

Appendix A

UWMP Checklist

Urban Water Management Plan Checklist (Table I-2, Organized by Legislation)

No.	UWMP Requirement ^a	Additional Clarification	Joshua Basin Water District
1	Provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.		2.3, 2.4
2	<i>Wholesalers:</i> Include an assessment of present and proposed future measures, programs, and policies to help achieve the water use reductions. <i>Retailers:</i> Conduct at least one public hearing that includes general discussion of the urban retail water supplier's implementation plan for complying with the Water Conservation Bill of 2009.	Retailer and wholesalers have slightly different requirements	1.3.2, Table 1-2, Appendix B
3	Report progress in meeting urban water use targets using the standardized form.	Standardized form not yet available	TBD
4	Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.		1.3.1, 1.3.3, Table 1-1
5	An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.		1.3.4
6	Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.		1.3.3, notification letters in Appendix B.
7	The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).		1.3.2
8	Describe the service area of the supplier		1.4, Figure 1-1
9	(Describe the service area) climate		1.5, Table 1-3
10	(Describe the service area) current and projected population . . . The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier . . .	Provide the most recent population data possible. Use the method described in "Baseline Daily Per Capita Water Use." See Section M.	2.2, Tables 2-1, 2-2
11	. . . (population projections) shall be in five-year increments to 20 years or as far as data is available.	2035 and 2040 can also be provided to support consistency with SB610/221 documents.	Tables 2-1, 2-2
12	Describe . . . other demographic factors affecting the supplier's water management planning		1.7

Urban Water Management Plan Checklist (Table I-2, Organized by Legislation)

No.	UWMP Requirement ^a	Additional Clarification	Joshua Basin Water District
13	Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).	The 'existing' water sources should be for the same year as the "current population" in line 10. 2035 and 2040 can also be provided to support consistency with SB610/221 documents.	3.2, 3.3, Table 3-1
14	(Is) groundwater . . . identified as an existing or planned source of water available to the supplier . . . ?	Source classifications are: surface water, groundwater, recycled water, storm water, desalinated seawater, brackish groundwater, and other.	3.2.1
15	(Provide a) copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management. Indicate whether a groundwater management plan been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.		Appendix C, 3.2.1.2
16	(Provide a) description of any groundwater basin or basins from which the urban water supplier pumps groundwater.		3.2.1.1
17	For those basins for which a court or the board has adjudicated the rights to pump groundwater, (provide) a copy of the order or decree adopted by the court or the board		NA
18	(Provide) a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree.		NA
19	For basins that have not been adjudicated, (provide) information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.		3.2.1.1
20	(Provide a) detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.		3.2.1.4. Table 3-3
21	(Provide a) detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.	Provide projections for 2015, 2020, 2025, and 2030.	3.2.1.4. Table 3-4
22	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following: (A) An average water year, (B) A single dry water year, (C) Multiple dry water years.		3.2.1.4. Table 3-5
23	For any water source that may not be available at a consistent level of use - given specific legal, environmental, water quality, or climatic factors - describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.		3.2.3

Urban Water Management Plan Checklist (Table I-2, Organized by Legislation)

No.	UWMP Requirement ^a	Additional Clarification	Joshua Basin Water District
24	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.		3.4.1, 3.4.2
25	Quantify, to the extent records are available, past and current water use, and projected water use (over the same five-year increments described in subdivision (a)), identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses: (A) Single-family residential; (B) Multifamily; (C) Commercial; (D) Industrial; (E) Institutional and governmental; (F) Landscape; (G) Sales to other agencies; (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof;(I) Agricultural.	Consider "past" to be 2005, present to be 2010, and projected to be 2015, 2020, 2025, and 2030. Provide numbers for each category for each of these years.	2.3, 2.4, 2.5, Table 2-3 to 2-7, Figures 2-1, 2-2
26	(Describe and provide a schedule of implementation for) each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following: (A) Water survey programs for single-family residential and multifamily residential customers; (B) Residential plumbing retrofit; (C) System water audits, leak detection, and repair; (D) Metering with commodity rates for all new connections and retrofit of existing connections; (E) Large landscape conservation programs and incentives; (F) High-efficiency washing machine rebate programs; (G) Public information programs; (H) School education programs; (I) Conservation programs for commercial, industrial, and institutional accounts; (J) Wholesale agency programs; (K) Conservation pricing; (L) Water conservation coordinator; (M) Water waste prohibition;(N) Residential ultra-low-flush toilet replacement programs.	Discuss each DMM, even if it is not currently or planned for implementation. Provide any appropriate schedules.	Chapter 7
27	A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.		7.1.15
28	An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.		7.1.15
29	An evaluation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or combination of measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following: (1) Take into account economic and noneconomic factors, including environmental, social, health, customer impact, and technological factors; (2) Include a cost-benefit analysis, identifying total benefits and total costs; (3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost; (4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.	See 10631(g) for additional wording.	7.1.15
30	(Describe) all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.		3.3

