino County Water District | 1,806 | 2,951 | 2,903 | 3,606 | 3,252 | 5,807 |
| City of Rialto | 5511 | 632 | 949 | 731 | 1,014 | 1,370 |
| Subtotal (Delivery to Chino Basin) | 12,527 | 24,707 ³ | 23,072 | 22,960 | 26,098 | 26,364 |
| San Bernardino Valley Municipal Water District | 0 | 1,554² | 321 ² | 1,0632 | 4862 | 1,527 |
| Subtotal (Delivery to areas other than Chino Basin) | 0 | 1,554 | 321 | 1,063 | 486 | 1,527 |
| TOTAL | 12,527 ¹ | 26,261 ³ | 23,393 | 24,023 | 26,584 | 27,891 |

¹ Amount corrected during verification of 1973 deliveries.

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

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

³ 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 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, 1985, 1986, and 1987.

In 1987, City of Riverside extracted additional water under terms of the 1981 agreement as amended by the SBVMWD and Western Boards in an amendment dated

May 20, 1987. Footnotes on Table 10 indicate that the City of Riverside extracted 7,965 acre-feet of additional water for export from the San Bernardino Basin Area during 1987.

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 1983 through 1987 were less than their respective Adjusted 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 1983 through 1987, the Non-Plaintiffs' production did exceed the Adjusted Right. (See Table 17)

A comparison of Adjusted Rights to actual production by Plaintiffs and Non-Plaintiffs for the period 1983 through 1987 is as follows:

| ÍΔII | Values | in | Acre | -East) |
|-------|--------|-----|------|--------|
| 1/511 | values | 131 | ACTE | -reen |

| | Adjusted Right 1983-1987 | Actual Extractions | Difference |
|----------------|-----------------------------|-----------------------|------------|
| Plaintiffs | 324,310 | 321,605 | 2,705 |
| Non-Plaintiffs | 836,190 | 863,256 | (27,066) |
| TOTAL | 1,160,500 | 1,184,861 | (24,361) |

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 Adjusted Right and actual export for use on lands in Riverside County and San Bernardino County not tributary to the Riverside Narrows. Table 14 shows that during the period 1983 through 1987 the export by entities within Western was 52,855 acre-feet less than the Adjusted Right.

Table 15 shows that exports from San Bernardino Valley for use in San Bernardino County exceeded Adjusted Right for the period 1971 through 1987 by 152,115 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, 1986 and 1987 has been excluded from amounts of export shown on Table 14. The additional water extracted by Non-Plaintiffs in 1985 and 1987 has not been excluded from the amount of export shown on Table 15; however, the 10,681 acre-feet and the 5,263 acre-feet of additional water extracted by Non-Plaintiffs in 1985 and 1987, respectively, have been excluded from the computation of excess export on Table 17 (See Footnotes 13 and 14).

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 1983 through 1987 were 93,949 acre-feet less than the total five-year Base Right. This under-extraction results in extraction credits for the five-year period 1983 through 1987 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 96,160 acre-feet.

Since actual extractions have not exceeded the Base Right during the period 1983 through 1987, 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 1983 through 1987 has resulted in an obligation of 2,497 acre-feet. (See Table 7) Therefore, Western's total accumulated obligation during the period 1983 through 1987 is 2,497 acre-feet.

In summary, Table 16 shows that during the five-year period 1983 through 1987 Western's accumulated credits exceeded its accumulated obligation by 93,663 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 1983.

As indicated previously, the actual extractions from the San Bernardino Basin Area were greater than the Adjusted Right during the period 1983 through 1987. The actual extractions for 1987 were greater than the annual Adjusted Right; therefore, the extraction credit for 1987 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 1987 total 307,050 acre-feet.

Actual extractions exceeded the Adjusted Right in 1984, 1985, 1986 and 1987. Table 17 indicates an obligation related to the excess extraction in 1984 of 13,570 acre-feet and in 1986 of 18,356 acre-feet. The accumulated obligation resulting from excess extractions in 1984 and 1986, and excess export during the period 1971 through 1987 is 173,498 acre-feet as shown on Table 17.

In summary, Table 17 shows that at the end of the five-year period 1983 through 1987 San Bernardino Valley's accumulated credits exceeded its accumulated obligations by 133,552 acre-feet.

Chapter V indicates that extractions in the Colton Basin Area and Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited provided that San Bernardino Valley maintains a specified minimum static water surface elevation in these Basins. During the five-year period 1983 through 1987 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 1983 through 1987. 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 1983 through 1987.

