

# Board Meeting Agenda

Revised 3/3/17 4:20 p.m.

Russ Baggerly, Director  
Mary Bergen, Director  
Bill Hicks, Director

Pete Kaiser, Director  
James Word, Director

CASITAS MUNICIPAL WATER DISTRICT  
1055 Ventura Ave.  
Oak View, CA 93022  
Board Room  
March 8, 2017  
3:00 P.M.

**Right to be heard:** Members of the public have a right to address the Board directly on any item of interest to the public which is within the subject matter jurisdiction of the Board. The request to be heard should be made immediately before the Board's consideration of the item. No action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of ¶54954.2 of the Government Code and except that members of a legislative body or its staff may briefly respond to statements made or questions posed by persons exercising their public testimony rights under section 54954.3 of the Government Code.

1. Public Comments (items not on the agenda – three minute limit).
2. General Manager comments.
3. Board of Director comments.
4. Board of Director Verbal Reports on Meetings Attended.
5. Consent Agenda
  - a. Minutes from February 22, 2017.
  - b. Recommend approval of a purchase order to a purchase order to Time Clock Plus in the amount of \$22,545.32 for Time Clock purchase and implementation for Seasonal and Part Time employees.
  - c. Recommend approval if a purchase order to ERS Industrial Services Inc. in the amount of \$48,698.25 for removal, cleaning and reinstallation of media in pressure filter #5.

RECOMMENDED ACTION: Adopt Consent Agenda

6. Review of District Accounts Payable Report for the Period of 2/16/17 – 3/02/17.

RECOMMENDED ACTION: Motion approving report

7. Resolution adopting the Notice of Exemption for the Upper Rincon Main Replacement.

RECOMMENDED ACTION: Adopt Resolution

8. Resolution awarding a contract for the District Office Remodel Specification 17-392 to Staples Construction Inc. of Ventura in the amount of \$960,685.30.

RECOMMENDED ACTION: Adopt Resolution

9. Recommend approval of an agreement for Professional Services for the development of a computerized maintenance management system – authorize the General Manager to enter into an agreement for the sum not to exceed \$50,000.

RECOMMENDED ACTION: Motion approving recommendation

10. Request to proceed with the hiring of Park Ranger Personnel while also proceeding with parallel timing of the policy manual finalization.

RECOMMENDED ACTION: Motion approving recommendation

11. Recommend the Board of Directors set reserves.

RECOMMENDED ACTION: Motion approving recommendation

12. Information Items:

- a. Lake Casitas Monthly Status Report for February, 2017.
- b. February, 2017 Monthly Diversions.
- c. Hydrology Report Water Year 2015 – 2016.
- d. California Department of Water Resources press release regarding Invasive Mussel Veligers detected in the Santa Ana Pipeline.
- e. Water Consumption Report.
- f. CFD No. 2013-1 (Ojai) Monthly Cost Analysis.
- g. Investment Report.

13. CLOSED SESSION

It is the intention of the Casitas Municipal Water District Board of Directors to meet in closed session to consider the following item:

- a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION  
Government Code 54956.9(d)(1): *Casitas Municipal Water District v. Golden State Water Company*, Ventura County Superior Court, Case No. 56-2016-00481628-CU-EI-VTA.

14. Adjournment

If you require special accommodations for attendance at or participation in this meeting, please notify our office 24 hours in advance at (805) 649-2251, ext. 113. (Govt. Code Section 54954.1 and 54954.2(a).

Minutes of the Casitas Municipal Water District  
Board Meeting Held  
February 22, 2017

A meeting of the Board of Directors was held February 22, 2017 at the Casitas Municipal Water District located at 1055 Ventura Ave. in Oak View, California. The meeting was called to order at 3:00 p.m. Directors Baggerly, Word, Hicks, Bergen and Kaiser were present. Also present were Steve Wickstrum, General Manager, Rebekah Vieira, Clerk of the Board, and Attorney, Robert Kwong. There were four staff members and six members of the public in attendance. President Baggerly led the group in the flag salute.

1. Public Comments (items not on the agenda – three minute limit).

Angelo Spandrio asked for an update on the HoBo project and asked that there be consideration to postpone the bathymetric study until after the rainy season to let the sediment settle down.

2. General Manager comments.

Mr. Wickstrum reported that on the HoBo project we are waiting for a schedule to be put together and will move forward with Ceqa. We are looking to put together something concise and complete to present to the Forest Service for their consideration of permitting. Mr. Wickstrum said we will look at the bathymetric study information and will work it out with the consultant.

Mr. Wickstrum then discussed the recent storm. Matilija Dam received over seven inches of rain and we had nice flows with a little over 10,000 cfs entering the facility that night. The canal was running and around 4:00 it was getting to be too muddy and we shut down the canal and opened it up at a slower pace. Our screens plugged almost instantly as there was higher sediment load in the water at that point. They cleaned up over the weekend meeting downstream flows and putting water in the canal. The turbidity is getting better. Director Kaiser said there were calls from the public as to why we were not diverting. Mr. Wickstrum explained that debris flow and stuff that clogs up the entire system and it would be shut down and cleaned up and then reopened. Trees were moving downstream on Friday. We increased Lake Casitas by about 10,000 acre feet. Approximately 30% is from the Robles Diversion. Coyote and Santa Ana are flowing nicely. We have risen about 8.5 feet in depth and gone up about 12,000 af since Thursday with 109,000 af of water in storage right now. Our crews worked 24/7 and we had no other issues except for one leak to the forest service. Director Kaiser asked that the board's appreciation be conveyed to staff. Mr. Wickstrum added that they performed very well and given it has been 10 years since we had this type of storm new personnel were instructed by long term personnel.

Mr. Wickstrum informed the board that there is a hearing on the Golden State Water Company acquisition case on Monday regarding the CEQA issue in room 41 and on Tuesday there is mediation in Los Angeles. April 17<sup>th</sup> there is another hearing.

3. Board of Director comments.

Director Bergen mentioned the Upper Ventura River GSA public hearing on March 9<sup>th</sup> at 6:30 at the community center. The regular meeting is at 1:00 that same day.

Director Word formally welcomed Michael Flood to our staff.

President Baggerly mentioned that the OBGMA Alternative Demonstration comment period was extended to April 1, 2017. To date they have received seven comment letters. There is a lot of work to do to answer the comments.

4. Board of Director Verbal Reports on Meetings Attended.

Director Hicks mentioned a speaker at Water Issues from storm water resources for Ventura County and they are looking for funding for the run off mandate.

Director Word attended AWA on Thursday and heard a report from United on where they are and what they do and the service area. Director Hicks added the other bad news in that meeting they said they are letting water out of Piru and it is going into the creek and it is contaminated with mussels.

5. Consent Agenda

ADOPTED

- a. Minutes from February 8, 2017.
- b. Recommend approval of a purchase order to Multi W Systems Inc. in the amount of \$21,000 to repair pump #3 at Avenue 2 Pump Plant.

The consent agenda was offered by Director Kaiser, seconded by Director Word and adopted by the following roll call vote:

AYES:	Directors:	Kaiser, Bergen, Hicks, Word, Baggerly
NOES:	Directors:	None
ABSENT:	Directors:	None

6. Review of District Accounts Payable Report for the Period of 2/02/17 – 2/15/17.

APPROVED

On the motion of Director Hicks, seconded by Director Bergen, the Accounts Payable report was approved by the following roll call vote:

AYES:	Directors:	Kaiser, Bergen, Hicks, Word, Baggerly
NOES:	Directors:	None
ABSENT:	Directors:	None

7. Presentation of the preliminary draft Water Rate Study by Hawksley Consulting.

Direction provided to Staff and Consultant

Mark Hildebrand provided his presentation on the preliminary draft Water Rate Study with the intent to bring this back in about a month with finally recommendations for consideration and scheduling of a Proposition 218 rate hearing. This was a workshop and not an approval of rates at this point.

Bert Rapp with Ventura River Water District stated that Casitas is one of the lowest rates and even with an increase you will still be competitive. He then mentioned that some customers do not use water except for three years out of ten and you are not collecting usage charges. He felt their fair share should be accounted for in the base charges. He added that healthy meter charge provides stable revenues. When stabilized that put costs off large customers and on the smaller customers when you increase base charges it increases costs to smaller users.

It was determined that the Finance Committee would hold a special meeting to further review the report and recommendations.

8. Recommend approval of a letter of support for the Ojai Basin Groundwater Management Agency – Alternative Demonstration. APPROVED

On the motion of Director Word, seconded by Director Kaiser, the above recommendation was approved by the following roll call vote:

AYES:	Directors:	Kaiser, Bergen, Hicks, Word, Baggerly
NOES:	Directors:	None
ABSENT:	Directors:	None

9. Recommend approval of a change in the sponsorship paid to Association of Water Agencies of Ventura County to total \$2,500 for the Annual Water Symposium. APPROVED

On the motion of Director Kaiser, seconded by Director Word, the above recommendation was approved by the following roll call vote:

AYES:	Directors:	Kaiser, Bergen, Hicks, Word, Baggerly
NOES:	Directors:	None
ABSENT:	Directors:	None

10. Recommend the Board of Directors consider being a candidate for the Association of California Water Agencies Board Member vacancy.

The board did not express any interest in filling this vacancy.

11. Information Items:

- a. Recreation Area Report for November, 2016.
- b. Recreation Area Report for December, 2016.
- c. Recreation Committee Minutes.
- d. Executive Committee Minutes.
- e. Personnel Committee Minutes.

- f. Water Conservation January, 2017 Update.
- g. Lake Casitas Monthly Status Report for January, 2017.
- h. Investment Report.

On the motion of Director Word, seconded by Director Hicks the information items were approved for filing by the following roll call vote:

AYES:	Directors:	Kaiser, Bergen, Hicks, Word, Baggerly
NOES:	Directors:	None
ABSENT:	Directors:	None

12. Adjournment

President Baggerly adjourned the meeting at 5:15 p.m.

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Bill Hicks, Secretary

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**CASITAS MUNICIPAL WATER DISTRICT  
MEMORANDUM**

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**TO:** BOARD OF DIRECTORS  
**FROM:** DENISE COLLIN – ACCOUNTING MANAGER / TREASURER  
**SUBJECT:** APPROVE PURCHASE OF TIME CLOCK PLUS FOR SEASONAL & PART TIME EMPLOYEES - \$22,545.32.  
**DATE:** 03/03/2017

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**RECOMMENDATION:**

It is recommended to approve the purchase and implementation of Time Clock Plus for Seasonal and Part Time employees.

**BACKGROUND AND OVERVIEW:**

Lake Casitas Water Adventure employs 80 to 100 seasonal employees per season, from May into September; currently manual paper time sheets are used to capture time worked for each employee. This process causes delays and long lines of employees waiting to enter their time for both clock-in and clock-out, in addition it creates double entry work as the time sheets must be manually entered into Incode's Time Entry to process the payroll. Additional time is spent by the manager to decipher the actual hand written clock-in and clock-out times.

Implementing Time Clock Plus would eliminate double entry and record actual times the employee would clock-in and clock-out. The scheduling tool Time Clock Plus offers would assist managing employee shifts and offer alerts to adhere to the required 29 hour Affordable Care Act limit.

Time Clock Plus offers both a Badge Swipe Time Clock or Bio Touch using a finger print to record clock-in and clock-out times which will expedite the process, the data is then imported directly into our current Time Entry system within Incode, greatly reducing manual data entry for both Part Time and Seasonal employees.

This purchase is not budgeted for the current year, the cost is \$22,545.32.

TimeClock Plus  
 by Data Management, Inc.  
 17 Time Clock Drive, San Angelo, TX 76904  
 325 223-9500 800 749-8463  
 sales@timeclockplus.com

Quote	Customer	Quote Date
422798	47108	03/03/2017

CUSTOMER
Casitas Municipal Water District Denise Collin (805) 649-2251 11311 Santa Ana Rd Ventura, CA 93001-9769

Rep	Entry	Method of Shipment	Method of Payment
CMARTIN	CMARTIN	UPS Ground	Purchase Order Net30

Stock No.	Ordered	Description	Unit Cost	Total
		OnDemand Annual Fee (\$7,200.00)		
1025-8030	150	TimeClock Plus Professional Annual Employee Licenses	60.00	9,000.00
		└ Municipal Discount	(12.00)	(1,800.00)
		OnDemand Activation (One Time) Fee (\$6,099.00)		
1025-1130	1	TimeClock Plus Professional Initial Activation	499.00	499.00
		└ TimeClock Plus Professional Initial Activation Discount	(250.00)	(250.00)
800-814	26	Dedicated Support Services (Per hour)	225.00	5,850.00
		Feature Package (One Time Fee) (\$4,796.00)		
1025-100	1	OnDemand Module Package	4,796.00	4,796.00
		└ MobileClock for Android and iOS (Unlimited Devices)		
		└ Advanced Scheduler (Module - PREVIEW ONLY)		
		└ Benefits Status Monitor		
		└ AutoImport Module (Versions 5/6/7)		
		└ Incode (Export Module)		
		Proximity Time Clock(s) (\$4,138.80)		
244-112	1	RDT Touch 400 HID Proximity	2,449.00	2,449.00
50-122	100	Proximity Badges - Encoded	10.00	1,000.00
1099-240	1	Hardware Maintenance (Exchange Replacement Service)	689.80	689.80
		Removing Advanced Scheduler would decrease quote by \$3,250. Only Quoted 1 clock. Shipping will be calculated when number of clocks and cards is finalized. Send Tax Certificate for Tax Exemption.		
Valid for 7 days. Expires 03/10/2017.				



Product Total:	24,283.80
Discount:	(2,050.00)
Subtotal:	22,233.80
S & H:	34.00
Tax:	277.52
Total:	22,545.32





**TimeClock Plus<sup>®</sup>**  
a better sense of time.<sup>SM</sup>



**TimeClock Plus<sup>®</sup>**  
**RDTg**

## Touch Screen

Our RDTg with touch screen is a clock device that allows your employees to clock in and out by entering a Personal Identification Number (PIN) on a 7-inch capacitive touch screen. The employee can clock in and out, change job code, go on break, and more by simply entering in the number you've assigned as their TimeClock Plus ID number.

Setup is simple. Just hang the clock on the wall, give everyone an ID number, and that's it. The RDTg is also completely modular. You can choose from a number of features to suit your organization's needs.

## Employee Self Service Features

- Go on break during a shift
- Choose/change departments during a shift
- Choose/change tasks worked during a shift
- Receive messages from management
- Track multiple shifts each day
- View hours for any pay period
- View hours this shift
- View schedule this period & next
- Make time off or schedule requests
- Approve hours
- View accruals

### Data Management, Inc.

1 TimeClock Dr., San Angelo, TX 76904  
Tel: (325) 223-9500 Sales: (800) 749-8463 Fax: (325) 223-9104  
[www.timeclockplus.com](http://www.timeclockplus.com)

## Touch Screen



## Optional Features

### Biometrics

Eliminate buddy punching by having employees clock in using their fingerprint.

### Camera

Employee pictures can be captured and stored on every clock transaction.

### Proximity Reader

Employees can perform clock operations by waving a proximity badge in front of the reader.

### Card Swipe

Employee IDs can be entered by swiping a card with a magnetic strip or barcode.

### Fallback Mode

The clock can record and store punches when it is not connected to the network and upload them to your database once the network connection has been restored.

### Battery Backup

Provides power to the clock when the primary source of power is unavailable.

### Digital Output

Triggers a device such as an electronic door lock or external bell after a clock operation or at certain times of the day.



# TimeClock Plus® Mobile Apps

## USE ANYWHERE

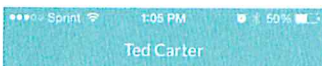
## FEATURES

TimeClock Plus Mobile is designed to deploy employee time and attendance information into the palm of your hands. This solution gives a mobile connection to your TimeClock Plus® system allowing your employees to perform clock operations whenever and wherever they need. For companies with employees on the go, TimeClock Plus Mobile eliminates timesheets, allowing higher employee productivity. Employees can perform clock operations using their mobile device to record punch transactions on the live TimeClock Plus database, without having direct access to a workstation!



- Clock In
- Clock Out
- Go on Break
- Change Job Code
- Change Cost Code (Job Costing Required)
- Tracked Field Entry
- Missed Punches
- Message Review from Management
- Manage Approvals
- GPS Enabled

## TimeClock Plus Mobile is Designed for all Android and iOS Devices



1/23/2015 01:05:04 PM

STATUS Clock'd out

CLOCK IN    CLOCK OUT

START BREAK    END BREAK

CHANGE JOB CODE

CHANGE COST CODE

View Hours

View Last Punch

1/23/2015 10:22:36 AM

STATUS Clock'd in at 01/21/2015 02:15 PM

CLOCK IN

CLOCK OUT

START BREAK

END BREAK

CHANGE JOB CODE

CHANGE COST CODE

1/23/2015 01:56:16 PM

STATUS Clock'd in at 01:45 PM

CLOCK IN    CLOCK OUT

START BREAK    END BREAK

CHANGE JOB CODE

CHANGE COST CODE

View Hours

View Last Punch

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Fax: (325) 223-9104 · www.timeclockplus.com



**TimeClock Plus®**  
a better sense of time™



# TimeClock Plus<sup>®</sup> OnDemand

## Benefits of TimeClock Plus OnDemand

### OnDemand Benefits:

- No long term commitment
- Minimal startup fees and low "Pay As You Go" monthly charges
- Free software updates and upgrades - New versions of TimeClock Plus OnDemand are deployed right away, which means you are always on the latest version
- Rapid implementation
- 100% web-based allows managers or employees to log in from anywhere or anytime with the right security credentials
- Free email/live chat support

### Our Secure Environment:

- Secure SSAE 16 Data Center
- 24x7x365 availability and monitoring
- Encrypted and secured web sessions, data storage and data transmission
- Full protection of personally identifiable information
- Daily managed backups
- A multi-tenant architecture allows for high scalability and faster innovation



**TimeClock Plus<sup>®</sup>**  
a better sense of time<sup>SM</sup>

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[www.timeclockplus.com](http://www.timeclockplus.com)

## Software-as-a-Service

TimeClock Plus OnDemand is a hosted web-based solution that utilizes the latest technology in Cloud Computing. Your organization may subscribe to TimeClock Plus OnDemand applications and services rather than install a perpetual license. That means there is no installation! All software is maintained by TimeClock Plus at our data center. Implementation is easy; all that is needed is a compatible web browser and a broadband connection to the internet.

Employees clock in to and out through our "web-based" WebClock . Your employees are able to perform needed timeclock transactions, as well as employee self-service functions from the convenience of their own computer workstation.

Managers may log into TimeClock Manager to access vital employee information needed to control labor costs, job tracking, and overtime without delay. TimeClock Plus OnDemand includes a variety of labor management tools such as the Employee Status list which offers management a "real time" snapshot of current labor operations.

Using TimeClock Plus in an OnDemand environment allows your organization to implement an employee time tracking application with availability and performance safeguards:

- business continuity
- data recovery
- scalability management
- rapid response time
- data back-up and restore
- failover procedures
- load balancing

# TimeClock Plus® RDTg Specifications

<b>Display</b>	7" 800x480 TFT LCD with PWM LED backlight, 16x9 Aspect Ratio Touchscreen: Capacitive with nontouch available
<b>Processor</b>	Freescale iMX6 Solo @ 1GHz
<b>Memory</b>	1GB DDR3 RAM, 512MB NAND Flash; expandable via uSD slot
<b>Clock</b>	Battery backed RTC, 12- or 24-hour format
<b>Keypad</b>	27 keys with tactile feedback; #0-9, 12 defined function keys, 5 navigation keys
<b>Operating System</b>	Linux OS
<b>Diagnostics</b>	Onboard diagnostics
<b>Interface</b>	Standard 10/100/1000 ethernet Optional WiFi/modem via USB installed device Standard (3) USB 2.0 ports, 1 external, 2 internal
<b>Indicators</b>	3 on Front Panel; Power, Battery, Link Status
<b>Enclosure</b>	ABS; secured with keylock
<b>Power</b>	Standard 12VDC at 1.25A maximum Optional Li-Polymer Battery Pack with 3 hour run-time
<b>Environment</b>	Operating temperature: 0 to 50C (32 to 122F) Storage temperature: -20 to 80C (-4 to 176F)
<b>Dimensions</b>	Base Display Module: 5.25"H x 7.75"W x 2.75"D With Optional Keypad Module: add 3.69"W With Optional Biometric Module: add 1.875"W With Optional Prox Card Reader Module: add 1.75"W; (Note: must be placed on end of assembly) With Optional Swipe Reader Module: add 1.19"W; (Note: must be placed on end of assembly)
<b>Certifications</b>	CE Mark, FCC Part 15 Class A
<b>Accessories (Optional)</b>	Biometric Readers: Digital Persona, Cogent Magnetic Stripe Reader Optical (BarCode) Swipe Reader HID Proximity Reader Relay Board: 2 Relays, 2 Inputs, Serial Interface, External Wiegand Reader connections via terminal block Audio/Video: VGA Low- light Camera with LED illumination light source Audio codec + PWM Beeper/Transducer 1W speaker

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a better sense of time.™

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** OPERATIONS & MAINTENENCE MANAGER  
**FROM:** TREATMENT PLANT SUPERVISOR  
**SUBJECT:** CONTRACT AWARD – MEDIA CLEANING FILTER #5  
**DATE:** MARCH 2, 2017

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**RECOMMENDATION:**

It is recommended that the Board of Directors approve a purchase order to ERS Industrial Services, Inc. in the amount of \$48,698.25 for the removal, cleaning and reinstallation of media in pressure filter #5. The above project also includes the purchase of supplemental filter media (81 cubic feet of fine garnet / 180 cubic feet of anthracite) required to return filter media layers to original specifications.

**BACKGROUND AND DISCUSSION:**

The Marion Walker Filtration Plant has 8 pressure filters, which have been in operation for over 20 years. In order to maintain optimum filter performance and ensure that the media continues to meet performance standards, the treatment plant staff has developed an ongoing preventative maintenance program. Prior media cleaning jobs have been performed over the past four years. The FY 2016/17 capital budget (GL# 11-5-54-5940-00) contains funds for the above work and is within budget.

The project was advertised on the District's website, four contractors performed the mandatory job walk; ERS Industrial Services, Inc. was the lowest responsible bidder. The work required to remove, clean, and install the media is specialized. ERS Industrial Services is fully aware of the project requirements. They have completed numerous filter projects of similar scope for Casitas throughout the past 10 years and have demonstrated quality workmanship.

ERS has an active contractor's license and is registered with the Department of Industrial Relations.

