



**WATER PLANNING COMMITTEE**

AGENDA FOR

**MAY 27, 2010**

Javier Saunders – Chair  
Rua Petty – Vice Chair  
Betty Ferguson – Vice Chair  
Marilyn Dailey  
Lynne Heidel  
Keith Lewinger  
Bud Lewis

John Linden  
Barry Martin  
Dan McMillan  
Mark Muir  
Fern Steiner  
Mark Watton

1. Roll call – determination of quorum.
2. Additions to agenda (Government Code Section 54954.2(b)).
3. Public comment – opportunities for members of the public to address the Committee on matters within the Committee’s jurisdiction.
4. Chair’s report.  
4-A Directors’ comments.

**I. CONSENT CALENDAR**

**II. ACTION/DISCUSSION**

1. Drought Management Plan.  
1-A Water supply conditions. (Information)

Lesley Dobalian

- 1-B Shortage management actions for fiscal year 2011 in response to supply cutbacks from Metropolitan Water District. Dana Frieauf
- Staff recommendation: In response to Metropolitan Water District's April 2010 action to remain at Water Supply Allocation Plan Level 2 in fiscal year 2011 and the need to manage dry-year supplies for future years, staff is recommending that the Water Authority:
1. Continue to allocate supplies to member agencies in accordance with the Drought Management Plan;
  2. Remain at Level 2, "Drought Alert" condition, consistent with the Water Authority's Drought Response Conservation Program Ordinance; and
  3. Do not withdraw dry-year supplies from carryover storage or utilize additional dry-year transfers. (Action)

**III. INFORMATION**

1. Status report on the Carlsbad Desalination Project progress. Ken Weinberg/  
Robert Yamada
2. Fiscal Year 2010 Water Supply Allocations monitoring. Dave Fogerson  
(pickup packet)
3. Water Resources report. Ken Weinberg

**IV. CLOSED SESSION**

**V. ADJOURNMENT**

Doria F. Lore  
Clerk of the Board

**NOTE:** This meeting is called as a Water Planning Committee meeting. Because a quorum of the Board may be present, the meeting is also noticed as a Board meeting. Members of the Board who are not members of the Committee may participate in the meeting pursuant to Section 2.00.060(g) of the Authority Administrative Code (Recodified). All items on the agenda, including information items, may be deliberated and become subject to action. All public documents provided to the committee or Board for this meeting including materials related to an item on this agenda and submitted to the Board of Directors within 72 hours prior to this meeting may be reviewed at the San Diego County Water Authority headquarters located at 4677 Overland Avenue, San Diego, CA 92123 at the reception desk during normal business hours.



May 19, 2010

**Attention: Water Planning Committee**

**Water Supply Conditions (Information)**

**Purpose**

To provide a status report on water supply conditions.

**Background**

*Drought Management Plan: Stage 3 “Mandatory Cutbacks”*

*Drought Response Level: Level 2 “Drought Alert”*

**Discussion**

State Water Project

The California Department of Water Resources’ (DWR) increased the calendar year 2010 State Water Project Table A allocation on May 4, 2010 to 40 percent, up from the initial allocation of five percent. DWR plans to announce a final allocation at the end of May.

Hydrologic conditions have improved following a series of late season storms in April and early May. Snowpack water content statewide is 162 percent of normal, as of May 13, 2010. The Northern Sierra 8-Station precipitation index for water year 2010 is at 108 percent of average, as of May 13, 2010. Water year 2010 extends from October 1, 2009, through September 30, 2010. Runoff to the Feather River at Oroville is forecast as of May 1 to be 106 percent of average from April through July, but only 75 percent for the water year.

Reservoir storage levels on May 16, 2010, are shown in the table below:

Reservoir	Storage (Million Acre-feet)	Percent of Capacity	Percent of Average
Shasta	4.48	98	112
Oroville	2.36	67	78
San Luis	1.55	76	87

Colorado River

The Lower Colorado’s water supply conditions on May 17, 2010, are as follows:

- Lower Colorado River water year precipitation to date: 89 percent of normal
- Current Basin snowpack: 81 percent of normal
- Lake Powell projected water year 2010 unregulated inflow: 68 percent of normal

Metropolitan Water District of Southern California Water Surplus and Drought Management Planning  
 Information on MWD’s supplies for calendar year 2010 is contained in this month’s Water Planning Committee Board memo, *Approval of Shortage Management Actions for Fiscal Year 2011 in Response to Supply Cutbacks from Metropolitan Water District.*

Local Conditions

Cumulative precipitation since July 1, 2009, is as follows:

- San Diego at Lindbergh Field through May 16, 2010: 10.52 inches, or 99 percent of normal
- Ramona at Ramona Airport through May 16, 2010: 17.35 inches, or 107 percent of normal
- Lake Henshaw through April 30, 2010: 33.33 inches, or 123 percent of normal

Local member agency reservoir storage on May 10, 2010, is at approximately 267,200 AF, which is about 47,600 AF greater compared with this time last year. Storage reflects increases primarily due to runoff, along with withdrawals that occurred during this period.