Page 1 of

TADLE NO. 10

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

| | reas | ino Valley | • | Actual ³ | 3 4 | 53,115 | 45,062 | 42,354 | 42 017 | 170'74 | 47,464 | 50.851 | 50,653 | 0000 | 44,437 | 51.962 | 50 373 | 5,010 | 01,400 | 49,437 | 45 7297 | TO 0748 | 20,014 | $63,014^{9}$ | 59 54210 | 57 50711 |
|-------------------------------|-------------------------------------|------------------------|-----------|------------------------|---------|--------------|---------|---------|---------|------------------|---------------------|--|---------|-----------|--------------|---------|---------|--------------|----------|---------|---------------------|----------|------------------|--------------|----------|----------|
| | Delivery to Areas | Outside San Bernardino | Maximum | Allowable ² | | 02,944 | 64,405 | 64,405 | 5.4 AOE | 50, | 64,405 | 64,405 | 64 405 | | 04,405 | 64,405 | 64 405 | 201,10 | 04,400 | 64,405 | 64,405 | EA AOE | C0+,+0 | 64,405 | 64,405 | 64,405 |
| | <u>.</u> | Outside | Adjusted | Right ¹ | 70 7764 | . 97 J nc | 49,542° | 49,5425 | 40 5475 | 40,542 | 49,542 | 49,542 | 49 5475 | 20,010,00 | 7+C'6+ | 49,5425 | 49 5475 | 40 KA25 | 340,04 | 49,542 | 49.542 ⁵ | AO 5475 | 24.0.64 | 49,542 | 49,5425 | 49.5425 |
| sin and | reas | County | | Actual ³ | 099 | 600 | 547 | 512 | 550 | 000 | 430 | 523 | 346 | 20.5 | Toc | 415 | -0- | · c | , | ÷ | þ | -0- | \ | ÷ | -0- | -0- |
| Delivery to Colton Basin and | Riverside Basin Areas | | Maximum | Allowable ² | 1 638 | 001 | 1,599 | 1,599 | 1.599 | 1 500 | 450,1 | 1,599 | 1,599 | 1 500 | 4 C C C T | 1,599 | 1.599 | 1 599 | 4 500 | 4,033 | 1,599 | 1 599 | 3 6 6 | 1,599 | 1,599 | 1,599 |
| Delivery | Rive | BC 11 | Adjusted | Right ¹ | 1 2604 | 2,4 | 1,230 | 1,230 | 1.230 | 1 230 | 4,600 | 1,230 | 1,230 | 1 230 | 2001 | 1,230 | 1,230 | 1,230 | 1 230 | 4,430 | 1,230 | 1.230 | 000 | 1,230 | 1,230 | 1,230 |
| | n Area | 3 | | Actual ³ | 80 | 2 6 | CO ; | 156 | 0 | C | • | > | 0 | 646 | | 0 | 383 | 724 | 162 | 707 | 335 | 32 | 6 | ָ ה | 437 | 334 |
| | Delivery to ernardino Rasin Area | | Maximum | Allowable ² | 1.901 | 1 255 | L,000,1 | 1,855 | 1,855 | 1.855 | 100 | CCOT | 1,855 | 1.855 | 1 0 5 | 1,000 | 1,855 | 1,855 | 1 855 | | 1,855 | 1,855 | 1 255 | 00,1 | 1,855 | 1,855 |
| | San Be | | Adjusted | Right ¹ | 1,4624 | 1 427 | 1,14. | 1,421 | 1,427 | 1.427 | 1 427 | 174,1 | 1,42/ | 1,427 | 1 427 | 1747 | 1,427 | 1,427 | 1.427 | 4 427 | 1,421 | 1,427 | 1 427 | | 1,42(| 1,427 |
| from the | iioiii uie sin Area | | • | Actual ³ | 53,882 | 45 694 | 42,033 | 45,042 | 43,367 | 47,962 | 51 274 | ל הל | 50,999 | 45,384 | 52 377 | - 10 | 30,/UC | 52,157 | 49,599 | 16,0647 | #00'0t | 28,906° | 63.0739 | E0 07010 | 29,879. | 57,84144 |
| Verified Extractions from the | San Bernardino Basin Area | | MUTANIM | Allowable ² | 69,482 | 67.859 | 67.850 | 0100 | 668,10 | 62,859 | 67 859 | 020.73 | ACO 10 | 67,859 | 67.859 | 010 | 658,10 | 67,859 | 67,859 | 67.850 | 000,10 | 668,70 | 67.859 | 67 9E0 | 600,10 | 668,10 |
| Verified | San E | Adimahad | paisniny | Right | 53,4484 | $52,199^{5}$ | 52 1005 | 52,133 | 56T'7C | $52,199^{\circ}$ | 52,199 ⁵ | 50 4005 | 32,139 | 52,1995 | 52.199^{5} | 50405 | 261,20 | $52,199^{2}$ | 52,1992 | 52 1995 | 17,110 | 2,481,2c | $52,199^{\circ}$ | 52,1005 | 72,133 | 52,199~ |
| | | Calcadar | Carciluar | Year | 1971 | 1972 | 1973 | 10.7 | 4/6T | 1975 | 1976 | 1077 | 1267 | 19/8 | 1979 | 1000 | 7007 | 1981 | 1982 | 1983 | 7007 | 1904 | 1985 | 1986 | 7 00 0 | 1961 |

Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27. Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

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

See Footnote 2 of Table on Page 24.

Includes 7,965 acre-feet of additional extraction which are allowable under provisions of May 20, 1987 amendment to the December 22, 1981 Western-San Bernardino agreement Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

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

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

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

Includes 6,912 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement. Includes 13,472 acre-feet of additional extraction which are allowable under provisions of the February 25, 1985 and the August 21, 1985 Western-San Bernardino agreements prepared in accordance with paragraph VI(b)6 of the Judgment.

includes 10,000 acre-feet of additional extraction which are allowable under provisions of the December 22, 1981 Western-San Bernardino agreement. 8 #