**CASITAS MUNICIPAL WATER DISTRICT**  
**Payable Fund Check Authorization**  
**Checks Dated 02/16/17-03/02/17**  
**Presented to the Board of Directors For Approval March 8, 2017**

<b>Check</b>	<b>Payee</b>		<b>Description</b>	<b>Amount</b>
000706	Payables Fund Account	# 9759651478	Accounts Payable Batch 022217	\$20,106.98
000707	Payables Fund Account	# 9759651478	Accounts Payable Batch 030217	\$308,018.51
				\$328,125.49
000708	Payroll Fund Account	# 9469730919	Estimated Payroll 3/16/17	\$155,000.00
			Total	\$483,125.49

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

The above numbered checks, 000706-000708 have been duly audited is hereby certified as correct.

*Denise Collin*

3/2/17

Denise Collin, Accounting Manager/Treasurer

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

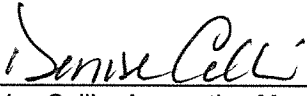
# A/P Fund

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

000706	A/P Checks:	025800-025812
	A/P Draft to P.E.R.S.	
	A/P Draft to State of CA	
	A/P Draft to I.R.S.	
	Voids:	

000707	A/P Checks:	25813-025893
	A/P Draft to P.E.R.S.	000000
	A/P Draft to State of CA	000000
	A/P Draft to I.R.S.	000000
	Voids:	025858, 025859

The above numbered checks,  
have been duly audited are hereby  
certified as correct.

 3/2/17

Denise Collin, Accounting Manager/Treasurer

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Signature

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Signature

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Signature

CERTIFICATION

Payroll disbursements for the pay period ending 02/25/17  
Pay Date of 03/02/17  
have been duly audited and are  
hereby certified as correct.

Signed: Denise Collin 2/27/17  
Denise Collin

Signed: \_\_\_\_\_  
Signature

Signed: \_\_\_\_\_  
Signature

Signed: \_\_\_\_\_  
Signature



3/02/2017 9:21 AM  
 VENDOR SET: 01 Casitas Municipal Water D  
 BANK: \* ALL BANKS  
 DATE RANGE: 2/16/2017 THRU 3/02/2017

A/P HISTORY CHECK REPORT

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
C-CHECK	VOID CHECK	V	3/02/2017			025858		
C-CHECK	VOID CHECK	V	3/02/2017			025859		

\* \* T O T A L S \* \*

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	0	0.00	0.00	0.00
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	0	0.00	0.00	0.00
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	2	VOID DEBITS 0.00		
		VOID CREDITS 0.00		
		0.00	0.00	

TOTAL ERRORS: 0

VENDOR SET: 01 BANK:	TOTALS:	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
		2	0.00	0.00	0.00
BANK:	TOTALS:	2	0.00	0.00	0.00

VENDOR SET: 01 Casitas Municipal Water D  
 BANK: AP ACCOUNTS PAYABLE  
 DATE RANGE: 2/16/2017 THRU 3/02/2017

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00049	I-T2 201702271184							
	STATE OF CALIFORNIA State Withholding	D	3/02/2017	10,063.92		000000		10,063.92
00128	I-T1 201702271184							
	INTERNAL REVENUE SERVICE Federal Withholding	D	3/02/2017	29,409.24		000000		
	I-T3 201702271184							
	FICA Withholding	D	3/02/2017	28,079.90		000000		
	I-T4 201702271184							
	Medicare Withholding	D	3/02/2017	6,567.22		000000		64,056.36
00187	I-PBB201702271184							
	CALPERS PERS BUY BACK	D	3/02/2017	66.87		000000		
	I-PBP201702271184							
	PERS BUY BACK	D	3/02/2017	161.96		000000		
	I-PEB201702271184							
	PEPRA EMPLOYEES PORTION	D	3/02/2017	3,102.48		000000		
	I-PEM201702271184							
	PERS EMPLOYEE PORTION MGMT	D	3/02/2017	2,833.79		000000		
	I-PER201702271184							
	PERS EMPLOYEE PORTION	D	3/02/2017	6,389.52		000000		
	I-PRB201702271184							
	PEBRA EMPLOYER PORTION	D	3/02/2017	3,253.87		000000		
	I-PRR201702271184							
	PERS EMPLOYER PORTION	D	3/02/2017	10,192.23		000000		26,000.72
01570	C-397205							
	Ojai Auto Supply LLC Hose,Antifreeze,Coolant Return	N	3/02/2017	29.41CR		000000		
	I-397187							
	Hose, Antifreeze, Coolant Res.	N	3/02/2017	29.41		000000		
01666	I-000009257884							
	AT & T T-1 Lines 9391035542	R	2/22/2017	1,156.18		025800		1,156.18
00018	I-829434088X02142017							
	AT & T MOBILITY PT Wildlife Biol Monthly Cell	R	2/22/2017	11.65		025801		11.65
00055	I-Dec 16							
	CASITAS BOAT RENTALS Gas for Boats - LCRA	R	2/22/2017	711.45		025802		711.45
00055	I-Jan 17							
	CASITAS BOAT RENTALS Gas for Boats - LCRA	R	2/22/2017	623.41		025803		623.41
01146	I-021417							
	COUNTY OF VENTURA Costs Presidential Election	R	2/22/2017	6,467.83		025804		6,467.83
00086	I-8538							
	E.J. Harrison & Sons Inc Acct#1C00054240	R	2/22/2017	155.23		025805		155.23
00165	C-1701-807280							
	OJAI LUMBER CO, INC Wire Mesh Mat Return	R	2/22/2017	122.05CR		025806		
	I-1701-807276							
	Hazmet Shed Lumber Materials	R	2/22/2017	590.89		025806		
	I-1701-807283							
	Hazmat Shed Lumber	R	2/22/2017	31.24		025806		500.08

VENDOR SET: 01 Casitas Municipal Water D  
 BANK: AP ACCOUNTS PAYABLE  
 DATE RANGE: 2/16/2017 THRU 3/02/2017

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
10042	PSR ENVIRONMENTAL SERVICE, INC							
I-8026	Repair & Reset Oil Drain Alarm	R	2/22/2017	250.00		025807		250.00
02643	Take Care by WageWorks							
I-5384426	Reimburse Medical	R	2/22/2017	68.10		025808		68.10
00270	Wells Fargo Bank							
I-020817	Ojai Valley Chamber Sponsor	R	2/22/2017	1,000.00		025809		1,000.00
02984	Fariborz Yaghoubi							
I-020817	Camping Fee Refund	R	2/22/2017	145.00		025810		145.00
00270	Wells Fargo Bank							
C-020817h	Accrue Use Tax	R	2/22/2017	13.70CR		025811		
C-020817j	Accrue Use Tax	R	2/22/2017	25.36CR		025811		
C-020817l	Accrue Use Tax	R	2/22/2017	300.88CR		025811		
D-020817g	Accrue Use Tax	R	2/22/2017	13.70		025811		
D-020817i	Accrue Use Tax	R	2/22/2017	25.36		025811		
D-020817k	Accrue Use Tax	R	2/22/2017	300.88		025811		
I-020817a	Cons. Message to Customers	R	2/22/2017	280.50		025811		
I-020817b	Club Car Enclosure - LCRA	R	2/22/2017	189.00		025811		
I-020817c	PR Soc. of America Seminar	R	2/22/2017	30.00		025811		
I-020817d	Solar Lights Front Sign-LCRA	R	2/22/2017	349.78		025811		
I-020817e	GPS Vehicle Tracker	R	2/22/2017	299.43		025811		
I-020817f	Play Structure Slide Parts-WP	R	2/22/2017	5,890.95		025811		7,039.66
00163	OFFICE DEPOT							
I-899645727001	Office Chairs - TP	R	2/22/2017	844.54		025812		
I-899646064001	Office Chairs - TP	R	2/22/2017	1,133.85		025812		1,978.39
00188	PETTY CASH							
I-022117	LCRA Petty Cash Short	R	2/23/2017	100.00		025813		100.00
02587	A&M LAWNMOWER SHOP							
I-43872	Hose Kit for Pump - UT	R	3/02/2017	213.43		025814		213.43
01325	Aflac Worldwide Headquarters							
I-093260	Supplemental Insurance 2/17	R	3/02/2017	3,403.56		025815		3,403.56
00010	AIRGAS USA LLC							
I-9060275086	Goggle Lenses, Safety Glasses	R	3/02/2017	62.51		025816		
I-9060373087	Hardhat Assembly - TP	R	3/02/2017	370.98		025816		433.49

VENDOR SET: 01 Casitas Municipal Water D  
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 DATE RANGE: 2/16/2017 THRU 3/02/2017

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00836	AMERICAN RED CROSS							
	C-14987GRCSb							
	D-14987GRCSa	R	3/02/2017	25.38CR		025817		
	I-14987-GRCS	R	3/02/2017	25.38		025817		
	Lifeguard Instructor's Kit -WP	R	3/02/2017	350.00		025817		350.00
02179	Art Street Interactive							
	I-1079	R	3/02/2017	542.15		025818		542.15
01666	AT & T							
	I-0000009299789	R	3/02/2017	492.70		025819		492.70
00020	AVENUE HARDWARE, INC							
	I-D66898	R	3/02/2017	49.37		025820		49.37
00021	AWA OF VENTURA COUNTY							
	I-069684	R	3/02/2017	75.00		025821		75.00
00030	B&R TOOL AND SUPPLY CO							
	I-1900893727	R	3/02/2017	65.95		025822		
	I-1900893818	R	3/02/2017	187.69		025822		
	I-1900894263	R	3/02/2017	3,001.93		025822		3,255.57
01153	RUSS BAGGERLY							
	I-Jan 17	R	3/02/2017	31.03		025823		31.03
02026	Carol Belser							
	I-Feb 17	R	3/02/2017	693.17		025824		693.17
02593	Cal-Coast Machinery							
	I-381710	R	3/02/2017	691.76		025825		691.76
02811	Civic Construction Associates							
	I-CCA19821	R	3/02/2017	4,800.00		025826		4,800.00
01843	COASTAL COPY							
	I-716873	R	3/02/2017	256.54		025827		
	I-716874	R	3/02/2017	32.42		025827		288.96
00061	COMPUWAVE							
	I-SB02085860	R	3/02/2017	388.68		025828		388.68
00740	DELL MARKETING L.P.							
	I-10150125981	R	3/02/2017	1,834.54		025829		1,834.54

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00081	DELTA LIQUID ENERGY I-039381 Propane for DamTender	R	3/02/2017	319.07		025830		319.07
00086	E.J. Harrison & Sons Inc I-8516 Acct#1C00053370	R	3/02/2017	146.94		025831		146.94
00086	E.J. Harrison & Sons Inc I-8537 Acct#1C00054230	R	3/02/2017	808.30		025832		808.30
00099	FGL ENVIRONMENTAL I-701080C Nitrate Monitoring 1/25/17	R	3/02/2017	18.00		025833		
	I-701340A Nitrate Monitoring 1/31/17	R	3/02/2017	43.00		025833		61.00
00096	FIREMASTER - LOS ANGELES REG. I-0000393052 Fire Extinguishers-Units 48/49	R	3/02/2017	103.17		025834		103.17
00104	FRED'S TIRE MAN I-97734 Flat Repair - EZ6 Cart	R	3/02/2017	20.00		025835		20.00
00106	FRONTIER PAINT I-F0222045 Galaxy Spray Hood - LCRA	R	3/02/2017	6.21		025836		
	I-F0222243 Primer, Paint, Roller Kit - WP	R	3/02/2017	46.02		025836		
	I-F0222337 Urethane Paint Base-WP	R	3/02/2017	45.77		025836		98.00
01280	FRY'S ELECTRONICS, INC. I-6671229 Spray Duster, Flash Drive	R	3/02/2017	45.22		025837		45.22
02985	Roger Furgang I-021317 Camping Fee Refund	R	3/02/2017	564.00		025838		564.00
00376	GALL'S, INC. I-006973498 Flashlights/Batteries - LCRA	R	3/02/2017	537.35		025839		537.35
02720	Garda CL West, Inc. I-20210581 Excess Items - LCRA	R	3/02/2017	56.80		025840		56.80
00216	THE GAS COMPANY I-022417 Acct#18231433006	R	3/02/2017	346.82		025841		
	I-022417a Acct#00801443003	R	3/02/2017	644.45		025841		991.27
00115	GRAINGER, INC I-9356224262 First Aid Kits,PoisonIvy Scrub	R	3/02/2017	83.81		025842		
	I-9356224262a Portable Work Lights - TP	R	3/02/2017	97.22		025842		
	I-9358868587 Spray Paint - EM	R	3/02/2017	28.19		025842		
	I-9359309847 Marking Chalk - Whs	R	3/02/2017	45.56		025842		
	I-9363362097 Full Body Harness - UT	R	3/02/2017	739.02		025842		993.80

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
02994	Pat Haidet I-022117 Camping Fee Refund -530629	R	3/02/2017	95.50		025843		95.50
01772	HASAN CONSULTANTS I-013117 LCRA Sewer Study	R	3/02/2017	7,500.00		025844		
	I-022817 LCRA Sewer Study	R	3/02/2017	7,500.00		025844		15,000.00
02995	Roger Hollis I-022017 Camping Fee Refund -534742	R	3/02/2017	104.50		025845		104.50
00127	INDUSTRIAL BOLT & SUPPLY I-176316-1 Flange Bolts & Washers - EM	R	3/02/2017	21.09		025846		21.09
00872	Irrisoft, Inc. I-6009 Weather Station Signal	R	3/02/2017	79.00		025847		79.00
00493	J & H ENGINEERING GENERAL I-013117 LCRA Road Maint.	R	3/02/2017	56,449.00		025848		56,449.00
02344	Janitek Cleaning Solutions I-26451A Janitorial Services - DO	R	3/02/2017	1,395.00		025849		1,395.00
02986	Pat Joyce I-021317 Camping Fee Refund	R	3/02/2017	167.50		025850		
	I-021317a Camping Fee Refund -526341	R	3/02/2017	167.50		025850		335.00
02987	Gary Kaufman I-021317 Camping Fee Refund	R	3/02/2017	225.00		025851		225.00
01022	KELLY CLEANING & SUPPLIES, INC I-362608 Janitorial Services - LCRA	R	3/02/2017	280.00		025852		280.00
00328	LIGHTNING RIDGE I-2031704 Staff Jackets - WP	R	3/02/2017	911.41		025853		911.41
02988	Brad Lopez I-021517 Camping Fee Refund	R	3/02/2017	68.00		025854		68.00
02838	Mainstreet Architects & Planne I-1118 DO Remodel - Docs/Bidding&Neg.	R	3/02/2017	6,043.00		025855		6,043.00
00329	MCMASTER-CARR SUPPLY CO. I-13286549 Toilet Partitions - LCRA	R	3/02/2017	1,672.17		025856		
	I-15011773 Air Filter- EM	R	3/02/2017	26.10		025856		1,698.27

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VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00151	MEINERS OAKS ACE HARDWARE							
	C-758848 Washer, Adpater, Saw -Return	R	3/02/2017	22.63CR		025857		
	C-759007 Trap Union PVC - WP	R	3/02/2017	4.48CR		025857		
	I-757601 Car Charger, Bronze Turbo - PL	R	3/02/2017	14.14		025857		
	I-757620 Cement - PL	R	3/02/2017	9.64		025857		
	I-757643 Cement, Spec Mix - LCRA	R	3/02/2017	25.92		025857		
	I-758172 Rubbing Alcohol - LCRA	R	3/02/2017	2.78		025857		
	I-758252 Wheel Cutoff, Faucet - LCRA	R	3/02/2017	21.46		025857		
	I-758323 Markers, Hacksaw, Blade - PL	R	3/02/2017	36.74		025857		
	I-758707 Hacksaw, Saw, Adapter - WP	R	3/02/2017	42.71		025857		
	I-758725 Kitchen Bags, Wipes, Gloves-TP	R	3/02/2017	54.35		025857		
	I-758851 Faucet Cover, Tape Measure-WP	R	3/02/2017	23.46		025857		
	I-758985 Rollers, Utility Pull - LCRA	R	3/02/2017	14.50		025857		
	I-759008 Screws, Wheel Grinds - WP	R	3/02/2017	22.98		025857		
	I-759030 Caulk, Galvanized Pipe - LCRA	R	3/02/2017	54.76		025857		
	I-759178 Sanding Disc - EM	R	3/02/2017	6.82		025857		
	I-759189 Ball Valve - Maint.	R	3/02/2017	6.82		025857		
	I-759314 Hinge straps - PL	R	3/02/2017	14.11		025857		
	I-759358 Plastic Epoxy - LCRA	R	3/02/2017	3.51		025857		
	I-759448 Bolts, Screws, Drain Away - PL	R	3/02/2017	14.44		025857		
	I-759477 Gasser for Pests - Maint.	R	3/02/2017	46.76		025857		
	I-759481 Key, Toilet Seat - Maint.	R	3/02/2017	22.80		025857		
	I-759511 Bolts, Washers. Screws - LCRA	R	3/02/2017	41.06		025857		
	I-759645 Sand Bags - LCRA	R	3/02/2017	37.54		025857		
	I-759759 Sawzal, Bolts, Screws, Straps	R	3/02/2017	62.93		025857		
	I-760096 Batteries,WD40,Power Cord	R	3/02/2017	107.61		025857		
	I-760451 Bar & Chain Oil - LCRA	R	3/02/2017	21.43		025857		
	I-760663 Roof Cement, Caulk - Maint.	R	3/02/2017	25.35		025857		
	I-761177 Gloves - IT	R	3/02/2017	5.83		025857		713.34
00163	OFFICE DEPOT							
	I-901373269001 Casitas Stamp - Admin	R	3/02/2017	23.16		025860		
	I-907176583001 White Copy Paper	R	3/02/2017	274.18		025860		
	I-907182001001 Casitas Stamp - Admin	R	3/02/2017	21.22		025860		318.56
00625	OfficeTeam							
	I-47738109 Temp	R	3/02/2017	218.46		025861		
	I-47794498 Temp	R	3/02/2017	764.61		025861		983.07
00160	OILFIELD ELECTRIC CO, INC							
	I-021017 TP Electrical Upgrade	R	3/02/2017	60,155.90		025862		60,155.90
00169	OJAI VALLEY SANITARY DISTRICT							
	I-19080 Cust # 99991	R	3/02/2017	10,073.62		025863		10,073.62

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
02268	Curtis Orozco Safety Boots	R	3/02/2017	118.51		025864		118.51
00188	PETTY CASH Replenish Petty Cash	R	3/02/2017	332.58		025865		332.58
00627	PORT SUPPLY Rain Jacket - TP	R	3/02/2017	144.24		025866		144.24
02936	Priority Safety Services, LLC Respirator Fit Testing	R	3/02/2017	40.00		025867		40.00
02216	Purchase Power Refill Postage Meter	R	3/02/2017	2,525.00		025868		2,525.00
02989	John Purdum Camping Fee Refund	R	3/02/2017	104.50		025869		104.50
01107	SAWYER PETROLEUM Oil for PP Motor	R	3/02/2017	427.16		025870		427.16
02990	Mary Schellberg Camping Fee Refund	R	3/02/2017	167.50		025871		167.50
02993	Steven Sharp Safety Boots	R	3/02/2017	170.00		025872		170.00
02850	Sintra Group Background Investigation -LCRA	R	3/02/2017	1,230.00		025873		1,230.00
01944	Luke Soholt Safety Boots	R	3/02/2017	170.00		025874		170.00
00215	SOUTHERN CALIFORNIA EDISON Acct#2157697889	R	3/02/2017	518.95		025875		
	I-022317a Acct#2266156405	R	3/02/2017	387.34		025875		
	I-022317b Acct#2312811532	R	3/02/2017	107.19		025875		
	I-030117 Acct#2210507034	R	3/02/2017	8,592.32		025875		9,605.80
02202	Stanley Pest Control Monthly Pest Control - WP	R	3/02/2017	170.00		025876		170.00
02991	Karen Supowit Camping Fee Refund	R	3/02/2017	104.50		025877		104.50



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VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
02992	Cyndi Sutton							
I-021317	Camping Fee Refund -522176	R	3/02/2017	225.00		025878		
I-021317a	Camping Fee Refund -522179	R	3/02/2017	167.50		025878		392.50
02643	Take Care by WageWorks							
I-5419824	Reimburse Medical	R	3/02/2017	176.00		025879		176.00
02527	Traffic Technologies LLC							
I-23369	New Gate & Res. Site Sign	R	3/02/2017	156.08		025880		156.08
01662	TYLER TECHNOLOGIES, INC.							
I-420672	Tyler Connect Conference	R	3/02/2017	850.00		025881		
I-420673	Tyler Connect Conference	R	3/02/2017	850.00		025881		1,700.00
01048	VAUGHAN'S INDUSTRIAL REPAIR CO							
I-024259	Pump Inspection - EM	R	3/02/2017	1,893.00		025882		1,893.00
02941	VWM Analytics							
I-59690	File #20165 - 1/17	R	3/02/2017	1,680.00		025883		1,680.00
00663	WAXIE SANITARY SUPPLY							
I-76523947	Janitorial Supplies - DO	R	3/02/2017	313.15		025884		
I-76528237	Janitorial Supplies - DO	R	3/02/2017	7.83		025884		320.98
02996	Dana Webb							
I-021817	Vehicle Fee Refund -558353	R	3/02/2017	10.00		025885		10.00
00330	WHITE CAP CONSTRUCTION SUPPLY							
I-10006559112	Wipes, Wire Stripper, Tape -UT	R	3/02/2017	74.07		025886		
I-10006576285	Coveralls - TP	R	3/02/2017	65.57		025886		139.64
00124	ICMA RETIREMENT TRUST - 457							
I-CUI201702271184	457 CATCH UP	R	3/02/2017	461.54		025887		
I-DCI201702271184	DEFERRED COMP FLAT	R	3/02/2017	2,079.62		025887		
I-DI%201702271184	DEFERRED COMP PERCENT	R	3/02/2017	134.71		025887		2,675.87
01960	Moringa Community							
I-MOR201702271184	PAYROLL CONTRIBUTIONS	R	3/02/2017	16.75		025888		16.75
00985	NATIONWIDE RETIREMENT SOLUTION							
I-DCN201702271184	DEFERRED COMP FLAT	R	3/02/2017	3,942.50		025889		
I-DN%201702271184	DEFERRED COMP PERCENT	R	3/02/2017	528.25		025889		4,470.75

3/02/2017 9:24 AM  
 VENDOR SET: 01 Casitas Municipal Water D  
 BANK: AP ACCOUNTS PAYABLE  
 DATE RANGE: 2/16/2017 THRU 3/02/2017