The Water Authority has the following in storage through April 30, 2010:

- Water Authority Local carryover storage: 40,900 AF
- Water Authority Semitropic groundwater storage bank: 16,117 AF

Prepared by: Lesley Dobalian, Water Resources Specialist

Reviewed by: Ken Weinberg, Director Water Resources

May 19, 2010

**Attention: Water Planning Committee**

**Approval of Shortage Management Actions for Fiscal Year 2011 in Response to Supply Cutbacks from Metropolitan Water District. (Action)**

**Staff recommendation**

In response to Metropolitan Water District's April 2010 action to remain at Water Supply Allocation Plan Level 2 in fiscal year 2011 and the need to manage dry-year supplies for future years, staff is recommending that the Water Authority:

1. Continue to allocate supplies to member agencies in accordance with the Drought Management Plan;
2. Remain at Level 2, "Drought Alert" condition, consistent with the Water Authority's Drought Response Conservation Program Ordinance; and
3. Do not withdraw dry-year supplies from carryover storage or utilize additional dry-year transfers.

**Alternative**

1. Continue to allocate supplies to member agencies, do not withdraw dry-year supplies from carryover storage, and declare Level 1, "Drought Watch".

**Fiscal Impact**

If the Water Authority exceeds its allocation from MWD in fiscal year 2011, there will be a fiscal impact associated with paying a penalty fee, which would be \$1,304 per acre-foot ( $100\% < \text{use} \leq 115\%$ ) or \$2,608 per acre-foot ( $\text{use} > 115\%$ ). Any penalties the Water Authority incurs will be passed through to member agencies that have exceeded their individual allocations.

**Background**

For the first time since 1992, MWD allocated supplies to its member agencies in fiscal year 2010, due to drought conditions and pumping restrictions on the State Water Project. In response to the supply cutbacks from MWD and recognition of the need to manage available dry-year supplies with an eye to the future, the Water Authority Board, in April 2009, took certain actions to manage the shortage. Consistent with the orderly, progressive approach to shortage outlined in the Water Authority's 2006 Drought Management Plan, the Board took the following actions: 1) Utilize 15,500 acre-feet (after losses) of dry-year transfers; 2) Do not use dry-year supplies from carryover storage; 3) Declare Level 2, "Drought Alert" condition; and 4) Allocate supplies to member agencies in fiscal year 2010.

As reported monthly to the Board, municipal and industrial (M&I) water deliveries along with the agricultural water deliveries under the Interim Agricultural Water Program (IAWP) and Transitional Special Agricultural Water Rate (TSAWR) are well below current allocation targets. As of the end of March, M&I deliveries are 20 percent or 86,000 acre-feet below the Water Authority's allocation from Metropolitan while IAWP deliveries are down 66 percent and TSAWR deliveries are down 23 percent.

Hydrologic conditions improved this past winter, with snowpack statewide, including the northern Sierra, well above average. Another below average snowpack condition could have resulted in higher cutback levels and potentially more severe water-use restrictions during fiscal year 2011. Even with the above normal snowpack, the region continues to experience unprecedented water supply challenges. Due to the prior three years being dry statewide, storage levels in Lake Oroville began the water year well below capacity. In addition, the California Department of Water Resources (DWR) forecasts that even with high snowpack, runoff into Lake Oroville will be below average. Runoff is a major factor DWR considers when determining the State Water Project allocation for the year. On May 4, 2010, DWR increased the 2010 State Water Project allocation to 40 percent. DWR will issue the final SWP allocation at the end of May, which could increase again to above 40 percent.

MWD's supplies from the State Water Project also continue to be curtailed due to pumping restrictions that are necessary to protect endangered species in the Delta. DWR estimated at the beginning of May that fishery restrictions have impacted State Water Project deliveries for 2010 by 560,000 acre-feet. This translates into approximately a 280,000 acre-feet loss to MWD this year.

In response to DWR State Water Project 2010 allocation levels being similar to last year and need to continue managing storage supplies for future years, MWD, in April 2010, took action to continue at Water Supply Allocation Plan (WSAP) Level 2 in fiscal year 2011. At the May 2010 Board meeting, MWD staff restated the position of staying at Level 2, but could potentially present a revised WSAP Level recommendation at the June 2010 meeting, based in part on the final State Water Project allocation.

Since the Water Authority continues to face the same basic supply challenges as last year, with regard to supply cutbacks from MWD, coupled with the need to manage storage reserves to alleviate potentially more severe cutbacks in the future, staff is not recommending significant changes in shortage management from fiscal year 2010 for fiscal year 2011.

## **Discussion**

In order to provide adequate time for the Water Authority and member agencies to respond to continued cutbacks from MWD starting July 1, 2010, staff is recommending the following shortage actions based on the MWD Board April 2010 action to remain at Level 2.

### Dry-year Supplies

#### *Dry-Year Transfers*

In March 2010, the Board took two actions regarding dry-year transfer supplies for fiscal year 2011. The first action involved approval of a short-term pilot project with the Santa Clara Valley Water District and San Juan Water District that will yield approximately 960 acre-feet after losses. This one-year pilot transfer could lead to larger, and potentially longer-term, dry-year transfer arrangements in the future. The other action taken by the Board was to not exercise the call rights to the dry-year transfer with the South Feather Water and Power Agency. The Board determined that the transfer was not cost-effective at this time, due to the higher cost of the supply and lower demands due to conservation efforts. Staff is currently not actively pursuing additional dry-year transfers for use in fiscal year 2011, beyond the pilot project, but will continue to monitor for opportunities that could be implemented in fiscal year 2012 or beyond.

