



TWENTY SECOND  
ANNUAL REPORT  
OF THE  
CHINO BASIN WATERMASTER  
FISCAL YEAR 1998-1999

Case No. RCV 51010

CHINO BASIN MUNICIPAL WATER DISTRICT  
V.  
CITY OF CHINO, ET. AL.

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## **TWENTY-SECOND ANNUAL REPORT OF THE CHINO BASIN WATERMASTER**

The Chino Basin Watermaster (Watermaster) was established under a Judgment entered in the Superior Court of the State of California for the County of San Bernardino, entitled "Chino Basin Municipal Water District v. City of Chino, et al.,"(originally Case No. SCV 164327, the file was transferred in August 1989, by order of the Court and assigned new Case No. RCV 51010). The Honorable Judge Howard B. Wiener signed the Judgment on January 27, 1978. The effective date of this Judgment for accounting and operations was July 1, 1977.

The Twenty-Second Annual Report (July 1, 1998 – June 30, 1999) presents an overview of the Watermaster process including the Pool Committees, Advisory Committee, and Watermaster activities, and an accounting of production for Fiscal Year (FY) 1998-99.

### **I. INTRODUCTION**

Beginning in the early 1970's and continuing for several years, studies and discussions among concerned water producers resulted in the passage in 1974 of a "Memorandum of Agreement on the Chino Basin Plan." In January 1975, Senator Ruben S. Ayala introduced Senate Bill 222 (SB 222) in the California Legislature. This bill authorized a production assessment levy for \$2.00 per acre-foot per year, for a period of three years. The funds were utilized to finance the final effort to draw up a management plan. This effort included conducting essential studies and negotiations to implement a water management program for the Chino Groundwater Basin. SB 222 was chaptered as a part of the Municipal Water District Law at Section 72140 of the California Water Code. It was approved by Governor Ronald Reagan and filed with the Secretary of State on June 28, 1975.

Engineering, legal, and other working subcommittees were formed for the purpose of analyzing and defining specific problem areas. Socio economic, safe yield, and other studies were performed to provide the information necessary to reach an agreement regarding the allocation of producer water rights. Cost savings were achieved by terminating many of the studies as soon as the necessary information was compiled in draft form.

Three groups represented the majority of producer interests. These groups became active early in the negotiations under SB 222. Eventually, the groups formalized into pool committees and became known as the following:

- Overlying (Agricultural) Pool representing dairymen and farmers (including minimal producers) and the State of California;
- Overlying (Non-Agricultural) Pool representing industries; and
- Appropriative Pool, representing cities, water districts, and water companies.

Representatives of the three pool committees, acting together, became known as the Watermaster "Advisory Committee." The Advisory Committee was established as the policy setting body and charged with the oversight of Watermaster's discretionary activities. Members of each of the three pool committees met regularly to transact the business concerns of their respective pools. Decisions affecting more than one pool were acted upon by each pool committee and recommendations were then forwarded to the Watermaster Advisory Committee.

The Judgment establishes a method to determine the voting power of each of the producers on the pool committees. The method was based on a formula of assessments paid by the producers in the prior year and their allocated safe yield.

Approximately 5 percent of the Chino Groundwater Basin (Basin) is located in Los Angeles County, which is included in the Three Valleys Municipal Water District (TVMWD) service area. Approximately 15 percent of the Basin is in Riverside County, which is included in the Western Municipal Water District (WMWD) service area. Approximately 80 percent of the Basin is located in the west-end of San Bernardino County, which is included in the Inland Empire Utilities Agency (IEUA, formerly Chino Basin Municipal Water District) service area. Because of their overlying service areas, these three municipal water districts, and the Chino Basin Water Conservation District (CBWCD), were provided the opportunity to participate in the initial negotiations. They are listed in Exhibit C of the Judgment as Non-Producer Water Districts.

The current and historical annual water productions by pools are provided in Appendix B.

## **II. WATERMASTER**

The Chino Basin Watermaster Board members and elected officers are as follows:

### **A. Overlying (Agricultural) Pool Representatives**

Regular: Paul Hofer Agricultural, Vineyards

Regular: Geoffrey Vanden Heuvel Dairy

### **B. Overlying (Non-Agricultural) Pool Representative**

Regular: Steve Arbelbide California Steel Industries, Inc.

### **C. Appropriative Pool Representatives**

Regular: Robert Neufeld, Chairman Cucamonga County Water District

Alternate: Jerome Wilson

Regular: Patrick King (replaced Gus Skropos) City of Ontario

Alternate: Gerald Dubois

Regular: Josephine Johnson, Secretary/Treasurer Monte Vista Water District

Alternate: Holley Graham (replaced William Walker)

### **D. Municipal Water District Representatives**

Regular: Terry Catlin Inland Empire Utilities Agency

Alternate: John L. Anderson

Regular: Andrew Krueger, Vice-chairman Three Valleys MWD

Alternate: Rick Hansen

Regular: Donald Schroeder Western Municipal Water District

Alternate: Donald Harriger

During FY 1998-99, the Watermaster Board held 12 regular meetings, 3 special meetings, and 2 Joint Board and Advisory Committee meetings. In addition, a majority of the Watermaster Board members attended the Optimum Basin Management Program (OBMP) Workshop Meetings and joint and individual Pool and Advisory Committee meetings (for more detail on the types of meetings and how many were held, refer to the section entitled "Special Ad Hoc Committees and Workshops" on page 6).

For a summary of the OBMP development, please refer to the section included in this document beginning on page 13.

### **III. ADVISORY AND POOL COMMITTEES**

#### **A. Overlying (Agricultural) Pool**

Each year, an annual election is held to designate members and officers to serve on the Overlying (Agricultural) Pool Committee and Advisory Committee for the next fiscal year. The Annual Meeting was held on July 23, 1998 and resulted in the following members being selected to serve as officers during FY 1998-99:

Chairman: Robert DeBerard, Grapes  
Vice-Chairman: Jeff Pierson, Unitex/Corona Farms  
Secretary: Traci Stewart, Chief of Watermaster Services  
Treasurer: Alice W. Lichti, Watermaster Controller

The members designated to administer the Pool Committee's activities and serve as representatives on the Watermaster Advisory Committee during FY 1998-99 are shown in Appendices A-1 and A-4. It has become the practice of the Pool Committee to designate regular and alternate members as pool representatives to insure a quorum for the Overlying (Agricultural) Pool meetings and adequate participation at Advisory Committee meetings.

During FY 1998-99, 1 regular meeting, 6 special meetings, and 11 Joint Pool and Advisory Committee meetings were held to act on matters affecting the members of this pool and to discuss actions to be forwarded by the Advisory Committee to the Watermaster Board. By an action taken on March 17, 1988, any Overlying (Agricultural) Pool Committee member attending an Appropriative Pool meeting is compensated for attendance.

#### **B. Overlying (Non-Agricultural) Pool**

Each year, an annual election is held to designate officers to serve on the Overlying (Non-Agricultural) Pool Committee and Advisory Committee for the next fiscal year. The Annual Meeting was held on July 23, 1998 and resulted in the following members being selected to serve as officers and Advisory Committee representatives during FY 1998-99:



Chairman: Steve Arbelbide, California Steel Industries, Incorporated  
Vice-Chairman: Victor Barrion, Mountain Vista Power Generation Company  
Secretary: Traci Stewart, Chief of Watermaster Services  
Treasurer: Alice W. Lichti, Watermaster Controller

Representatives as shown below were designated to serve on the Watermaster Advisory Committee during FY 1998-99. A complete list of member entities and their designated representatives in Pool Committee and Advisory Committee is included in Appendices A-2 and A-4.