A/P HISTORY CHECK REPORT

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00180	S.E.I.U. - LOCAL 721							
	I-COP201702271184 SEIU 721 COPE	R	3/02/2017	19.50		025890		
	I-UND201702271184 UNION DUES	R	3/02/2017	708.00		025890		727.50
01400	STATE DISBURSEMENT UNIT							
	I-CS4201702271184 Payroll Deduction 10-D000121	R	3/02/2017	830.76		025891		830.76
00230	UNITED WAY							
	I-UWY201702271184 PAYROLL CONTRIBUTIONS	R	3/02/2017	60.00		025892		60.00
1	HALEY, LINDSEY							
	I-000201702281185 UB REFUND	R	3/02/2017	0.30		025893		0.30

* * T O T A L S * *	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	92	228,004.49	0.00	228,004.49
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	3	100,121.00	0.00	100,121.00
EFT:	0	0.00	0.00	0.00
NON CHECKS:	1	0.00	0.00	0.00
VOID CHECKS:	0	VOID DEBITS 0.00		
		VOID CREDITS 0.00	0.00	

TOTAL ERRORS: 0

VENDOR SET: 01	BANK: AP	TOTALS:	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
			96	328,125.49	0.00	328,125.49
BANK: AP	TOTALS:		96	328,125.49	0.00	328,125.49
REPORT TOTALS:			96	328,125.49	0.00	328,125.49

**Casitas Municipal Water District  
 Reimbursement Disclosure Report (1)  
 Fiscal Year 2016/17  
 July 1, 2016-June 30, 2017**

<u>Date paid</u>	<u>Board of Director/Employee</u>	<u>Description</u>	<u>Amount Paid</u>
7/5/2016	Vincent Godinez	Safety Boot Purchase	153.87
7/5/2016	Scott Lewis	Salmonid Genetics Conference	210.00
7/13/2016	Scott Lewis	Airfare to CMWD 7/10-7/14	425.20
7/13/2016	Scott MacDonald	Class Reimbursement	120.00
7/13/2016	Luke Soholt	Class Reimbursement	168.00
7/19/2016	Lindsay Cao	CWEA Membership	172.00
7/26/2016	Gerardo Herrera	Safety Boot Purchase	170.00
7/26/2016	Tim Lawson	Safety Boot Purchase	118.20
7/28/2016	Ron Yost	Property Tax Bill-Damtender Residence	608.65
8/4/2016	Gerardo Herrera	Utility Leadership Course	115.68
8/10/2016	Eric Behrendt	Safety Boot Purchase	156.59
8/10/2016	Scott Lewis	Lodging	348.32
8/10/2016	Scott Lewis	Car Rental	320.27
8/17/2016	Robert Vasquez	Safety Boot Purchase	170.00
8/24/2016	Larry Harris	Gray Water Workshop Refreshments	200.10
9/14/2016	Joel Cox	Safety Boot Purchase	170.00
9/14/2016	Greg Romey	Mileage Reimbursement - Offsite Training	111.24
9/21/2016	Joel Cox	T4 Certification	105.00
10/5/2016	Scott MacDonald	Safety Boot Purchase	170.00
10/13/2016	Scott Lewis	Airfare to CMWD 9/27-9/29	331.20
10/13/2016	Scott Lewis	Car Rental	254.08
10/13/2016	Scott Lewis	Lodging	189.50
10/13/2016	Brian Taylor	Safety Boot Purchase	156.59
10/19/2016	Michael Moler	Lodging for CALMS Conference	353.40
10/19/2016	Michael Moler	Mileage Reimbursement - Offsite Training	515.70
11/2/2016	Michael Moler	Lodging for CA/NV Fall Conference	377.92
11/2/2016	Michael Moler	Mileage Reimbursement - Offsite Training	222.48
11/9/2016	Michael Gibson	Lodging & Meals for Steelhead Conference	281.40
11/16/2016	Scott Lewis	Airfare to CMWD 11/14-11/19	451.20
11/16/2016	Scott Lewis	Fish Conference - 9/8	135.00
11/23/2016	Vincent Godinez	Safety Boot Purchase	170.00
11/23/2016	Vincent Godinez	Distribution Grade 3 Exam Fee	100.00
11/23/2016	Lindsay Cao	PE License Renewal	115.00
12/1/2016	Scott MacDonald	Distribution Grade 4 Certification	105.00
12/1/2016	Robert Vasquez	Water Treatment Plant Operator Course	112.55
12/1/2016	Robert Vasquez	Distribution Grade 3 Exam Fee	100.00
12/1/2016	Robert Vasquez	Distribution Grade 3 Certification	120.00
12/9/2016	Neil Cole	Microwave for Lunch Room	106.42
12/9/2016	Ronald Merckling	Lodging for ACWA Conference	658.13
12/9/2016	Steve Wickstrum	CE License Renewal	115.00
12/9/2016	Steve Wickstrum	Mileage Reimbursement - Offsite Meetings	124.20
12/21/2016	Vincent Godinez	Welding Course Fee	121.00
12/21/2016	Gerardo Herrera	Pumps/Motors Course Fee	138.00
12/21/2016	Caron Smith	Water Dist. Sys. O&M Course Fee	116.68
12/21/2016	David Pope	Safety Boot Purchase	166.61
12/21/2016	Robert Vasquez	Pumps/Motors Course Fee	138.00
1/4/2017	Eric Grabowski	Advance Water Treatment Course Fee	229.80
1/4/2017	Eric Grabowski	Pesticide Reg. License Certificate	120.00
1/4/2017	Gerardo Herrera	General Ed Course Fee	210.15
1/4/2017	Henry Islas	Water Dist. Sys. O&M Course Fee	171.68
1/4/2017	Scott Lewis	Car Rental	424.38
1/4/2017	Scott Lewis	Lodging	498.85
1/4/2017	Scott Lewis	OSU Fall Tuition	1,842.31
1/4/2017	Michael Moler	Reimburse Mileage	102.60
1/4/2017	Robert Vasquez	D4 Certificate	105.00

**Casitas Municipal Water District  
 Reimbursement Disclosure Report (1)  
 Fiscal Year 2016/17  
 July 1, 2016-June 30, 2017**

1/18/2017	Luke Soholt	Treatment 4 Certificate Exam Fee	130.00
1/18/2017	James Word	Mileage Reimbursement	101.52
1/25/2017	Greg Romey	Lunch for District CPR Training	142.37
1/25/2017	Gonzalo Carbajak-Ramirez	Safety Boot Purchase	170.00
1/25/2017	Brian Taylor	Welding Supplies for Robles Canal	106.37
2/1/2017	Eric Grabowski	Safety Boot Purchase	170.00
2/15/2017	Joe Evans	Office Equipment	373.62
2/15/2017	Scott Lewis	OR Chapter American Fisheries Society Membership	150.00
2/15/2017	Scott Lewis	Airfare to CMWD 1/21-1/25	429.86
2/15/2017	Scott Lewis	Car Rental	448.97
3/2/2017	Carol Belser	Quagga/Zebra Mussel Water Agency Summit	394.00
3/2/2017	Carol Belser	Quagga/Zebra Mussel Water Agency Summit Hotel	388.38
3/2/2017	Curtis Orozco	Safety Boot Purchase	118.51
3/2/2017	Steven Sharp	Safety Boot Purchase	170.00
3/2/2017	Luke Soholt	Safety Boot Purchase	170.00

Note:

1) Reimbursement Disclosure Report prepared pursuant to California Government Code 53065.5

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVE WICKSTRUM, GENERAL MANAGER  
**FROM:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**SUBJECT:** RESOLUTION ADOPTING THE NOTICE OF EXEMPTION FOR THE UPPER RINCON MAIN REPLACEMENT  
**DATE:** MARCH 2, 2017

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**RECOMMENDATION:**

It is recommended that the Board of Directors:

1. Adopt the Notice of Exemption or;
2. Direct staff to prepare a more detailed initial study.

**BACKGROUND AND DISCUSSION:**

The proposed project consists of replacing approximately 1800' of the existing Rincon Main pipeline. The location of the pipeline will be moved away from the creek and into the shoulder of Casitas Pass Road (Highway 150). The pipeline size will not change. A pressure regulating station may be relocated as part of the project.

The Notice of Exemption is needed now in order to obtain an encroachment permit from the California Department of Transportation for the new pipeline.

This project is included in the FY 2016-17 Budget. As it is unlikely that Casitas will be able to complete the California Department of Transportation encroachment permit process and construction by the end of the fiscal year, this project is also be included in the proposed FY 2017-18 Budget.

CASITAS MUNICIPAL WATER DISTRICT

**RESOLUTION ADOPTING THE NOTICE OF EXEMPTION, AND  
DIRECTING THE NOTICE OF EXEMPTION TO BE FILED WITH  
THE CLERK OF THE COUNTY OF VENTURA  
UPPER RINCON CREEK PIPELINE REPLACEMENT PROJECT**

WHEREAS, a Preliminary Assessment has been conducted that determined that the project is considered to be a statutorily exempt project under Section 21080.21 and of the Public Resource Code and Section 15282(k) of the CEQA guidelines;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Casitas Municipal Water District as follows:

1. The Board finds that the replacement of a portion of the Upper Rincon Creek pipeline and pressure regulating station meets the requirements of Public Resources Code 21080.21 and Section 15282(k) of the CEQA guidelines.
2. That the Notice of Exemption for the replacement of a portion of the Upper Rincon Creek pipeline and pressure regulating station attached hereto as Exhibit "A" is hereby adopted.
3. That the Clerk of the Board files the Notice of Exemption with the Clerk of the County of Ventura.

ADOPTED this 08th day of March, 2017.

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President,  
Casitas Municipal Water District

ATTEST

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Secretary,  
Casitas Municipal Water District

NOTICE OF EXEMPTION

Notice of Exemption

To: Office of Planning and Research
P.O. Box 3044, Room 212
Sacramento, CA 95812-3044

From: (Public Agency) Casitas Municipal Water District
1055 Ventura Ave
Oak View, CA 93022
(Address)

County Clerk Ventura
County of
800 South Victoria Avenue
Ventura, CA 93009

Project Title: Upper Rincon Creek Pipeline Replacement

Project Location - Specific: The project is located adjacent to Casitas Pass Road (HWY 150) near the border of Ventura and Santa Barbara Counties at approximately Post Mile 0.5.

Project Location - City: Unincorporated Project Location - County: Ventura

Description of Nature, Purpose and Beneficiaries of Project: The project will replace up to 1800 feet of the Upper Rincon Creek pipeline. The pipeline serves potable water for domestic and agricultural use to portion of western Ventura County. The existing pipeline has experience leaks in the past and is nearing the end of its useful life. The existing and replacement pipeline will be 6 inch nominal size. The replacement pipe will be located in the shoulder of Highway 150.

Name of Public Agency Approving Project: Casitas Municipal Water District

Name of Person or Agency Carrying Out Project: Casitas Municipal Water District

Exempt Status: (check one)

- Ministerial (Sec. 21080(b)(1); 15268);
Declared Emergency (Sec. 21080(b)(3); 15269(a));
Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
Categorical Exemption, State type and section number:
Statutory Exemptions, State code number: Public Resources Code 21080.21 & Section 15282(k) of the CEQA Guidelines

Reasons why project is exempt:

The project is a replacement pipeline with no increase capacity meeting the requirements of Public Resources Code 21080.21 and CEQA Guideline Section 15282(k)

Lead Agency
Contact Person: Neil Cole Area Code/Telephone/Extension: (805)649-2251

If filed by applicant:

- 1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: [Signature] Date: 3/2/17 Title: Principal Civil Engineer

- Signed by Lead Agency
Signed by Applicant
Date received for filing at OPR:

Revised 2005

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVE WICKSTRUM, GENERAL MANAGER  
**FROM:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**SUBJECT:** PROPOSED RECOMMENDATION FOR APPROVAL OF CONTRACT FOR THE DISTRICT OFFICE REMODEL- SPECIFICATION 17-392  
**DATE:** FEBRUARY 16, 2017

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**RECOMMENDATIONS:**

It is recommended that the Board of Directors: (1) adopt a resolution accepting the proposal submitted through the National Joint Powers eziQC process, Specification 17-392 to Staples Construction Company, Inc. of Ventura, California in an amount not to exceed \$960,685.30 for the District Office Remodel; (2) authorize the President of the Board to execute the agreement with Staples Construction Company, Inc. for the District Office Remodel work; and (3) authorize District staff to proceed with the administration of this contract.

**BACKGROUND AND DISCUSSION:**

Casitas' Board has authorized the filling of several new positions. The people filling these positions will need productive work space. In addition, the current Board Room location is less than optimal for site security and public convenience.

In January 2016, the Board approved an agreement with Main Street Architects + Planners to complete plans and specification to relocate the Board Room upstairs and provide additional office and work spaces within the current building. The District office building is over 60 years old. While the basement portion of the building has been modified several times over the years, the upstairs (referred to as the first floor in the original drawings) has seen very few updates. Building and fire codes have changed over the years. The plans and specifications include applicable code upgrades.

The project will relocate the Board Room to the area that is currently occupied by the Operation & Maintenance Department. The Operation & Maintenance Department, Water Conservation Department and lunch room will be relocated downstairs. Offices for the new Assistant General Manager and Human Resources Officer will be created upstairs.

This project DOES NOT include the audio visual component for the new Board Room. The audio-visual component of the Board Room will be completed under a separate "Design-Build" contract. The Request for Proposals on the Board Room audio-visual system is currently being prepared.

This project DOES NOT include any new furniture, including a new dais for the Board Room. Furniture and the new dais will be purchased separately.



## **BID PROCESS:**

As you know, Casitas is a member of the National Joint Powers Alliance, which is a public agency dedicated to serving education and government entities with solutions which are more efficiently delivered cooperatively than by an entity individually. This includes, but is not limited to, the bidding of public construction contracts and purchasing.

Casitas, through the National Joint Powers Alliance, advertised and noticed a bid for an indefinite quantity construction (IQC) agreement regarding the District Office Remodel. The low responsible and responsive bidder for the Santa Barbara region, which includes Ventura County, was Staples Construction Company, Inc. The work tasks in the IQC agreement are bid at unit costs. Virtually all of the work required by the plans and specifications is covered by these unit costs. In the few areas where there are not unit costs, Staples Construction Company is required to obtain three separate bids for that work in order to obtain the best price for the District.

If the Board awards this contract to Staples Construction Company, Casitas' would be "piggy backing" on the National Joint Powers Alliance contract. This contract is administered by Gordian on behalf of the National Joint Powers Alliance. Gordian created ezIQC to make its industry-leading Job Order Contracting (JOC) Solutions easily available through cooperative purchasing. JOC is an indefinite delivery/indefinite quantity procurement process that helps facility and infrastructure owners complete a large number of repair, renovation and straightforward new construction projects with a single, competitively-bid contract. Unlike traditional bidding where each project is identified, designed and then put out to bid, ezIQC establishes competitively-bid prices up front and eliminates the need to bid each project separately. The ezIQC process will expedite the completion of the building remodel by reducing the time necessary to bid the project. The ezIQC process also saves Casitas money by reducing the staff time necessary during the bidding process. Time is of the essence as the Assistant General Manager is to begin work this week.

The bidding process used by the National Joint Powers Alliance for the IQC agreement meets the requirements of Public Contract Code Section 20642. California Public Contract Code Section 20644 allows the Board to approve this type of procurement.

The ezIQC contract was advertised on July 2, 2013 on the National Joint Powers Alliance web site and in the local area newspapers. Pre-bid seminars were conducted in Ventura. Bids were received from ten contractors. Staples Construction Company of Ventura was the low bidder for the Ventura area for the unit costs associated with the District Office Remodel.

Construction is expected to take 5 months to complete.

## **Fiscal Impacts:**

\$355,000 was included in the FY 2016-17 budget for this project. \$68,090 (this includes 1 change order) has and will be expended for design and assistance during construction. This leaves \$286,910 for construction. An additional \$673,775.30 from reserves is required to complete this phase of the project. The estimate to complete the audio-visual component for the Board Room and purchase furniture where needed is \$150,000.

**CASITAS MUNICIPAL WATER DISTRICT**

**BOARD OF DIRECTORS**

**RESOLUTION AWARDING A CONTRACT  
FOR DISTRICT OFFICE REMODEL  
SPECIFICATION 17-392**

**WHEREAS**, Casitas Municipal Water District desires to provide productive work spaces for an expanded work force and provide a safe and functional Board of Directors Room for its public meetings, and

**WHEREAS**, Casitas Municipal Water District can accomplish the goal of providing productive work space and a safe, functional Board Room by remodeling the current District building, and

**WHEREAS**, Casitas Municipal Water District entered into an agreement with Main Street Architects + Planners, Inc. to prepare construction plans and specifications to remodel the existing building and those plans and specifications are now complete, and

**WHEREAS**, Casitas Municipal Water District desires to have the additional work spaces and Board Room available as soon as possible, and

**WHEREAS**, Casitas Municipal Water District is a member of the National Joint Powers Alliance, and

**WHEREAS**, the National Joint Powers Alliance has bid and awarded an indefinite quantity construction contract for the Ventura area, and

**WHEREAS**, by using the National Joint Powers Alliance indefinite quantity construction contract Casitas Municipal Water District will save significant time in completing the District Office Remodel Project , and

**WHEREAS**, it was determined that Staples Construction Company, Inc. of Ventura was the lowest responsible and responsive bidder for the District Office Remodel project; and

**WHEREAS**, the National Joint Powers indefinite quantity contract, managed by Gordian Inc. and constructed by Staples Construction Inc. of Ventura will complete the District Office Remodel Project for the sum of \$960,685.30; and

**WHEREAS**, the use of the National Joint Powers Alliance indefinite quantity construction contract bidding process is compliant with the California Public Contracts Code.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Casitas Municipal Water District acts as follows:

1. Accept the National Joint Powers Alliance proposal by Staples Construction Inc. of Ventura in the amount of \$960,685.30 for construction of the District

Office Remodel, Specification 17-392;

2. Award a contract to Staples Construction Company, Inc. for the District Office Remodel project and Authorize the President of the Board to execute that contract; and
3. Authorize and direct District staff to proceed with the administration of the contract.

**ADOPTED** this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

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President,  
Casitas Municipal Water District  
Board of Directors

**ATTEST:**

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Secretary,  
Casitas Municipal Water District  
Board of Directors

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVEN E. WICKSTRUM, GENERAL MANAGER  
**FROM:** TODD EVANS, ASSISTANT ENGINEER  
**SUBJECT:** AUTHORIZE GENERAL MANAGER TO SIGN AN AGREEMENT FOR PROFESSIONAL SERVICES  
**DATE:** 3/3/2017

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**Recommendation:**

It is recommended that the Board of Directors authorize the General Manager to enter into an agreement for professional services with IDModeling Inc., for the sum not to exceed **\$50,000.00**

**Background and Discussion:**

The District is interested in updating operations to run more efficiently. In an effort to achieve this goal, it was apparent the District needed to invest in a Geographic Information System (GIS) and a Computerized Maintenance Management System (CMMS)

A request for qualifications (RFQ) was published. Several firms were contacted and asked to submit their qualifications. See the list below:

<b><u>FIRM</u></b>	<b><u>RESPONSE</u></b>
DCSE / Spatial Wave	Submitted
California CAD Solutions	Submitted
HD Supply Waterworks / iWater	Submitted
Z World GIS	Submitted
Miller Spatial Services	Submitted
Davey Resource Group	Submitted
Nobel Systems	Submitted
IDModeling (Sedaru)	Submitted
VNuIT LLC	Submitted
Timmons Group	Submitted
MRF Geosystems Corp	Submitted

After carefully reviewing qualifications from all firms that submitted, ID Modeling (Sedaru) was selected as the firm with experience and qualifications that most closely aligned with the desired goals set forth in the Request for Qualifications.

This agreement with IDModeling Inc. will produce a functioning GIS system and a basic CMMS system for the District. The GIS system will be stored on a new Casitas server that will be purchased separately. The CMMS system will be field accessible. Significant staff time will be required to implement the GIS and CMMS system and some of this work has already been completed by staff. However, in the long run, the GIS and CMMS system should save staff resources. Once the system is operational, additional software modules can be added to expand the capabilities of the system.

\$75,000 was budgeted in the FY 2016-17 Budget for implementation of a GIS system. This item is the main component of the GIS implementation. Other items include the previously approved ESRI software license that is shared with Carpinteria Valley Water District, a GIS dedicated server (included in the proposed FY 2017-18 budget) and annual license fees. The GIS portion of the project must be functional before the CMMS can be set-up.

# MEMORANDUM

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TO: Board of Directors  
From: Steven E. Wickstrum, General Manager  
RE: Request to Proceed with the Hiring of Park Ranger Personnel  
Date: March 2, 2017

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## RECOMMENDATION:

It is recommended that the Board of Directors authorize and direct the General Manager to proceed with the hiring process for staffing the Park Ranger positions.

## BACKGROUND:

The Board and staff have been committed to the direction of developing the staffing and policies that will provide a safe environment for the visiting public at the Lake Casitas Recreation Area – and this would be done with the formation of limited peace officer positions and sound policy. The District has proceeded with the initial hiring process to fill the positions of Park Ranger and delaying the final selection and hiring until such time that the Park Ranger Policy Manual has been adopted by the Board of Directors. The Policy Manual has been reviewed by the ad hoc committee and is presently being reviewed by the SEIU Local 721 members. It is anticipated that a final draft of the Park Ranger Policy Manual will be ready for the Board's adoption by mid-April 2017. The candidates for the Park Ranger positions have completed the District's interview process, agility test, background investigation, and are awaiting the psychological evaluation. It should also be noted that each of the candidates have completed the PC 832 training.

## DISCUSSION:

At this time, staff requests that the hiring process proceed with parallel timing of the Policy Manual finalization, rather than postponing hiring for a completed Policy Manual and then complete the hiring process. The psychological evaluation and reporting of results is likely to take three to four weeks and it is very likely that any one candidate could be delayed from reporting to the District at least one month with proper notice to their current employer. The postponement of hiring will extend out meeting the staffing needs of the Recreation Area until mid-June 2017, or longer, shortens the time for training of new staff before the tourist season

at Lake Casitas, and may cause a loss of interested candidates, resulting in repeated hiring efforts that have already been expended by the District.

Staff request that the Board authorize the General Manager to proceed with the hiring process to staff the Park Ranger positions.

CASITAS MUNICIPAL WATER DISTRICT  
Inter-Office Memorandum

DATE: March 3, 2017  
TO: Board of Directors  
FROM: Denise Collin - Accounting Manager / Treasurer  
Re: Recommendation to Set Reserves

**RECOMMENDATION:**

Reserves calculated for the 2015 / 2016 fiscal yearend have resulted in a balance of \$7,384,198., in Un-Restricted, Un-Designated funds.