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

| | reas | ino Vallev | | Actual ³ | 230 735 | 220,133 | 046,022 | 224,139 | 220,222 | 745,367 | 248.276 | 248 858 | 246,4045 | 242,724 | 254,100 | 770'807 | 246,879 | 246 1368 | 246,2419 |
|------------------------------|-------------------------------|---------------------------|----------|------------------------|----------|---------|---------|---------|---------|---------|---------|---------|----------------------|----------------------|----------|----------|----------|----------|----------|
| | Delivery to Areas | San Bernard | Maximum | Allowable ² | 248 894 | 247,710 | 247 740 | 071,172 | 07/147 | 747,710 | 247,710 | 247,710 | 247 710 | 247 710 | 247,110 | 011,142 | 247,710 | 247,710 | 247,710 |
| | — | Outside | Adjusted | Right ¹ | 248 894 | 247,710 | 247,110 | 247,110 | 011,142 | 747,710 | 247,710 | 247,710 | 247 710 | 247 710 | 247 740 | 071,142 | 247,710 | 247,710 | 247,710 |
| asin and | Areas | County | • | Actual ³ | 2 776 | 2,630 | 2,430 | 2,72 | 2,610 | 2,003 | 1,585 | 1,062 | 716 | 415 | 3 | . | † | -0 | -0- |
| Delivery to Colton Basin and | erside Basin | in San Bernardino | Maximum | Allowable ² | 6 180 | 6 150 | 6.150 | 6,150 | 7,100 | 007'0 | 6,150 | 6,150 | 6.150 | 6,150 | 6 150 | 4,100 | 0,150 | 6,150 | 6,150 |
| Delivery | Riv | in Sal | Adjusted | Right ¹ | 6.180 | 6,150 | 6 150 | 6,150 | 6,150 | 0110 | 6,150 | 6,150 | 6,150 | 6,150 | 6 150 | 410 | OCT'O | 6,150 | 6,150 |
| | | in Area | | Actual ³ | 339 | 241 | 156 | 646 | 949 | 2 0 | 1,029 | 1,753 | 1,915 | 1.604 | 1 636 | 1,000 | 7101 | 1,025 | 1,197 |
| ; | Delivery to | ernardino Bas | Maximum | Allowable ² | 7.170 | 7,135 | 7 135 | 7 135 | 7 135 | 7,1 | (,135 | 7,135 | 7,135 | 7,135 | 7,135 | 7 125 | CCT' | 7,135 | 7,135 |
| | | San B | Adjusted | $Right^1$ | 7,170 | 7,135 | 7,135 | 7,135 | 7 135 | 1,7 | CT' | 7,135 | 7,135 | 7,135 | 7,135 | 7 135 | CCT - | 7,135 | 7,135 |
| | from the | sin Area | | Actual ³ | 233,927 | 231,419 | 236,724 | 239,086 | 248 096 | 0000000 | 060,007 | 251,673 | 249,125 ⁵ | 249,805 ⁵ | 256,2586 | 248 1017 | 8.57 250 | 247,161° | 247,4389 |
| : | Verified Extractions from the | San Bernardino Basin Area | Maximum | Allowable ² | 262,244 | 260,995 | 260,995 | 260,995 | 260,095 | 260,095 | 200,993 | 260,995 | 260,995 | 260,995 | 260,995 | 260,095 | | 260,995 | 260,995 |
| : | Verifie | San | Adjusted | Right ¹ | 262,2444 | 260,995 | 260,995 | 260,995 | 260,995 | 250 005 | 200,000 | 260,995 | 260,995 | 260,995 | 260 995 | 260,995 | 0000 | 260,995 | 260,995 |
| | | | Calendar | Years | 1971-75 | 1972-76 | 1973-77 | 1974-78 | 1975-79 | 1076.80 | 1910-00 | 19//-81 | 1978-82 | 1979-83 | 1980-84 | 1981-85 | 1001 | 1982-86 | 1983-87 |
| | | | | | | | | | | | | | | | | | | | |

| (1.460)* | |
|---------------------------------|---|
| (6.150)* | |
| (5,938)* | • |
| (13,557)* | |
| Excess Extraction 1983-87 | |

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.

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 in 1981 of allowable additional extraction. See Footnote 6 on Page 44.

Excludes the 1,148 acre-feet in 1981 and the 76 acre-feet in 1983 of allowable additional extraction. See Footnotes 6 & 7 on Page 44.

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

Excludes the 76 acre-feet in 1983, the 6,912 acre-feet in 1984, the 13,472 acre-feet in 1985, and the 10,000 acre-feet in 1986 of allowable additional extraction. See Footnotes 6, 7, 8, and 9 on Page 44.

Excludes the 76 acre-feet in 1983, the 6,912 acre-feet in 1984, the 13,472 acre-feet in 1985, the 10,000 acre-feet in 1986, and the 7,965 acre-feet in 1987 of allowable extraction. See Footnotes 7, 8, 9, 10, and 11 on Page 44. See Footnotes 7, 8, 9, and 10 on Page 44.

Parentheses indicate that actual extractions are less than Adjusted Right.