Steve Arbelbide California Steel Industries, Incorporated  
Victor Barrion Mountain Vista Power Generation Company  
Lee Redmond III Kaiser Ventures, Incorporated

During FY 1998-99, 2 special meetings and 11 regular Joint Pools and Advisory Committee meetings were held to act on matters affecting the members of this pool and to discuss actions to be forwarded by the Advisory Committee to the Watermaster Board. It has been the practice of this pool committee to waive compensation for meeting attendance.

**C. Appropriative Pool**

Each year, an annual election is held to designate officers to serve on the Appropriative Pool Committee and Advisory Committee for the next fiscal year. The Annual Meeting was held on July 23, 1998 and resulted in the following members being selected to serve as officers during FY 1998-99:

Chairman: Robert DeLoach, Cucamonga County Water District  
Vice-Chairman: Mike McGraw, Fontana Water Company  
Secretary: Traci Stewart, Chief of Watermaster Services  
Treasurer: Alice W. Lichti, Watermaster Controller

During FY 1998-99, 2 special meetings and 11 Joint Pools and Advisory Committee meetings were held to act on matters affecting the members of this pool and to discuss actions to be forwarded by the Watermaster Advisory Committee to the Watermaster Board. A complete list

of member entities and their designated representatives in Pool Committee and Advisory committee is included as Appendices A-3 and A-4.

**D. Advisory Committee**

The Annual Meeting was held on July 23, 1998. At this meeting, it was decided to return to the rotation process that was practiced in previous years for the designation of committee officers. However, the Overlying (Non-Agricultural) Pool opted to skip its turn on the rotation schedule since its pool committee chairman, Mr. Arbelbide had previously been selected to serve on the Watermaster Board. As a result, the following members represent their pools on the Advisory Committee for FY 1998-99:

Chairman	Robert DeLoach, Appropriative Pool
1st Vice-Chairman	Robert DeBerard, Overlying (Agricultural) Pool
2nd Vice-Chairman	Steve Arbelbide, Overlying (Non-Agricultural) Pool
Secretary	Traci Stewart, Chief of Watermaster Services
Treasurer	Alice W. Lichti, Watermaster Controller

A complete list of Advisory Committee members is included in Appendix A-4.

During FY 1998-99, 2 Joint Watermaster Board and Advisory Committee meetings, and 11 Joint Pools and Advisory Committee meetings were held to act on matters affecting the pools and to discuss actions to be forwarded by the Advisory Committee to the Watermaster Board. In addition, 23 OBMP workshop meetings chaired by the Advisory Committee Chairman were held during this period (see OBMP section beginning on page 13).

**E. Special Ad Hoc Committees and Workshops**

During FY 1998-99, special ad hoc meetings and workshops were held as indicated below:

- 23 OBMP Workshop Meetings
- 10 Ad Hoc Committee Meetings
- 3 Workshops

Information regarding meetings and workshops is available and may be reviewed by any interested party by contacting the Watermaster business office, 8632 Archibald Avenue, Suite

109, Rancho Cucamonga, CA 91730. All requests must be in writing and are accepted via regular mail or facsimile.

#### **IV. ADMINISTRATION OF THE JUDGMENT**

##### **A. Watermaster Insurance Coverage**

Chino Basin Watermaster insurance coverage was continued through Schrimmer Insurance Agency. Coverage includes a Business Liability Package, Auto Liability Package, and Public Officials Liability.

##### **B. Unqualified Audit Opinion, Annual Audit Report, and Expense Reimbursement**

For the FY 1998-99, Conrad & Associates submitted an Unqualified Audit Opinion and Audit Report to the Chino Basin Watermaster, which is included in Appendix L. Watermaster Board direct expense reimbursements totaled \$293.16 for FY 1998-99. There were no single reimbursements greater than \$125.00.

##### **C. Engineering Services**

During FY 1998-99, Wildermuth Environmental, Inc. continued to assist the Watermaster Board, the Advisory Committee, and Pool Committees with developing the OBMP, as mandated by the February 19, 1998 court ruling. For a summary of the activities and specific tasks assigned to Mr. Wildermuth, please refer to the sections entitled OBMP and Special Projects in this annual report. Collaborative projects with the CBWCD regarding water sampling and recharge capabilities were also continued during this period. The projects are discussed separately in the special project portion of this annual report beginning on page 11.

##### **D. Legal Services**

During FY 1998-99, the Watermaster Board continued its General Legal Counsel services through the firm of Lemieux & O'Neill. The Advisory Committee was not represented as a collective party, but individual members utilize their own legal counsel as they deem necessary. The firm of Nossaman, Guthner, Knox & Elliott continued to represent Chino Basin Watermaster and IEUA on the Markot case.

## **E. Assessments**

The Judgment provides for separate and distinct replenishment assessment formulas for each of the three pools. The administrative assessment formula for each pool is determined on a per acre-foot basis, for each acre-foot of water produced by that pool. Costs per acre-foot vary among the pools based upon their respective total budgets for pool administration and total production during the previous production period. Costs to replace any water extracted in excess of each respective pool's share of operating safe yield are recovered by the application of the following replenishment assessment formulas:

### **1. Overlying (Agricultural) Pool**

The Overlying (Agricultural) Pool pays assessments on a gross basis, such that the total cost of the replenishment water plus the estimated associated spreading costs are divided equally on each acre-foot of water produced during the previous production year. One member of this pool, Los Serranos Country Club (Los Serranos), was also assigned to the Appropriative Pool. Under this special arrangement, Los Serranos is assessed as an appropriator on the portion of its production (65%) that serves an area outside the Chino Groundwater Basin's adjudicated boundary. Los Serranos pays a 100% net replenishment assessment on this portion of its production.

By action taken at the Appropriative Pool Committee meeting on June 7, 1988, the Appropriative Pool assumes the administrative and special project costs of the Overlying (Agricultural) Pool. In exchange, it was agreed to accelerate the reallocation or transfer of all un-pumped agricultural water to the Appropriative Pool from once every five years to each fiscal year. The action became effective during FY 1987-88 and has been continued each year thereafter. Appendix D indicates the reallocation of un-pumped Overlying (Agricultural) Pool safe yield from production year 1997-98 to the Appropriative Pool for use in FY 1998-99.

The total administrative and special projects assessments levied against the Overlying (Agricultural) Pool for FY 1998-99 was \$723,252. The Appropriative Pool members were assessed \$19.0376 per acre-foot for each acre-foot of water reallocated

to them. The unit cost of the reallocated water was calculated as \$723,252 divided by the total number of acre-feet to be reallocated during the fiscal year, which were 37,990.636 acre-feet.

Reported production from the pool declined from 96,567 acre-feet in FY 1974-75, to 83,934 acre-feet in FY 1977-78. The Pool Committee decided in FY 1978-79 to purchase and place, 2,000 acre-feet of replenishment water in a local storage account. This was done to provide for a potential increase in production during the balance of the five-year period. However, because the production of the Overlying (Agricultural) Pool continued to decline, the pool members decided during FY 1987-88 to sell their water in storage. Revenue from the sale was placed in a restricted, interest-earning account for future use by the Overlying (Agricultural) Pool, as became necessary. The proceeds from the sale, including interest earned, totaled \$420,795 as of June 30, 1999.