It is recommended to split and designate the \$7,384,198. as follows;

- Increase Storm Damage by \$1,500,000., bringing the Reserve Balance to \$3,979,850.
- Increase Variation in Water Sales by \$2,000,000., bringing the total to \$5,479,850.00.
- Increase Capital Improvements by \$2,000,000., bringing the total to \$5,000,000.
- Increase Other Post Employee Benefit (OPEB) by \$1,384,100., bringing the total to \$4,134,100.00.
- Designate to Un-Restricted Alternate Water Supply Study Reserve \$500,000.

The Designation of the above would result in a balance of \$98. in Un-Designated, Un-Restricted Reserves.

**BACKGROUND AND OVERVIEW:**

The District contracted with the Bureau of Reclamation in 1972 to construct a Storage and Conveyance System (the Dam). The repayment schedule was scheduled for 40 years and was satisfied in 2012.

The Districts Reserves in the previous years included a calculation of funds that were Restricted during the Debt Service Contract with the Bureau of Reclamation. These funds are now available to Designate in Un-Restricted Designated Funds.

It is recommended to amend the Restriction of funds due to the satisfaction of the contract and Designate the funds as outlined above.



<b>June 30th, 2016</b>	
General Fund Balance - Rabobank	5,343,739.39
Visa - Rabobank	38,872.00
LAIF	448.12
Morgan Stanley - Investments	19,402,433.93
Morgan Stanley - Money Market	46,262.11
County of Ventura Investment (C.O.V.I.)	2,852.02
<b>Total Reserves</b>	<u>24,834,607.57</u>
<i>Less: Restricted:</i>	
Due to Mira Monte Fund	119,364.15
Due to CFD Fund	453,405.37
Capital Facilities	2,065,627.82
Safe Drinking Water	60,000.00
Flexable Storage	42,312.00
	<u>2,740,709.34</u>
<b>Total available for Un-Restricted</b>	<b>22,093,898.23</b>

<b>Restricted:</b>	
Due to Mira Monte Fund	119,364.15
Due to CFD Fund	453,405.37
Capital Facilities	2,065,627.82
Safe Drinking Water	60,000.00
Flexable Storage	42,312.00
<b>Total Restricted</b>	<b>2,740,709.34</b>
<b>Un-Restricted (designated funds)</b>	
Cash Flow	3,000,000.00
Storm Damage	3,979,850.00
Variation in Water Sales	5,479,850.00
Capital Improvements	5,000,000.00
OPEB	4,134,100.00
Alternate Water Supply Studies	<u>500,000.00</u>
<b>Total Un-Restricted (designated funds)</b>	<u>22,093,800.00</u>
<b>Un-designated funds 7/01/16</b>	<u>98.23</u>
<b>Total Un-Restricted</b>	<b>22,093,898.23</b>
<b>Total Reserves 2016/2017</b>	<b>24,834,607.57</b>

Restricted funds = Funds restricted by a third party and/or for Debt Service Fund.  
 Designated funds = Funds designated by Board for specific purpose.

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**FROM:** JORDAN SWITZER, ENGINEERING TECHNICIAN  
**SUBJECT:** LAKE CASITAS MONTHLY STATUS REPORT FOR FEBRUARY, 2017  
**DATE:** MARCH 3<sup>RD</sup>, 2017

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**RECOMMENDATION:**

This item is presented for information only and no action is required.

**DISCUSSION:**

Rainfall Data for February, 2017

	<u>Casitas Dam</u>	<u>Matilija Dam*</u>
February, 2017	12.91"	13.06"
Water Year (WY) to Date (Oct 1-Sep 30)	29.48"	31.19"
Average Annual Rainfall	23.70"	28.33"

*\*Matilija Dam rain gage malfunctioning during Oct – Jan of Water Year 2017. Matilija Canyon rain gage used to represent rainfall at Matilija Dam for that period.*

Robles Fish Passage and Diversion Facilities

Diversion Data

January 2017:	4,482 A.F.	Total Diversions to Date:	5,060 A.F.
Diversion Days in January:	21	Diversion Days this WY:	25

Reservoir Data

Water Surface Elevation (02/28/17):	500.08 feet
Water Storage on March 1 <sup>st</sup> , 2017:	110,042 A.F.
Water Storage Last Month:	93,394 A.F.
Net Change in Storage	+ 16,648 A.F.
Change in Storage from February 29, 2016:	+ 2,611 A.F.

February, 2017 Monthly Diversions

Day	Diversions (af)
1-Feb	0
2-Feb	0
3-Feb	0
4-Feb	0
5-Feb	0
6-Feb	195.10
7-Feb	123.20
8-Feb	46.21
9-Feb	15.30
10-Feb	4.43
11-Feb	31.37
12-Feb	14.63
13-Feb	6.01
14-Feb	0.81
15-Feb	0
16-Feb	0
17-Feb	121.62
18-Feb	628.18
19-Feb	874.85
20-Feb	568.25
21-Feb	431.77
22-Feb	328.34
23-Feb	255.94
24-Feb	207.26
25-Feb	171.32
26-Feb	168.97
27-Feb	155.21
28-Feb	132.80
Total:	4481.57

# CASITAS MUNICIPAL WATER DISTRICT

## HYDROLOGY REPORT WATER YEAR 2015 - 2016

March 02, 2017

Prepared by  
Jordan Switzer – Engineering Technician

### Introduction

Casitas Municipal Water District (CMWD), in cooperation with the Ventura County Watershed Protection District (VCWPD) and the U.S. Geological Service (USGS), collects hydrology data on the Ventura River system. The hydrology data constitutes a valuable asset for developing an understanding of the water resources of the Ventura River system. Since 1981, the CMWD has summarized the data into a series of annual reports. This is an annual report that presents information and data for the 2015 – 2016 Water Year (2016 WY).

### Water Year 2015 – 2016 Summarized

The water year is a standard used for reporting hydrological cycles. It begins on October 01 of the preceding year and ends September 30 of the named water year. For this report, the 2016 WY began on October 01, 2015, and ended September 30, 2016.

There are four key elements of collected data that go into this report: 1) rainfall, 2) streamflow conditions, 3) lake storage & delivery and 4) ambient air temperatures. Each of these elements are monitored and recorded by CMWD on a daily basis. The following are brief summaries of the hydrologic characteristics of the 2016 WY.

- **Rainfall** – Rainfall and evaporation data are collected on a daily basis at two stations, one at the Casitas Dam and one at the Lake Casitas Recreational Area. The methods for data collection are standardized for consistency. Rainfall data for Matilija Dam are obtained from VCWPD.

The average of the three rainfall stations was 15.06 inches for the 2016 WY. This fell below the long-term average of 24.79 inches and marks the fifth consecutive year where annual rainfall failed to exceed 60% of the average for the previous fifty years. Casitas Dam received 14.64 inches while Matilija Dam received 16.20 inches.

There were two rain events that accounted for the bulk of the cumulative precipitation. From January 05 through 07, 2016; 6.01 inches fell at Casitas Dam, while 2.99 inches fell over a two-day period in early March. The highest monthly rainfall total was in January where 7.20 inches fell at Casitas Dam.

- **Streamflow Conditions**– Streamflow conditions are assessed by collecting data at key points in the Ventura River system. Gage station locations can be found on the Hydrology Map for the Ventura River System. Due to the ongoing drought, streamflow conditions were below average across the basin as antecedent soil and groundwater conditions prevented rainfall to amount to significant runoff.

Preliminary data provided by VCWPD indicate discharge from North Fork Matilija Creek totaled 357 acre-feet (AF) for the water year. Discharge from Matilija Dam measured at the Matilija Hot Springs gage, totaled 1,197 AF with a peak flow of 39 cfs on January 31<sup>st</sup>, 2016.

Surface flow was intermittent at the measurement weir of the Robles Fish Passage and Diversion Facility (Robles) from January 05 through April 13 of 2016. During that period, 316 AF were released downstream. The diversion canal was not operated during the 2016 water or calendar year. Inflow peaked at approximately 50 cfs on January 31<sup>st</sup> with a maximum daily average of 18 cfs. There were no storm events that met the Biological Opinion's parameters to initiate supplemental downstream releases for fish passage.

Coyote Creek and Santa Ana Creek drainages contribute directly to Lake Casitas storage. A total of 192 AF were measured at the Santa Ana Creek gage while 1,199 AF were estimated at the Coyote Creek gage for the 2016 Water Year. The Coyote Creek station experienced reading errors as a small landslide in an upstream tributary deposited sediment at the gaging site. The instrumentation was partially buried and the cross section was temporarily altered. Due to the remote location of the station, streamflow was estimated from gage data and limited visual observations.

- **Lake Storage & Deliveries** – Water storage volumes for system reservoirs, Casitas Dam and Matilija Dam, were ascertained by the daily recording of the reservoir elevation and applying the elevation number to a storage table for each reservoir.

Lake Casitas Reservoir had a net decrease in water storage for the 2016 WY. Lake elevation was 502.80 feet MSL on October 01, 2015 and ended on September 30, 2016 at 489.00 feet MSL, corresponding to 93,464 AF of storage in Lake Casitas at the end of the WY. January was the only month with a net gain in storage (312 AF). The reservoir's 13.8-foot drop in elevation resulted in a net loss of 20,964 AF. Since the start of the 2012 WY, Reservoir storage is down 116,000 AF and is the lowest it has been since 1966.

Water deliveries from the reservoir to the main conveyance system totaled 15,559 AF for the WY. This is nearly identical to deliveries in 2015 and down 23% from 2014. Due to low groundwater levels and taking the well offline for inspection; there was no

production from the Mira Monte well during the 2016 WY. The well returned to service in October of 2016.

Casitas Municipal Water District did not conduct any controlled releases from Matilija Dam nor operate any valves at the dam. All flow was allowed to spill over the dam for the entire water year.

- **Ambient Air Temperatures** – Data was recorded by CMWD staff at two locations, Casitas Dam and the Lake Casitas Recreation Area. These measurements are made on a daily basis and include the maximum and minimum ambient air temperatures and wind speed. Several temperature records dating back to 1960 were tied or broken during the 2016 calendar year: highest monthly maximum (February and June for Casitas Dam), and highest monthly average (October for Casitas Dam; February for Recreation).

### **Hydrology Stations**

The following hydrology stations are operated and maintained by the Casitas Municipal Water District:

Reservoir water surface elevations:

- Casitas Dam

Rainfall and Evaporation Monitoring Stations

- Lake Casitas (Upper) Recreation Area
- Casitas Dam

Streamflow Gaging Stations:

- Matilija Creek at Matilija Hot Springs
- Ventura River near Meiners Oaks
- Robles-Casitas Canal
- Santa Ana Creek near Oak View
- Coyote Creek near Oak View

The following hydrology stations are operated and maintained by other agencies:

Reservoir water surface elevations:

- Matilija Dam – Operated by Ventura County Watershed Protection District.

Rainfall Monitoring Stations

- Matilija Dam – Operated by Ventura County Watershed Protection District.

Streamflow Gauging Stations:

- Ventura River near Ventura (Foster Park) – USGS service contract
- North Fork Matilija at Matilija Hot Springs– Operated by Ventura County Watershed Protection District.

## Historical Hydrology Period – Water Years 1959 through 2016

The historical data has been updated for the reporting period and is presented for the period from 1959 through 2016. The historical data includes summaries for the Casitas Reservoir operation, Robles Diversion, rainfall, and ambient air temperature.

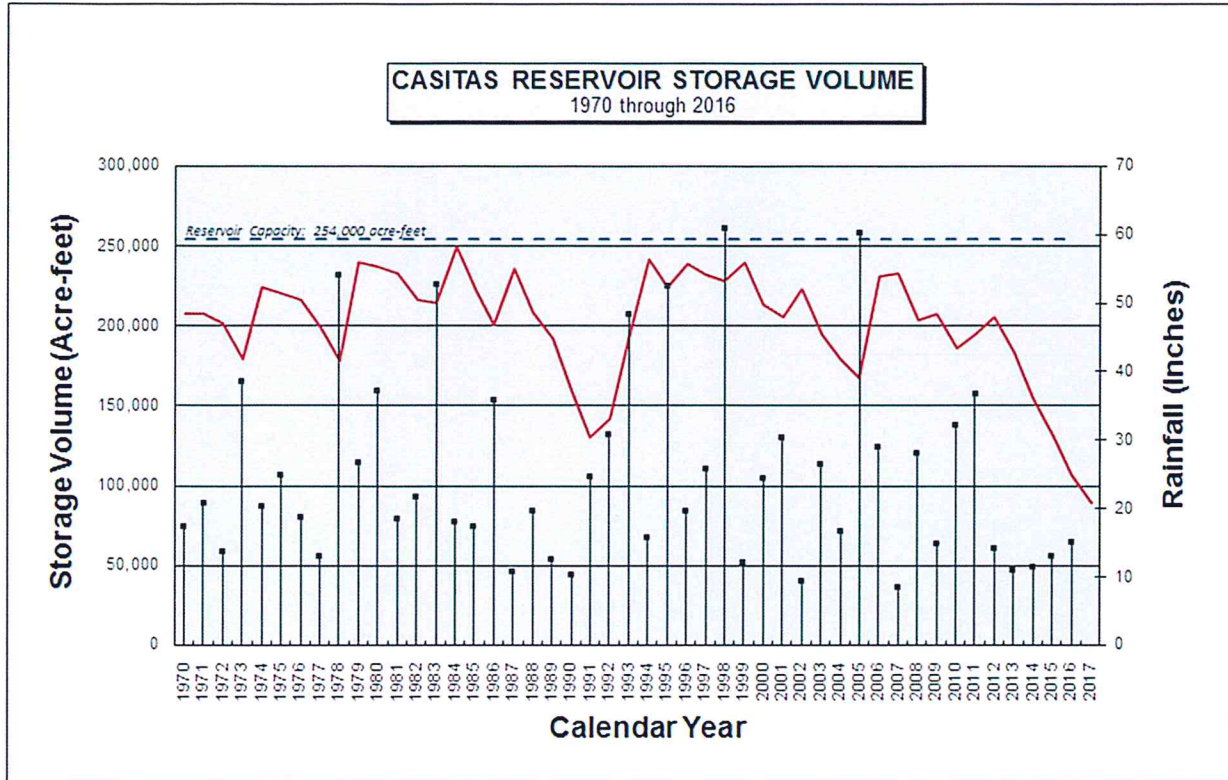


Figure 1. Storage volume, represented by a solid line, is reservoir storage at the start of each calendar year (elevation measured on last day of previous calendar year). Rainfall, represented by data points with drop lines, is the three-station water year average for Casitas Dam, Casitas Recreation and Matilija Dam rain gages. Reservoir volume prior to 1970 (not shown) represents initial filling period after Casitas Dam completion in 1959.

## Trends

The historical section of this summary report contains data tables and figures that illustrate trends experienced by CMWD pertaining to rainfall and water use.

**Ten-Year Moving Average of Mean Precipitation.** The trend presented here is a ten-year moving average of precipitation from 1880 to present (Figure 2). It is created by calculating an average of a water year's three-station average rainfall combined with the previous nine years. The trend has resulted in what appears to be a somewhat sinusoidal curve, illustrating reoccurring periods of wet and dry conditions. From the curve, we may gain an insight on whether we are heading into a wet period or a drought.

The trend indicates that CMWD may be in an overall dry period as illustrated by the downward direction of the trendline. Previous downward trends have lasted between 4 and 19 years; the current trend has lasted 15 years. This trend does not guarantee or predict future occurrences.

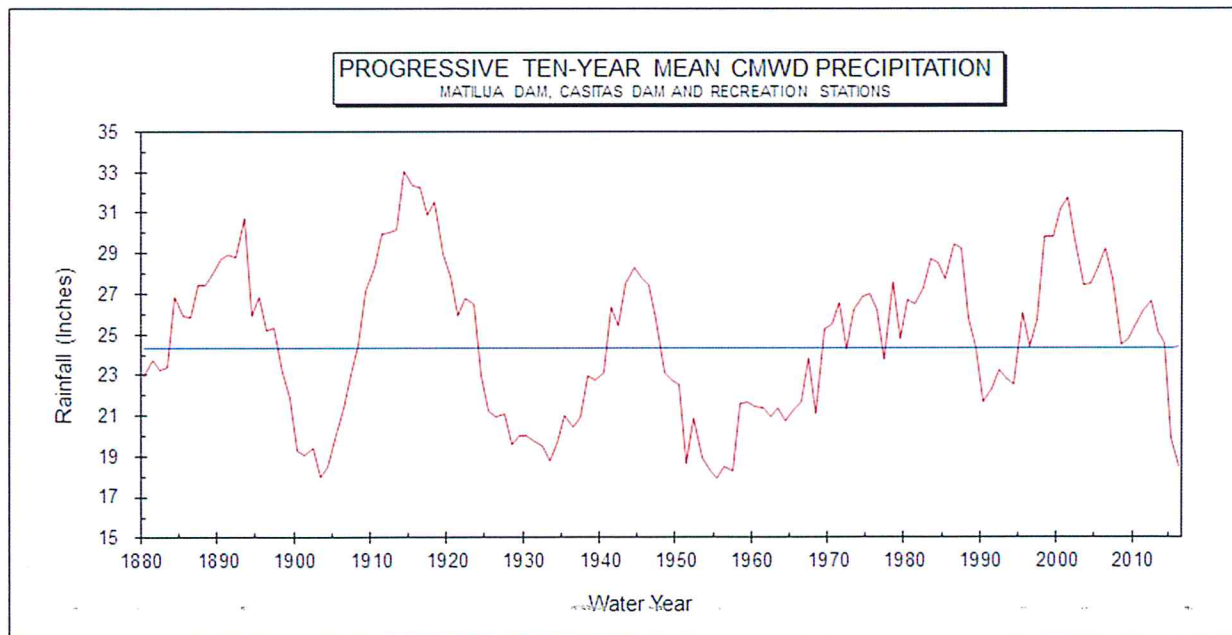


Figure 2. The ten-year moving average is represented by the solid line traversing across the overall average for the period (24.4 inches). Rainfall data for all three stations are available since 1959, rainfall prior to 1959 was assembled using comparable nearby stations and/or correlation factors with other available stations within the watershed.



# HYDROLOGY MAP – VENTURA RIVER SYSTEM

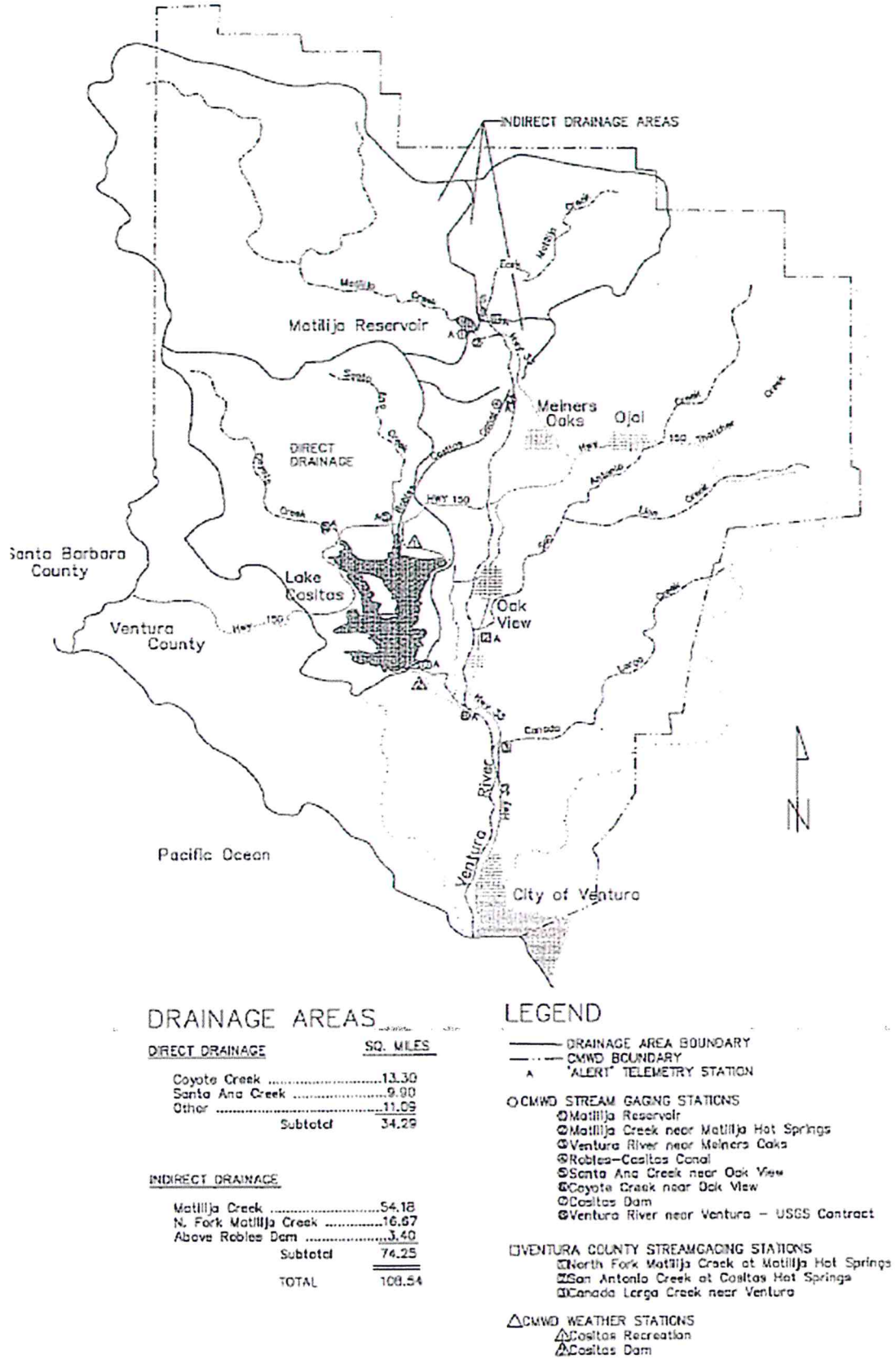


Figure 3. Hydrology map of Ventura River Watershed indicating drainages boundaries, stream gaging stations, and weather stations.