### *Dry-Year Carryover Storage Supplies*

The Water Authority has carryover storage accounts in local member agencies reservoirs to provide dry-year supplies in shortage periods. There is currently approximately 41,000 acre-feet of dry-year, carryover supplies stored in Lower Otay, Sweetwater, El Capitan, and San Vicente reservoirs. Evaporation of the stored supplies is approximately 10 percent per year. In addition to supplies stored in local reservoirs, approximately 16,000 acre-feet of transfer supply has been stored in the Water Authority's storage account in Semitropic Water Storage District's groundwater basin in Kern County. These stored supplies, combined with supplies stored in local surface reservoirs, result in a total of approximately 57,000 acre-feet of dry-year carryover storage supplies.

Because of the multi-year nature of the water supply situation, the Water Authority may experience significant shortages in the next few years. This risk of shortage will not lessen until QSA supplies more fully ramp up, additional local supplies come on-line, and a Bay Delta solution is implemented. With the region's success in reducing demands this fiscal year expected to continue into next fiscal year, carryover supplies are not anticipated to be needed to ensure the Water Authority does not exceed its allocation from MWD. Based primarily on these factors, staff is recommending that dry-year carryover supplies not be withdrawn from storage in fiscal year 2011.

### Continue to Allocate Supplies to Member Agencies

The Water Authority's Drought Management Plan contains an allocation methodology to equitably allocate supplies to member agencies, which was first implemented in fiscal year 2010. Staff is recommending the Water Authority continue to allocate supplies to member agencies during fiscal year 2011 for the following reasons:

- MWD Board took action in April 2010, to allocate supplies to its member agencies, including the Water Authority in fiscal year 2011;
- The Water Authority will be financially penalized if deliveries exceed the allocation target from Metropolitan and requires a means to equitably pass through the penalty to member agencies; and
- Continued allocations to member agencies will assist in ensuring savings are obtained in order to maintain storage levels for subsequent years.

If the Board approves continuing to allocate supplies to member agencies in fiscal year 2011, staff will return to the Board next month with recommended fiscal year 2011 allocation targets for each of the member agencies.

### Remain at Drought Response Level 2 "Drought Alert"

With the Water Authority facing similar challenges to those experienced in 2009, with regard to cutbacks from MWD and need to manage storage supplies, staff is recommending remaining at Drought Response Level 2, "Drought Alert". Remaining at Level 2 will provide continued consistency in implementation of water-use restrictions and conservation rates. This will help ensure the Water Authority remains below its allocation from MWD through continued efficient use of supplies. Remaining at Level 2 could also help mitigate potential increases in demands in fiscal year 2011 due to potential improvements in the economy and below average rainfall. In addition, remaining at Level 2 helps manage potential multi-year cutbacks by minimizing the potential for more drastic cutbacks in later years.

Taking into account MWD WSAP Level 2 deliveries, anticipated increase in local supply use this coming fiscal year, and staff- recommended shortage management actions, staff anticipates the same regional cutback level as fiscal year 2010 of approximately eight percent. This cutback level will vary by member agency depending on their local supply usage.

Should the MWD Board revise the fiscal year 2011 WSAP Level in June, staff will return to the Board in June with a discussion on potential modifications, if any, to the recommendations contained in this memo.

Prepared by: Dana L. Frieauf, Principal Water Resources Specialist

Reviewed by: Ken Weinberg, Director of Water Resources

Approved by: Sandra L. Kerl, Deputy General Manager





May 19, 2010

**Attention: Water Planning Committee**

**Status Report on the Carlsbad Desalination Project Process (Information)**

**Purpose**

The purpose of this report is to provide information on the status of the process for the implementation of the Carlsbad Desalination Project.

**Background**

The Carlsbad Desalination Project (Project) is a seawater desalination plant currently being developed by Poseidon Resources (Poseidon). The Project has a production capacity of 56,000 acre-feet annually and is located at the Encina Power Station in Carlsbad. The Project is fully permitted. Between 2004 and 2007, Poseidon executed water purchase agreements with nine local water agencies (Desal Partners), fully subscribing water produced by the Project. The nine agencies include the City of Carlsbad, City of Oceanside, Olivenhain Municipal Water District, Rainbow Municipal Water District, Rincon Del Diablo Municipal Water District, Santa Fe Irrigation District, Sweetwater Authority, Vallecitos Water District, and Valley Center Municipal Water District. These agreements are currently being updated to clarify final design, financing and operation details that have evolved since the original water purchase agreements were signed. Poseidon is currently in the process of finalizing an EPC (Engineering, Procurement and Construction) contract for design and construction of the Project, including a pumping facility and conveyance pipeline that will deliver product water to the Water Authority's Second Aqueduct where it will be wheeled and delivered to the Desal Partners. The total cost of the Project is estimated to be \$646 million. Poseidon plans to finance the Project through a combination of debt and equity. In January 2010, Poseidon received approval to finance the Project using tax-exempt debt allocated by the State of California through the California Debt Limit Allocation Committee (CDLAC). The initial credit rating by Standard & Poor's of the project financing was investment grade BBB-.

**Discussion**

Water Authority staff and Board members have provided significant support to the Carlsbad Desalination Project over the last several years as the project proponents have moved through the permitting and regulatory approval process. Water Authority staff has worked closely with the Desal Partner agencies and Poseidon on issues pertaining to the delivery of desalinated water, utilization of Water Authority facilities as well as facilitation of the processing and approval of the MWD Seawater Desalination Program (SDP) incentive funding agreement. In order to close financing, Poseidon must amend all nine water purchase agreements with the Desal Partner agencies to reflect the latest details of the Project and business arrangements. It is also required by MWD that language from the SDP incentive agreement be incorporated into the water purchase agreements between Poseidon and the nine member agencies. To date, only Carlsbad has conditionally approved a revised water purchase agreement. The other eight agencies are in various stages of determining when to bring those agreements forward to their respective Boards or City Council.