## **2. The Overlying (Non-Agricultural) Pool**

Assessments for this pool are based on a net replenishment formula. This formula applies the current cost of replenishment water plus the estimated spreading costs to each acre-foot of water produced in excess of a producer's share of safe yield.

The FY 1998-99 budgeted administrative and special projects assessment for the Overlying (Non-Agricultural) Pool was calculated at \$9.8493 per acre-foot. Replenishment costs were assessed for \$243.00 per acre-foot of water overproduced (\$233.00 plus \$5.00 per acre-foot of IEUA administrative charge and \$5.00 of projected spreading cost).

## **3. The Appropriative Pool**

The following members, if they overproduce, pay replenishment assessments on a net basis, which includes the current cost of replenishment water plus the estimated cost of spreading. The replenishment costs were same as those paid by Overlying (Non-Agricultural) Pool:

- Arrowhead Mountain Spring Water Company;
- Department of Toxic Substances Control (formerly Pyrite Canyon Group);

- Los Serranos Country Club;
- Marygold Mutual Water Company;
- Metropolitan Water District of Southern California (MWDSC); and
- Pomona, City of.

In addition, the City of Norco pays replenishment on a net basis for any replenishment obligation in excess of 1,567.000 acre-feet. Any replenishment necessary by the City of Norco up to the 1,567.000 acre-feet is assessed under the 85/15 formula as discussed below.

The remaining Appropriative Pool members (and City of Norco if they overproduce less than 1,567.000 acre-feet per year) are assessed under the 85/15 formula. This formula assesses the total cost of replenishment water in two ways:

- Eighty-five percent (85%) on a net basis, on each acre-foot of production over a producer's share of the operating safe yield; and
- Fifteen percent (15%) on a gross basis, uniformly among all producers on each acre-foot produced.

In FY 1998-99, the Appropriative Pool members who participated in the 85/15 formula were assessed \$0.0313 per acre-foot for the gross 15% assessment and \$206.55 per acre-foot for the 85% net assessment, respectively. In addition, each producer was assessed \$7.7720 per acre-foot to cover the budgeted administrative and special project costs for the pool.

Appendices E-1, E-2, and F summarize other imported supplies during FY 1998-99 used by Appropriative Pool. Appendix G shows the current and historical total water consumption within the Basin.

**F. Fiscal Year 1999-00 Watermaster Budget**

A summary of the FY 1999-00 Watermaster Budget as shown on page one of the Watermaster assessments for FY 1999-00 is included in Appendix C. On June 10, 1999, the budget was approved on condition that, prior to the levying of the FY 99-00 assessments, Special Project #7300 (the Production Metering Program) be reviewed by the committees to determine

whether a more cost effective program could be developed. Watermaster budgets are occasionally amended or modified during the process of developing the Watermaster assessment package and levying the subsequent fiscal year assessments. During FY 1998-99, due to the need to develop an OBMP, it became necessary to amend the budget.

#### **G. Special Projects**

Special projects are initiated by separate work orders (either verbal or written, as a result of committee actions) and approved by the Pool Committees, the Advisory Committee, and the Watermaster Board. Special projects as stated in the Judgment shall consist of special engineering, economic or other studies, litigation expense, meter testing, or other major operating expenses. Additional special project funds are designated and budgeted as required to carry out the OBMP. The new or existing special projects described below were approved for FY 1998-99.

##### **1. The Metering Program**

The purpose of the metering program is to administer Judgment, Paragraph 21 Measuring Devices and Paragraph 54 Administrative Expense, which include record maintenance, testing, and calibration of measuring devices, and allocating those costs among the pools. Watermaster Rules and Regulations Section 3.7(b) requires that in-line meters on active wells to be tested and calibrated at least once every two years. In addition, Section 3.07.1 requires that all other meter types to be tested and calibrated annually.

Approximately 45 active well meters were tested and calibrated during FY 1998-99. Well user information is obtained through field inspections and quarterly production reporting forms.

##### **2. The Monitoring Program**

The monitoring program was designed to continue the Chino Basin Groundwater Monitoring Program as presented by the Task 1 Preliminary Monitoring Report prepared by James M. Montgomery Consulting Engineers Inc., August 1989.

This program consists of two primary tasks. Task 1 is to collect groundwater quality samples and water levels, and to extract data from the California Department of Health Services (DHS) and the California Regional Water Quality Control Board (RWQCB) records. Task 1 represents the majority of effort. The agricultural producers are permitted to avoid individual monitoring requirements from the RWQCB by participating in this program. Water quality sample data was collected from over 65 agricultural wells. Water level data was obtained for approximately 460 agricultural wells.

Task 2 is to compile and check for the accuracy and completeness of the collected data, to prepare contour maps (such as TDS, general chemistry, groundwater levels, nitrates, etc.), and to prepare a final monitoring report.

As an integral part of the monitoring program, the well locations are precisely identified with the Global Positioning System (GPS) equipment. The GPS equipment provides longitude and latitude coordinates within an accuracy of two meters. This information is being gathered for over 1,000 wells in the Chino Groundwater Basin. By the end of the fiscal year, well coordinates were collected on approximately 500 wells. The water quality data, water level monitoring data, and the well coordinates are entered in the Watermaster databases and will eventually be used to improve the accuracy of the various groundwater models and analytical tools used by Watermaster engineers.

### **3. Nitrogen/TDS Study**

In 1994, the RWQCB adopted updated the Water Quality Control Plan (Basin Plan) for the Santa Ana River Watershed. The Basin Plan establishes allowable recycled water use, the surface and groundwater total dissolved solids (TDS) and nitrogen objectives, the groundwater basin and sub-basin boundaries, and the various beneficial uses that must be protected and preserved. The purpose of this study is to reevaluate the waste load allocations, the Basin Plan Objectives, and the zones established for the Santa Ana River and the surrounding groundwater basins. The tasks to be completed are to identify the effect on receiving and downstream water quality and quantity from increased reclamation by type of reclamation use, to determine the impact of changes on



quality of receiving water in groundwater basins, to compare any proposed water quality changes to existing legal and institutional arrangements to determine if changes in water quality objectives can be made, and to determine if the evidence supports a change, recommend appropriate basin/sub-basin boundaries (based on water quality, manageability and hydrology) and to identify the impact of changes in objectives on the basins, the river reaches, and the on-off river areas. The project is being managed by the Santa Ana Watershed Project Authority (SAWPA).

#### **4. Optimum Basin Management Program**

On February 19, 1998, the Honorable Judge J. Michael Gunn ruled that the Watermaster must develop an Optimum Basin Management Program (OBMP) and submit it for hearing on October 28, 1999. Since the ruling, the Watermaster, the producers, and other interested parties have met at least twice per month and held special meetings and workshops to develop the scope of work to prepare and cooperatively develop the OBMP. The Court officially accepted the scope of work to develop the OBMP on November 5, 1998. Development of the OBMP at first was thought to require three parallel processes: institutional, engineering, and financial processes. The engineering process developed planning data and management elements, and evaluated the technical and economic performance of the management elements. The financial process was supposed to develop alternative financing plans for the OBMP implementation through its evolution. However, because of institutional complexities involved in developing regional water supply facilities and their related financing, most of the financial process will occur in FY 1999-00 after the OBMP Phase I Report is submitted to the Court on October 28, 1999.