# **ANNUAL HYDROLOGY DATA**

## **Casitas Reservoir Water Inventory Summary**

## **Mira Monte Well Water Production**

## **Reservoir Water Surface Elevations:**

- Matilija Dam
- Casitas Dam (listed in Monthly Casitas Reservoir Inventory)

## **Rainfall Stations:**

- Matilija Dam
- Lake Casitas (upper) Recreation Area
- Casitas Dam

## **Streamflow Gaging Stations:**

- Matilija Creek at Matilija Hot Springs
- North Fork Matilija Creek at Matilija Hot Springs
- Ventura River near Meiners Oaks (Robles measurement weir)
- Robles – Casitas Canal
- Ventura River near Ventura (Foster Park)
- Santa Ana Creek near Oak View
- Coyote Creek near Oak View

## Casitas Reservoir Water Inventory Summary

CASITAS RESERVOIR WATER INVENTORY SUMMARY  
 2015 - 2016 WATER YEAR

(All volumes in acre-feet)

MONTH	RESERVOIR (last of previous month)	RESERVOIR INFLOW			RESERVOIR RELEASES			CHANGE IN STORAGE		
	ELEVATION (ft)	STORAGE	DIRECT	DIVERSIONS	TOTAL	PRECIP	EVAP		TO MAIN SYSTEM	SPILL
OCT 2015	502.80	114428	-463	0	-463	55	523	1760	0	-2691
NOV 2015	501.14	111737	-642	0	-642	6	353	1528	0	-2517
DEC 2015	499.56	109220	-489	0	-489	50	186	1476	0	-2101
JAN 2016	498.22	107119	15	0	15	905	122	486	0	312
FEB 2016	498.42	107431	56	0	56	294	293	698	0	-640
MAR 2016	498.01	106791	-59	0	-59	503	298	610	0	-464
APR 2016	497.71	106327	-174	0	-174	66	407	1026	0	-1540
MAY 2016	496.71	104787	-110	0	-110	4	425	1220	0	-1751
JUN 2016	495.56	103037	-50	0	-50	0	539	1542	0	-2131
JUL 2016	494.14	100906	-75	0	-75	0	601	1700	0	-2376
AUG 2016	492.53	98530	-276	0	-276	0	535	1826	0	-2637
SEP 2016	490.71	95893	-321	0	-321	0	419	1689	0	-2429
OCT 2016	489.00	93464	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL</b>			-2588	0	-2588	1883	4700	15559	0	-20964

Reservoir capacity = 254,000 a.f. @ 567 ft.

CASITAS RESERVOIR OPERATION  
OCTOBER 2015

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE	
	Elevation	Sep 30 <sup>th</sup> Surface Area (acres)	Direct	Ventura River Diversion	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	Dam (in)	at Rec (in)	Lake Total	Main System	To River		Spill
1	502.74	114330	1	0	1	0.55	0.19	38	0	0	0	61	0	0	-98
2	502.68	114232	-25	0	-25	0.05	0.05	5	0	0	0	69	0	0	-99
3	502.62	114134	-43	0	-43	0.04	0.15	10	0	0	0	45	0	0	-97
4	502.59	114087	-5	0	-5	0.08	0.13	11	0.02	0.00	1	33	0	0	-48
5	502.58	114070	-26	0	-26	0.00	0.00	0	0.38	0.40	53	43	0	0	-16
6	502.54	114005	-5	0	-5	0.11	0.14	13	0	0	0	48	0	0	-65
7	502.49	113924	-3	0	-3	0.15	0.17	16	0	0	0	62	0	0	-82
8	502.43	113826	-25	0	-25	0.06	0.18	12	0	0	0	61	0	0	-98
9	502.37	113728	-4	0	-4	0.29	0.18	24	0	0	0	70	0	0	-98
10	502.31	113630	-14	0	-14	0.25	0.19	22	0	0	0	61	0	0	-98
11	502.25	113533	-30	0	-30	0.20	0.26	23	0	0	0	45	0	0	-98
12	502.20	113451	6	0	6	0.33	0.19	26	0	0	0	61	0	0	-82
13	502.14	113353	-8	0	-8	0.21	0.18	20	0	0	0	70	0	0	-98
14	502.07	113238	-26	0	-26	0.24	0.18	21	0	0	0	69	0	0	-116
15	502.01	113141	-18	0	-18	0.15	0.21	18	0.01	0.00	1	61	0	0	-97
16	501.95	113045	-24	0	-24	0.09	0.21	15	0	0	0	57	0	0	-96
17	501.88	112931	-51	0	-51	0.13	0.17	15	0	0	0	48	0	0	-114
18	501.81	112818	-61	0	-61	0.15	0.16	16	0	0	0	36	0	0	-113
19	501.75	112722	-16	0	-16	0.20	0.18	19	0	0	0	61	0	0	-97
20	501.68	112610	-34	0	-34	0.16	0.14	15	0	0	0	63	0	0	-112
21	501.62	112512	-15	0	-15	0.14	0.17	16	0	0	0	67	0	0	-97
22	501.57	112431	-3	0	-3	0.18	0.17	18	0	0	0	61	0	0	-82
23	501.53	112366	10	0	10	0.13	0.12	13	0	0	0	61	0	0	-64
24	501.47	112270	-34	0	-34	0.12	0.16	14	0	0	0	49	0	0	-97
25	501.44	112221	6	0	6	0.10	0.18	14	0	0	0	40	0	0	-48
26	501.39	112141	-9	0	-9	0.17	0.13	15	0	0	0	57	0	0	-81
27	501.34	112060	3	0	3	0.21	0.18	20	0	0	0	64	0	0	-81
28	501.29	111981	-5	0	-5	0.07	0.17	12	0	0	0	62	0	0	-80
29	501.24	111900	0	0	0	0.26	0.14	20	0	0	0	61	0	0	-81
30	501.20	111835	23	0	23	0.25	0.18	22	0	0	0	66	0	0	-65
31	501.14	111737	-29	0	-29	0.20	0.20	20	0	0	0	49	0	0	-98
TOTAL			-463	0	-463	5.27	5.06	523	0.41	0.40	55	1760	0	0	-2691

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)  
Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
NOVEMBER 2015

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE	
	Elevation	Surface Area (acres)	Direct	Ventura River Diversion Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	Dam (in)	at Rec (in)	Lake Total	Main System	To River	Spill		
1	501.13	111721	36	0	36	0.17	0.11	13	0	0	0	39	0	0	-16
2	501.10	111673	10	0	10	0.16	0.17	16	0	0	0	42	0	0	-48
3	501.09	111656	34	0	34	0.00	0.13	6	0.04	0.00	3	48	0	0	-17
4	501.05	111592	6	0	6	0.11	0.16	13	0	0	0	57	0	0	-64
5	500.91	111368	-152	0	-152	0.15	0.14	14	0	0	0	58	0	0	-224
6	500.81	111209	-89	0	-89	0.11	0.18	14	0	0	0	56	0	0	-159
7	500.74	111097	-46	0	-46	0.12	0.14	12	0	0	0	54	0	0	-112
8	500.70	111033	-20	0	-20	0.13	0.17	14	0	0	0	30	0	0	-64
9	500.65	110954	-26	0	-26	0.11	0.14	12	0	0	0	41	0	0	-79
10	500.60	110874	-8	0	-8	0.15	0.14	14	0	0	0	58	0	0	-80
11	500.50	110714	-85	0	-85	0.10	0.16	12	0	0	0	63	0	0	-160
12	500.40	110554	-90	0	-90	0.09	0.15	11	0	0	0	59	0	0	-160
13	500.30	110395	-87	0	-87	0.13	0.13	12	0	0	0	59	0	0	-159
14	500.21	110251	-92	0	-92	0.14	0.12	12	0	0	0	40	0	0	-144
15	500.18	110204	2	0	2	0.09	0.13	10	0	0	0	39	0	0	-47
16	500.15	110156	5	0	5	0.03	0.15	9	0.05	0.00	3	47	0	0	-48
17	500.14	110140	60	0	60	0.14	0.14	13	0	0	0	62	0	0	-16
18	500.10	110076	1	0	1	0.07	0.13	10	0	0	0	55	0	0	-64
19	500.09	110058	53	0	53	0.08	0.15	11	0	0	0	60	0	0	-18
20	500.02	109948	-36	0	-36	0.11	0.13	11	0	0	0	63	0	0	-111
21	499.98	109884	10	0	10	0.24	0.17	20	0	0	0	54	0	0	-63
22	499.89	109742	-87	0	-87	0.17	0.20	18	0	0	0	38	0	0	-142
23	499.87	109711	50	0	50	0.21	0.12	16	0	0	0	65	0	0	-32
24	499.81	109616	-22	0	-22	0.04	0.17	10	0	0	0	62	0	0	-95
25	499.80	109600	45	0	45	0.04	0.11	7	0	0	0	54	0	0	-16
26	499.74	109505	-39	0	-39	0.24	0.04	13	0	0	0	42	0	0	-95
27	499.71	109458	5	0	5	0.08	0.05	6	0	0	0	46	0	0	-47
28	499.67	109395	-12	0	-12	0.10	0.05	7	0	0	0	44	0	0	-63
29	499.62	109316	-35	0	-35	0.06	0.07	6	0	0	0	38	0	0	-79
30	499.56	109220	-32	0	-32	0.12	0.04	8	0	0	0	56	0	0	-95
TOTAL			-642	0	-642	3.49	3.89	353	0.09	0.00	6	1528	0	0	-2517

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

e = estimate

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients:

Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
DECEMBER 2015

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES			
	Elevation	Surface Area (acres)	Direct	Ventura River Diversion	Pan @Dam (in)	Pan @Rec (in)	Lake Total	Dam (in)	at Rec (in)	Lake Total	Main System	To River	Spill	STORAGE CHANGE
1	499.49	109111	-43	0	-43	0.06	0.04	4	0	0	0	62	0	-109
2	499.47	109080	32	0	32	0.10	0.07	7	0	0	0	57	0	-32
3	499.43	109016	11	0	11	0.10	0.08	8	0	0	0	66	0	-63
4	499.39	108953	7	0	7	0.10	0.15	11	0	0	0	60	0	-63
5	499.33	108858	-47	0	-47	0.06	0.10	7	0	0	0	40	0	-95
6	499.31	108827	11	0	11	0.03	0.15	8	0	0	0	35	0	-32
7	499.27	108764	5	0	5	0.16	0.12	12	0	0	0	56	0	-63
8	499.22	108685	-11	0	-11	0.11	0.12	10	0	0	0	58	0	-79
9	499.18	108621	4	0	4	0.10	0.09	8	0	0	0	59	0	-63
10	499.13	108542	-20	0	-20	0.05	0.16	9	0	0	0	50	0	-79
11	499.10	108495	11	0	11	0.18	0.15	14	0	0	0	45	0	-47
12	499.07	108446	-4	0	-4	0.28	0.06	15	0	0	0	31	0	-49
13	499.03	108384	-35	0	-35	0.00	0.08	3	0	0	0	23	0	-62
14	499.00	108337	-28	0	-28	0.00	0.00	0	0.24	0.16	26	45	0	-47
15	499.00	108337	55	0	55	0.11	0.01	5	0	0	0	50	0	0
16	498.95	108259	-16	0	-16	0.08	0.03	5	0	0	0	57	0	-78
17	498.90	108181	-17	0	-17	0.05	0.07	5	0	0	0	56	0	-78
18	498.84	108087	-48	0	-48	0.06	0.01	3	0	0	0	43	0	-94
19	498.83	108072	23	0	23	0.07	0.03	4	0	0	0	34	0	-16
20	498.82	108056	-12	0	-12	0.00	0.00	0	0.16	0.20	23	27	0	-16
21	498.77	107979	-37	0	-37	0.03	0.02	2	0	0	0	38	0	-77
22	498.71	107885	-53	0	-53	0.00	0.05	2	0	0	0	39	0	-94
23	498.64	107774	-67	0	-67	0.04	0.06	4	0	0	0	39	0	-110
24	498.60	107712	-16	0	-16	0.02	0.04	3	0	0	0	44	0	-62
25	498.56	107650	-22	0	-22	0.20	0.02	9	0	0	0	31	0	-62
26	498.49	107540	-58	0	-58	0.13	0.04	7	0	0	0	44	0	-109
27	498.45	107478	-20	0	-20	0.06	0.04	4	0	0	0	38	0	-62
28	498.40	107400	-8	0	-8	0.06	0.03	4	0	0	0	66	0	-78
29	498.34	107306	-26	0	-26	0.05	0.02	3	0	0	0	65	0	-94
30	498.29	107228	-11	0	-11	0.06	0.03	4	0	0	0	63	0	-78
31	498.22	107119	-50	0	-50	0.05	0.04	4	0	0	0	56	0	-109
TOTAL			-489	0	-489	2.40	1.91	186	0.40	0.36	50	1476	0	-2101

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
JANUARY 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW			EVAPORATION			PRECIPITATION			RELEASES			
	Elevation	Storage (acres)	Direct	Ventura River		Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	To Main System	River	Spill	STORAGE CHANGE
				Diversion	Total										
1	498.13	106979	-95	0	-95	0.10	0.05	6	0	0	0	39	0	0	-140
2	498.11	106948	1	0	1	0.10	0.06	7	0	0	0	26	0	0	-31
3	498.10	106932	8	0	8	0.02	0.04	3	0	0	0	21	0	0	-16
4	498.04	106838	-64	0	-64	0.00	0.06	3	0	0	0	28	0	0	-94
5	498.07	106884	34	0	34	0.00	0.03	1	0.46	0.00	30	17	0	0	46
6	498.35	107322	166	0	166	0.00	0.00	0	1.68	2.70	284	12	0	0	438
7	498.63	107759	-38	0	-38	0.00	0.00	0	3.95	3.50	485	11	0	0	437
8	498.62	107743	-5	0	-5	0.00	0.00	0	0.02	0.00	1	12	0	0	-16
9	498.61	107728	-2	0	-2	0.07	0.01	3	0	0	0	11	0	0	-16
10	498.61	107728	4	0	4	0.00	0.00	0	0.06	0.05	7	11	0	0	0
11	498.61	107728	10	0	10	0.00	0.01	0	0.01	0.00	1	10	0	0	0
12	498.61	107728	13	0	13	0.03	0.02	2	0	0	0	11	0	0	0
13	498.59	107696	-12	0	-12	0.05	0.00	2	0	0	0	17	0	0	-31
14	498.57	107665	-11	0	-11	0.05	0.05	4	0	0	0	16	0	0	-31
15	498.56	107650	2	0	2	0.05	0.10	6	0	0	0	11	0	0	-16
16	498.56	107650	22	0	22	0.05	0.09	6	0	0	0	16	0	0	0
17	498.55	107634	2	0	2	0.02	0.09	5	0	0	0	13	0	0	-16
18	498.51	107572	-49	0	-49	0.00	0.08	3	0.05	0.00	3	13	0	0	-62
19	498.51	107572	16	0	16	0.00	0.09	4	0.03	0.05	5	17	0	0	0
20	498.57	107665	50	0	50	0.00	0.00	0	0.46	0.42	57	14	0	0	94
21	498.56	107650	4	0	4	0.05	0.05	4	0.02	0.00	1	17	0	0	-16
22	498.52	107587	-43	0	-43	0.03	0.10	5	0	0	0	14	0	0	-62
23	498.52	107587	20	0	20	0.05	0.06	5	0	0	0	15	0	0	0
24	498.50	107556	-14	0	-14	0.08	0.11	8	0	0	0	10	0	0	-31
25	498.49	107540	3	0	3	0.08	0.08	7	0	0	0	12	0	0	-16
26	498.47	107509	-5	0	-5	0.08	0.11	8	0	0	0	18	0	0	-31
27	498.45	107478	-12	0	-12	0.06	0.06	5	0	0	0	14	0	0	-31
28	498.44	107462	14	0	14	0.08	0.13	9	0	0	0	20	0	0	-16
29	498.43	107447	12	0	12	0.05	0.13	8	0	0	0	20	0	0	-16
30	498.40	107400	-28	0	-28	0.01	0.08	4	0.01	0.00	1	15	0	0	-47
31	498.42	107431	13	0	13	0.00	0.08	3	0.45	0.00	29	8	0	0	31
TOTAL			15	0	15	1.11	1.77	122	7.20	6.72	905	486	0	0	312

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR).  
Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.81, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66



CASITAS RESERVOIR OPERATION  
FEBRUARY 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW			EVAPORATION			PRECIPITATION			RELEASES			
	Elevation	Storage	Jan 31 <sup>st</sup>	Ventura	Direct	Pan @Dam	Pan @Rec	Lake Total	at Dam	at Rec	Lake Total	To Main System	River	Spill	STORAGE CHANGE
	(acres)	(acres)	107431	River		(in)	(in)	Total	(in)	(in)	Total				
1	498.53	107603	1562	-8	0	0.00	0.00	0	1.25	1.80	198	19	0	0	172
2	498.51	107572	1562	-7	0	0.17	0.04	11	0	0	0	14	0	0	-31
3	498.49	107540	1560	-6	0	0.08	0.07	8	0	0	0	18	0	0	-31
4	498.48	107525	1560	9	0	0.10	0.05	8	0	0	0	17	0	0	-16
5	498.46	107494	1560	-9	0	0.05	0.09	7	0	0	0	15	0	0	-31
6	498.44	107462	1560	-1	0	0.09	0.09	9	0	0	0	21	0	0	-31
7	498.43	107447	1560	14	0	0.16	0.10	13	0	0	0	17	0	0	-16
8	498.42	107431	1560	23	0	0.07	0.12	10	0	0	0	29	0	0	-16
9	498.41	107416	1560	33	0	0.12	0.13	13	0	0	0	36	0	0	-16
10	498.37	107353	1558	-16	0	0.12	0.13	12	0	0	0	34	0	0	-62
11	498.35	107322	1558	12	0	0.13	0.12	12	0	0	0	31	0	0	-31
12	498.32	107275	1558	-13	0	0.13	0.03	8	0	0	0	26	0	0	-47
13	498.30	107244	1558	11	0	0.15	0.12	13	0	0	0	29	0	0	-31
14	498.28	107213	1556	-2	0	0.16	0.12	14	0	0	0	15	0	0	-31
15	498.26	107182	1556	9	0	0.07	0.13	10	0	0	0	31	0	0	-31
16	498.24	107150	1556	22	0	0.09	0.10	9	0	0	0	43	0	0	-31
17	498.21	107104	1556	-13	0	0.16	0.10	13	0	0	0	21	0	0	-47
18	498.26	107182	1556	-8	0	0.00	0.00	0	0.93	0.55	96	10	0	0	78
19	498.24	107150	1556	-6	0	0.02	0.10	6	0	0	0	19	0	0	-31
20	498.20	107088	1556	-42	0	0.04	0.10	7	0	0	0	13	0	0	-62
21	498.19	107072	1555	24	0	0.22	0.09	15	0	0	0	24	0	0	-16
22	498.16	107026	1555	-18	0	0.06	0.11	8	0	0	0	20	0	0	-47
23	498.15	107010	1555	22	0	0.08	0.13	10	0	0	0	27	0	0	-16
24	498.11	106948	1555	-22	0	0.12	0.12	12	0	0	0	29	0	0	-62
25	498.09	106915	1553	6	0	0.18	0.13	15	0	0	0	24	0	0	-33
26	498.07	106884	1553	13	0	0.11	0.12	11	0	0	0	32	0	0	-31
27	498.05	106853	1553	5	0	0.09	0.12	10	0	0	0	26	0	0	-31
28	498.02	106807	1553	-9	0	0.16	0.12	14	0	0	0	23	0	0	-46
29	498.01	106791	1553	33	0	0.14	0.11	12	0	0	0	36	0	0	-15
TOTAL				56	0	3.07	2.79	293	2.18	2.35	294	698	0	0	-640

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
MARCH 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES				
	Elevation	Surface Area (acres)	Direct	Ventura River Diversion	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	Main System	To River	Spill	STORAGE CHANGE
1	497.98	106746	8	0	8	0.10	0.13	11	0	0	0	42	0	0	-45
2	497.95	106700	3	0	3	0.12	0.08	10	0	0	0	40	0	0	-47
3	497.91	106638	-34	0	-34	0.08	0.12	10	0	0	0	18	0	0	-62
4	497.90	106622	13	0	13	0.11	0.08	9	0	0	0	19	0	0	-16
5	497.88	106591	-11	0	-11	0.05	0.08	6	0	0	0	14	0	0	-31
6	498.03	106822	-64	0	-64	0.00	0.00	0	2.21	2.50	305	9	0	0	231
7	498.08	106899	1	0	1	0.00	0.00	0	0.78	0.55	86	10	0	0	77
8	498.10	106932	42	0	42	0.04	0.00	2	0.02	0.05	5	12	0	0	33
9	498.08	106899	-11	0	-11	0.14	0.04	9	0	0	0	13	0	0	-33
10	498.07	106884	7	0	7	0.11	0.10	10	0	0	0	12	0	0	-15
11	498.06	106868	6	0	6	0.09	0.09	9	0	0	0	12	0	0	-15
12	498.13	106979	32	0	32	0.00	0.00	0	0.72	0.65	89	10	0	0	110
13	498.11	106948	-7	0	-7	0.15	0.12	13	0	0	0	11	0	0	-31
14	498.10	106932	4	0	4	0.07	0.00	3	0	0	0	16	0	0	-16
15	498.09	106915	9	0	9	0.10	0.08	9	0	0	0	18	0	0	-17
16	498.07	106884	-7	0	-7	0.19	0.12	15	0	0	0	9	0	0	-31
17	498.05	106853	-3	0	-3	0.14	0.11	12	0	0	0	16	0	0	-31
18	498.03	106822	1	0	1	0.14	0.11	12	0	0	0	20	0	0	-31
19	498.01	106791	0	0	0	0.17	0.08	12	0	0	0	18	0	0	-31
20	498.00	106776	16	0	16	0.09	0.10	9	0	0	0	22	0	0	-15
21	497.98	106746	1	0	1	0.11	0.11	11	0	0	0	20	0	0	-30
22	497.97	106731	15	0	15	0.18	0.07	12	0	0	0	18	0	0	-16
23	497.93	106669	-23	0	-23	0.27	0.12	19	0	0	0	20	0	0	-62
24	497.90	106622	-8	0	-8	0.13	0.12	12	0	0	0	26	0	0	-47
25	497.88	106591	9	0	9	0.19	0.10	14	0	0	0	26	0	0	-31
26	497.85	106545	-6	0	-6	0.23	0.08	15	0	0	0	25	0	0	-47
27	497.83	106514	2	0	2	0.10	0.09	9	0	0	0	23	0	0	-31
28	497.81	106483	5	0	5	0.16	0.13	14	0	0	0	21	0	0	-31
29	497.77	106420	-24	0	-24	0.20	0.07	13	0	0	0	26	0	0	-63
30	497.74	106374	-26	0	-26	0.09	0.00	4	0.04	0.25	19	34	0	0	-46
31	497.71	106327	-7	0	-7	0.11	0.08	9	0	0	0	30	0	0	-46
TOTAL			-59	0	-59	3.66	2.41	298	3.77	4.00	503	610	0	0	-464