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TABLE NO. 11

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

| | as Vallay | o valley | Actual3 | 1694 | 1,024 | 667'7 | 101,1 | 201,2 | 2,101 | 404,763 | 1,103 | 667 | 1,588 | 1,617 | 1,453 | 1,020 | 843 | 2 088 | 1 334 | 1,004 | 4,014 | 1,690 |
|---------------------------------------|---|-----------|-----------------------------------|--------|---------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----------|---------|----------|--------------|------------|-------|-----------------|-------|
| | Delivery to Areas | | Maximum Allowable ² | 2 457 | 2,43 <i>1</i> | 2 208 | 2,390 | 2,230 | 2,398 | 2,330 | 2,390 | 2,390 | 2,390 | 2,390 | 2,398 | 2,398 | 2,398 | 2,398 | 7 308 | 2,338 | 000 | 2,398 |
| | Outside | Potonic V | Adjusted Right ¹ | 1 8004 | 1 845 | 1 845 | 1,845 | 1,043 | 1 845 | 1,045 | 1.845 | 1.015 | C+0'T | L,040 | 1,645 | 1,845 | 1,845 | 1.845 | 1.845 | 1 845 | 7 0 4 | 1,645 |
| isin and | Areas | ſ | Actual ³ | 2 388 | 2,239 | 1 751 | 1 985 | 2002 | 2,052 | 1 820 | 1,020 | 1 781 | 2,161 | 2,400 | 161,2 | 1,(/5 | 2,318 | 2.671 | 1 978 | 2 130 | יייי ר | 677'7 |
| Delivery to Colton Basin and | Riverside Basin Areas | Maximum | Allowable ² | 3 262 | 3 184 | 3 184 | 3 184 | 3 184 | 3 184 | 3 184 | 3 184 | 3 184 | 3.184 | 1010 | 10,10 | 3,184 | 3,184 | 3,184 | 3,184 | 3,184 | 2 18/ | 40T'C |
| Delivery | Riv in Sar | Adinstad | Right ¹ | 2.5094 | 2.449 | 2.449 | 2.449 | 2.449 | 2.449 | 2,449 | 2.449 | 2,449 | 2,449 | 2,140 | 644,0 | 7,449 | 2,449 | 2,449 | 2,449 | 2.449 | 2 440 | 644,4 |
| | n Area | | Actual ³ | o | - o- | · 4 | 0 | þ | o o | 0- | 0- | o d | 9 0 | o ¢ | , | <u></u> | - | -0- | -0- | -0- | Ļ | > |
| , ; | Delivery to San Bernardino Basin | Maximum | Allowable ² | 0 | o- | 0- | -0- | -0- | -0- | <u>-</u> | 0- | ģ | -0- | 0 | | - - | -0- | - | o - | -0- | - 0- | , |
| | San B | Adiusted | Right ¹ | -1-4 | 0- | -0- | -0- | 0- | þ | 0- | o- | 0- | þ | - 0- | | ļ (| ÷ | - | -0- | -0- | 0- |) |
| | rrom the sin Area | | Actual ³ | 4,012 | 4,532 | 3,512 | 4,088 | 4,709 | 4,519 | 3,583 | 1,350 | 3,369 | 3,677 | 3,604 | 2 705 | 2 2 | 3,161 | 4,759 | 3,312 | 4,744 | 3,919 | |
| : : : : : : : : : : : : : : : : : : : | Verified Extractions from the San Bernardino Basin Area | Maximum | Allowable ² | 5,719 | 5,582 | 5,582 | 5,582 | 5,582 | 5,582 | 5,582 | 5,582 | 5,582 | 5,582 | 5,582 | 5 582 | 1001 | 790'0 | 5,582 | 5,582 | 5,582 | 5,582 | • |
| | San B | Adjusted | Right ¹ | 4,3994 | 4,294 | 4,294 | 4,294 | 4,294 | 4,294 | 4,294 | 4,294 | 4,294 | 4,294 | 4,294 | 4 294 | 100 | 4,234 | 4,294 | 4,294 | 4,294 | 4,294 | • |
| | | Calendar | Year | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1082 | 1903 | 1984 | 1985 | 1986 | 1987 | |

¹ Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27. ² Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

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

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

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

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TABLE NO. 11

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

| | id | alley | A.413 | Actual | 10,388 | 11,333 | 10,803 | 9.341 | 8 826 | 7 736 | 6 720 | 5 077 | 10,0 | 176'0 | 7,021 | 6.738 | 7 899 | 8 569 | 1 | | |
|------------------------------|---|----------|-----------------------------------|----------------|------------------|----------|--------------|---------|-------------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---|--------|----------|
| | Delivery to Areas | | Maximum Allowable ² | 0.270 | 9,270 | 9,225 | 9,225 | 9,225 | 9,225 | 9,225 | 9 225 | 0 225 | 277.0 | 677'6 | 9,225 | 9,225 | 9,225 | 9,225 | - | | *(858) |
| | Outside | Adino | Adjusted Right ¹ | 0.270 | 0.2.6 | 677'6 | 9,225 | 9,225 | 9.225 | 9,225 | 9.225 | 9.225 | 0 225 | 5776 | 9,225 | 9,225 | 9,225 | 9,225 | • | | |
| sin and | reas | 5 | Actual ³ | 10.265 | 10,00 | 170'01 | 809'6 | 806'8 | 8,704 | 8 762 | 8.863 | 818 | 10.085 | 70,00 | 10,975 | 10,893 | 10,872 | 11,326 | • | | |
| Delivery to Colton Basin and | Riverside Basin Areas in San Bernardino County | Maximum | Allowable ² | 12 305 | 12,000 | 12,245 | 12,245 | 12,245 | 12,245 | 12,245 | 12,245 | 12.245 | 12 245 | 72,24 | 12,245 | 12,245 | 12,245 | 12,245 | | | *(616) |
| Delivery | Rive in Sar | Adineted | Right ¹ | 12 305 | 10001 | C+7'7T | 12,245 | 12,245 | 12,245 | 12,245 | 12,245 | 12.245 | 12 245 | 11,11 | 12,245 | 12,245 | 12,245 | 12,245 | | | |
| | in Area | . | Actual ³ | þ | , , | - - | 0 | -0- | 0 | 0- | -0- | -0- | -0- | , , | - | -0- | -0- | -0- | | | |
| • : | Delivery to San Bernardino Basin Area | Maximum | Allowable ² | ď | o c | | - | -0- | o¦ | 0 | 0- | 0- | -0- | | - | <u></u> | 0- | -0- | | | 9 |
| | San B | Adiusted | Right ¹ | , 4 | ، ج ا | , | -0- | 0- | - 0- | 0- | 0- | -0- | þ | | - | ģ | 0- | -0- | | | |
| , | trom the sin Area | | Actual ³ | 20.853 | 21 360 | 20,444 | 20,411 | 18,249 | 17,530 | 16,498 | 15,583 | 14,795 | 16,606 | 17 096 | 066'11 | 17,631 | 18,771 | 19,895 | | | |
| : | Verified Extractions from the San Bernardino Basin Area | Maximum | Allowable ² | 21,575 | 21.470 | 24 470 | 014,12 | 21,470 | 21,470 | 21,470 | 21,470 | 21,470 | 21,470 | 21 470 | 01417 | 21,470 | 21,470 | 21,470 | | | (1,575)* |
| | Vernied San B | Adjusted | Right ¹ | 21,5754 | 21.470 | 24 470 | 014,12 | 21,470 | 21,470 | 21,470 | 21,470 | 21,470 | 21,470 | 21 470 | 011.12 | 21,470 | 21,470 | 21,470 | | | |
| | | Calendar | Years | 1971-75 | 1972-76 | 1072.77 | 11-0161 | 1974-78 | 1975-79 | 1976-80 | 1977-81 | 1978-82 | 1979-83 | 1980-84 | 10 000 | 1981-85 | 1982-86 | 1983-87 | | Excess | 1983-87 |

¹ Adjusted Right as determined and reported to the court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27. ² Maximum Allowable for the five-year period is the same as the five-year-period Adjusted Right.