Urban Water Management Plan Checklist (Table I-2, Organized by Legislation)

No.	UWMP Requirement ^a	Additional Clarification	Joshua Basin Water District
31	Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.		3.5
32	Include the annual reports submitted to meet the Section 6.2 requirement (of the MOU), if a member of the CUWCC and signer of the December 10, 2008 MOU.	Signers of the MOU that submit the annual reports are deemed compliant with Items 28 and 29.	NA
33	Urban water suppliers that rely upon a wholesale agency for a source of water shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c).	Average year, single dry year, multiple dry years for 2015, 2020, 2025, and 2030.	3.3, Table 3-1
34	The water use projections required by Section 10631 shall include projected water use for single-family and multifamily residential housing needed for lower income households, as defined in Section 50079.5 of the Health and Safety Code, as identified in the housing element of any city, county, or city and county in the service area of the supplier.		2.5.3
35	Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.		8.3
36	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.		8.4, Table 8-2
37	(Identify) actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.		8.5
38	(Identify) additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.		8.6
39	(Specify) consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.		8.7
40	(Indicated) penalties or charges for excessive use, where applicable.		8.8
41	An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.		8.9
42	(Provide) a draft water shortage contingency resolution or ordinance.		Appendix H
43	(Indicate) a mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.		8.10

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No.	UWMP Requirement ^a	Additional Clarification	Joshua Basin Water District
44	Provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area	4.3.2	4.2, 4.3
45	(Describe) the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.	4.3.2	4.2
46	(Describe) the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.		4.2.2
47	(Describe) the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.		4.3
48	(Describe and quantify) the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.		4.3
49	(Describe) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.		4.3
50	(Describe the) actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.		4.3
51	(Provide a) plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.		4.3
52	The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.	For years 2010, 2015, 2020, 2025, and 2030	Chapter 5
53	water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.		6.3, 6.4, Table 6-1 to 6-4
54	The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.		Appendix B
55	Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.		1.3.1, 1.3.3, Table 1-1

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No.	UWMP Requirement ^a	Additional Clarification	Joshua Basin Water District
56	Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area.		1.3.2, 1.3.3, Table 1-2, Appendix B
57	After the hearing, the plan shall be adopted as prepared or as modified after the hearing.		1.3.2, Table 1-2
58	An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.		1.3.2, Table 1-2
59	An urban water supplier shall submit to the department, the California State Library, and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the plans shall be submitted to the department, the California State Library, and any city or county within which the supplier provides water supplies within 30 days after adoption.		1.3.2
60	Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.		1.3.2

- a) The UWMP Requirement descriptions are general summaries of what is provided in the legislation. Urban water suppliers should review the exact legislative wording prior to adoption.
- b) The Subject classification is provided for clarification only. It is aligned with the organization presented in Part 1 of this guidebook. A water supplier is free to address the UWMP Requirement in any manner.

Appendix B

Public Outreach Materials

Draft UWMP Documentation

JOSHUA BASIN WATER DISTRICT

WATERLINE REPORT

BOARD of DIRECTORS

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Vice President

Mike Reynolds

Directors

Bill Long

Michael Luhrs

Gary Wilson

CONTACT INFORMATION

PO BOX 675
61750 Chollita Road
Joshua Tree CA 92252

PHONE

(760) 366-8438

FAX

(760) 366-9528

EMAIL

contact@jbwd.com

The Board of Directors meets regularly on the 1st and 3rd Wednesdays of each month at 7 p.m. at the District Office. JBWD is an equal opportunity provider.

JBWD Urban Water Management Plan Five-Year Update Being Drafted

What is an Urban Water Management Plan (UWMP)? This is a report that water suppliers serving 3,000 or more connections - like JBWD - must prepare to show that the District is working not only to ensure that today's water needs are met, but also that the District is planning for the long-term future needs of the community.

This report must be submitted to the Department of Water Resources (DWR) every five years. It takes into consideration the reliability of the District's water sources over a 20-year planning period, considering normal, dry, and multiple dry years.

New since the last UWMP update is the "20 x 2020 Plan". The "20 by 2020 Plan" determined that in order for the state to have enough water to support its growing population, water use must be reduced by 20% per person, per day by the year 2020. That means an increased focus on conservation. But since our local water consumption is already low, the water use reduction goal by 2020 for JBWD is only 5%.