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR).  
Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.81, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
APRIL 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES			
	Elevation	Surface Area (acres)	Direct	Ventura River Diversion Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	Dam (in)	at Rec (in)	Lake Total	Main System	To River	Spill	STORAGE CHANGE
1	497.67	106266	-14	0	-14	0.17	0.02	10	0	0	38	0	0	-62
2	497.66	106250	20	0	20	0.11	0.10	11	0	0	24	0	0	-15
3	497.63	106204	-17	0	-17	0.10	0.07	9	0	0	21	0	0	-46
4	497.62	106189	28	0	28	0.19	0.07	13	0	0	30	0	0	-15
5	497.58	106128	-14	0	-14	0.17	0.09	13	0	0	33	0	0	-61
6	497.56	106097	15	0	15	0.17	0.11	14	0	0	32	0	0	-31
7	497.52	106035	-20	0	-20	0.17	0.10	14	0	0	28	0	0	-62
8	497.50	106004	-20	0	-20	0.09	0.00	5	0.06	0.05	13	0	0	-31
9	497.52	106035	34	0	34	0.00	0.07	4	0.20	0.00	12	0	0	31
10	497.53	106051	-17	0	-17	0.00	0.00	0	0.26	0.45	13	0	0	16
11	497.50	106004	-25	0	-25	0.00	0.03	2	0.01	0.00	20	0	0	-47
12	497.59	106144	175	0	175	0.19	0.08	14	0	0	22	0	0	140
13	497.56	106097	-11	0	-11	0.18	0.09	14	0	0	21	0	0	-47
14	497.54	106066	11	0	11	0.16	0.10	13	0	0	29	0	0	-31
15	497.51	106020	2	0	2	0.25	0.09	18	0	0	31	0	0	-47
16	497.45	105927	-43	0	-43	0.30	0.10	21	0	0	30	0	0	-93
17	497.44	105911	29	0	29	0.18	0.12	15	0	0	30	0	0	-16
18	497.39	105833	-22	0	-22	0.25	0.13	20	0	0	37	0	0	-78
19	497.36	105786	26	0	26	0.22	0.09	16	0	0	56	0	0	-46
20	497.30	105694	-15	0	-15	0.38	0.11	25	0	0	52	0	0	-92
21	497.25	105617	-5	0	-5	0.20	0.09	15	0	0	57	0	0	-77
22	497.20	105540	-6	0	-6	0.20	0.09	15	0	0	56	0	0	-77
23	497.16	105479	-2	0	-2	0.20	0.09	15	0	0	44	0	0	-61
24	497.12	105417	-14	0	-14	0.19	0.09	14	0	0	34	0	0	-62
25	497.04	105292	-71	0	-71	0.19	0.10	15	0	0	39	0	0	-125
26	496.94	105139	-83	0	-83	0.29	0.09	19	0	0	51	0	0	-153
27	496.85	105002	-54	0	-54	0.47	0.09	29	0	0	55	0	0	-137
28	496.78	104894	-62	0	-62	0.04	0.09	7	0	0	39	0	0	-108
29	496.74	104833	-2	0	-2	0.22	0.09	16	0	0	43	0	0	-61
30	496.71	104787	2	0	2	0.16	0.09	13	0	0	35	0	0	-46
TOTAL			-174	0	-174	5.44	2.48	407	0.53	0.50	1026	0	0	-1540

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

e = estimate

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION

MAY 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW			EVAPORATION			PRECIPITATION			RELEASES			
	Elevation	Apr 30 <sup>th</sup> Surface Storage (acres)	Direct	Ventura River Diversion	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	To Main System	To River	Spill	STORAGE CHANGE
1	496.68	104741	-7	0	-7	0.15	0.10	13	0	0	0	26	0	0	-46
2	496.65	104696	13	0	13	0.24	0.09	17	0	0	0	42	0	0	-46
3	496.60	104619	-13	0	-13	0.21	0.08	15	0	0	0	48	0	0	-77
4	496.56	104557	3	0	3	0.19	0.11	15	0	0	0	49	0	0	-62
5	496.51	104481	-16	0	-16	0.12	0.08	10	0	0	0	50	0	0	-76
6	496.48	104436	12	0	12	0.13	0.09	11	0	0	0	46	0	0	-45
7	496.44	104375	-33	0	-33	0.08	0.11	10	0.04	0.00	3	21	0	0	-61
8	496.42	104345	2	0	2	0.14	0.09	12	0.02	0.00	1	22	0	0	-31
9	496.40	104314	19	0	19	0.18	0.11	15	0	0	0	35	0	0	-31
10	496.35	104238	-31	0	-31	0.10	0.12	11	0	0	0	35	0	0	-77
11	496.33	104207	15	0	15	0.14	0.08	11	0	0	0	34	0	0	-31
12	496.30	104161	4	0	4	0.18	0.10	14	0	0	0	36	0	0	-46
13	496.26	104100	-12	0	-12	0.13	0.08	11	0	0	0	39	0	0	-61
14	496.23	104054	2	0	2	0.19	0.11	15	0	0	0	33	0	0	-46
15	496.20	104008	0	0	0	0.15	0.12	14	0	0	0	32	0	0	-46
16	496.18	103977	22	0	22	0.14	0.09	12	0	0	0	41	0	0	-31
17	496.13	103901	-14	0	-14	0.25	0.10	18	0	0	0	44	0	0	-77
18	496.09	103838	4	0	4	0.14	0.12	13	0	0	0	54	0	0	-63
19	496.04	103762	-18	0	-18	0.20	0.09	15	0	0	0	43	0	0	-76
20	496.00	103702	-8	0	-8	0.13	0.09	11	0	0	0	41	0	0	-60
21	495.95	103627	-24	0	-24	0.15	0.08	12	0	0	0	39	0	0	-76
22	495.92	103581	11	0	11	0.31	0.08	20	0	0	0	36	0	0	-45
23	495.88	103521	-6	0	-6	0.17	0.08	13	0	0	0	41	0	0	-60
24	495.83	103445	-8	0	-8	0.24	0.09	17	0	0	0	51	0	0	-76
25	495.79	103385	0	0	0	0.14	0.09	12	0	0	0	48	0	0	-60
26	495.73	103294	-30	0	-30	0.15	0.11	13	0	0	0	48	0	0	-91
27	495.69	103235	-1	0	-1	0.18	0.09	14	0	0	0	44	0	0	-60
28	495.65	103174	-2	0	-2	0.26	0.08	17	0	0	0	41	0	0	-61
29	495.62	103128	-4	0	-4	0.19	0.12	16	0	0	0	26	0	0	-46
30	495.59	103082	-10	0	-10	0.13	0.11	12	0	0	0	25	0	0	-47
31	495.56	103037	21	0	21	0.17	0.11	14	0	0	0	52	0	0	-45
TOTAL			-110	0	-110	5.28	3.00	425	0.06	0.00	4	1220	0	0	-1751

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
JUNE 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE	
	Elevation	Surface Area (acres)	Direct	Ventura River Diversion	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	To Main System	River Spill		
															May 31 <sup>st</sup> Storage
1	495.51	102961	-2	0	-2	0.29	0.10	20	0	0	0	53	0	0	-76
2	495.46	102886	1	0	1	0.34	0.08	22	0	0	0	55	0	0	-76
3	495.42	102825	4	0	4	0.16	0.11	14	0	0	0	50	0	0	-60
4	495.37	102750	-1	0	-1	0.35	0.12	24	0	0	0	50	0	0	-76
5	495.32	102674	-22	0	-22	0.29	0.09	20	0	0	0	33	0	0	-76
6	495.28	102614	5	0	5	0.23	0.12	18	0	0	0	47	0	0	-60
7	495.23	102538	5	0	5	0.45	0.11	29	0	0	0	51	0	0	-76
8	495.17	102448	-29	0	-29	0.02	0.09	6	0	0	0	56	0	0	-91
9	495.11	102357	-17	0	-17	0.22	0.09	16	0	0	0	58	0	0	-91
10	495.07	102295	12	0	12	0.21	0.12	17	0	0	0	57	0	0	-62
11	495.01	102206	-41	0	-41	0.11	0.08	10	0	0	0	39	0	0	-89
12	494.97	102147	-21	0	-21	0.07	0.08	8	0	0	0	31	0	0	-59
13	494.94	102102	12	0	12	0.07	0.14	11	0	0	0	46	0	0	-45
14	494.90	102042	9	0	9	0.29	0.08	19	0	0	0	50	0	0	-60
15	494.84	101952	-22	0	-22	0.22	0.11	17	0	0	0	51	0	0	-90
16	494.79	101876	-2	0	-2	0.12	0.08	10	0	0	0	64	0	0	-76
17	494.75	101817	-15	0	-15	0.19	0.11	15	0	0	0	29	0	0	-60
18	494.70	101742	-9	0	-9	0.30	0.11	21	0	0	0	44	0	0	-75
19	494.66	101682	4	0	4	0.28	0.12	20	0	0	0	43	0	0	-60
20	494.61	101608	6	0	6	0.35	0.12	24	0	0	0	56	0	0	-75
21	494.55	101519	10	0	10	0.33	0.16	25	0	0	0	74	0	0	-89
22	494.49	101429	-1	0	-1	0.32	0.11	22	0	0	0	67	0	0	-90
23	494.43	101339	-12	0	-12	0.27	0.08	18	0	0	0	60	0	0	-90
24	494.37	101248	-16	0	-16	0.24	0.10	17	0	0	0	58	0	0	-91
25	494.32	101174	-6	0	-6	0.30	0.12	21	0	0	0	47	0	0	-75
26	494.28	101114	2	0	2	0.27	0.11	19	0	0	0	42	0	0	-60
27	494.25	101070	22	0	22	0.18	0.11	15	0	0	0	52	0	0	-45
28	494.22	101025	42	0	42	0.29	0.10	20	0	0	0	66	0	0	-45
29	494.18	100966	17	0	17	0.31	0.10	21	0	0	0	55	0	0	-59
30	494.14	100906	16	0	16	0.29	0.11	20	0	0	0	56	0	0	-60
TOTAL			-50	0	-50	7.36	3.16	539	0.00	0.00	0	1542	0	0	-2131

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

e = estimate

CASITAS RESERVOIR OPERATION  
JULY 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW			EVAPORATION			PRECIPITATION			RELEASES			
	Elevation	Surface Area (acres)	Direct	Ventura River Diversion	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	To Main System	River	To Spill	STORAGE CHANGE
1	494.09	100829	-1	0	-1	0.27	0.11	19	0	0	0	56	0	0	-77
2	494.05	100770	8	0	8	0.34	0.11	23	0	0	0	44	0	0	-59
3	494.02	100726	5	0	5	0.18	0.12	15	0	0	0	35	0	0	-44
4	493.97	100652	-10	0	-10	0.44	0.10	27	0	0	0	36	0	0	-74
5	493.93	100592	9	0	9	0.25	0.14	20	0	0	0	49	0	0	-59
6	493.88	100518	-3	0	-3	0.19	0.09	14	0	0	0	57	0	0	-74
7	493.83	100444	4	0	4	0.23	0.11	17	0	0	0	61	0	0	-74
8	493.78	100370	-11	0	-11	0.22	0.11	17	0	0	0	47	0	0	-74
9	493.74	100311	13	0	13	0.25	0.10	18	0	0	0	55	0	0	-59
10	493.69	100237	-17	0	-17	0.25	0.09	17	0	0	0	40	0	0	-74
11	493.65	100178	19	0	19	0.30	0.11	20	0	0	0	58	0	0	-59
12	493.61	100119	14	0	14	0.23	0.11	17	0	0	0	56	0	0	-59
13	493.56	100044	0	0	0	0.20	0.12	16	0	0	0	59	0	0	-75
14	493.52	99985	19	0	19	0.29	0.11	20	0	0	0	58	0	0	-59
15	493.47	99913	2	0	2	0.26	0.09	17	0	0	0	57	0	0	-73
16	493.43	99853	8	0	8	0.23	0.17	20	0	0	0	47	0	0	-59
17	493.39	99794	-8	0	-8	0.22	0.09	15	0	0	0	36	0	0	-59
18	493.35	99735	19	0	19	0.43	0.11	27	0	0	0	52	0	0	-59
19	493.30	99661	11	0	11	0.29	0.10	19	0	0	0	65	0	0	-74
20	493.22	99543	-29	0	-29	0.33	0.12	22	0	0	0	67	0	0	-118
21	493.16	99454	-6	0	-6	0.26	0.04	15	0	0	0	68	0	0	-89
22	493.08	99334	-33	0	-33	0.29	0.14	21	0	0	0	66	0	0	-120
23	493.03	99261	21	0	21	0.36	0.14	25	0	0	0	69	0	0	-73
24	492.96	99159	-40	0	-40	0.31	0.12	21	0	0	0	40	0	0	-102
25	492.91	99086	0	0	0	0.14	0.13	13	0	0	0	60	0	0	-74
26	492.85	98997	-4	0	-4	0.29	0.12	20	0	0	0	65	0	0	-89
27	492.77	98880	-30	0	-30	0.33	0.10	21	0	0	0	66	0	0	-117
28	492.71	98793	7	0	7	0.39	0.12	25	0	0	0	69	0	0	-88
29	492.64	98690	-18	0	-18	0.24	0.11	17	0	0	0	67	0	0	-102
30	492.57	98589	-32	0	-32	0.25	0.12	18	0	0	0	52	0	0	-102
31	492.53	98530	7	0	7	0.33	0.13	23	0	0	0	44	0	0	-59
TOTAL			-75	0	-75	8.59	3.48	601	0.00	0.00	0	1700	0	0	-2376

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
AUGUST 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES						
	Elevation	Surface Area (acres)	Direct	Ventura River	Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	To Main System	River	Spill	STORAGE CHANGE			
1	492.48	98456	1461	1461	-1	0	-1	0.27	0.12	19	0	0	0	54	0	0	-74
2	492.45	98412	1461	1461	43	0	43	0.37	0.10	23	0	0	0	64	0	0	-44
3	492.42	98368	1461	1461	39	0	39	0.28	0.11	19	0	0	0	64	0	0	-44
4	492.36	98281	1459	1459	-7	0	-7	0.17	0.10	13	0	0	0	67	0	0	-88
5	492.28	98165	1457	1457	-29	0	-29	0.28	0.11	19	0	0	0	68	0	0	-116
6	492.22	98076	1457	1457	-23	0	-23	0.15	0.11	13	0	0	0	52	0	0	-88
7	492.14	97958	1456	1456	-53	0	-53	0.39	0.10	24	0	0	0	41	0	0	-118
8	492.09	97885	1454	1454	-7	0	-7	0.15	0.10	12	0	0	0	54	0	0	-74
9	492.05	97827	1454	1454	16	0	16	0.18	0.10	14	0	0	0	61	0	0	-58
10	492.01	97769	1454	1454	15	0	15	0.19	0.12	15	0	0	0	58	0	0	-58
11	491.97	97710	1452	1452	27	0	27	0.32	0.11	21	0	0	0	64	0	0	-59
12	491.93	97652	1452	1452	21	0	21	0.16	0.11	13	0	0	0	66	0	0	-58
13	491.87	97567	1451	1451	-16	0	-16	0.24	0.10	17	0	0	0	53	0	0	-86
14	491.81	97480	1451	1451	-19	0	-19	0.38	0.11	24	0	0	0	44	0	0	-87
15	491.73	97363	1449	1449	-34	0	-34	0.26	0.13	19	0	0	0	63	0	0	-116
16	491.69	97307	1448	1448	30	0	30	0.32	0.11	21	0	0	0	66	0	0	-57
17	491.64	97234	1448	1448	18	0	18	0.25	0.10	17	0	0	0	74	0	0	-73
18	491.55	97104	1446	1446	-42	0	-42	0.30	0.12	20	0	0	0	68	0	0	-131
19	491.48	97001	1444	1444	-21	0	-21	0.16	0.12	14	0	0	0	67	0	0	-102
20	491.38	96858	1443	1443	-73	0	-73	0.18	0.11	14	0	0	0	57	0	0	-143
21	491.28	96712	1441	1441	-79	0	-79	0.34	0.11	22	0	0	0	45	0	0	-146
22	491.23	96640	1441	1441	2	0	2	0.21	0.09	15	0	0	0	59	0	0	-72
23	491.17	96555	1440	1440	-1	0	-1	0.25	0.10	17	0	0	0	68	0	0	-86
24	491.10	96453	1440	1440	-16	0	-16	0.26	0.10	17	0	0	0	68	0	0	-102
25	491.04	96365	1438	1438	-15	0	-15	0.18	0.11	14	0	0	0	58	0	0	-88
26	490.98	96279	1436	1436	-7	0	-7	0.39	0.11	24	0	0	0	54	0	0	-86
27	490.93	96208	1436	1436	-13	0	-13	0.17	0.13	15	0	0	0	44	0	0	-72
28	490.85	96094	1435	1435	-74	0	-74	0.08	0.12	10	0	0	0	31	0	0	-114
29	490.82	96051	1435	1435	28	0	28	0.23	0.12	17	0	0	0	54	0	0	-43
30	490.78	95993	1433	1433	29	0	29	0.22	0.12	16	0	0	0	70	0	0	-57
31	490.71	95893	1433	1433	-14	0	-14	0.21	0.11	15	0	0	0	71	0	0	-100
TOTAL					-276	0	-276	7.54	3.41	535	0.00	0.00	0	1826	0	0	-2637

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION  
SEPTEMBER 2016

\*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 2400 hrs.)		INFLOW		EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE			
	Elevation	Aug 31 <sup>st</sup> Surface Storage (acres)	Direct	Ventura River Diversion Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	Dam (in)	at Rec (in)	Lake Total	To Main System	River	Spill				
1	490.64	95793	1432	1432	0	0	-21	0.24	0.10	15	0	0	0	64	0	0	-100
2	490.52	95622	1430	1430	0	0	-90	0.26	0.09	16	0	0	0	66	0	0	-172
3	490.46	95536	1428	1428	0	0	-20	0.22	0.12	15	0	0	0	51	0	0	-86
4	490.41	95464	1428	1428	0	0	-30	0.24	0.09	15	0	0	0	27	0	0	-72
5	490.37	95407	1427	1427	0	0	1	0.19	0.11	14	0	0	0	45	0	0	-57
6	490.32	95336	1427	1427	0	0	-7	0.09	0.08	8	0	0	0	57	0	0	-72
7	490.27	95264	1425	1425	0	0	3	0.20	0.12	14	0	0	0	60	0	0	-72
8	490.21	95178	1425	1425	0	0	-16	0.17	0.08	11	0	0	0	59	0	0	-86
9	490.15	95093	1424	1424	0	0	-14	0.28	0.09	17	0	0	0	55	0	0	-86
10	490.10	95021	1424	1424	0	0	-18	0.21	0.08	13	0	0	0	40	0	0	-72
11	490.06	94963	1422	1422	0	0	-6	0.34	0.09	19	0	0	0	33	0	0	-58
12	490.02	94906	1422	1422	0	0	3	0.06	0.11	8	0	0	0	52	0	0	-56
13	489.97	94836	1420	1420	0	0	4	0.26	0.08	15	0	0	0	59	0	0	-70
14	489.91	94751	1420	1420	0	0	-11	0.14	0.07	9	0	0	0	65	0	0	-85
15	489.84	94651	1419	1419	0	0	-36	0.09	0.00	4	0	0	0	59	0	0	-100
16	489.78	94568	1417	1417	0	0	-8	0.28	0.08	16	0	0	0	60	0	0	-84
17	489.72	94482	1417	1417	0	0	-16	0.28	0.12	18	0	0	0	52	0	0	-85
18	489.68	94425	1416	1416	0	0	-3	0.27	0.09	16	0	0	0	38	0	0	-58
19	489.64	94368	1416	1416	0	0	15	0.15	0.11	12	0	0	0	60	0	0	-56
20	489.58	94284	1414	1414	0	0	-15	0.06	0.10	7	0	0	0	63	0	0	-85
21	489.52	94199	1414	1414	0	0	-1	0.16	0.11	12	0	0	0	71	0	0	-85
22	489.46	94115	1412	1412	0	0	-14	0.22	0.00	10	0	0	0	61	0	0	-84
23	489.41	94044	1412	1412	0	0	5	0.32	0.12	20	0	0	0	57	0	0	-71
24	489.36	93973	1411	1411	0	0	-7	0.25	0.11	16	0	0	0	48	0	0	-72
25	489.31	93902	1411	1411	0	0	-17	0.10	0.11	9	0	0	0	44	0	0	-71
26	489.26	93832	1409	1409	0	0	21	0.43	0.12	25	0	0	0	67	0	0	-70
27	489.19	93732	1408	1408	0	0	-8	0.32	0.12	20	0	0	0	73	0	0	-100
28	489.12	93633	1408	1408	0	0	-7	0.25	0.11	16	0	0	0	75	0	0	-99
29	489.06	93548	1406	1406	0	0	-9	0.19	0.09	12	0	0	0	63	0	0	-85
30	489.00	93464	1406	1406	0	0	-1	0.28	0.09	16	0	0	0	67	0	0	-84
TOTAL							-321	6.55	2.79	419	0.00	0.00	0	1689	0	0	-2429

Reservoir capacity = 254,000 acre-feet at 567 ft. elevation.

e = estimate

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66



## **Mira Monte Well Water Production**

# Mira Monte Well

Water Year 2015 – 2016

<b>Month</b>	<b>Acre Feet</b>
Oct – 15	0.00
Nov – 15	0.00
Dec – 15	0.00
Jan – 16	0.00
Feb – 16	0.00
Mar – 16	0.00
Apr - 16	0.00
May – 16	0.00
Jun – 16	0.00
Jul – 16	0.00
Aug – 16	0.00
Sep – 16	0.00
<b>Total:</b>	<b>0.00 AF</b>