The institutional process consisted of the following tasks:

- Task 1 Identify needs and interests of stakeholders.
- Task 2 Establish a meeting schedule necessary to complete the OBMP within the proposed time frame.
- Task 3 Develop and refine the scope of work based on identified needs.

- Task 4 Identify early implementation actions and develop a list of potential program (management) elements of the OBMP to balance needs and interests.
- Task 5 Evaluate program elements and develop recommended management and implementation plan.

The first three tasks were completed with the submission of the recommended scope of work to the Special Referee and the Court on June 30, 1998. Task 4 was begun in June 1998 with several early implementation action items having already been approved and with initial management concepts submitted to begin the list of potential components of the OBMP. The management elements represented concepts or implementation plans that described the parties' vision of the OBMP. Submissions of management concepts continued into July and August of 1998 and reflected the needs and interests that were previously identified for the OBMP. All submitted proposals were discussed and listed on each OBMP Workshop Meeting Agenda.

As part of Task 5, those proposals that appeared to be most promising were forwarded to the engineering and financial consultants for reconnaissance-level technical and financial analyses. The results of the engineering and financial analyses were submitted to the producers and Watermaster for review. Working together, the producers and the Watermaster Board will develop an OBMP for the Chino Groundwater Basin.

The engineering process consisted of the following tasks:

- Task 1 Develop OBMP criteria.
- Task 2 Assess the current state of the basin.
- Task 3 Prepare Sections 1, 2, and 3 of the OBMP document.
- Task 4 Develop the components of the OBMP.
- Task 5 Develop an Implementation Plan.
- Task 6 Finalize the OBMP document.

Tasks 1 and 2 define the basin problems, planning environment, and the needs and interests of the basin producers. Tasks 1, 2, and 3 were completed in December

1998 and draft Sections 1, 2, and 3 of the OBMP were provided to stakeholders for review. A matrix was developed that contains the goals, impediments to the goal, action items to achieve the goals, and the implications of the action items. This matrix was used to define the program elements of the OBMP. Tasks 4 and 5 were engineering efforts to develop these elements and to describe the implementation process. Over the course of the year, the institutional process Tasks 4 and 5, and engineering process Tasks 4 and 5 merged and became one seamless process. It is anticipated that the engineering process Task 6 and the financial process will be completed concurrently in the next fiscal year.

For additional OBMP information, please contact the Watermaster office or visit the Watermaster website at [www.cbwm.org](http://www.cbwm.org).

#### **H. Mailing Lists**

Mailing lists of the active parties are updated on a routine basis through the use of the United States Post Services (USPS) "Address Correction Requested Service," whereby any address change reported to the USPS is provided to Watermaster after each mailing. Databases are updated upon receipt of notice from the USPS and from other sources of address change. A current listing of active parties is available for review upon request.

#### **I. New Party Interventions**

New Party Interventions are accumulated on a regular basis as land ownership changes or new parties begin production. Changes in ownership are most frequently discovered during the quarterly production reporting and well inspection processes. New party production is normally discovered when Watermaster staff locates new wells during routine field inspections. Parties who no longer own property with water production facilities are considered inactive and are accounted for as such. During FY 1998-99, no interventions were processed and are reflected in Appendix J.

**J. Redetermination of the Chino Groundwater Basin's Safe Yield**

On June 30, 1999, the Chino Basin Watermaster Program closed its 22nd year of operation under the Judgment. Beginning June 30, 1982, redetermination of the Chino Groundwater Basin's safe yield could be considered. There were no changes recommended during the FY 1998-99.

Pursuant to Exhibit I, Page 80, Paragraph 2b of the Judgment, Quantitative Limits stated that "In no event shall Operating Safe Yield in any year be less than the Appropriative Pool's share of Safe Yield, nor shall it exceed such share of Safe Yield by more than 10,000 acre-feet. The initial Operating Safe Yield is hereby set at 54,834 acre-feet per year. Operating Safe Yield shall not be changed upon less than five years notice by Watermaster." Pursuant to this provision of the Judgment, Watermaster hereby posts its fifteenth "Notice of Intent to Change the Safe Yield in the Chino Groundwater Basin" as shown in Appendix K.

**V. RESOURCES MANAGEMENT**

**A. Quarterly Accounting of Water Production**

Quarterly production reporting forms are mailed to users of all active wells in the Chino Groundwater Basin. The Overlying (Agricultural) Pool's quarterly production was compiled from meter readings taken on those wells equipped with water measuring devices. A water duty method, which relates the acreage of crops grown or the number of animals maintained to water use in acre-feet, was used to compute the production for those users without measuring devices.

**B. San Bernardino County Flood Control District (SBCFCD) Agreement**

During FY 1998-99 spreading was curtailed in September due to increased demands on the Rialto Feeder. On July 2, 1998, the expired agreement was attached to a spreading permit from the SBCFCD to allow the use of the spreading basins during the FY 1998-99. On November 17, 1998, the permit was amended to extend the term to December 31, 1999. Negotiations on a new spreading agreement will commence as part of completing the OBMP.

Additionally, in FY 1998-99, a more cooperative relationship between the SBCFCD and the Watermaster was fostered. The SBCFCD assigned a representative to attend and participate

at the Pool, Advisory Committee, Watermaster Board, and OBMP related meeting and workshops. A more comprehensive water conservation and recharge program is being developed through the OBMP process.

**C. San Sevaine Creek Water Project Agreement**

For several years, the potential impact on the Basin's natural recharge from the proposed San Sevaine Creek Water Project raised a considerable amount of concern among stakeholders. Concern was raised because the SBCFCD had not made an adequate demonstration that the project would mitigate the loss of storm flow for recharge which now occurs through the existing San Sevaine project. Several meetings were held with SBCFCD regarding the potential impact of the channel lining and due to relocation of recharge to lower in the basin. During FY 1998-99, both the SBCFCD and Watermaster staff agreed to discuss the result of the study regarding the potential impact of the project at a later date due to the OBMP development. SBCFCD agreed to leave San Sevaine Basins 1 through 4 as is and remove fill material from Basin 5 for California Department of Transportation and the Routes 15/30 interchange.

**D. Cyclic Storage Agreement**

Cyclic storage is defined in the Watermaster's Uniform Groundwater Rules and Regulations Paragraph 1.2.2 Cyclic Storage, as the "pre-delivery of replenishment water." The Cyclic Storage Agreement with Metropolitan Water District of Southern California (MWDSC) expired on December 31, 1998. MWDSC chooses not to extend the agreement for the next fiscal year. Please refer to Appendix E-1 for a summary of the MWDSC deliveries to the Basin and Appendix E-2 for a summary of the cyclic storage account activity during FY 1998-99.

**E. Stringfellow Acid Pits**

During FY 1985-86, Pool Committees addressed various mitigation measures in regard to the Stringfellow Acid Pits. The Committees determined the need for a cooperative effort throughout the water industry in dealing with contamination problems in the Chino Groundwater Basin. Pursuant to the Advisory Committee's action, Watermaster petitioned the Court to allow the export of a maximum of 300 acre-feet of water annually. The Court approved the petition in

November 1985. During FY 1998-99, 80.900 acre-feet of contaminated groundwater was removed and exported from the site. As of June 30, 1999, 577.877 acre-feet of contaminated water has been exported from the Stringfellow Acid Pits. During FY 1998-99, the California Department of Toxic Substances Control took over the responsibility for the Stringfellow program.