An important element in preparing the UWMP update is participation of our customers in discussing and reviewing the draft before the document is made final. Our Citizens Advisory Committee's first task was to provide input during the creation of the District's 2005 UWMP, and now they are reviewing the update as it is being drafted. The Committee encourages anyone who has interest to attend these meetings. To be notified of the upcoming meetings, email jbwd@jbwd.com, or call 760.366.8438.

Looking Forward to Spring?

If you enjoy gardens, are concerned with conservation, and yearn to learn about native and low-water-use gardening, you may want to join our outstanding volunteer docent group.

Docents receive training sessions on how to care for and propagate native desert plants, and are provided with detailed information about the *Joshua Tree Water Wise Demonstration Garden*. The docents give guided tours of the garden to help spread the word about conserving water outdoors.

In the Spring, the docents will celebrate the first anniversary of the *Joshua Tree Water Wise Garden* Grand Opening, with many activities planned. There is no cost to become a *Water Wise Demonstration Garden* docent; the only requirement is an interest in conservation gardening! To get started, contact Kathleen Radnich at 760.218.2822 or kradnich@jbwd.com.



JOSHUA BASIN WATER DISTRICT

WATERLINE REPORT

JBWD Draft

Urban Water Management Plan Complete

JBWD's Draft Urban Water Management Plan (UWMP) is ready for review by our customers. The report shows how the District is working to meet today's water needs and is planning for the community's long-term water needs.

The UWMP is described as "a long-term, general planning document", not an "exact blueprint" for water supply management. It is intended to be a general planning framework rather than a specific action plan. The Department of Water Resources (DWR) requires agencies that provide water to more than 3,000 service connections to prepare an updated plan every five years.

An important part of preparing the UWMP is participation of our customers in reviewing the draft before the document is made final. The draft UWMP is available for review at the District Office (61750 Chollita Road), at the Joshua Tree Library (6465 Park Boulevard), and on the District website, www.jbwd.com.

The District will hold a public hearing on June 15th at 7:00 pm at the District office. Anyone who would like to comment on the Draft UWMP is encouraged to attend the hearing, e-mail comments to jbwd@jbwd.com, or mail to PO Box 675, Joshua Tree CA 92252.

BOARD of DIRECTORS

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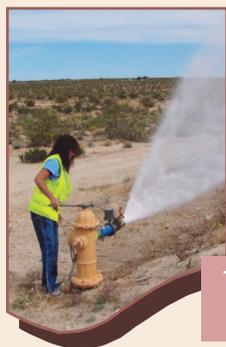
Holiday Reminder:
District offices will be closed on Monday July 4th in observance of Independence Day

Staff Spotlight: Valleri, Field Service Technician

Valleri has been with the District for over 11 years, starting as a Customer Service Representative. Later, as an Accounts Receivable Clerk, she was also responsible for billing.

Valleri's love of the outdoors led her to a new position about three years ago. Now, as a Field Service Technician, she repairs water meters, installs new meters, and performs meter reading, valve exercising, and system flushing, just to name a few of her duties.

Valleri holds a Water Distribution 1 certification from the California Department of Public Health.



Valleri is known for her can-do attitude and for being a problem-solver. She is well liked by co-workers and customers and is admired for her efficiency. Her supervisors say, "Val is a skilled professional and a true asset to the district. She is very helpful and knowledgeable in customer service as represented in the office and in field activities. She takes a great deal of pride in her hard work."

The District's "Flushing" program helps to keep clean, healthful water running through the system. Valleri tests the water before and after flushing the hydrant.





JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528 E-MAIL jbwd@jbwd.com

JOSHUA BASIN WATER DISTRICT
SPECIAL MEETING OF THE CITIZENS ADVISORY COMMITTEE
TUESDAY JANUARY 4, 2011, 7:00 PM
61750 CHOLLITA ROAD, JOSHUA TREE, CA 92252

AGENDA

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. DETERMINATION OF QUORUM
4. APPROVAL OF AGENDA
5. PUBLIC COMMENT
6. CONSENT CALENDAR
Approve Minutes of the July 27, 2010 Special Meeting of the CAC
7. REVIEW DRAFT URBAN WATER MANAGEMENT PLAN, CHAPTERS 1 AND 2
8. GENERAL MANAGER REPORT
9. SET DATE FOR NEXT CITIZENS ADVISORY COMMITTEE MEETING
10. COMMITTEE COMMENTS/REPORTS
11. ADJOURNMENT

INFORMATION

During either "Public Comment" Item, please use the podium microphone. State your name and have your information prepared and be ready to provide your comments to the Committee. The District is interested and appreciates your comments. A 3-minute time limit may be imposed. Thank you.

Any person with a disability who requires accommodation in order to participate in this meeting should telephone Joshua Basin Water District at (760) 366-8438, at least 48 hours prior to the meeting to make a request for a disability-related accommodation.

Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the District's office located at 61750 Chollita Road, Joshua Tree, California 92252 during normal business hours.



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528 E-MAIL jbwd@jbwd.com

JOSHUA BASIN WATER DISTRICT
SPECIAL MEETING OF THE CITIZENS ADVISORY COMMITTEE
TUESDAY APRIL 12, 2011, 7:00 PM
61750 CHOLLITA ROAD, JOSHUA TREE, CA 92252

AGENDA - REVISED

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. DETERMINATION OF QUORUM
4. APPROVAL OF AGENDA
5. PUBLIC COMMENT
6. CONSENT CALENDAR
Approve Minutes of the January 4, 2011 Special Meeting of the CAC
7. JOSHUA BASIN WATER DISTRICT / ALLIANCE FOR WATER AWARENESS AND CONSERVATION
TOILET EXCHANGE PROGRAM MAY 7 AND MAY 21
8. REVIEW DRAFT URBAN WATER MANAGEMENT PLAN, CHAPTERS 3, 5, 6, AND 8
9. SETTING OF DATE OF PUBLIC HEARING FOR URBAN WATER MANAGEMENT PLAN
10. DISCUSS WATER ACCOUNT GUARANTEE DEPOSIT
11. GENERAL MANAGER REPORT
12. SET DATE FOR NEXT CITIZENS ADVISORY COMMITTEE MEETING
13. COMMITTEE COMMENTS/REPORTS
14. ADJOURNMENT

INFORMATION

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JOSHUA BASIN WATER DISTRICT
MEETING OF THE CITIZENS ADVISORY COMMITTEE
TUESDAY MAY 10, 2011, 7:00 PM
61750 CHOLLITA ROAD, JOSHUA TREE, CA 92252

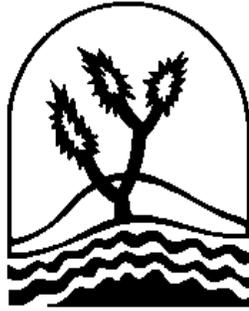
AGENDA

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. DETERMINATION OF QUORUM
4. APPROVAL OF AGENDA
5. PUBLIC COMMENT
6. CONSENT CALENDAR
Approve Minutes of the April 12, 2011 Meeting of the CAC
7. REVIEW DRAFT URBAN WATER MANAGEMENT PLAN WITH SPECIAL ATTENTION TO CHAPTERS 4 AND 7.
8. GENERAL MANAGER REPORT
9. SET DATE FOR NEXT CITIZENS ADVISORY COMMITTEE MEETING
Wednesday May 25th at 7:00 pm
10. COMMITTEE COMMENTS/REPORTS
11. ADJOURNMENT

INFORMATION

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JOSHUA BASIN WATER DISTRICT
REGULAR MEETING OF THE BOARD OF DIRECTORS
WEDNESDAY JUNE 15, 2011 7:00 PM
61750 CHOLLITA ROAD, JOSHUA TREE, CA 92252
AGENDA

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. DETERMINATION OF QUORUM
4. APPROVAL OF AGENDA
5. PUBLIC COMMENT
At this time, any member of the public may address the Board on matters within the Board's jurisdiction that are not listed on the agenda. Please use the podium microphone. The Board may not discuss at length or take action on items not on the agenda.
6. CONSENT CALENDAR
 - A. Approve the Minutes of the June 1, 2011 Regular Meeting
 - B. Approve Reimbursement of Expenses to General Manager in the Amount of \$1,265.13
7. PUBLIC HEARING TO CONSIDER THE WATER AVAILABILITY (STANDBY) CHARGE FOR FISCAL YEAR 2011/2012
Recommend that the Board adopt Resolution 11-870, establishing water availability charges for 11/12 and authorizing collection by San Bernardino County
 - (i) Hearing opened by Presiding Officer
 - (ii) Staff presentation
 - (iii) Questions of Staff by Board
 - (iv) Public testimony opened by Presiding Officer
 - (v) Public testimony Hearing closed
 - (vi) Questions by Board
 - (vi) Discussion by Board
 - (viii) Action by Board
8. PRESENTATION BY UNITED STATES GEOLOGICAL SURVEY (USGS)
Recommend that the Board receive a presentation from Peter Martin on the status of studies underway.