## Lake Matilija Water Surface Elevation

# Matilija Reservoir Lake Elevation

**WATER YEAR OCTOBER 2015 THROUGH SEPTEMBER 2016**

*Daily mean elevation, feet above mean sea level*

**SPILL OVER DAM @ 1095.35 ELEVATION**

Day	2014												2015											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1095.40	1095.30	1095.41	1095.51	1095.54	1095.52	1095.57	1095.48	1095.46	1095.38	1095.24	1094.90												
2	1095.32	1095.19	1095.45	1095.51	1095.49	1095.52	1095.57	1095.48	1095.45	1095.38	1095.23	1094.89												
3	1095.32	1095.35	1095.42	1095.51	1095.49	1095.52	1095.57	1095.48	1095.45	1095.38	1095.22	1094.88												
4	1095.21	1095.37	1095.35	1095.51	1095.50	1095.52	1095.57	1095.47	1095.44	1095.38	1095.22	1094.87												
5	1095.34	1095.36	1095.36	1095.56	1095.50	1095.53	1095.58	1095.48	1095.44	1095.38	1095.21	1094.86												
6	1095.41	1095.39	1095.44	1095.57	1095.50	1095.60	1095.58	1095.49	1095.43	1095.38	1095.20	1094.85												
7	1095.46	1095.45	1095.48	1095.56	1095.50	1095.57	1095.58	1095.50	1095.43	1095.38	1095.19	1094.84												
8	1095.52	1095.47	1095.47	1095.51	1095.50	1095.57	1095.58	1095.50	1095.43	1095.38	1095.18	1094.83												
9	1095.45	1095.41	1095.45	1095.48	1095.50	1095.56	1095.60	1095.50	1095.43	1095.38	1095.18	1094.83												
10	1095.14	1095.37	1095.43	1095.49	1095.50	1095.56	1095.59	1095.50	1095.43	1095.38	1095.17	1094.82												
11	1095.16	1095.36	1095.41	1095.50	1095.51	1095.57	1095.57	1095.50	1095.43	1095.38	1095.16	1094.81												
12	1095.15	1095.35	1095.39	1095.49	1095.51	1095.59	1095.56	1095.50	1095.44	1095.38	1095.15	1094.80												
13	1095.17	1095.37	1095.43	1095.49	1095.51	1095.57	1095.55	1095.50	1095.44	1095.38	1095.14	1094.80												
14	1095.08	1095.30	1095.43	1095.49	1095.50	1095.57	1095.55	1095.49	1095.44	1095.37	1095.12	1094.79												
15	1095.27	1095.28	1095.48	1095.49	1095.50	1095.58	1095.53	1095.49	1095.43	1095.37	1095.11	1094.78												
16	1095.27	1095.34	1095.52	1095.49	1095.50	1095.58	1095.52	1095.49	1095.43	1095.37	1095.09	1094.77												
17	1095.28	1095.40	1095.50	1095.49	1095.50	1095.59	1095.52	1095.48	1095.43	1095.37	1095.08	1094.76												
18	1095.26	1095.47	1095.48	1095.49	1095.53	1095.61	1095.52	1095.48	1095.43	1095.36	1095.06	1094.75												
19	1095.23	1095.41	1095.49	1095.49	1095.52	1095.61	1095.52	1095.47	1095.42	1095.35	1095.04	1094.74												
20	1095.26	1095.31	1095.51	1095.52	1095.52	1095.61	1095.52	1095.47	1095.42	1095.35	1095.03	1094.73												
21	1095.28	1095.25	1095.53	1095.51	1095.51	1095.61	1095.52	1095.47	1095.41	1095.34	1095.02	1094.73												
22	1095.30	1095.27	1095.55	1095.49	1095.51	1095.61	1095.52	1095.47	1095.41	1095.33	1095.00	1094.72												
23	1095.27	1095.29	1095.55	1095.49	1095.51	1095.58	1095.51	1095.47	1095.40	1095.31	1094.99	1094.70												
24	1095.27	1095.29	1095.53	1095.49	1095.51	1095.58	1095.49	1095.47	1095.40	1095.30	1094.98	1094.68												
25	1095.28	1095.26	1095.52	1095.48	1095.51	1095.58	1095.49	1095.47	1095.40	1095.30	1094.97	1094.67												
26	1095.27	1095.34	1095.51	1095.48	1095.52	1095.57	1095.48	1095.47	1095.40	1095.29	1094.96	1094.65												
27	1095.24	1095.38	1095.50	1095.48	1095.52	1095.57	1095.48	1095.47	1095.40	1095.28	1094.95	1094.64												
28	1095.32	1095.38	1095.51	1095.48	1095.52	1095.58	1095.48	1095.46	1095.39	1095.27	1094.95	1094.63												
29	1095.27	1095.43	1095.51	1095.48	1095.51	1095.58	1095.47	1095.46	1095.39	1095.27	1094.94	1094.63												
30	1095.23	1095.38	1095.51	1095.48	1095.51	1095.59	1095.48	1095.46	1095.39	1095.26	1094.93	1094.62												
31	1095.27	-----	1095.51	1095.52	-----	1095.58	-----	1095.46	-----	1095.25	1094.91	-----												

*Data is provisional and subject to revision.*

*Estimated*

## Rainfall Stations

VENTURA COUNTY, CALIFORNIA  
WATER SURVEY  
**DAILY RAINFALL RECORD**

STATION: **Matilija Dam**  
 OBSERVER: Automated  
 AUTHORITY: Ventura County Watershed Protection District  
 ADDRESS: 800 S. Victoria Ave, Ventura, CA 93009  
 COMPILED: Bill Carey/Hydrologist

NUMBER: 134  
 OBSER. TIME: 0800  
 LATITUDE: 34°29' N  
 LONGITUDE: 119°18' W  
 ELEV: 1060 ft

**2015-16**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					2.91							
2												
3		0.01										
4	0.02											
5	0.41			0.64								
6				2.21		2.93						
7				1.97		0.77		0.26				
8						0.05	0.01					
9							0.56					
10				0.03			0.47					
11												
12						0.74						
13												
14			0.07									
15	0.01											
16		0.05										
17												
18					0.90							
19												
20			0.16	0.45								
21												
22												
23												
24												
25												
26												
27												
28												
29												0.01
30						0.11						
31				0.45								
Mo Total	0.44	0.06	0.23	5.75	3.81	4.60	1.04	0.26	0.00	0.00	0.00	0.01
Yr Total	0.44	0.50	0.73	6.48	10.29	14.89	15.93	16.19	16.19	16.19	16.19	16.20

*Rainfall in inches*

VENTURA COUNTY, CALIFORNIA  
WATER SURVEY  
**DAILY RAINFALL RECORD**

STATION: **Lake Casitas Recreation Area**  
OBSERVER: CMWD Recreation staff  
AUTHORITY: Casitas Municipal Water District  
ADDRESS: P.O. Box 37, Oak View, CA 93022  
COMPILED: C. Iles

NUMBER: 204  
OBSER. TIME: 0800  
LATITUDE: 34°25' N  
LONGITUDE: 119°20' W  
ELEV: 592 ft

**2015-16**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					1.80							
2												
3												
4												
5	0.40											
6												
7				2.70		2.50						
8				3.50		0.55	0.05					
9						0.05						
10				0.05			0.45					
11												
12						0.65						
13												
14			0.16									
15												
16												
17												
18					0.55							
19				0.05								
20			0.20	0.42								
21												
22												
23												
24												
25												
26												
27												
28												
29												
30						0.25						
31												
Mo Total	0.40	0.00	0.36	6.72	2.35	4.00	0.50	0.00	0.00	0.00	0.00	0.00
Yr Total	0.40	0.40	0.76	7.48	9.83	13.83	14.33	14.33	14.33	14.33	14.33	14.33

*Rainfall in inches*

*Estimated*

VENTURA COUNTY, CALIFORNIA  
WATER SURVEY  
**DAILY RAINFALL RECORD**

STATION:	Casitas Dam	NUMBER:	004
OBSERVER:	CMWD Damtender	OBSER. TIME:	0800
AUTHORITY:	Casitas Municipal Water District	LATITUDE:	34°22' N
ADDRESS:	P.O. Box 37, Oak View, CA 93022	LONGITUDE:	119°20' W
COMPILED:	C. Iles	ELEV:	400 ft

**2015-16**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					1.25							
2												
3		0.04										
4	0.02											
5	0.38			0.46								
6				1.68		2.21						
7				3.95		0.78		0.04				
8				0.02		0.02	0.06	0.02				
9							0.20					
10				0.06			0.26					
11				0.01			0.01					
12						0.72						
13												
14			0.24									
15	0.01											
16		0.05										
17												
18				0.05	0.93							
19				0.03								
20			0.16	0.46								
21				0.02								
22												
23												
24												
25												
26												
27												
28												
29												
30				0.01		0.04						
31				0.45								
Mo Total	0.41	0.09	0.40	7.20	2.18	3.77	0.53	0.06	0.00	0.00	0.00	0.00
Yr Total	0.41	0.50	0.90	8.10	10.28	14.05	14.58	14.64	14.64	14.64	14.64	14.64

*Rainfall in inches*



## **Streamflow Gaging Stations**

# Matilija Creek at Matilija Hot Springs

USGS #: 11115500  
 VCWPD #: 602  
 DATE INSTALLED: 10/1927  
 MAINTAINED BY: CMWD

LATITUDE: 34°28'58" N  
 LONGITUDE: 119°18'7" W  
 ELEVATION: 900 ft  
 DRAINAGE AREA: 54 sq mi

## WATER YEAR OCTOBER 2015 TO SEPTEMBER 2016

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.2	0.5	0.7	1	4	3	3	2	2	0.6	0.4	0.3
2	0.3	0.5	0.7	1	3	3	3	2	2	0.6	0.4	0.3
3	0.3	0.5	0.7	1	3	3	3	2	2	0.6	0.4	0.3
4	0.3	0.6	0.8	1	4	3	3	2	2	0.6	0.6	0.3
5	0.3	0.5	0.8	6	4	3	3	2	1	0.6	0.6	0.3
6	0.3	0.5	0.8	5	4	11	3	2	2	0.6	0.5	0.3
7	0.3	0.5	0.8	4	4	7	3	2	2	0.5	0.4	0.3
8	0.3	0.5	0.9	2	4	5	3	2	2	0.4	0.3	0.4
9	0.4	0.5	1.0	2	4	5	4	2	2	0.4	0.3	0.3
10	0.5	0.8	1.0	2	4	5	3	3	1	0.4	0.3	0.3
11	0.6	1.0	1.1	2	4	6	3	3	1	0.3	0.3	0.3
12	0.6	0.7	1.1	2	4	6	3	2	1	0.4	0.2	0.4
13	0.5	0.6	0.9	2	4	5	3	2	1	0.4	0.2	0.4
14	0.4	0.5	1.3	2	4	5	3	2	2	0.3	0.3	0.4
15	0.4	0.6	2.0	2	4	4	3	2	1	0.2	0.3	0.4
16	0.4	0.8	1.3	2	4	4	3	2	1	0.2	0.2	0.3
17	0.4	0.5	0.9	2	4	4	3	2	1	0.2	0.2	0.3
18	0.4	0.4	0.8	2	6	4	3	2	1	0.2	0.2	0.2
19	0.4	0.4	0.7	2	4	4	3	2	1	0.2	0.1	0.3
20	0.4	0.5	0.4	3	4	4	3	2	1	0.2	0.1	0.3
21	0.5	0.5	0.4	3	4	4	3	2	1	0.2	0.2	0.3
22	0.4	0.5	0.8	2	4	4	3	2	1	0.1	0.2	0.3
23	0.5	0.5	1.3	2	3	4	2	2	1	0.1	0.3	0.3
24	0.5	0.6	1.1	2	4	4	2	2	2	0.1	0.4	0.3
25	0.5	0.6	1.0	2	3	4	2	2	1	0.2	0.3	0.3
26	0.5	0.6	1.0	2	3	3	2	2	1	0.2	0.1	0.3
27	0.5	0.6	0.9	2	3	3	2	2	1	0.2	0.2	0.3
28	0.5	0.7	0.9	2	3	4	2	2	1	0.2	0.2	0.3
29	0.6	0.6	1.0	2	3	3	2	2	0.8	0.1	0.3	0.3
30	0.7	0.6	1.0	2	---	4	2	2	0.7	0.2	0.3	0.4
31	0.6	---	0.9	10	---	3	---	2	---	0.3	0.3	---
<b>TOTAL</b>	<b>13.5</b>	<b>17.7</b>	<b>29.4</b>	<b>77.7</b>	<b>109.7</b>	<b>134.1</b>	<b>82.5</b>	<b>69.9</b>	<b>40.8</b>	<b>9.7</b>	<b>8.8</b>	<b>9.7</b>
<b>MEAN</b>	<b>0.4</b>	<b>0.6</b>	<b>0.9</b>	<b>2.5</b>	<b>3.8</b>	<b>4.3</b>	<b>2.7</b>	<b>2.3</b>	<b>1.4</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>
<b>MAX</b>	<b>0.7</b>	<b>1.0</b>	<b>2.0</b>	<b>10.5</b>	<b>6</b>	<b>11</b>	<b>4.0</b>	<b>2.6</b>	<b>1.9</b>	<b>0.6</b>	<b>0.6</b>	<b>0.4</b>
<b>MIN</b>	<b>0.2</b>	<b>0.4</b>	<b>0.4</b>	<b>1.0</b>	<b>3.1</b>	<b>2.9</b>	<b>2.2</b>	<b>1.9</b>	<b>0.7</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>
<b>ACRE FT</b>	<b>27</b>	<b>35</b>	<b>58</b>	<b>154</b>	<b>218</b>	<b>266</b>	<b>164</b>	<b>139</b>	<b>81</b>	<b>19</b>	<b>17</b>	<b>19</b>

*Data is provisional and subject to revision*

# North Fork Matilija Creek at Matilija Hot Springs

USGS #: 11116000  
 VCWPD #: 604  
 DATE INSTALLED: 01/1934  
 MAINTAINED BY: VCWPD

LATITUDE: 34°29'34" N  
 LONGITUDE: 119°18'23" W  
 ELEVATION: 1142 ft  
 DRAINAGE AREA: 15.8 sq mi

## WATER YEAR OCTOBER 2015 TO SEPTEMBER 2016

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.2	0.2	0.3	0.5	3	0.6	1	0.6	0.4	0.3	0.2	0.3
2	0.2	0.2	0.3	0.5	0.5	0.6	0.9	0.5	0.4	0.3	0.2	0.3
3	0.2	0.2	0.3	0.5	0.5	0.6	0.9	0.5	0.3	0.3	0.2	0.3
4	0.2	0.2	0.3	0.5	0.6	0.6	0.8	0.5	0.3	0.3	0.3	0.3
5	0.2	0.2	0.3	3	0.6	0.6	0.8	0.5	0.3	0.3	0.3	0.3
6	0.2	0.2	0.3	3	0.6	4	0.8	0.6	0.3	0.3	0.3	0.3
7	0.2	0.2	0.3	2	0.6	3	0.8	0.6	0.3	0.3	0.2	0.3
8	0.2	0.2	0.3	0.5	0.6	1	0.8	0.5	0.3	0.2	0.2	0.3
9	0.2	0.2	0.3	0.5	0.6	0.7	0.8	0.5	0.3	0.3	0.3	0.4
10	0.2	0.2	0.3	0.5	0.6	0.5	0.7	0.5	0.3	0.2	0.3	0.4
11	0.2	0.2	0.3	0.6	0.6	1	0.8	0.5	0.3	0.2	0.3	0.4
12	0.2	0.2	0.4	0.6	0.6	0.9	0.8	0.5	0.3	0.2	0.3	0.4
13	0.2	0.2	0.4	0.6	0.6	0.5	0.8	0.5	0.3	0.2	0.3	0.4
14	0.2	0.2	0.4	0.6	0.6	0.6	0.8	0.5	0.3	0.2	0.3	0.4
15	0.2	0.2	0.4	0.6	0.6	0.6	0.8	0.5	0.3	0.2	0.3	0.4
16	0.2	0.2	0.5	0.6	0.6	0.7	0.8	0.5	0.3	0.2	0.3	0.4
17	0.2	0.2	0.5	0.6	0.6	0.7	0.8	0.5	0.3	0.2	0.2	0.4
18	0.2	0.2	0.5	0.6	1	0.7	0.7	0.5	0.3	0.2	0.2	0.4
19	0.2	0.2	0.5	0.6	0.9	0.8	0.7	0.5	0.3	0.2	0.2	0.4
20	0.2	0.2	0.5	0.6	0.8	0.8	0.7	0.5	0.3	0.2	0.3	0.4
21	0.2	0.2	0.5	0.6	0.7	0.8	0.7	0.5	0.3	0.2	0.3	0.4
22	0.2	0.2	0.5	0.6	0.7	0.9	0.6	0.5	0.3	0.2	0.3	0.4
23	0.2	0.2	0.5	0.6	0.7	0.9	0.6	0.5	0.3	0.2	0.3	0.4
24	0.2	0.2	0.6	0.6	0.7	0.9	0.6	0.5	0.3	0.2	0.3	0.4
25	0.2	0.2	0.6	0.6	0.7	1	0.6	0.5	0.3	0.2	0.3	0.4
26	0.2	0.2	0.6	0.6	0.7	1	0.6	0.5	0.3	0.2	0.3	0.4
27	0.2	0.2	0.6	0.6	0.7	1.0	0.6	0.5	0.3	0.2	0.3	0.4
28	0.2	0.2	0.6	0.6	0.7	0.9	0.5	0.4	0.3	0.2	0.3	0.4
29	0.2	0.3	0.6	0.6	0.7	1	0.5	0.4	0.3	0.2	0.3	0.4
30	0.2	0.3	0.6	0.6	---	1	0.6	0.4	0.3	0.2	0.3	0.4
31	0.2	---	0.5	10	---	1	---	0.4	---	0.2	0.3	---
TOTAL	5.5	6.9	13.3	31.9	20.6	30.2	21.8	14.9	8.8	7.6	8.0	10.6
MEAN	0.2	0.2	0.4	1.0	0.7	1.0	0.7	0.5	0.3	0.2	0.3	0.4
MAX	0.2	0.3	1	10	3	4	1	0.6	0.4	0.3	0.3	0.4
MIN	0.2	0.2	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.2	0.2	0.3
ACRE FT	11	14	26	63	41	60	43	30	17	15	16	21

*Estimated daily data*

This data is preliminary and subject to change until checked and evaluated by Ventura County. Unverified data may contain errors that have not been checked by Hydrology staff. Ventura County does not guarantee the accuracy of these data; please note that flows may vary considerably during each day and from day to day.

# Ventura River near Meiners Oaks (Robles)

USGS #: 11116550  
 VCWPD #: 607  
 DATE INSTALLED: 05/1959  
 MAINTAINED BY: CMWD

LATITUDE: 34°27'49" N  
 LONGITUDE: 119°17'26" W  
 ELEVATION: 740 ft  
 DRAINAGE AREA: 74 sq mi

## WATER YEAR OCTOBER 2015 TO SEPTEMBER 2016

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	15	0	0.5	0	0	0	0	0
2	0	0	0	0	3	0	0.3	0	0	0	0	0
3	0	0	0	0	1	0	0.2	0	0	0	0	0
4	0	0	0	0	1	0	0	0	0	0	0	0
5	0	0	0	5	1	0	0	0	0	0	0	0
6	0	0	0	7	0.7	16	0	0	0	0	0	0
7	0	0	0	6	0.8	11	0	0	0	0	0	0
8	0	0	0	0.8	0.7	9	0	0	0	0	0	0
9	0	0	0	0.1	0	6	0.6	0	0	0	0	0
10	0	0	0	0	0	4	2	0	0	0	0	0
11	0	0	0	0	0.1	7	0.4	0	0	0	0	0
12	0	0	0	0	0	9	0.4	0	0	0	0	0
13	0	0	0	0	0.2	7	0.1	0	0	0	0	0
14	0	0	0	0	0	6	0	0	0	0	0	0
15	0	0	0	0	0	4	0	0	0	0	0	0
16	0	0	0	0	0	1	0	0	0	0	0	0
17	0	0	0	0	0	2	0	0	0	0	0	0
18	0	0	0	0	0.9	1	0	0	0	0	0	0
19	0	0	0	0	0.5	1	0	0	0	0	0	0
20	0	0	0	0	0.4	0.9	0	0	0	0	0	0
21	0	0	0	0	0.3	0.9	0	0	0	0	0	0
22	0	0	0	0	0	1	0	0	0	0	0	0
23	0	0	0	0	0	0.9	0	0	0	0	0	0
24	0	0	0	0	0	0.7	0	0	0	0	0	0
25	0	0	0	0	0	0.6	0	0	0	0	0	0
26	0	0	0	0	0	0.5	0	0	0	0	0	0
27	0	0	0	0	0	0.2	0	0	0	0	0	0
28	0	0	0	0	0	0.1	0	0	0	0	0	0
29	0	0	0	0	0	0.4	0	0	0	0	0	0
30	0	0	0	0	---	0.7	0	0	0	0	0	0
31	0	---	0	18	---	0.6	---	0	---	0	0	---
TOTAL	0.0	0.0	0.0	37.4	26.1	91.5	4.3	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	1.2	0.9	3.0	0.1	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	18.3	15	16	1.9	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACRE FT	0	0	0	74	52	182	9	0	0	0	0	0

Data is provisional and subject to revision.