Additionally, Poseidon is finalizing key financial documents and engineering reports required to close financing and is seeking commitments from equity investors to fund 25 percent of the estimated \$646 million capital cost of the project. Poseidon is also seeking two additional ratings from Moody's and Fitch. Poseidon must return to the California Infrastructure Bank for final approval before they undertake bond marketing activities.

Some months ago, Poseidon informed the Water Authority that a condition of project financing would be execution of agreements with the Water Authority. These agreements include the following:

- 1) **A Uniform Conveyance and Exchange Agreement** – Agreements between the Water Authority and each of the Desal Partner agencies establishing uniform criteria for the conveyance, exchange, and delivery of product water from the Project.
- 2) **A Facility Connection Agreement** – An agreement that will establish cost and implementation responsibility for the design and construction of new facilities required to convey product water from the Carlsbad Desalination Project using the Water Authority's aqueduct system.
- 3) **A Water Authority Incentive Funding Agreement** – The Desal Partner agencies have applied for funding under the Water Authority's Local Water Supply Development Program (LWSDP). That program provides incentive funding of up to \$200 per acre-foot for member agency development of local supply projects.

Poseidon initially requested that all three agreements be complete and approved by the Water Authority Board at the May 24, 2010, meeting. Water Authority staff and Poseidon developed a detailed schedule to meet that goal that included specific deliverables, decision points, and other milestones. It was necessary for the Water Authority and Poseidon as well as the Desal Partner agencies to work diligently to maintain that schedule. Many Water Authority staff members have dedicated significant time to working on all three of these agreements and it has been considered as a top priority for staff. As part of the Water Authority staff evaluation of the LWSDP application, Poseidon provided project financial information on April 9, 2010 and then again submitted a revised version on May 5, 2010. Poseidon has been forthcoming with all information needed to evaluate and address these requests and General Managers from the Desal Partner agencies have made themselves available on numerous occasions to discuss pertinent issues and seek resolution.

Because of the complexity of the agreements involved and the need to fully analyze the issues associated with each, it is not possible to complete the agreements in time for the May Board meeting. Since eight of the nine member agencies have yet to approve revised Water Purchase Agreements and Poseidon has not finalized its key financial documents, Poseidon has indicated that they will be requesting an additional extension from CDLAC for the bond issuance. That extension will allow Water Authority staff, the Desal Partner agencies, and Poseidon to continue to address the issues in the three agreements. A summary of the agreements and key provisions follow.

### **Uniform Conveyance and Exchange Agreement**

In May 2009, the Water Authority Board adopted a policy regarding the use of Water Authority facilities to convey local supplies. The need to develop this policy was prompted by discussions between the Water Authority, the Desal Partners, and Poseidon. Poseidon and the Desal Partners desire to utilize the Water Authority's facilities to convey and exchange product water from the Project. Using the adopted policy, staff has been working with the Desal Partners and Poseidon to develop a uniform agreement that could be executed with each agency. The agreements would establish the terms and conditions for the use of Water Authority facilities to deliver and exchange product water from the Project. The agreements will be consistent with the adopted Board policy.

### **Facility Connection Agreement**

Concepts for the conveyance of desalinated water from the Project were initially discussed between Poseidon and the Desal Partners in 2007. The early planning focused on options that would deliver most of the product water through a complex and expensive system of pump stations, pipelines and direct connections to local distribution systems owned by the Desal Partner agencies. As planning efforts matured in mid to late 2009, Poseidon and the Desal Partners agreed upon a more straightforward system that delivered up to 85% of the product water through the Water Authority's Second Aqueduct. Once the agencies and Poseidon finalized their delivery regime in late 2009 it was necessary to identify the specific facility requirements needed to pump 50 million gallons per day into the Second Aqueduct.

The Facility Connection Agreement is needed to define the new facilities and right of way that are required to connect, measure, and control the rate of flow of product water conveyed by the Water Authority's aqueduct system, as well as the cost and implementation responsibility between Poseidon and the Water Authority for designing and constructing the new facilities.

Of primary concern when a new supply is pumped into the aqueduct is the integrity of the system from both a structural and water quality perspective. Staff has been working with Poseidon on identifying various system configurations including construction of a new storage tank or utilization of existing clearwells at the Twin Oaks Valley Water Treatment Plant (TOVWTP) to mitigate system integrity and water quality concerns. In an effort to reduce the cost of the connection, Water Authority staff identified a configuration that would entail delivery into Pipeline 3 on the Second Aqueduct in San Marcos and transportation north to the TOVWTP. Desalinated water would then be blended with imported water treated at TOVWTP and delivered to the Desal Partner member agencies through Pipeline 4 on the Second Aqueduct.

Under the terms envisioned for the Agreement, Poseidon will be responsible for the cost of planning, design, and construction of all new facilities required connecting to and using the aqueduct system for conveyance of product water.

### **Water Authority Incentive Funding Agreement**

In February 2008, the Board of Directors extended eligibility for the LWSDP to brackish and seawater desalination projects. The eligibility criteria for the program requires that the project offset a present or future demand on the Water Authority for imported water and demonstrate a financial need on the part of the member agency. Financial need is defined as the per acre foot cost to the member agency being greater than the Water Authority's treated water rate for

Municipal & Industrial customers. If a project qualifies for the program, the Water Authority will provide an incentive of up to \$200 per acre foot over the Water Authority's treated water rate for a term of up to 25 years.