9. **ADOPTION OF URBAN WATER MANAGEMENT PLAN (UWMP)**
 Recommend that the Board receive a presentation by Consultants Kennedy Jenks, hold public hearing, and approve the 2010 update of the Urban Water Management Plan. Alternatively, the Board may take public comment and continue this to an adjourned meeting in order to approve the plan by June 30, 2011.
 - (i) Hearing opened by Presiding Officer
 - (ii) Staff presentation
 - (iii) Questions of Staff by Board
 - (iv) Public testimony opened by Presiding Officer
 - (v) Public testimony Hearing closed
 - (vi) Questions by Board
 - (vii) Discussion by Board
 - (viii) Action by Board

10. **E1-D2 BOOSTER PUMP STATION REPLACEMENT PROJECT – NOTICE OF COMPLETION**
 Recommend that the Board authorize filing of the Notice of Completion for the subject project and authorize final payment in accordance with the Contract Documents.

11. **PURCHASE OF REPLACEMENT COMPUTER SERVER**
 That the Board authorize withdrawal of \$19,246 from the Equipment and Technology Reserve account to purchase a server for replacement of the existing five year old server.

12. **AMENDMENT OF DISTRICT’S ADMINISTRATION CODE**
 Recommend that the Board review and adopt the amendment.

 Administration Code with proposed changes shown
 Administration Code with proposed changes incorporated
 Current Administration Code

13. **COMMITTEE REPORTS**
 - A: **PUBLIC INFORMATION COMMITTEE:** Kathleen Radnich, Public Outreach Consultant
 - B: **AD HOC GENERAL MANAGER PERFORMANCE FACILITATED REVIEW PROCESS:** Vice President Reynolds and Director Long
 - C: **AD HOC PIPELINE REPLACEMENT FUNDING COMMITTEE;** Director Luhrs and Director Wilson

14. **PUBLIC COMMENT**
 At this time, any member of the public may address the Board on matters within the Board’s jurisdiction that are not listed on the agenda. Please use the podium microphone. The Board may not discuss at length or take action on items not on the agenda.

15. **GENERAL MANAGER REPORT**

16. **DIRECTORS COMMENTS/REPORTS**

17. **CLOSED SESSION**
 - A. At this time, the Board will go into Closed Session to confer with Legal Counsel on existing litigation pursuant to subdivision (a) of Government Code Section 54956.9. (Re Joshua Basin Water District v. Robert Ellis, San Bernardino Superior Court - Joshua Tree District, Case No. CIVMS 900168).

B. At this time, the Board will go into Closed Session to confer with Legal Counsel on existing litigation pursuant to subdivision (a) of Government Code Section 54956.9. (Re Joshua Basin Water District v. Ironhead LLC a California Limited Liability Company, Praxedes Beard and Does 1 – 10 inclusive, San Bernardino Superior Court - Joshua Tree District, Case No. CIVMS 1100087).

18. REPORT ON CLOSED SESSION

19. ADJOURNMENT

INFORMATION

During either "Public Comment" Item, please use the podium microphone. State your name and have your information prepared and be ready to provide your comments to the Board. The District is interested and appreciates your comments. A 3-minute time limit may be imposed. Thank you.

The public is invited to comment on any item on the agenda during discussion of that item.

Any person with a disability who requires accommodation in order to participate in this meeting should telephone Joshua Basin Water District at (760) 366-8438, at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the District's office located at 61750 Chollita Road, Joshua Tree, California 92252 during normal business hours.

The Board of Directors reserves the right to take action on items reserved for discussion only.

Review of Draft UWMP Documentation



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528 E-MAIL jbwd@jbwd.com

JOSHUA BASIN WATER DISTRICT
SPECIAL MEETING OF THE CITIZENS ADVISORY COMMITTEE
WEDNESDAY MAY 25, 2011 7:00 PM
61750 CHOLLITA ROAD, JOSHUA TREE, CA 92252

AGENDA

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. DETERMINATION OF QUORUM
4. APPROVAL OF AGENDA
5. PUBLIC COMMENT
6. CONSENT CALENDAR
Approve Minutes of the May 10, 2011 Meeting of the CAC
7. DISCUSSION OF JBWD DRAFT URBAN WATER MANAGEMENT PLAN 2010
8. CASCADE SOLAR WATER SUPPLY ASSESSMENT
9. GENERAL MANAGER REPORT
10. SET DATE FOR NEXT CITIZENS ADVISORY COMMITTEE MEETING
11. COMMITTEE COMMENTS/REPORTS
12. ADJOURNMENT

INFORMATION

During either "Public Comment" Item, please use the podium microphone. State your name and have your information prepared and be ready to provide your comments to the Committee. The District is interested and appreciates your comments. A 3-minute time limit may be imposed. Thank you.

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Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the District's office located at 61750 Chollita Road, Joshua Tree, California 92252 during normal business hours.