**F. Local Water in Storage for Recapture/Sales/Transfers**

Recapture, sales and transfers of water in local storage that occurred among the Appropriative and Overlying (Non-Agricultural) Pool members during FY 1998-99 totaled 26,648.565 acre-feet (see Appendix I-1). Water Rights Lease Agreements, negotiated among the Appropriative Pool members during FY 1998-99 totaled 6,700.000 acre-feet.

**G. Assignments**

Pursuant to the Judgment, Exhibit G, Paragraph 6, Assignment, " Any appropriator who may, directly or indirectly, undertake to provide water service to such overlying lands may, by an appropriate agency agreement on a form approved by Watermaster, exercise said overlying right to the extent, but only to the extent necessary to provide water service to said overlying lands."

Appendix I-2 included the quantities of water assigned in FY 1998-99. Previously, assignments were not recorded in the Annual Report, however they were a part of the Summary of Groundwater Production filed with the Court each year.

**H. Local Storage**

**1. Storage Limits**

During FY 1998-99, the Pool Committees continued to consider the establishment of storage limits and to consider what losses, if any, should be assigned to local water in storage. During the fiscal year, storage management became an element of the OBMP and a subcommittee was formed to address storage issues and concepts (for more detail refer to the OBMP Phase I Report.)

**2. Local Storage Agreements**

In FY 1998-99, there were no requests for Local Storage Agreements. Appendix H summarizes the status of the local storage account.

## APPENDIX A-1

### OVERLYING (AGRICULTURAL) POOL COMMITTEE FISCAL YEAR 1998-99

<u>Regular Representative</u>	<u>Alternate Representative</u>	<u>Member Entity</u>
*George Borba, Jr.	*Nathan deBoom	Dairy
Robert DeBerard, Chairman	Bernard (BJ) Teunissen	Grapes
Rick Buffington	Charles Davis, PIA/CIM Frank Lopez, CIW	State of California
*Jenny De Boer	*Arlan Van Leeuwen	Dairy
Dick Dykstra	Darin Dykstra	Dairy
*Jack Hagerman, CIM	*Juan Nessi, CIM *Fred Hector, CIW	State of California
*Gene Koopman	*Mary Parente	Milk Producers Council
*Marilyn Levin, Dep. A.G.	*Douglas Noble, Attorney General Office *Carlos Lozano, YTS	State of California
Dana Oldenkamp	Bob Feenstra	Milk Producers Council
Jeff Pierson, Vice-Chairman	Ray Allard	Unitex/Corona Farms

\* Newly elected members for a two-year term.

(1) Committee members from the State of California waive compensation.

(2) At the annual meeting held on August 13, 1998, the existing slate of members was elected to serve during FY 1998-99.

(3) *Juan Nessi was selected to serve as an alternate for Jack Hagerman and Nathan deBoom replaced John Borges.*

(4) *PIA: Prison Industries Authorities*

(5) *CIM: California Institute for Man*

(6) *CIW: California Institute for Woman*

(7) *YTS: Youth Training School*

**APPENDIX A-2**

**OVERLYING (NON-AGRICULTURAL) POOL COMMITTEE  
FISCAL YEAR 1998-99**

<u>Member Entity</u>	<u>Representative</u>
Ameron	Mark Ward
Angelica Rental Service	Eric Vaughn
California Steel Industries (CSI)	*Steve Arbelbide, Chairman
Calmat (Conrock)	George Cosby
General Electric Company	Mark Gage/David Thompson
Kaiser Ventures Incorporated (KVI)	*Lee Redmond III
Mobile Community Management (For Swan Lake Mobile Home Park)	David Starnes
Praxair	Wayne Salmi
San Bernardino County, Department of Airports	Robert Olislagers
Sunkist Growers Incorporated	Kathie Blyskal
Mountain Vista Power Generation Company	*Vic Barrion, Vice-Chairman
Space Center Mira Loma	Michael Thies
California Speedway	Les Richter

\* Advisory Committee representatives



### APPENDIX A-3

#### APPROPRIATIVE POOL COMMITTEE FISCAL YEAR 1998-99

<u>Member Entity</u>	<u>Representative</u>
Arrowhead Mountain Springs Water Company	Scott Hendrix
*Chino, City of	Dave Crosley
*Chino Hills, City of	Ron Craig
*Cucamonga County Water District	Robert DeLoach, Chairman
Fontana, City of	Curtis Aaron
*Fontana Union Water Company	Gerald Black
*Fontana Water Company	Mike McGraw, Vice-Chairman
Inland Empire Utilities Agency	Neil Clifton
*Jurupa Community Services District	John Schatz
Los Serranos Country Club	Kevin Sullivan
Marygold Mutual Water Company	Bill Stafford
Monte Vista Irrigation Company	Harold Andersen
Monte Vista Water District	Mark Kinsey**
Norco, City of	Joe Schenk
*Ontario, City of	Ken Jeske
Pomona, City of	Henry Pepper
Pyrite Canyon Group	Daniel Bergman
*San Antonio Water Company	Ray Wellington
Santa Ana River Water Company	Arnold Rodriguez
San Bernardino, County of	Phil Krause
Southern California Water Company	Chet Anderson
*Upland, City of	Jim Moody
West End Consolidated Water Company	Beverly Braden
***West San Bernardino County Water District	Anthony Araiza

\* Advisory Committee representatives

\*\* *Mark Kinsey became the new representative on November 4, 1998.*

\*\*\* The City of Upland took over the management of West End Consolidated Water Company and Beverly Braden was named as the representative.

**APPENDIX A-4**

**WATERMASTER ADVISORY COMMITTEE  
FISCAL YEAR 1998-99**

**Overlying (Agricultural) Pool**

Regular Representative

George Borba, Jr., Dairy  
Rick Buffington, State of California, CIM

Robert DeBerard, Grapes  
Jenny DeBoer, Dairy  
Dick Dykstra, Dairy  
Jack Hagerman, State of California

Gene Koopman, MPC, Chairman  
Marilyn Levin, Deputy AG, State of California

Dana Oldenkamp, MPC  
Jeff Pierson, Unitex /Corona Farms

Alternate Representative

Nathan DeBoom, Dairy  
Pete Hall, State of California, CIM  
Frank Lopez, State of California, CIW  
Bernard (BJ) Teunissen, Grapes  
Arlan Van Leeuwen, Dairy  
Darin Dykstra, Dairy  
Juan Nessi, State of California, CIM  
Fred Hector, State of California, CIW  
Mary Parente, MPC  
Douglas Noble, AG's Office, State of California  
Carlos Lozano, State of California, YTS  
Bob Feenstra, MPC  
Ray Allard, Unitex/Corona Farms

**Overlying (Non-Agricultural) Pool**

Member Entity

California Steel Industries  
Mountain Vista Power Generation Company  
Kaiser Ventures Incorporated

Representative

Steve Arbelbide  
Vic Barrion  
Lee Redmond, III

**Appropriative Pool**

Member Entity

City of Chino  
City of Chino Hills  
City of Ontario  
City of Pomona  
City of Upland  
Cucamonga County Water District  
Fontana Union Water Company  
Fontana Water Company  
Monte Vista Water District  
Jurupa Community Services District  
San Antonio Water Company  
West San Bernardino County Water District