The Desal Partner agencies submitted an application to the Water Authority for LWSDP funding in February 2010. Water Authority staff has evaluated the Desal Partners application for funding and has determined that the agencies are requesting funding over and above what staff believes the project qualifies for under the Board approved program guidelines. Staff and representatives from the Desal Partners have met to discuss the application and staff will return to the Board with a recommendation on the appropriate amount of financial assistance from the Water Authority.

### **MWD Seawater Desalination Program (SDP) Incentive**

In November 2009, the MWD Board of Directors approved an agreement with the nine Desal Partner agencies and the Water Authority to provide up to \$250/AF in incentives for a term of 25 years. That could result in a maximum amount of \$14 million annually or \$350 million over the term of the agreement. Based on its rate projections, Poseidon estimates that the project will qualify for approximately 16 years at estimated cost of \$200 million.

In July 2005, the MWD Board approved the inclusion of Rate Structure Integrity (RSI) language in local projects and conservation funding agreements between MWD and its member agencies and sub-agencies. In summary, the RSI language allowed the MWD General Manager to terminate an incentive or funding agreement in the event a member agency legally or legislatively challenged the MWD rate structure. In November 2009, the MWD Board added additional language to the Carlsbad SDP agreement that provided the ability to terminate an incentive agreement if a Board member representing an MWD member agency votes with the majority to discontinue the local projects incentive program, discontinue or change the imposition method of the Water Stewardship Charge. At that November 2009 MWD Board meeting, representatives of Poseidon confirmed that the proposed language would not impede their ability to gain financing.

Concurrent with their request for LWSDP funding, the Desal Partner agencies and Poseidon have asked the Water Authority to address the risk of MWD termination of the incentive agreement by guaranteeing the replacement of the remaining funding amounts anticipated under the SDP. They have stated that inclusion of the language by MWD has created an unacceptable financing risk for lenders and investors. Water Authority staff is evaluating different alternatives to address this issue and will return to the Board with possible courses of action at the Special June Board meeting.

Prepared by: Robert Yamada, Water Resources Manager  
Prepared & Reviewed by: Ken Weinberg, Director of Water Resources  
Reviewed by: Maureen A. Stapleton, General Manager

May 19, 2010

**Attention: Water Planning Committee**

**Water Resources Report**

**Purpose**

This report includes the following exhibits for April 2010:

- Rainfall totals for the month and water year to date
- Deliveries to Member Agencies (Exhibit A)
- Water Use by Member Agencies (Exhibit B)
- Storage Available to Member Agencies (Exhibit C)
- Firm Water Deliveries to Member Agencies (Exhibit D)
- Summary of Water Authority Member Agency Operations (Exhibit E)

<b>RAINFALL TOTALS (inches)</b>						
<b>Station</b>	<b>April 2010</b>		<b>2009-2010 WATER YEAR (October 2009 through September 2010)</b>			
	<b>Actual</b>	<b>Normal</b>	<b>Actual</b>	<b>Normal</b>	<b>Departure</b>	<b>% Normal</b>
Lindbergh Field (N.O.A.A.)	<b>1.78</b>	<b>0.75</b>	<b>10.52</b>	<b>10.15</b>	<b>0.37</b>	<b>104</b>
Lake Cuyamaca (Helix W.D.)	<b>5.77</b>	<b>2.58</b>	<b>38.67</b>	<b>32.04</b>	<b>6.63</b>	<b>121</b>
Lake Henshaw (Vista I.D.)	<b>3.41</b>	<b>1.78</b>	<b>31.90</b>	<b>25.38</b>	<b>6.52</b>	<b>126</b>

Sources: National Weather Service, Helix Water District, Vista Irrigation District.

# MONTHLY WATER RESOURCES REPORT

## Water Deliveries to Member Agencies

(acre-feet)

### APRIL 2010

AGENCY	April		12 Months Ended April	
	2010	2009	2010	2009
Carlsbad M.W.D.	1,151.3	1,753.8	17,246.4	20,357.6
Del Mar, City of	86.6	95.6	1,138.7	1,223.8
Escondido, City of	1,346.4	2,362.7	19,757.2	21,708.1
Fallbrook P.U.D.	814.9	1,645.4	13,044.7	16,119.0
Helix W.D.	2,292.2	3,282.5	31,976.0	46,196.9
Lakeside W.D.	153.0	298.6	3,372.3	4,100.8
National City, City of <sup>1</sup>	103.8	314.0	2,939.1	4,227.6
Oceanside, City of	1,556.8	2,566.1	25,564.0	31,295.1
Olivenhain M.W.D.	1,292.1	1,857.4	19,897.1	24,355.8
Otay W.D.	2,007.0	2,656.0	31,242.5	35,919.8
Padre Dam M.W.D.	810.4	1,113.6	12,637.2	15,182.2
Pendleton Military Reservation	5.3	5.5	63.3	87.9
Poway, City of	621.2	1,020.1	10,996.5	14,805.2
Rainbow M.W.D.	1,131.8	2,439.1	23,038.6	26,077.6
Ramona M.W.D.	560.7	454.1	7,592.6	8,331.6
Rincon Del Diablo M.W.D.	369.7	584.7	6,353.1	7,763.0
San Diego, City of <sup>1</sup>	13,411.8	18,572.7	185,329.3	204,012.3
San Dieguito W.D.	113.3	89.6	2,345.8	4,199.6
Santa Fe I.D.	297.3	470.9	5,544.9	8,779.5
South Bay I.D. <sup>1</sup>	732.9	2,249.8	11,718.4	17,294.5
Vallecitos W.D.	1,025.1	1,472.7	16,389.2	19,917.2
Valley Center M.W.D.	1,249.6	2,863.2	30,138.1	35,047.8
Vista I.D.	1,293.3	1,344.1	15,921.0	15,757.4
Yuima M.W.D.	18.1	65.4	2,597.2	2,304.1
Deliveries To SDCWA Agencies <sup>1</sup>	32,444.6	49,577.6	496,843.2	585,064.4
Deliveries To SDCWA Storage <sup>2</sup>	301.6	1,097.0	1,265.6	20,219.4
<b>TOTAL MEMBER AGENCY DELIVERIES</b>	<b>32,143.0</b>	<b>48,480.6</b>	<b>495,577.6</b>	<b>564,845.0</b>
Deliveries To Other Agencies	76.0	62.7	691.2	871.2
Deliveries From SDCWA Storage	0.0	0.0	0.0	0.0