PROOF OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA
County of San Bernardino

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the:

HI-DESERT STAR

a newspaper of general circulation, printed and published BI-WEEKLY

in the City of YUCCA VALLEY County of San Bernardino, and which news- paper has been adjudged a newspaper of general circulation by the Superior Court of the County of San Bernardino, State of California,

under the date of 11/27 19 61

Case Number 107762: that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

5/14, 5/21

all in the years 2011

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at: YUCCA VALLEY, California,
this 21st. day May 2011



Signature
Bekie Edelbrock

Proof of Publication

NOTICE OF PUBLIC HEARING(S)
JBWD

NOTICE OF PUBLIC HEARING(S)
2010 URBAN WATER MANAGEMENT PLAN

Joshua Basin Water District (JBWD) is preparing a 2010 Urban Water Management Plan ("UWMP") for the Joshua Basin Water District, pursuant to the Urban Water Management Planning Act ("Act"). Adoption of the 2010 UWMP is required under the Act by July 1, 2011.

JBWD is seeking comments to the UWMP from the public at the following two meetings:

The JBWD Citizens Advisory Committee will hold a public meeting at 7:00 pm on-- Wednesday, May 25, 2011. The JBWD Board of Directors will hold a public hearing at 7:00 pm on Wednesday, June 15, 2011. Both will take place at the Joshua Basin Water District Board Room located at 61750 Chollita Road, Joshua Tree California 92252.

The Draft 2010 JBWD Urban Water Management Plan is available for review at the District office located at 61750 Chollita Road Joshua Tree California 92252, at the Joshua Tree branch of the San Bernardino County Library located at 6465 Park Boulevard, Joshua Tree California 92252, and on the JBWD website, www.jbwd.com.

For additional information regarding the public hearings, please contact Joe Guzzetta, General Manager, at (760) 366-8438.
(PUB: S. 5/14, 5/21/2011)

Joshua Basin Water District - Windows Internet Explorer

http://www.jbwd.com/

Joshua Basin Water District

[Home](#)
[About JBWD](#)
[Board of Directors](#)
[Water Conservation](#)
[Customer Service](#)
[Kids Corner](#)
[Human Resources](#)



Providing high quality water to our customers now and into the future

-  [PAYING YOUR BILL](#)
-  [DISTRICT MAP](#)
-  [WATER CONSERVATION TIPS](#)
-  [UPCOMING BOARD AGENDA](#)
-  [NEWSLETTER](#)

welcome...

to the Joshua Basin Water District's newly designed web site. Each day, JBWD delivers nearly 1.5 million gallons of water to more than 5,500 connections throughout a 96-square mile area between Yucca Valley, Twentynine Palms, Joshua Tree National Park and the Twentynine Palms Marine Corps Base.

Our Mission is:
 To provide a high standard of water quality and customer service at responsible cost.
 To protect the water resources of Joshua Basin Water District.
 To promote cooperation and respect with customers, employees, neighboring



District Updates and Upcoming Events

[The Revised Draft Urban Water Management Plan](#)
[Click Here to View](#)

[Demo Garden NOW Open](#)
 The Demo Garden is open M-F 8am - 5pm and on weekends by appointment. To inquire about setting up an appointment please contact the office during normal business hours.

[Recharge & Pipeline Final and Draft of EIR Complete](#)
[Click Here to View the Final FIR](#)

Done Internet | Protected Mode: Off 125%

Marie Salsberry

From: Marie Salsberry
Sent: Tuesday, April 26, 2011 8:45 AM
To: 'christine.kelly@lus.sbcounty.gov'; 'apayan@dph.sbcounty.gov'
Subject: Joshua Basin Water UWMP Draft
Attachments: INITIAL DRAFT COMPLETED 4 20 11.pdf

Good Morning;

A pdf file of Joshua Basin Water District's Draft 2010 Urban Water Management Plan is attached here for your consideration. Joshua Basin Water District will conduct a public hearing on Wednesday June 15, 2011 at the Joshua Basin Water District Boardroom located at 61750 Chollita Road, Joshua Tree, California 92252, to consider adopting the 2010 Urban Water Management Plan.

If you have any questions or comments, please direct them to myself, or to JBWD General Manager Joe Guzzetta; jguzzetta@jbwd.com, 760.366.8438.

A hardcopy of the JBWD 2010 Draft Urban Water Management Plan is also being mailed to your office.

Marie Salsberry
Executive Secretary

*Joshua Basin Water District
Mailing: PO Box 675
Physical Location: 61750 Chollita Road
Joshua Tree, CA 92252
Phone: 760.366.8438
Fax: 760.366.9528*

7003 1010 0002 5319 4631

Sandra Carlson

From: Joe Guzzetta [JGuzzetta@jbwd.com]
Sent: Friday, June 24, 2011 1:47 PM
To: Sandra Carlson
Subject: FW: 2010 Urban Water Management Plan
Attachments: UWMP.Final Draft to CAC.5.20.11.doc

Sandra,
This is the e-mail sent to the BIA
Joe

From: Joe Guzzetta
Sent: Monday, June 06, 2011 12:09 PM
To: 'Carlos Rodriguez'
Subject: 2010 Urban Water Management Plan

Hi Carlos,
Attached is our "almost final" draft of the 2010 Urban Water Management Plan. For the 2005 Plan we had a representative of the BIA on our Citizens Advisory Committee to participate. She was from the local chapter. Since the local chapter hasn't been meeting for the past year we have had no direct involvement from the BIA in reviewing the Plan.