Representative

Dave Crosley  
Ron Craig  
Ken Jeske  
Henry Pepper  
Jim Moody  
Robert DeLoach, Chairman  
Gerald Black  
Mike McGraw, Vice-Chairman  
Mark Kinsey  
John Schatz  
Ray Wellington  
A.W. Araiza

**APPENDIX B <sup>(1)</sup>**

**GROUNDWATER PRODUCTION BY POOL  
(ACRE-FEET)**

Fiscal Year	Appropriative Pool	Overlying (Agricultural) Pool	Overlying (Non-Agricultural) Pool	Total
74-75	70,312	96,567	8,878	175,757
75-76	79,312	95,349	6,356	181,017
76-77	72,707	91,450	9,198	173,355
77-78	60,659	83,934	10,082 <sup>(2)</sup>	154,675
78-79	60,597	73,688	7,127	141,412
79-80	63,834	69,369	7,363	140,566
80-81	70,726	68,040	5,650	144,416
81-82	66,731	65,117	5,684	137,532
82-83	63,481	56,759	2,395	122,635
83-84	70,558	59,033	3,208	132,799
84-85	76,912	55,543	2,415	134,870
85-86	80,859	52,061	3,193	136,113
86-87	84,662	59,847	2,559	147,068
87-88	91,579 <sup>(3)</sup>	57,865	2,958	152,042
88-89	93,617 <sup>(4)</sup>	46,762	3,619	143,998
89-90	101,344 <sup>(5)</sup>	48,420	4,856	154,620
90-91	86,658 <sup>(6)</sup>	48,085	5,407	140,150
91-92	91,982 <sup>(7)</sup>	44,682	5,240	141,904
92-93	86,367 <sup>(8)</sup>	44,092	5,464	135,923
93-94	80,798 <sup>(9)</sup>	44,298	4,586	129,682
94-95	93,419 <sup>(10)</sup>	55,022	4,327	152,768
95-96	101,606 <sup>(11)</sup>	43,639	5,424	150,669
96-97	110,163 <sup>(12)</sup>	44,809	6,309	161,281
97-98	97,435 <sup>(13)</sup>	43,345	4,955 <sup>(14)</sup>	145,735
98-99	107,723	47,538	7,006	162,267

- (1) Assessed production or production reported in Annual Reports
- (2) Includes 3,945 AF of mined water pumped by Edison as agent for IEUA.
- (3) Does not include 7,674.3 AF exchanged with MWDSC.
- (4) Does not include 6,423.6 AF exchanged with MWDSC.
- (5) Does not include 16,377.1 AF exchanged with MWDSC
- (6) Does not include 14,929.1 AF exchanged with MWDSC.

- (7) Does not include 12,202.4 AF exchanged with MWDSC.
- (8) Does not include 13,657.3 AF exchanged with MWDSC.
- (9) Does not include 20,194.7 AF exchanged with MWDSC.
- (10) Does not include 4,221.9 AF exchanged with MWDSC.
- (11) Does not include 6,167.2 AF exchanged with MWDSC and reflects corrected production after reporting errors accounted for.
- (12) There were no MWDSC exchanges in FY 96-97 and reflects corrected production after reporting errors were accounted for.
- (13) Does not include 4,275.4 AF exchanged with MWDSC .
- (14) Does not include 216.5 AF exchanged with MWDSC.

**APPENDIX C**

**SUMMARY OF ADMINISTRATIVE AND REPLENISHMENT ASSESSMENT BUDGETS  
FISCAL YEAR 1999-00**

**ON FILE AT WATERMASTER OFFICES**

**APPENDIX D**

**SUMMARY OF  
REALLOCATION OF UNPRODUCED OVERLYING (AGRICULTURAL) POOL  
SAFE YIELD FROM PRODUCTION YEAR 1997-98  
TO THE APPROPRIATIVE POOL FOR USE  
IN FISCAL YEAR 1998-99  
(ACRE-FEET)**

Member	Land Use Conversion		Balance Available	Total Reallocated
	First Half	Remaining Half		
Chino, City of	2,087.410	626.120	1,650.287	4,363.817
Chino Hills, City of	871.346	327.727	863.801	2,062.874
Cucamonga County Water District	598.364	561.798	1,480.751	2,640.913
Fontana Union Water Company	0	992.877	2,616.961	3,609.838
Jurupa Community Services District	4,022.850	319.919	843.222	5,185.991
Marygold Mutual Water Company	0	101.716	268.096	369.812
Monte Vista Water District	36.595	748.756	1,973.522	2,758.873
Monte Vista Irrigation Company	0	105.044	276.868	381.912
Norco, City of	0	31.282	82.454	113.737
Ontario, City of	894.557	1,765.400	4,653.129	7,313.086
Pomona, City of	0	1,740.881	4,588.504	6,329.385
San Antonio Water Company	0	233.893	616.481	850.374
Santa Ana River Water Company	0	201.994	532.404	734.398
Southern California Water Company	0	63.868	168.338	232.206
Upland, City of	0	442.739	1,166.942	1,609.681
West End Consolidated Water Company	0	147.101	387.718	534.819
West San Bernardino CWD	0	100.008	263.596	363.604
<b>Total</b>	<b>8,511.122</b>	<b>8,511.123</b>	<b>22,433.074</b>	<b>39,455.320</b>

**APPENDIX E-1**

**SUMMARY OF MWDSC DELIVERIES<sup>(1)</sup>  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

Month	Water Facilities Authority, CB-12					CB-1 SCE	CB-7 CB-16 CCWD	Total	PM-15 Pomona <sup>(2)</sup>
	Upland	MVWD	Ontario <sup>(3)</sup>	Chino	Chino Hills				
Jul	0	356.5	1,081.0	0	0	14.0	1,953.6	3,405.1	390.9
Aug	10.5	437.4	941.5	491.8	0	61.0	2,311.5	4,253.7	468.0
Sep	0	340.5	844.5	540.8	1,514.4	27.5	1,683.7	4,951.4	269.9
Oct	0	132.3	441.0	518.1	1,539.3	0	1,460.1	4,090.8	166.7
Nov	69.5	96.7	0	375.3	1,393.6	0	1,212.3	3,147.4	16.6
Dec	0	86.8	0	298.9	1,170.7	0	1,318.2	2,874.6	0
Jan	9.4	158.4	0	264.3	704.0	0	1,438.5	2,574.6	0
Feb	12.7	451.0	0	231.4	377.2	0	1,210.3	2,282.6	0
Mar	19.5	536.8	0	195.4	368.8	0	1,557.3	2,677.8	0
Apr	28.3	70.1	315.2	315.6	401.4	0	688.7	1,819.3	5.3
May	0	129.2	571.8	382.2	939.1	0	1,439.9	3,462.2	62.3
Jun	121.9	1,367.5	876.6	411.5	206.0	14.1	1,876.6	4,874.2	167.1
Total	271.8	4,163.2	5,071.6	4,025.3	8,614.5	116.6	18,150.7	40,413.7	1,546.6

Total Metropolitan Water District of Southern California (MWDSC) direct deliveries used in Chino Basin including Pomona equals 40,413.7 + 1,529.6 = 41,960.3 AF.