# Robles-Casitas Canal (First Bridge)

USGS #: N/A  
 VCWPD #: N/A  
 DATE INSTALLED: 1958  
 MAINTAINED BY: CMWD

LATITUDE: 34°27'43" N  
 LONGITUDE: 119°17'34" W  
 ELEVATION: 770 ft  
 DRAINAGE AREA: N/A

## WATER YEAR OCTOBER 2015 TO SEPTEMBER 2016

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACRE FT	0	0	0	0	0	0	0	0	0	0	0	0

*Data is provisional and subject to revision.*

# Ventura River near Ventura (Foster Park)

USGS #: 11118500  
 VCPWD #: 608  
 DATE INSTALLED: 10/1929  
 MAINTAINED BY: USGS, Water Resources Division

LATITUDE: 34°21'09" N  
 LONGITUDE: 119°18'29" W  
 ELEVATION: 205 ft  
 DRAINAGE AREA: 187 sq mi

## WATER YEAR OCTOBER 2015 TO SEPTEMBER 2016

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	1	0	0.3	3	3	0.1	0	0
2	0	0	0	0	0.1	0	0.2	3	3	0.1	0	0
3	0	0	0	0	0	0	0.2	3	3	0.1	0	0
4	0	0	0	0	0	0	0.2	2	3	0.1	0	0
5	0	0	0	0	0	0	0.2	2	3	0.1	0	0
6	0	0	0	59	0.1	7	0.4	2	2	0.1	0	0
7	0	0	0	8	0.1	2	1.5	2	1	0.1	0	0
8	0	0	0	0.2	0.2	0.6	2	2	0.8	0.1	0	0
9	0	0	0	0.1	0.2	1	3	2	0.5	0.1	0	0
10	0	0	0	0.1	0.2	1	3	2	0.4	0.1	0	0
11	0	0	0	0	0.2	1	3	2	0.3	0.1	0	0
12	0	0	0	0	0.2	1	3	2	0.3	0.1	0	0
13	0	0	0	0	0.2	2	4	2	0.2	0.1	0	0
14	0	0	0	0	0.2	2	5	2	0.2	0.1	0	0
15	0	0	0	0	0.2	2	6	2	0.2	0	0	0
16	0	0	0	0	0.1	1	6	2	0.2	0	0	0
17	0	0	0	0	0.1	1	6	2	0.2	0	0	0
18	0	0	0	0	0.1	1	6	2	0.2	0	0	0
19	0	0	0	0	0.1	1	6	2	0.1	0	0	0
20	0	0	0	0	0.1	0.7	6	2	0.1	0	0	0
21	0	0	0	0	0	0.2	6	2	0.2	0	0	0
22	0	0	0	0	0	0.2	6	2	0.1	0	0	0
23	0	0	0	0	0	0.2	5	2	0.2	0	0	0
24	0	0	0	0	0	0.1	5	2	0.1	0	0	0
25	0	0	0	0	0	0.1	4	2	0.1	0	0	0
26	0	0	0	0	0	0.0	2	2	0.1	0	0	0
27	0	0	0	0	0	0.1	1	2	0.1	0	0	0
28	0	0	0	0	0	0.2	1	3	0.1	0	0	0
29	0	0	0	0	0	0.2	3	3	0.1	0	0	0
30	0	0	0	0	0	0.2	3	3	0.1	0	0	0
31	0	0	0	15	0.3	0.3	3	3	0.1	0	0	0
TOTAL	0.0	0.0	0.0	82.3	3.4	25.8	95.2	67.5	21.1	1.4	0.3	0.0
MEAN	0.0	0.0	0.0	2.7	0.1	0.8	3.2	2.2	0.7	0.0	0.0	0.0
MAX	0.0	0.0	0.0	59.0	1.1	7.2	6.0	2.8	2.7	0.1	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	0.1	0.0	0.0	0.0
ACRE FT	0	0	0	163	7	51	189	134	42	3	0	0

*Data is provisional and subject to revision*

Coyote Creek, near Oak View

USGS #: 11117600  
 VCWPD #: 600  
 DATE INSTALLED: 10/1958  
 MAINTAINED BY: CMWD

LATITUDE: 34°25'01" N  
 LONGITUDE: 119°22'17" W  
 ELEVATION: 630 ft  
 DRAINAGE AREA: 13.1 sq mi

WATER YEAR OCTOBER 2015 TO SEPTEMBER 2016  
 Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.1	0.2	0	0	5	3	4	0.7	0.2	0	0	0
2	0.1	0.2	0	0	6	2	5	0.7	0.2	0	0	0
3	0.1	0.3	0	0	5	1	4	0.6	0.1	0	0	0
4	0.1	0.2	0	0	3	6	2	0.6	0.1	0	0	0
5	0.1	0.2	0	2	3	35	2	0.6	0.1	0	0	0
6	0.1	0.2	0	7	3	67	3	0.6	0.2	0	0	0
7	0.1	0.2	0	3	2	42	2	0.5	0.2	0	0	0
8	0.1	0.1	0	2	2	28	2	0.5	0.1	0	0	0
9	0.1	0.2	0	2	3	10	3	0.5	0.1	0	0	0
10	0.1	0.2	0	1	3	4	2	0.5	0.1	0	0	0
11	0.1	0.1	0	1	3	8	2	0.5	0.1	0	0	0
12	0.1	0.1	0	0.5	2	17	2	0.4	0.2	0	0	0
13	0.1	0.1	0	0.4	3	12	2	0.4	0.1	0	0	0
14	0.1	0.1	0	0.3	2	10	2	0.4	0.1	0	0	0
15	0.1	0.1	0	0.3	3	12	1	0.4	0.1	0	0	0
16	0.1	0.1	0	0.2	3	13	1	0.4	0.1	0	0	0
17	0.1	0.1	0	0	3	13	1	0.3	0.1	0	0	0
18	0.1	0.1	0	0.2	3	14	1	0.3	0	0	0	0
19	0.1	0.1	0	0.3	7	7	1	0.4	0	0	0	0
20	0.1	0	0	0.4	9	7	1	0.4	0	0	0	0
21	0.1	0	0	0.7	4	8	2	0.3	0	0	0	0
22	0.1	0	0	0.6	8	7	2	0.3	0	0	0	0
23	0.5	0	0	0.6	8	5	2	0.2	0	0	0	0
24	0.4	0	0	1	7	4	2	0.2	0	0	0	0
25	0.4	0	0	1	5	4	1	0.2	0	0	0	0
26	0.4	0	0	0.4	2	5	1	0.2	0	0	0	0
27	0.3	0	0	0.7	1	5	1	0.2	0	0	0	0
28	0.3	0	0	1	2	5	0.8	0.2	0	0	0	0
29	0.2	0	0	1	3	9	0.8	0.2	0	0	0	0
30	0.2	0	0	1	---	5	0.8	0.2	0	0	0	0
31	0.2	---	0	11	---	4	---	0.2	---	0	0	---
TOTAL	5.1	2.9	0.0	39.2	113.6	370.6	57.9	12.6	2.2	0.0	0.1	0.4
MEAN	0.2	0.1	0.0	1.3	3.9	12.0	1.9	0.4	0.1	0.0	0.0	0.0
MAX	0.5	0.3	0.0	10.5	9	67	5.2	0.7	0.2	0.0	0.0	0.0
MIN	0.1	0.0	0.0	0.0	1.4	1.3	0.8	0.2	0.0	0.0	0.0	0.0
ACRE FT	10	6	0	78	225	735	115	25	4	0	0	1

Sediment deposition at site from upstream tributary. WY 2016 data estimated from gage data and limited visual observations.  
 Biofouling of bubbler line. Discharge estimated.

# Santa Ana Creek, near Oak View

USGS #: 11117800  
 VCWPD #: 606  
 DATE INSTALLED: 10/1958  
 MAINTAINED BY: CMWD

LATITUDE: 34°25'24" N  
 LONGITUDE: 119°20'28" W  
 ELEVATION: 630 ft  
 DRAINAGE AREA: 9 sq mi

## WATER YEAR OCTOBER 2015 THROUGH SEPTEMBER 2016

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0.6	0	1.2	0.3	0	0	0	0
2	0	0	0	0	0	0	1.1	0.3	0	0	0	0
3	0	0	0	0	0	0	1.1	0.3	0	0	0	0
4	0	0	0	0	0	0	1.0	0.3	0	0	0	0
5	0	0	0	0	0	0	0.9	0.3	0	0	0	0
6	0	0	0	0	0	5.0	0.9	0.3	0	0	0	0
7	0	0	0	0	0	5.9	0.9	0.2	0	0	0	0
8	0	0	0	0	0	4.0	1.2	0.1	0	0	0	0
9	0	0	0	0	0	3.4	1.2	0	0	0	0	0
10	0	0	0	0	0	3.1	1.0	0	0	0	0	0
11	0	0	0	0	0	4.1	0.9	0	0	0	0	0
12	0	0	0	0	0	4.5	0.8	0	0	0	0	0
13	0	0	0	0	0	3.8	0.8	0	0	0	0	0
14	0	0	0	0	0	3.5	0.8	0	0	0	0	0
15	0	0	0	0	0	3.2	0.7	0	0	0	0	0
16	0	0	0	0	0	3.0	0.6	0	0	0	0	0
17	0	0	0	0	0	2.8	0.6	0	0	0	0	0
18	0	0	0	0	0	2.6	0.5	0	0	0	0	0
19	0	0	0	0	0	2.4	0.5	0	0	0	0	0
20	0	0	0	0	0	2.4	0.4	0	0	0	0	0
21	0	0	0	0	0	2.3	0.4	0	0	0	0	0
22	0	0	0	0	0	2.2	0.4	0	0	0	0	0
23	0	0	0	0	0	1.8	0.4	0	0	0	0	0
24	0	0	0	0	0	1.7	0.4	0	0	0	0	0
25	0	0	0	0	0	1.6	0.4	0	0	0	0	0
26	0	0	0	0	0	1.5	0.4	0	0	0	0	0
27	0	0	0	0	0	1.3	0.4	0	0	0	0	0
28	0	0	0	0	0	1.3	0.4	0	0	0	0	0
29	0	0	0	0	0	1.3	0.4	0	0	0	0	0
30	0	0	0	0	---	1.2	0.4	0	0	0	0	0
31	0	---	0	2.2	---	1.2	---	0	---	0	0	---
TOTAL	0.0	0.0	0.0	2.2	0.6	71	21	2.2	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.1	0.0	2.3	0.7	0.1	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	2.2	0.6	5.9	1.2	0.3	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
ACRE FT	0	0	0	4	1	141	42	4	0	0	0	0

*Data is provisional and subject to revision*

*Discharges are based on previous gage's rating curve. Values will be updated when a new curve is available.*



# HISTORICAL HYDROLOGY DATA

## Casitas Reservoir Inventory Annual Summary

- Calendar Year 1959 – Present

## Annual Rainfall (Water Year 1959 – Present):

- Matilija Dam
- Lake Casitas (upper) Recreation Area
- Casitas Dam

## Monthly Rainfall (Water Year 1960 – Present):

- Lake Casitas (upper) Recreation Area

## Ambient Air Temperatures (Calendar Year 1960 – Present):

- Lake Casitas (upper) Recreation Area
- Casitas Dam

## Robles – Casitas Canal Monthly Diversions

- Calendar Year 1959 – Present

**HISTORICAL RAINFALL  
CASITAS MUNICIPAL WATER DISTRICT**

WATER YEAR	CASITAS DAM	CASITAS RECREATION	MATILIJA DAM	YEARLY MEAN
1958-59	10.22	11.84	16.62	12.89
59-60	15.79	14.70	14.45	14.98
1960-61	8.77	8.42	13.24	10.14
61-62	37.75	33.96	39.21	36.97
62-63	18.70	17.54	20.07	18.77
63-64	13.62	12.04	16.13	13.93
64-65	23.26	22.77	22.83	22.95
65-66	25.23	25.23	30.30	26.92
66-67	34.43	32.30	44.78	37.17
67-68	16.61	16.44	15.20	16.08
68-69	46.57	47.55	69.94	54.69
69-70	16.70	16.52	18.98	17.40
1970-71	19.72	19.71	22.65	20.69
71-72	11.94	13.72	15.49	13.72
72-73	34.79	34.56	45.91	38.42
73-74	19.95	18.43	22.16	20.18
74-75	23.83	24.05	26.83	24.90
75-76	17.90	17.23	20.85	18.66
76-77	12.90	11.98	13.75	12.88
77-78	49.05	49.66	63.04	53.92
78-79	25.80	25.64	28.66	26.70
79-80	34.06	35.15	42.43	37.21
1980-81	16.24	16.99	21.88	18.37
81-82	19.35	20.34	25.35	21.68
82-83	51.14	48.22	58.65	52.67
83-84	17.91	16.63	19.34	17.96
84-85	17.30	15.93	19.00	17.41
85-86	33.49	32.20	41.32	35.67
86-87	10.86	9.83	11.44	10.71
87-88	18.62	18.40	21.58	19.53
88-89	11.73	11.85	13.65	12.41
89-90	9.46	8.86	12.48	10.27
1990-91	24.43	23.59	26.01	24.68
91-92	29.75	28.53	34.27	30.85
92-93	41.20	43.31	60.38	48.30
93-94	16.08	14.69	16.27	15.68
94-95	49.84	49.04	58.17	52.35
95-96	18.80	16.91	22.78	19.50
96-97	24.37	25.27	27.80	25.81
97-98	<b>59.54</b>	<b>58.78</b>	64.27	<b>60.86</b>
98-99	12.68	10.67	12.56	11.97
99-00	24.35	21.94	26.79	24.36
2000-01	29.36	27.86	33.45	30.22
01-02	9.28	8.77	10.10	9.38
02-03	24.83	23.69	30.58	26.37
03-04	17.03	14.33	18.84	16.73
04-05	54.66	51.28	<b>74.44</b>	60.13
05-06	26.52	25.84	34.58	28.98
06-07	<b>8.60</b>	<b>7.15</b>	<b>9.23</b>	<b>8.33</b>
07-08	26.19	24.58	33.62	28.13
08-09	14.82	12.91	16.56	14.76
09-10	31.13	28.48	36.54	32.05
2010-11	35.99	34.04	40.28	36.77
11-12	15.11	13.18	14.21	14.17
12-13	10.99	10.11	11.85	10.98
13-14	9.90	9.52	14.76	11.39
14-15	11.65	10.06	17.57	13.09
15-16	14.64	14.33	16.20	15.06
AVERAGE	23.54	22.72	28.11	24.79
MAXIMUM	59.54	58.78	74.44	60.86
MINIMUM	8.60	7.15	9.23	8.33

\*RAINFALL IN INCHES, WATER YEAR OCTOBER 1 THRU SEPTEMBER 30  
BOLD NUMBERS INDICATE RECORD MAX/MIN RAINFALL AMOUNTS FOR THE PERIOD

**NOTE: Matilija Dam Rainfall records after 2005-06 season obtained from the Ventura County Watershed Protection District**













CALIFORNIA DEPARTMENT OF WATER RESOURCES

## NEWS FOR IMMEDIATE RELEASE

**February 24, 2017**

**Contact:**

**Ted Thomas – (916) 653-9712**

Information Officer

### **Invasive Mussel Veligers Detected in the Santa Ana Pipeline; State Conducting Further Testing**

**SACRAMENTO** – Mussel veligers (microscopic, free-floating larval life stage) this month were detected in water samples collected at the North Park valve of the Santa Ana Pipeline, which transports water from Silverwood Lake, San Bernardino County, to Lake Perris, Riverside County. Further testing is under way by the California Department of Fish and Wildlife (CDFW) to confirm the findings and determine if the veligers are quagga mussels or zebra mussels.

Quagga and zebra mussels are small, non-native freshwater mollusks that attach onto hard substrates and can cause damage to water delivery systems. The Department of Water Resources (DWR) routinely monitors for these mussels and has taken measures to prevent them from infesting the State Water Project (SWP) since the quagga mussel was first discovered in California in 2007.

Extensive sampling has occurred upstream and downstream of the North Park valve and no mussels have been detected. Currently, there is no evidence of mussels in Silverwood Lake or Lake Perris. Both lakes have been routinely monitored for mussels by DWR since 2008.

DWR has notified California State Parks, the United State Forest Service, and SWP water contractors affected by this potential detection. A multi-agency response team is collecting additional samples to verify these preliminary results. These efforts are being coordinated with CDFW, the State's lead agency in invasive mussel management.







**Consumption Report**

**Water Sales FY 2016-2017 (Acre-Feet)**

Classification	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Month to Date		
													2016 / 2017	2015 / 2016	
													Total	Total	
AD Ag-Domestic	564	513	570	381	291	155	14	0	0	0	0	0	0	2,488	2,884
AG Ag	451	386	382	276	213	102	11	0	0	0	0	0	0	1,822	2,002
C Commercial	75	80	71	33	23	15	7	0	0	0	0	0	0	303	357
DI Interdepartmental	8	7	7	6	5	5	3	0	0	0	0	0	0	41	46
F fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I Industrial	2	1	1	1	1	0	0	0	0	0	0	0	0	6	8
OT Other	28	19	18	16	7	7	2	0	0	0	0	0	0	96	83
R Residential	121	117	122	88	73	64	44	0	0	0	0	0	0	628	706
RS - P Resale Pumped	147	236	248	205	82	68	36	0	0	0	0	0	0	1,023	742
RS - G Resale Gravity	163	169	165	287	303	272	238	0	0	0	0	0	0	1,597	2,747
TE Temporary	3	1	2	1	2	1	0	0	0	0	0	0	0	11	9
<b>Total</b>	<b>1,562</b>	<b>1,528</b>	<b>1,586</b>	<b>1,295</b>	<b>1,001</b>	<b>689</b>	<b>355</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,016</b>	<b>9,583</b>
<b>Total 2015 / 2016</b>	<b>1,421</b>	<b>1,689</b>	<b>1,781</b>	<b>1,559</b>	<b>1,396</b>	<b>1,364</b>	<b>373</b>	<b>660</b>	<b>555</b>	<b>1,001</b>	<b>1,142</b>	<b>1,404</b>		<b>N/A</b>	<b>14,345</b>



CFD No. 2013-1 (Ojai) - Cost Analysis

	Services & Suplies	Legal Fees	Labor Expense	Other Services	Total Expenses
2011 / 2012	-289.50	42,560.00	11,098.37	0.00	53,368.87
2012 / 2013	831.82	223,462.77	14,836.68	0.00	239,131.27
2013 / 2014	29.89	91,878.06	3,835.65	0.00	95,743.60
2014 / 2015	0.00	68,457.10	0.00	0.00	68,457.10
2015 / 2016	6.12	152,811.84	2,938.86	0.00	155,756.82
July	0.00	5,624.87	0.00	0.00	5,624.87
August	0.00	21,652.74	221.06	0.00	21,873.80
September	97.98	19,326.07	0.00	0.00	19,424.05
October	0.00	11,486.55	552.67	0.00	12,039.22
November	0.00	15,352.45	0.00	0.00	15,352.45
December	5.77	33,611.03	0.00	0.00	33,616.80
January	0.00	39,089.38	1,665.39	0.00	40,754.77
Feburary	0.00	0.00	1,862.32	0.00	1,862.32
March	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00
Total YTD Cost	103.75	146,143.09	4,301.44	0.00	150,548.28
Total Cost	682.08	725,312.86	37,011.00	0.00	763,005.94
Tax Assessment - County of Ventura: 2015 / 2016					-460,342.64
Tax Assessment - County of Ventura: 2016 / 2017					-280,360.25
<b>Total CMWD CFD 2013-1 Cost</b>					<b>22,303.05</b>

**CASITAS MUNICIPAL WATER DISTRICT  
TREASURER'S MONTHLY REPORT OF INVESTMENTS  
03/02/17**

Type of Invest	Institution	CUSIP	Date of Maturity	Adjusted Cost	Current Mkt Value	Rate of Interest	Date of Deposit	% of Portfolio	Days to Maturity
*TB	Federal Farm CR Bank	3133EGZW8	10/25/2024	\$833,918	\$790,455	2.014%	10/25/2016	4.02%	2753
*TB	Federal Farm CR Bank	31331VWN2	4/13/2026	\$923,371	\$861,618	1.901%	5/9/2016	4.38%	3281
*TB	Federal Farm CR Bank	3133EFK71	3/9/2026	\$853,651	\$840,059	2.790%	3/28/2016	4.27%	3247
*TB	Federal Farm CR Bank	3133EFYH4	2/8/2027	\$1,014,903	\$984,070	3.000%	3/24/2016	5.00%	3576
*TB	Federal Farm CR Bank	3133EGWD	9/29/2027	\$694,629	\$649,242	2.354%	11/17/2016	3.30%	3807
*TB	Federal Home Loan Bank	3130A3DL	9/8/2023	\$1,582,529	\$1,493,385	1.486%	10/13/2016	7.59%	2346
*TB	Federal Home Loan Bank	313379EE5	6/14/2019	\$1,365,155	\$1,355,184	1.625%	10/3/2012	6.89%	822
*TB	Federal Home Loan Bank	3130A0EN	12/10/2021	\$540,954	\$516,080	1.107%	5/9/2016	2.62%	1718
*TB	Federal Home Loan Bank	3130A5R35	6/13/2025	\$767,759	\$727,269	2.875%	2/19/2016	3.70%	2981
*TB	Federal Home Loan Bank	313383YJ4	9/8/2023	\$471,312	\$439,763	1.203%	7/14/2016	2.23%	2346
*TB	Federal Home Loan Bank	3130AIXJ2	6/14/2024	\$934,347	\$865,288	2.875%	8/2/2016	4.40%	2622
*TB	Federal Home Loan Bank	3133XFKF	6/11/2021	\$655,878	\$641,816	5.625%	1/16/2013	3.26%	1539
*TB	Federal Home Loan MTG Corp	3137EABA	11/17/2017	\$1,026,252	\$1,030,390	5.125%	1/3/2012	5.24%	255
*TB	Federal Home Loan MTG Corp	3137EADB	1/13/2022	\$676,232	\$673,674	2.375%	9/8/2014	3.42%	1751
*TB	Federal National Assn	31315P2J7	5/1/2024	\$801,815	\$750,165	1.721%	5/1/2016	3.81%	2579
*TB	Federal National Assn	3135G0ZR	9/6/2024	\$1,479,952	\$1,408,504	2.625%	5/25/2016	7.16%	2704
*TB	Federal National Assn	3135G0K3	4/24/2026	\$2,530,604	\$2,363,025	2.125%	5/25/2016	12.01%	3292
*TB	US Treasury Inflation Index NTS	912828JE1	7/15/2018	\$1,127,733	\$1,162,793	1.375%	7/6/2010	5.91%	493
*TB	US Treasury Inflation Index NTS	912828MF	1/15/2020	\$1,127,082	\$1,179,216	1.375%	11/18/2015	5.99%	1033
*TB	US Treasury Note	912828WE	11/15/2023	\$768,553	\$787,981	2.750%	12/13/2013	4.00%	2413
Accrued Interest					\$160,091				
<b>Total in Gov't Sec. (11-00-1055-00&amp;1065)</b>				<b>\$20,176,631</b>	<b>\$19,680,068</b>			<b>99.98%</b>	
<b>Total Certificates of Deposit: (11.13506)</b>				<b>\$0</b>	<b>\$0</b>			<b>0.00%</b>	
**	<b>LAIF as of: (11-00-1050-00)</b>		N/A	<b>\$450</b>	<b>\$450</b>	0.68%	Estimated	<b>0.00%</b>	
***	<b>COVI as of: (11-00-1060-00)</b>		N/A	<b>\$2,859</b>	<b>\$2,859</b>	0.78%	Estimated	<b>0.01%</b>	
<b>TOTAL FUNDS INVESTED</b>				<b>\$20,179,940</b>	<b>\$19,683,377</b>			<b>100.00%</b>	
Total Funds Invested last report				\$20,186,771	\$19,667,704				
Total Funds Invested 1 Yr. Ago				\$19,135,465	\$19,411,507				
****	<b>CASH IN BANK (11-00-1000-00) EST.</b>			<b>\$5,965,154</b>	<b>\$5,965,154</b>				
	<b>CASH IN Western Asset Money Market</b>			<b>\$5</b>	<b>\$5</b>	0.01%			
<b>TOTAL CASH &amp; INVESTMENTS</b>				<b>\$26,145,099</b>	<b>\$25,648,536</b>				
TOTAL CASH & INVESTMENTS 1 YR AGO				\$23,876,582	\$24,152,625				

- \*CD CD - Certificate of Deposit
- \*TB TB - Federal Treasury Bonds or Bills
- \*\* Local Agency Investment Fund
- \*\*\* County of Ventura Investment Fund
- Estimated interest rate, actual not due at present time.
- \*\*\*\* Cash in bank

No investments were made pursuant to subdivision (i) of Section 53601, Section 53601.1 and subdivision (i) Section 53635 of the Government Code.  
All investments were made in accordance with the Treasurer's annual statement of investment policy.