I'll note in the Plan that the BIA has received a copy of the draft and remove reference to having participated in the plan review. As far as I am aware, there are no surprises or major changes that would affect builders. The conclusion is that there is water to meet the anticipated needs.

Our Board will hold its Public Hearing on Wednesday, June 15 in order to adopt the Plan by June 30 as required by state law.

Please let me know if you have any questions.
Joe

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Attn: Christine Kelly
 Director for Land use Svcs. Dept
 County of San Bernardino
 385 N. Arrowhead
 San Bernardino CA
 92415-0187

2. Article Number

(Transfer from service label)

7003 1010 0002 5319 4631

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

B. Cole

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

Certified Mail Express Mail

Registered Return Receipt for Merchandise

Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes



EH 746335407 US



Customer Copy

Label 11-B, March 2004

UNITED STATES POSTAL SERVICE®

Post Office To Addressee

DELIVERY (POSTAL USE ONLY)

Delivery Attempt	Time	<input type="checkbox"/> AM	Employee Signature
Mo. Day		<input type="checkbox"/> PM	
Delivery Attempt	Time	<input type="checkbox"/> AM	Employee Signature
Mo. Day		<input type="checkbox"/> PM	
Delivery Date	Time	<input type="checkbox"/> AM	Employee Signature
Mo. Day		<input type="checkbox"/> PM	

CUSTOMER USE ONLY

PAYMENT BY ACCOUNT

Express Mail Corporate Acct. No.

WAIVER OF SIGNATURE (Domestic Mail Only)

Additional merchandise insurance is void if customer requests waiver of signature.

I wish delivery to be made without obtaining signature of addressee or addressee's agent (if delivery employee judges that article can be left in secure location) and I authorize that delivery employee's signature constitutes valid proof of delivery.

Federal Agency Acct. No. or Postal Service Acct. No.

NO DELIVERY

Weekend

Holiday

Mailer Signature

ORIGIN (POSTAL SERVICE USE ONLY)

PQ ZIP Code	Day of Delivery	Postage
92252	<input checked="" type="checkbox"/> Next <input type="checkbox"/> 2nd <input type="checkbox"/> 2nd Del. Day	\$ 13.25
Date Accepted	Scheduled Date of Delivery	Return Receipt Fee
4/26-11	4/27	\$ 2.30
Mo. Day Year	Month Day	COD Fee
	Scheduled Time of Delivery	Insurance Fee
Time Accepted	<input checked="" type="checkbox"/> Noon <input type="checkbox"/> 3 PM	\$
10:13 AM	Military	Total Postage & Fees
<input type="checkbox"/> AM <input type="checkbox"/> PM	<input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	\$ 18.55
Flat Rate <input type="checkbox"/> or Weight	Int'l Alpha Country Code	Acceptance Emp. Initials
8.00 lbs. ozs.		I.A

FROM: (PLEASE PRINT)

PHONE (760) 366-8438

Joshua Basin Water Dist.
 P.O. Box 675
 Joshua Tree, CA 92252

TO: (PLEASE PRINT)

PHONE ()

Attn: Christine Kelly Dir. Land use Svcs
 County of San Bernardino
 385 N. Arrowhead
 San Bernardino CA

ZIP + 4 (U.S. ADDRESSES ONLY. DO NOT USE FOR FOREIGN POSTAL CODES.)

9 2 4 1 5 + 0 1 8 7

FOR INTERNATIONAL DESTINATIONS, WRITE COUNTRY NAME BELOW.

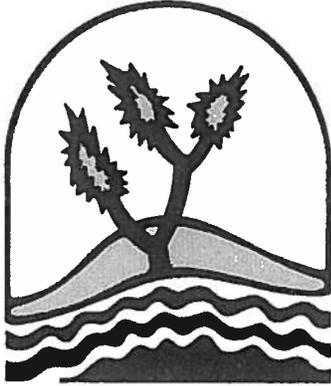
FOR PICKUP OR TRACKING

Visit www.usps.com

Call 1-800-222-1811



Public Meeting Notice Documentation



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528

April 8, 2011

Christine Kelly, Director for Land Use Services Department
County of San Bernardino
385 N Arrowhead
San Bernardino, CA 92415-0187

Subject: Notification of Public Hearing for
2010 Joshua Basin Water District Urban Water Management Plan

Dear Ms. Kelly:

The Joshua Basin Water District will conduct a public hearing at 7:00pm on Wednesday, June 15, 2011 at the Joshua Basin Water District Board Room located at 61750 Chollita Road, Joshua Tree, California 92252, to consider adopting the 2010 Urban Water Management Plan.