<sup>1</sup> April 2010 deliveries to SDCWA storage accounts include 301.6 AF to city of San Diego reservoirs. March 2009 deliveries to SDCWA accounts include 1,009.8 AF to Sweetwater Reservoir and 87.2 AF to city of San Diego reservoirs.

<sup>2</sup> Deliveries to SDCWA storage accounts are deducted to calculate member agency deliveries.



**Water Resources Department**

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**MONTHLY WATER RESOURCES REPORT**  
**Estimated Water Use by Member Agency**  
 (acre-feet)

**APRIL 2010**

AGENCY	Imported Source S.D.C.W.A.		Local Sources						April Totals	
	2010	2009	Surface Water		Groundwater		Reclaimed Water		2010	2009
			2010	2009	2010	2009	2010	2009		
Carlsbad M.W.D. (estimated)	1,225.3	1,650.8	0.0	0.0	0.0	0.0	223.9	396.2	1,449.2	2,047.0
Del Mar, City of	86.6	95.6	0.0	0.0	0.0	0.0	5.1	7.0	91.7	102.6
Escondido, City of	1,470.6	2,236.5	0.0	58.7	0.0	0.0	16.5	34.4	1,487.1	2,329.6
Fallbrook P.U.D. <sup>1</sup>	763.4	1,317.3	0.0	0.0	0.0	0.0	32.0	64.8	795.4	1,382.1
Helix W.D.	2,223.0	2,959.0	0.8	10.7	2.3	0.0	0.0	0.0	2,226.1	2,969.7
Lakeside W.D.	153.0	298.6	0.0	0.0	58.1	75.4	0.0	0.0	211.1	374.0
National City, City of <sup>2</sup>	115.0	314.0	16.4	0.0	280.9	129.2	0.0	0.0	412.3	443.2
Oceanside, City of <sup>2</sup>	1,556.8	2,566.1	0.0	0.0	312.5	146.0	0.0	0.0	1,869.3	2,712.1
Olivenhain M.W.D.	1,292.1	1,857.4	0.0	0.0	0.0	0.0	78.1	110.3	1,370.2	1,967.7
Otay W.D.	2,007.0	2,656.0	0.0	0.0	0.0	0.0	197.5	311.0	2,204.5	2,967.0
Padre Dam M.W.D.	781.7	1,108.8	0.0	0.0	0.0	0.0	28.1	47.8	809.8	1,156.6
Pendleton Military Reservation <sup>3</sup>	81.3	68.2	0.0	0.0	650.0	699.1	232.0	124.0	963.3	891.3
Poway, City of	645.3	1,016.8	25.9	25.4	0.0	0.0	0.0	0.0	671.2	1,042.2
Rainbow M.W.D.	1,086.8	2,510.1	0.0	0.0	0.0	0.0	0.0	0.0	1,086.8	2,510.1
Ramona M.W.D.	329.4	565.9	0.0	0.0	0.0	0.0	33.4	72.4	362.8	638.3
Rincon Del Diablo M.W.D.	369.7	584.7	0.0	0.0	0.0	0.0	248.6	121.0	618.3	705.7
San Diego, City of	13,086.8	16,162.5	481.2	831.7	0.0	0.0	500.0	480.1	14,068.0	17,474.3
San Dieguito W.D.	113.3	89.6	338.1	490.3	0.0	0.0	27.9	69.2	479.3	649.1
Santa Fe I.D.	297.8	469.1	582.6	714.2	0.0	0.0	79.1	101.2	959.5	1,284.5
South Bay I.D. <sup>2</sup>	811.8	1,240.0	115.5	0.0	213.8	174.4	0.0	0.0	1,141.1	1,414.4
Vallecitos W.D.	1,050.5	1,512.4	0.0	0.0	0.0	0.0	0.0	0.0	1,050.5	1,512.4
Valley Center M.W.D.	1,249.6	2,863.2	0.0	0.0	0.0	0.0	34.0	34.0	1,283.6	2,897.2
Vista I.D.	1,293.3	1,344.1	0.0	466.0	0.0	0.0	0.0	0.0	1,293.3	1,810.1
Yuima M.W.D.	18.1	65.4	0.0	0.0	76.4	144.2	0.0	0.0	94.5	209.6
<b>TOTAL USE</b>	<b>32,108.2</b>	<b>45,552.1</b>	<b>1,560.5</b>	<b>2,597.0</b>	<b>1,594.0</b>	<b>1,368.3</b>	<b>1,736.2</b>	<b>1,973.4</b>	<b>36,998.9</b>	<b>51,490.8</b>
<b>PERCENT CHANGE</b>	<b>-30%</b>		<b>-40%</b>		<b>16%</b>		<b>-12%</b>		<b>-28%</b>	

<sup>1</sup>De Luz figures included in Fallbrook P.U.D. total.