 $^{^3}$ Actual verified extractions from Table No. 3 of Watermaster Report.

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

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

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

| | IS Valley | • alley | Actual ³ | 2 510 | 2.150 | 27.00 | 4 258 | 3 782 | C, F 0 E | A 074 | 1,014 | 2,093 | 2,104 | 2,010 | 2,534 | 740'6 | 400 | ל ה לו ה לו ה | 5,175 | 5,336 | 4,721 |
|-------------------------------|--|----------|------------------------|--------|--------|---------|---------|---------|----------|--------|---------|--------|--------|--------|--------|--------|--------|---------------------|--------|--------------|----------|
| : | Delivery to Areas Outside San Bernarding Valley | Maximum | Allowable ² | 10.010 | 9 770 | 9 7 7 0 | 0 7 7 6 | 0 7 7 0 | 0 770 | 077.6 | 0 7 7 0 | 0.77.0 | 0,110 | 077.0 | 0.11.6 | 077.0 | 9,110 | 0 7 7 0 | 0116 | 0,770 | 9,770 |
| • | D Outside | Adineted | Right ¹ | 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 | 7 545 | CTC' / | 7,515 | 7,515 |
| sin and | Areas County | • | Actual ³ | 383 | 377 | 250 | 246 | 168 | 182 | 146 | 161 | 166 | 373 | 358 | 169 | 245 | 233 | 24.0 | 777 | 234 | 193 |
| Delivery to Colton Basin and | KIVERSIDE BASIN Areas in San Bernardino Coun | Maximum | Allowable ² | 424 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | 413 | CT+ | 413 | 413 |
| Delivery | Kive in San | Adjusted | Right ¹ | 3254 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 010 | 318 | 318 |
| | n Area | | Actual ³ | þ | -0- | 0- | -0- | 0- | -0- | -0- | -0- | 0- | 0- | - o- | -0- | þ | -0- | ځ | • | - | 0- |
| | rnardino Basin | Maximum | Allowable ² | ģ | -0- | 0- | -0- | -0- | -0- | -0- | 0- | 0 | -0- | 0- | -0- | -0- | -0- | -0- | , | -0- | 0 |
| | San Bernar | | Right ¹ | | -0- | -0- | -0- | 0- | -0- | 0- | -0- | 0- | 0- | -0- | 0 | 0 | 0- | 0- | | -0- | þ |
| from the | iin Area | | Actual ³ | 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 | 673 | 0,50,0 | 4,914 |
| Verified Extractions from the | San Bernardino Basin Area | Maximum | Allowabie ² | 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 | 10 100 | 507'07 | 10,183 |
| Verified | San B | Adjusted | Right ¹ | 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 | CC0'- | 7,833 |
| | | Calendar | Year | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1086 | 2061 | 198/ |

¹ Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27. ² Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

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

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

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

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

| Adjusted Maximum Adjusted Maximum 1,598 1,598 1,424 37 1,590 1,590 1,223 37 1,590 1,590 902 37 1,590 1,590 903 37 1,590 1,590 978 37 1,590 1,590 1,154 37 1,590 1,590 1,154 37 1,590 1,590 1,154 37 1,590 1,590 1,261 37 1,590 1,590 1,261 37 1,590 1,590 1,215 37 1,590 1,590 1,215 37 1,590 1,590 1,215 37 1,590 1,590 1,215 37 1,590 1,590 1,215 37 1,590 1,590 1,215 37 1,590 1,590 1,215 37 | Verified Extractions from the San Bernardino Basin Area | Delivery to Colton Basin and Delivery to Riverside Basin Areas San Bernardino Basin Area | ilivery to Colton Basin and Riverside Basin Areas in San Bernardino County | Deliv Outside Sar | Delivery to Areas Outside San Bernardino Vallev |
|---|--|--|--|----------------------|--|
| Allowable Actual ³ Right ⁴ Allowable ² Actual ³ Right ⁴ Allowable ² Actual ³ Right ⁴ Allowable ² -0- -0- 1,590 1,590 1,424 37,760 37,760 -0- -0- 1,590 1,590 992 37,575 37,575 -0- -0- 1,590 1,590 903 37,575 37,575 -0- -0- 1,590 1,590 978 37,575 37,575 -0- -0- 1,590 1,590 978 37,575 37,575 -0- -0- 1,590 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,590 1,164 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,328 37,575 37,575 -0- -0- 1,590 1,590 1,328 37,575 37,575 -0- -0- | | Adju | kimum Kimum | Adjusted N | Maximum |
| -0- -0- 1,598 1,424 37,760 37,760 -0- -0- 1,590 1,590 1,233 37,575 37,575 -0- -0- 1,590 1,590 992 37,575 37,575 -0- -0- 1,590 1,590 903 37,575 37,575 -0- -0- 1,590 1,590 978 37,575 37,575 -0- -0- 1,590 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,590 1,177 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 | Actual ³ | Actual ³ Right ¹ | | | llowable ² |
| -0- -0- 1,590 1,223 37,575 37,575 -0- -0- 1,590 1,590 992 37,575 37,575 -0- -0- 1,590 1,590 903 37,575 37,575 -0- -0- 1,590 1,590 978 37,575 37,575 -0- -0- 1,590 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,590 1,177 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,213 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 | 17,862 | -0- 1,598 | | 37,760 | 37,760 |
| -0- -0- 1,590 1,590 37,575 37,575 37,575 -0- -0- 1,590 1,590 903 37,575 37,575 37,575 -0- -0- 1,590 1,590 978 37,575 37,575 37,575 -0- -0- 1,590 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,590 1,177 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,915 37,575 37,575 -0- <td>20,353</td> <td>-0- 1,590</td> <td></td> <td>37,575</td> <td>37,575</td> | 20,353 | -0- 1,590 | | 37,575 | 37,575 |
| -0- -0- 1,590 1,590 37,575 37,575 37,575 -0- -0- 1,590 1,590 823 37,575 37,575 -0- -0- 1,590 1,590 978 37,575 37,575 -0- -0- 1,590 1,590 1,174 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,328 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,115 37,575 37,575 | 21,046 | -0- 1,590 | | 37,575 | 37,575 |
| -0- -0- 1,590 1,590 823 37,575 37,575 -0- -0- 1,590 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,177 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,115 37,575 37,575 | 20,321 | -0- 1,590 | | 37,575 | 37,575 |
| -0- -0- 1,590 1,590 978 37,575 37,575 -0- -0- 1,590 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,328 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,590 1,590 37,575 37,575 | .9,747 | -0- 1,590 | | | 37,575 |
| -0- -0- 1,590 1,154 37,575 37,575 -0- -0- 1,590 1,590 1,177 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,115 37,575 37,575 | .8,130 | -0- 1,590 | | | 37,575 |
| -0- -0- 1,590 1,177 37,575 37,575 -0- -0- 1,590 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,115 37,575 37,575 | | -0- 1,590 | | | 37,575 |
| -0- -0- 1,590 1,261 37,575 37,575 -0- -0- 1,590 1,328 37,575 37,575 -0- -0- 1,590 1,590 1,215 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,115 37,575 37,575 | | -0- 1,590 | | | 37,575 |
| -0- -0- 1,590 1,590 1,590 1,590 37,575 37,575 37,575 -0- -0- 1,590 1,590 1,091 37,575 37,575 -0- -0- 1,590 1,590 1,115 37,575 37,575 -0- -0- 1,590 1,115 37,575 37,575 | 15,722 - | -0- 1,590 | | | 37,575 |
| -00- 1,590 1,590 1,215 37,575 37,575 -00- 1,590 1,091 37,575 37,575 -00- 1,590 1,590 1,115 37,575 37,575 | | -0- 1,590 | | | 37,575 |
| -00- 1,590 1,590 1,091 37,575 37,575 -00- 1,590 1,590 1,115 37,575 37,575 | | -0- 1,590 | | | 37,575 |
| -0- 1,590 1,590 1,115 37,575 37,575 | | -0- 1,590 | | | 37,575 |
| | 23,685 - | -0- 1,590 | | | 37,575 |
| | | | (475)* | ~ | (15,005)* |