- (1) A breakdown of categories of water is available upon request. Watermaster replenishment is not included. Includes water exchanged with MWDSC (none in FY 98-99).
- (2) Figures reflect 37.8% of the total MWDSC water delivered that was used over the Chino Basin (based on estimated land use area physically located within the Chino Basin adjudicated boundary).
- (3) During FY 1998-99, Ontario did not take any deliveries through the CB-2 connection.

**APPENDIX E-2**

**SUMMARY OF COOPERATIVE, REPLENISHMENT, AND CYCLIC ACTIVITIES  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

Cooperative Activity <sup>(1)</sup>		Direct Replenishment Activity <sup>(2)</sup>			Cyclic Activity <sup>(3)</sup>		Total
Month	Produced from Cooperative	CB-13t San Sevaine	CB-14t Etiwanda	CB-59t Montclair	Cyclic Delivered by Exchange	Produced from Cyclic	
Jul	0	710.0	427.5	1,146.5	0	0	2,284.0
Aug	0	652.5	641.2	1,451.2	0	0	2,744.9
Sep	0	163.8	168.7	421.9	0	0	754.4
Oct	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0
Mar	0	0	0	12.5 <sup>(4)</sup>	0	0	12.5
Apr	0	0	0	0	0	-1,461.4	-1,461.4
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>1,526.3</b>	<b>1,237.4</b>	<b>3,032.1</b>	<b>0</b>	<b>-1,461.4</b>	<b>4,334.4</b>

- (1) Monte Vista Water District has 1,110.0 AF in its Cooperative Storage Account with MWDSC. The amount was mistakenly recorded as 1,697.3 AF since FY 1995-96. There were no additional deliveries into cooperative storage during FY 98-99.
- (2) The total direct replenishment delivery during FY 1998-99 was 5,795.8 AF.
- (3) As of June 30, 1999, the balance of MWDSC's Cyclic Storage Account is 36,796.1 AF.
- (4) Transfer from OCWD through OC-59 (shown on MWDSC March 1999 invoice to IEUA).



**APPENDIX F**

**SUMMARY OF IMPORTED SUPPLIES  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

Member Agency	Other Basins	Surface Diversions	MWDSC Imported Surface Diversions	Recycled Water	Total <sup>(11)</sup>
Chino, City of <sup>(1)</sup>				100.6	0
Chino Hills, City of <sup>(1)</sup>				0.0	0
Cucamonga County Water District <sup>(2)</sup>	12,485.8	9,391.0			21,876.8
Inland Empire Utilities Agency <sup>(1)</sup>				1,729.6	0
Fontana Water Company <sup>(3)</sup>	13,657.0	10,772.5			24,429.5
Marygold Mutual Water Company <sup>(4)</sup>	1,386.2				1,386.2
MWDSC <sup>(5)</sup>			40,413.7		40,413.7
Ontario, City of <sup>(1)</sup>				1,003.4	0
Pomona, City of <sup>(6)</sup>	3,304.7	2,876.0	1,546.6		7,727.3
San Antonio Water Company <sup>(7)</sup>	2,827.0	3,113.0			5,940.0
State of California, CIM <sup>(8)</sup>				850.1	0
West End Consolidated Water Co <sup>(9)</sup>	4,768.4				4,768.4
West San Bernardino CWD <sup>(10)</sup>	6,497.8				6,497.8
<b>Total</b>	<b>44,926.9</b>	<b>26,152.5</b>	<b>41,960.3</b>	<b>3,683.7</b>	<b>113,040</b>

- (1) IEUA provides recycled water to City of Ontario, City of Chino, and City of Chino Hills. In addition, a total of 1,729.8 AF was delivered to Whispering Lakes Golf Course and El Prado Park and Golf Course in the San Bernardino County.
- (2) Imported water includes groundwater produced from Cucamonga Basin and surface water runoff captured from Day Creek and Deer Canyon.
- (3) The imported water includes water produced from other groundwater basins and Lytle Creek surface water production and used in the area overlying Chino Basin.
- (4) Imported groundwater produced from wells owned by the City of Rialto, located in the Rialto Basin.
- (5) Amount of MWDSC deliveries to the IEUA service area, excluding that delivered and used in the City of Pomona (also listed in Appendix E-1).
- (6) Imported groundwater includes 549.7 AF from Pomona Basin, 2,384.7 AF from Claremont Basin, and 370.3 AF from Spadra Basin. The MWDSC delivered 1,546.6 AF to Pomona through Three Valleys MWD and used in Chino Basin (also listed in Appendix E-1).
- (7) An amount of 3,113 AF was treated local canyon flow consumed in the overlying Chino Basin. The imported groundwater was 1,415 AF from San Antonio Tunnel, 877 AF from Cucamonga Basin, and 535 AF from Six Basins.
- (8) Recycled wastewater that was applied to fields, including water held in storage ponds.
- (9) Figure includes 3,989.0 AF from Claremont Heights Basin and 779.4 AF from Cucamonga Basin.
- (10) Listed amount was delivered to "meter book" service area.
- (11) Recycled waters are not included in total imported water usage because they are reuse of local and imported water.

**APPENDIX G**

**TOTAL WATER CONSUMPTION WITHIN CHINO BASIN <sup>(1)</sup>  
(ACRE-FEET)**

Fiscal Year	Chino Basin Extractions <sup>(2)</sup>	Other Imported Supplies <sup>(3)</sup>	Total
1974-75	175,757	49,383	225,140
1975-76	181,017	57,686	238,703
1976-77	173,355	55,765	229,120
1977-78	154,675	61,567	216,242
1978-79	142,412	75,864	217,276
1979-80	140,566	70,727	211,293
1980-81	144,416	77,765	222,181
1981-82	137,532	67,491	205,023
1982-83	122,635	76,000	198,635
1983-84	132,799	99,257	232,056
1984-85	134,870	92,952	227,822
1985-86	136,113	114,624	250,737
1986-87	147,068	126,493	273,561
1987-88	152,402	116,175	268,577
1988-89	143,998	128,167	272,165
1989-90	154,620	139,004	293,624
1990-91	140,151	116,493	256,644
1991-92	141,904	104,480	246,384
1992-93	135,923	117,205	253,128
1993-94	129,682	136,038	265,720
1994-95	152,768	116,797	269,565
1995-96	150,669	130,494	281,163
1996-97	161,281 <sup>(4)</sup>	115,031	276,312
1997-98	145,735	106,360	252,095
1998-99	162,267	113,040	275,307

(1) Total includes water used over Cucamonga Basin.

(2) Source: Watermaster Assessment Packages. Total production in Appropriative Pool of 97,218 AF (excludes exchanges) plus Non-Ag production (excludes exchanges and a portion of GE production) of 5,171.577 AF and Ag Pool production in the amount of 43,344.680 AF.

(3) Total does not include recycled water, cyclic deliveries, water delivered by exchange, or water from direct spreading that was used for replenishment (see Appendices E-1, E-2, and F).

(4) Reflects corrected production after reporting errors were accounted for.