<sup>2</sup>Brackish groundwater use included in groundwater totals.

<sup>3</sup>Pendleton's imported water use includes water delivered by South Coast Water District.

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**Water Resources Department**

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## MONTHLY WATER RESOURCES REPORT

## Reservoir Storage

(acre-feet)

APRIL 2010

MEMBER AGENCY	Reservoir	Capacity	% of		% of		Change During Month
			APRIL 2010	Capacity	APRIL 2009	Capacity	
Carlsbad M.W.D.	Maerkle	600	360	60%	413	69%	(76)
Escondido, City of <sup>1</sup>	Dixon	2,606	2,359	91%	2,523	97%	73
	Wohlford	6,506	2,460	38%	2,615	40%	112
<b>Subtotal</b>		<b>9,112</b>	<b>4,819</b>	<b>53%</b>	<b>5,138</b>	<b>56%</b>	<b>185</b>
Fallbrook P.U.D.	Red Mountain	1,335	648	49%	1,126	84%	45
Helix W.D.	Cuyamaca	8,195	1,854	23%	1,086	13%	(1,033)
	Jennings	9,790	9,056	92%	9,021	92%	62
<b>Subtotal</b>		<b>17,985</b>	<b>10,909</b>	<b>61%</b>	<b>10,107</b>	<b>56%</b>	<b>(972)</b>
Poway, City of	Poway	3,330	3,078	92%	3,144	94%	(12)
Rainbow M.W.D.	Beck	625	152	24%	255	41%	47
	Morro Hill	465	128	28%	54	12%	23
<b>Subtotal</b>		<b>1,090</b>	<b>280</b>	<b>26%</b>	<b>309</b>	<b>28%</b>	<b>70</b>
Ramona M.W.D.	Ramona	12,000	3,999	33%	3,539	29%	202
San Diego, City of <sup>2</sup>	Barrett	37,947	33,239	88%	26,465	70%	1,124
	El Capitan	112,807	64,729	57%	51,288	45%	3,463
	Hodges	30,251	20,231	67%	20,429	68%	(358)
	Lower Otay	49,510	29,768	60%	27,170	55%	169
	Miramar	7,184	5,329	74%	5,465	76%	(27)
	Morena	50,206	10,283	20%	6,709	13%	2,176
	Murray	4,818	4,075	85%	4,010	83%	(85)
	San Vicente	89,312	23,796	27%	26,895	30%	(722)
<b>Subtotal</b>		<b>411,719</b>	<b>200,295</b>	<b>49%</b>	<b>172,236</b>	<b>42%</b>	<b>6,640</b>
San Dieguito W.D./Santa Fe I.D.	San Dieguito	883	706	80%	558	63%	211
Sweetwater Authority	Loveland	25,400	13,776	54%	11,710	46%	1,140
	Sweetwater	28,079	12,513	45%	6,370	23%	38
<b>Subtotal</b>		<b>53,479</b>	<b>26,289</b>	<b>49%</b>	<b>18,080</b>	<b>34%</b>	<b>1,178</b>
Valley Center M.W.D.	Turner	1,612	1,612	100%	1,612	100%	-
Vista I.D. <sup>3</sup>	Henshaw	51,774	15,100	29%	8,811	17%	1,246
<b>MEMBER AGENCY TOTAL WATER IN STORAGE</b>		<b>564,919</b>	<b>268,095</b>	<b>47%</b>	<b>225,072</b>	<b>40%</b>	<b>8,716</b>
SDCWA Accounts (Source: CWA Monthly Storage Reports)	El Capitan		14,127		13,795		(93)
	Lower Otay		6,394		7,226		(54)
	San Vicente		13,642		13,899		208
	Sweetwater		6,744		7,395		(108)
<b>Subtotal</b>			<b>40,908</b>		<b>42,315</b>		<b>(47)</b>
<b>TOTAL WATER IN STORAGE</b>		<b>564,919</b>	<b>309,002</b>	<b>55%</b>	<b>267,387</b>	<b>47%</b>	<b>8,669</b>
<b>OTHER AGENCIES</b>							
Metropolitan Water District	Skinner	44,264	37,269	84%	37,176	84%	1,217
	Diamond Valley	800,000	383,293	48%	383,987	48%	(1,192)
State Water Project	Oroville	3,521,797	2,113,554	60%	2,055,092	58%	264,360
<b>TOTAL OTHER WATER IN STORAGE</b>		<b>4,366,061</b>	<b>2,534,116</b>	<b>58%</b>	<b>2,476,255</b>	<b>57%</b>	<b>264,385</b>

<sup>1</sup> City of Escondido storage does not include water allocated to Escondido Mutual Water Company or its rights to a portion of the unallocated water in Lake Henshaw.

<sup>2</sup> Includes reserves subject to City's outstanding commitments to the San Dieguito W.D., and the California American Mutual Water Company. SDCWA has storage contracts in City of San Diego reservoirs in the amount of 40,000 a.f. if capacity is available.

<sup>3</sup> Vista I.D. storage includes both allocated and unallocated water in Lake Henshaw.