¹ Adjusted Right as determined and reported to the Court in the Annual report of the Western-San Bernardino Watermaster for Calendar Year 1971, Table No. 9, page 27. ² Maximum Allowable for the five-year period is the same as the five-year-period Adjusted Right.

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

Adjusted Right was not effective until January 1, 1972; thus the Adjusted Right for the period 1971-75 is more than the Adjusted Right for subsequent five-year periods. *Parentheses indicate that actual extractions are less than Adjusted Right.

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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)

| | | بمااد | v alley | Actual ³ | 210 | 230 | 230 | 267 | 179 | 245 | 87 | 183 | 83 | 25 | 143 | 48 | <u>ئ</u> ے 2 | , d | , d | 48 | 195 |
|-------------------------------|-------------------------------|---|----------|------------------------|----------------|------|----------|----------|----------|----------|-------------|------|-------------------|------|------------|------|-----------------|------|------|-------------|------|
| | | Delivery to Areas | | Allowable ² | 755 | 269 | 169 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 |
| | | Outside | Adineted | Right ¹ | 5814 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 | 5365 |
| | isin and | Areas County | <u></u> | Actual ³ | 0 | ģ | þ | þ | 0 | 0- | ó | þ | þ | 0 | ó | 0- | 0- | 0- | -0- | 0 | -0- |
| | Delivery to Colton Basin and | Riverside Basin Areas in San Bernardino Countv | Maximum | Allowable ² | þ | 0 | þ | þ | þ | -0- | - 0- | o- | 0 - | 0- | 0- | 0 | 0- | -0- | 0- | 0- | -0- |
| \cre-Feet) | Delivery | Rive in San | Adjusted | Right ¹ | 4 -0- | þ | 0- | - | o | 6 | 0 | -0- | -0 | -0- | -0- | -0- | þ | -0- | o- | þ | -0- |
| (All Quantities in Acre-Feet) | | n Area | | Actual ³ | 6 - | ģ | þ | -0- | -0- | <u></u> | o- | 0- | - - 0- | -0- | -0- | 0- | | -0- | o¦ | -0- | -0- |
| ð ₹ | | Delivery to San Bernardino Basin | Maximum | Allowable ² | o ' | ģ | 0- | 0- | 0- | þ | o¦ | 0- | 0- | -0- | 0 - | 0- | -0- | 0- | 0- | <u>-</u> 0- | -0- |
| | | San Be | Adjusted | | + -0- | 0- | 0 | -0- | - | o- | -0- | -0- | 0- | 0- | -0- | -0- | 0- | 0- | o- | 0 | -0- |
| | the the | in Area | | Actual ³ | 219 | 239 | 239 | 267 | 179 | 245 | 87 | 183 | 83 | 7 | 143 | 48 | - 0- | 0- | 9 | 48 | 195 |
| | Verified Extractions from the | San Bernardino Basin Area | Maximum | Allowable ² | 755 | 697 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 |
| | Verified | San B | Adjusted | $Right^{1}$ | 5814 | 5365 | 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 | 1987 |

¹ Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27. ² Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

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

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

⁴ Adjusted Right was not effective until January 1, 1972; thus the Base Right for 1971 is as shown in Appendix B, Table B-1 of the Judgment. ⁵ See Footnote 2 of Table on Page 24.