**APPENDIX H**

**LOCAL GROUNDWATER STORAGE ACCOUNT STATUS  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

**Appropriative Pool**

Entity	No.	Date of Agreement(s)	Amount of Agreement(s)	Amount in Storage	Total
Chino, City of	12	01/23/85	15,000.000	1,909.383	1,909.383
Chino Hills, City of	18.1	04/06/88	15,000.000	10,252.601	10,252.601
Cucamonga CWD	10	05/30/84	5,000.000	5,000.000	33,009.165
	10.1	05/06/87	5,000.000	5,000.000	
	10.2	04/06/88	20,000.000	20,000.000	
	10.3	06/07/89	50,000.000	3,009.165	
Fontana WC	28	08/05/92	5,000.000	0.000	0.000
Jurupa CSD	30	07/06/94	20,000.000	6,951.125	6,951.125
Marygold Mutual WC	16.3	07/07/93	2,000.000	1,686.081	1,686.081
Monte Vista Irrigation Co	17	05/07/89	500.000	500.000	5,881.344
	17.1	06/06/90	2,500.000	5,381.344	
Monte Vista Water District	27	08/05/92	2,500.000	2,500.000	5,213.920
	27.1	08/14/97	34,023.843	2,713.920	
Norco, City of	31.0	11/02/94	2,000.000	113.737	113.737
Ontario, City of	11	06/07/89	10,000.000	10,000.000	10,000.000
	11.1	07/06/94	20,000.000	0.000	
Pomona, City of	15.1	04/06/88	13,000.000	0.000	28,616.045
	15.2	06/06/90	10,000.000	10,000.000	
	15.3	08/05/92	10,000.000	10,000.000	
	15.4	07/07/93	10,000.000	8,616.045	
San Antonio Water Co	3	08/15/80	2,500.000	2,175.000	17,544.371
	3.1	11/05/86	2,500.000	2,500.000	
	3.2	04/06/88	10,000.000	12,869.371	
Santa Ana River WC	20	05/06/87	1,500.000	271.977	271.977
Southern California WC	23	12/07/88	500.000	1,695.474	1,695.474
Upland, City of	24	04/05/89	1,000.000	0	11,786.681
	24.1	06/06/90	8,000.000	11,786.681	
West End Consolidated WC	13.2	08/05/92	6,000.000	8,447.494	8,447.494
West San Bernardino CWD	25	01/10/91	3,000.000	2,705.226	2,705.226
Watermaster	29	08/05/92	10,000.000	36,620.946	36,620.946
Total			296,523.843	182,705.570	182,705.570

**APPENDIX H - Continued**

**LOCAL GROUNDWATER STORAGE ACCOUNT STATUS  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

**Overlying (Non-Agricultural) Pool**

Entity	No.	Date of Agreement(s)	Amount of Agreement(s)	Amount in Storage	Total
Ameron Steel	6	03/30/83	100.000	100.000	1,271.538
	6.1	04/06/88	500.000	500.000	
	6.2	08/05/92	500.000	671.538	
Calmat Properties Group	1	06/30/79	1,589.220	1,589.220	6,635.050
	1.1	05/30/84	1,589.220	1,589.220	
	1.2	02/07/90	1,589.220	3,456.610	
Kaiser Ventures, Inc.	9.1	10/07/87	15,000.000	3,391.770	3,391.770
Praxair, Inc.	8.2	04/06/88	3,000.000	2,554.196	2,554.196
Reliant Energy, Etiwanda	14.1	04/06/88	5,000.000	6,287.041	6,287.041
Space Center Mira Loma	4	03/31/82	100.000	100.000	460.019
	4.1	11/05/86	200.000	360.019	
Sunkist Growers Inc.	7	03/31/83	2,500.000	2,500.000	6,805.732
	7.1	11/05/86	5,000.000	4,305.732	
Swan Lake	21	05/06/87	300.000	300.000	1,670.636
	21.1	05/06/91	500.000	1,370.636	
West Venture Development	**			15.657	15.657
Total			37,467.66	29,075.982	29,091.639

\* Total Agreements now reflects the actual amount of storage agreements entered into where storage occurred. The agreements that expired during the last 5-year that were never utilized have been removed from the list.

\*\* On October 9, 1992, West Venture Development notified Watermaster of its intent to abandon the overlying water right of 15.657 acre-feet. The company developed the land into approximately 33 lots and sold all lots.

**APPENDIX I-1**

**RECAPTURES, SALES, AND LEASES  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

From	To	Use*	Lease	Sale	Recapture
Chino Hills, City of	Ontario, City of	2		9,000.000	
Cucamonga CWD	Fontana Water Company	2		9,173.565	
Cucamonga CWD	Jurupa CSD	2		3,000.000	
Cucamonga CWD	Mountain Vista Power**	1		750.000	
Cucamonga CWD	Ontario, City of	2		2,200.000	
Cucamonga CWD	Ontario, City of	2		1,715.632	
Marygold Mutual Water Co	Fontana Water Company	2		1,200.000	
Monte Vista Water District	Monte Vista Water District	2			122.557
Monte Vista Water District	Ontario, City of	2	500.000		
Pomona, City of	Reliant Energy, Etiwanda	1	2,500.000		
San Antonio Water Co	Ontario, City of	2	2,500.000		
San Antonio Water Co	Chino, City of	1		1,500.000	
San Antonio Water Co	Jurupa CSD	2		325.000	
Santa Ana River Water Co	Jurupa CSD	2	1,200.000		
Total			6,700.000	28,864.197	122.557

Use\*

- (1) Placed in storage
- (2) Offset production
- (3) Satisfy replenishment

\*\* Mountain Vista Power Generation Company is now Reliant Energy, Etiwanda.

**APPENDIX I-2**

**ASSIGNMENTS  
FISCAL YEAR 1998-99  
(ACRE-FEET)**

To	From	Amount	Total Amount
Chino, City of	County of San Bernardino Department of Airports	133.870	133.870
Fontana Water Company	Praxair Incorporated	179.690	1,479.690
	California Steel Industries	1,300.000	
Jurupa CSD	Swan Lake Mobile Home Park	332.648	426.618
	Space Center Mira Loma	93.970	
Ontario, City of	Sunkist Growers, Inc.	1,648.854	1,648.854*
Total		3,689.032	3,689.032

\* Subject to change due to the discrepancy between reported numbers from Ontario and Sunkist.

**APPENDIX J**

**NEW PARTY INTERVENTIONS  
APPROVED IN  
FISCAL YEAR 1998-99**

**Overlying (Agricultural) Pool**

None

**Overlying (Non-Agricultural) Pool**

None

**Appropriative Pool**

None

APPENDIX K

CHINO BASIN WATERMASTER'S  
"NOTICE OF INTENT" TO CHANGE THE OPERATING SAFE YIELD  
OF THE CHINO GROUNDWATER BASIN  
FISCAL YEAR 1998-99

PLEASE TAKE NOTICE that on this 30th day of June 1999, Chino Basin Watermaster hereby files this 'NOTICE OF INTENT' to change the operating safe yield of the Chino Groundwater Basin pursuant to the Judgment entered in Chino Basin Municipal Water District v. City of Chino, et al., San Bernardino Superior Court, Case No. RCV 51010 (formerly Case No. 164327) (Exhibit I, Paragraph 2b, Page 80).

Approved by the  
Watermaster Advisory Committee

CHINO BASIN WATERMASTER

By: *Robert DeLoach*  
Chairman

By: *Robert Neufeld*  
Robert Neufeld, President

ATTEST:

By: *Josephine Johnson*  
Josephine Johnson, Secretary



**APPENDIX L**  
**COMPREHENSIVE ANNUAL FINANCIAL REPORT**  
**FISCAL YEAR 1998-99**

**ON FILE AT WATERMASTER OFFICES**