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**MONTHLY WATER RESOURCES REPORT**  
**Estimated Tier 1 Deliveries to Member Agencies**  
 (acre-feet)

**Through April 2010**

<b>AGENCY</b>	<b>CY2010 Tier 1 Threshold <sup>1</sup></b>	<b>CYTD Firm Deliveries <sup>2</sup></b>	<b>% of Tier 1 Threshold</b>
Carlsbad M.W.D.	18,228.5	4,529.9	24.9%
Del Mar, City of	1,408.3	262.0	18.6%
Escondido, City of	23,496.9	3,448.3	14.7%
Fallbrook P.U.D.	11,716.9	1,878.3	16.0%
Helix W.D.	38,421.4	10,754.9	28.0%
Lakeside M.W.D.	4,718.2	711.7	15.1%
Oceanside, City of	28,848.1	5,604.6	19.4%
Olivenhain M.W.D.	18,876.4	4,193.7	22.2%
Otay W.D.	32,173.0	7,220.7	22.4%
Padre Dam M.W.D.	14,310.8	2,677.7	18.7%
Pendleton M.R./South Coast	1,141.3	204.3	17.9%
Poway, City of	13,563.8	2,016.3	14.9%
Rainbow M.W.D.	23,470.5	2,746.9	11.7%
Ramona M.W.D.	8,067.0	2,078.4	25.8%
Rincon Del Diablo M.W.D.	7,307.0	1,263.4	17.3%
San Diego, City of	215,438.4	44,267.1	20.5%
San Dieguito W.D.	4,692.0	554.0	11.8%
Santa Fe I.D.	7,882.8	758.0	9.6%
Sweetwater Authority	13,094.7	3,459.2	26.4%
Vallecitos W.D.	14,476.9	3,575.2	24.7%
Valley Center M.W.D.	24,801.0	3,103.4	12.5%
Vista I.D.	17,550.5	4,569.2	26.0%
Yuima M.W.D.	94.0	8.2	8.7%
<b>MEMBER AGENCY TOTAL</b>	<b>543,778.4</b>	<b>109,885.4</b>	<b>20.2%</b>
<b>Less: QSA deliveries calendar year to date</b>		<b>(49,233.3)</b>	
<b>Plus: CWA purchases for own account <sup>3</sup></b>		<b>904.3</b>	
<b>Estimated Tier 1 deliveries calendar year to date</b>		<b>61,556.4</b>	<b>11.3%</b>

<sup>1</sup>Tier 1 threshold is equal to all firm deliveries up to 90% of a member agency's historic maximum year firm demand.

<sup>2</sup> Firm deliveries are net of IAWP certifications received.

<sup>3</sup> Includes forced deliveries and deliveries made through temporary carryover storage agreements.

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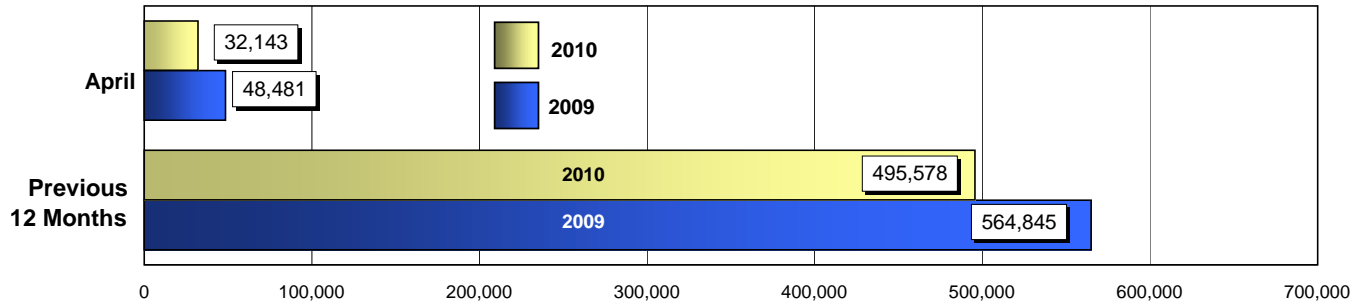


# MONTHLY WATER RESOURCES REPORT

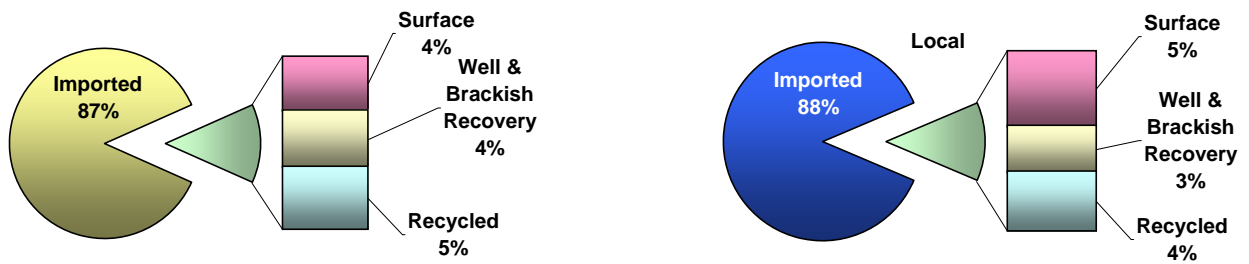
## Summary of Water Authority Member Agency Operations

APRIL 2010

### Member Agency Deliveries (AF)



### Member Agency Water Use



APRIL 2010

Previous 12 Months

### Member Agency Storage (AF)