FIVE-YEAR PERIOD 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)

Page 2 of 2

ctual³

1,143 1,169

961 777 605 503 464 281 198 191 96

| | 2. | | • | | ; | | Delivery | Delivery to Colton Basin and | isin and | | | |
|------------|--------------------|---------------------------|---------------------|--------------------|---------------------------|---------------------|--------------------|------------------------------|---------------------|--------------------|-------------------------------|---------------------|
| | Verille | San Banarding Baria Ann | from the | ć | Delivery to | • | | Riverside Basin Areas | Areas | | Delivery to Areas | |
| | libo : . | San Dernardino Basin Area | sın Area | San E | San Bernardino Basin Area | in Area | ii Sa | in San Bernardino County | County | Outside | Outside San Bernardino Valley | Valley |
| Calendar | Adjusted | Maximum | | Adjusted | Maximum | | Adjusted | Maximum | • | Adjusted | Maximum | |
| Years | Right ¹ | Allowable ² | Actual ³ | Right ¹ | Allowable ² | Actual ³ | Right ¹ | Allowable ² | Actual ³ | Right ¹ | Allowable ² | Actual ³ |
| 1971-75 | 2,7254 | 2,725 | 1,143 | -0- | þ | -0- | <u>ج</u> ر | ď | | 3 735 | 2 425 | |
| 1972-76 | 2,680 | 2.680 | 1 160 | c | · < | | • • | , | <u>,</u> | C7)'7 | 7,175 | 1,143 |
| 1073_77 | 2 680 | 2,000 | 1,103 | | ; | , | <u></u> | - 0 | þ | 2,680 | 2,680 | 1,169 |
| 10101 | 2,000 | 2,080 | 1,017 | - | | ģ | - | - | - 0- | 2,680 | 2,680 | 1,017 |
| 1974-78 | 2,680 | 2,680 | 961 | - | o o | 0- | o- | 0 - | -0- | 2,680 | 2.680 | , |
| 1975-79 | 2,680 | 2,680 | 777 | -0- | -0- | -0- | -0- | -0- | -0- | 2,680 | 2 680 | 777 |
| 1976-80 | 2,680 | 2,680 | 605 | 0- | -0- | -0- | -0- | -0- | 0- | 2.680 | 2,580 | 605 |
| 1977-81 | 2,680 | 2,680 | 503 | -0- | þ | -0- | -0- | 6 | -0- | 2 680 | 2,530 | |
| 1978-82 | 2,680 | 2,680 | 464 | -0- | -0- | 0- | þ | - d- | , ¢ | 2,680 | 2,680 | 500 |
| 1979-83 | 2,680 | 2,680 | 281 | -0- | 0 | -0- | -0- | , c | þ c | 2,000 | 2,000 | 404 |
| 1980-84 | 2,680 | 2.680 | 198 | 0- | <u>ئ</u> | · ¢ | • | þ | - | 2,600 | 2,680 | 187 |
| 1981-85 | 2,680 | 7 680 | , t | • • | • | , | ָרְי [ָ] | -0- | ¦ | 2,680 | 2,680 | 198 |
| 1001 | 7,000 | 2,000 | 161 | - - | - | þ | - | - | - | 2,680 | 2,680 | 191 |
| 1962-86 | 7,680 | 2,680 | 96 | 0 | 0 | þ | -0 | 0- | o- | 2,680 | 2,680 | 96 |
| 1983-87 | 2,680 | 2,680 | 243 | oʻ | -0- | -0- | -0- | - 0- | -0- | 2,680 | 2,680 | 243 |
| | | | | | | | | | | | | |
| Excess | | | | | | | | | | | | |
| Extraction | | *(207.0) | | | • | | | | | | | |
| JO-COET | | (2,437) | | | -0- | | | o o | | | (2.437)* | |

Adjusted Right as determined and reported to the Court in the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 1971 in Table No. 9, page 27. ² Maximum Allowable for the five-year period is the same as the five-year-period Adjusted Right.

(2,437)*

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

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

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

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 | | |
|----------------------------|----------|----------|-------------|----------|----------|
| | 1983 | 1984 | 1985 | 1986 | 1987 |
| EXPORTS | | | | | |
| Adjusted Right | 42,535 | 42,535 | 42,535 | 42,535 | 42,535 |
| Actual Export ¹ | 28,876 | 36,413 | 31,604 | 32,085 | 30,842 |
| ACCUMULATED EXPORT | 28,876 | 65,289 | 96,893 | 128,978 | 159,820 |
| <u>OBLIGATIONS</u> | | | | | |
| Excess Export ² | (13,659) | (6,122) | (10,931) | (10,450) | (11,693) |
| ACCUMULATED EXCESS EXPORT | (13,659) | (19,781) | (30,712) | (41,162) | (52,855) |

¹ See Table 8 of Watermaster Report.

² Actual Export minus Adjusted Right, Parentheses indicate that the Actual Export is less than the Adjusted Right.

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 | ılendar Years | | |
|----------------------------|----------------------|---------|---------------------|---------|---------------------|
| | 1983 | 1984 | 1985 | 1986 | 1987 |
| EXPORTS | | | | | |
| Adjusted Right | 12,527 | 12,527 | 12,527 | 12,527 | 12,527 |
| Actual Export ¹ | 26,261 | 23,393 | 24,023 | 26,584 | 27,891 |
| ACCUMULATED EXPORT | 263,183 ³ | 286,576 | 310,599 | 337,183 | 365,074 |
| OBLIGATIONS | | | | | |
| Excess Export ² | 13,734 | 10,866 | 11,496 ⁴ | 14,057 | 15,364 ⁵ |
| ACCUMULATED EXCESS EXPORT | 100,332 ³ | 111,198 | 122,694 | 136,751 | 152,115 |

¹ See Table 9 of Watermaster Report.

² Actual Export minus Adjusted Right.

³ Accumulated values beginning in 1983 include amounts accumulated through 1982.

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 judgement.

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

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

| | | Ca | lendar Years | ; | |
|---|--------------|----------|--------------|----------|--------------|
| | 1983 | 1984 | 1985 | 1986 | 1987 |
| EXTRACTIONS | | | | | |
| Base Right ¹ | 54,099 | 54,099 | 54,099 | 54,099 | 54,099 |
| Actual Extractions ¹ ACCUMULATED | 26,861 | 43,366 | 37,370 | 34,840 | 34,109 |
| EXTRACTIONS | 26,861 | 70,227 | 107,597 | 142,437 | 176,546 |
| CREDITS | | | | | |
| Extraction ² | 27,238 | 10,733 | 16,729 | 19,259 | 19,990 |
| Return from imported water | 303 | 368 | 533 | 502 | 505 |
| Total Credits ACCUMULATED | 27,541 | 11,101 | 17,262 | 19,761 | 20,495 |
| CREDITS | 27,541 | 38,642 | 55,904 | 75,665 | 96,160 |
| <u>OBLIGATIONS</u> | | | | | |
| Excess Extractions ³ | 0 | 0 | 0 | 0 | a |
| Excess Export ⁴ | 0 | 0 | 0 | 0 | 0 |
| Land Use Conversion ⁵ | 440 | 488 | 498 | 526 | - |
| Total Obligations | 440 | 488 | 498 | 526 | 545 |
| ACCUMULATED OBLIGATIONS | 440 | 928 | 1,426 | 1,952 | 545 2,497 |
| NET ACCUMULATED (CREDIT) OR OBLIGATION | (27,101) | (37,714) | (54,478) | (73,713) | (93,663) |

¹ See Tables 4, 5, and 6.

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

³ Actual Extraction minus Base Right.

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

⁵ See Table 7.

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

| | | Ca | alendar Years | | |
|---|------------------------|------------------|-----------------------|--|----------------------|
| | 1983 | 1984 | 1985 | 1986 | 1987 |
| EXTRACTIONS | _ | | | ······································ | |
| Adjusted Right ¹ | 167,238 | 167,238 | 167,238 | 167,238 | 167,238 |
| Actual Extractions ¹ ACCUMULATED | 146,434 | 180,808 | 177,919 ¹² | | 172,501 |
| EXTRACTIONS | 2,013,070 ⁵ | 2,193,878 | 2,371,797 | 2,557,391 | 2,729,892 |
| CREDITS | | | | | |
| Extraction ² | 20,804 | -0- | -0- | -0- | -0- |
| Replenishment | 5,896 ⁷ | 385 ⁸ | 1,161 ⁹ | -0- ¹⁰ | 85 ¹¹ |
| Total Credits | 26,700 | 385 | 1,161 | -0- | 85 |
| ACCUMULATED CREDITS | 305,419 | 305,804 | 306,965 | 306,965 | 307,050 |
| <u>OBLIGATIONS</u> | | | | | |
| Excess Extractions ³ | -0- | 13,570 | -0-13 | 18,356 | -0- 14 |
| Excess Export ⁴ | 13,734 | 10,866 | 815 ¹³ | 14,057 | 10,101 ¹⁴ |
| Total Obligations ACCUMULATED | 13,734 | 24,436 | 815 | 32,413 | 10,101 |
| OBLIGATIONS NET ACCUMULATED (CREDIT) | 105,733 ⁵ | 130,169 | 130,984 | 163,397 | 173,498 |
| OR OBLIGATIONS | (199,686) ⁵ | (175,635) | (175,981) | (143,568) | (133,552) |

See Table 2

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

³ Actual Extraction minus Adjusted Right.

⁴ See Table 15.

⁵ Accumulated values beginning in 1983 include amounts accumulated through 1982.

⁶ This number not used.

⁷ 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.

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 Redlands Aqueduct, and 5,345 acre-feet were delivered into Colton Basin for replenishment.

Total import of State Project Water by SBVMWD was 9,583 acre-feet. However, 6,473 acre-feet of this amount were delivered directly to East Valley Water District, North Fork Canal or Redlands Aqueduct, and 3,030 acre-feet were delivered into Colton Basin for replenishment.

¹² 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.

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

SUMMARY OF REPLENISHMENT OBLIGATIONS WESTERN AND SAN BERNARDINO VALLEY FIVE-YEAR PERIOD 1983 THROUGH 1987

(All Values in Acre-Feet)

WESTERN MUNICIPAL WATER DISTRICT

| | San Bernardino Basin Area | Colton and Riverside Basins |
|---|------------------------------|--------------------------------|
| Accumulated Credits ¹ | (See Tables 10-13) | 96,160 |
| Accumulated Obligations ¹ Net Accumulated (Credit) | | 2,497 |
| Net Accumulated (Credit) or Obligation | | (93,663) |
| Excess Extraction Return Credit ² | •• | |
| REPLENISHMENT REQUIRED | | _ |

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

| | San Bernardino Basin Area | Colton Basin and Riverside Basin in San Bernardino County |
|--|------------------------------|--|
| Accumulated Credits ³ | 307,050 ⁴ | 23,681 |
| Accumulated Obligations ³ | 173,498 ⁴ | , |
| Net Accumulated (Credit) or Obligation ³ | (133,552) ⁴ | (23,681) |
| Excess Extraction Return Credit ² | - | ~- |
| REPLENISHMENT REQUIRED | | |

Reference Table 16 for Colton and Riverside Basins.
 When a net accumulated obligation exists, excess extraction returns are computed as 36% of the excess extraction and are subtracted from the net accumulated obligation to determine the required replenishment.

³ Reference Table 17.

⁴ Includes amounts accumulated prior to 1983.