Joshua Basin Water District is providing you with this notice pursuant to Water Code, Section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. Additionally, when a draft Urban Water Management Plan is available for public review, a copy will be sent to you.

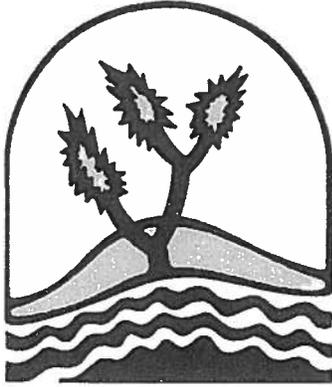
The Joshua Basin Water District is preparing its Urban Water Management Plan as it did in 2000 and 2005. Adoption of the plan is required under the Urban Water Planning Management Act by July 1, 2011.

If you have any questions please contact me at 760-366-2042 extension 226.

Sincerely,

Joe Guzzetta
General Manager

JG/ms



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528

April 11, 2011

Kirby Brill, General Manager
Mojave Water Agency
22450 Headquarters Drive
Apple Valley CA 92307

Subject: Notification of Public Hearing for 2010 Joshua Basin Water District
Urban Water Management Plan

Dear Kirby:

The Joshua Basin Water District will conduct a Public Hearing at 7:00 pm on Wednesday, June 15, 2011 at the Joshua Basin Water District Board Room, located at 61750 Chollita Road, Joshua Tree, California 92252, to consider the adoption of the 2010 Urban Water Management Plan.

Joshua Basin Water District is providing you with this notice in the event that you would like to comment. Additionally, when a draft Urban Water Management Plan is available for public review, we would be pleased to send you a copy. If you would like one, please send an e-mail request to joeg@jbwd.com.

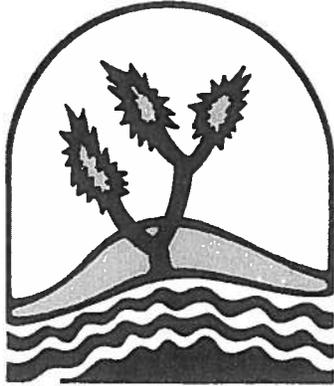
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If you have any questions please call me at 760-366-2042 extension 226.

Sincerely,

Joe Guzzetta
General Manager

JG/ms



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528

April 11, 2011

Marina West, General Manager
Bighorn-Desert View Water Agency
622 S. Jemez Trail
Yucca Valley, CA 92284-1440

Subject: Notification of Public Hearing for 2010 Joshua Basin Water District
Urban Water Management Plan

Dear Marina:

The Joshua Basin Water District will conduct a Public Hearing at 7:00 pm on Wednesday, June 15, 2011 at the Joshua Basin Water District Board Room, located at 61750 Chollita Road, Joshua Tree, California 92252, to consider the adoption of the 2010 Urban Water Management Plan.

Joshua Basin Water District is providing you with this notice in the event that you would like to comment. Additionally, when a draft Urban Water Management Plan is available for public review, we would be pleased to send you a copy. If you would like one, please send an e-mail request to joeg@jbwd.com.

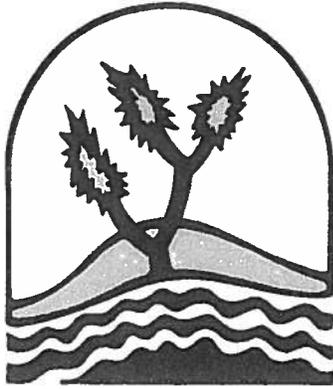
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If you have any questions please call me at 760-366-2042 extension 226.

Sincerely,


Joe Guzzetta
General Manager

JG/ms



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528

April 11, 2011

Mike Wright, General Manager
Twentynine Palms Water District
72401 Hatch Road
Twentynine Palms CA 92277

Subject: Notification of Public Hearing for 2010 Joshua Basin Water District
Urban Water Management Plan

Dear Mike:

The Joshua Basin Water District will conduct a Public Hearing at 7:00 pm on Wednesday, June 15, 2011 at the Joshua Basin Water District Board Room, located at 61750 Chollita Road, Joshua Tree, California 92252, to consider the adoption of the 2010 Urban Water Management Plan.

Joshua Basin Water District is providing you with this notice in the event that you would like to comment. Additionally, when a draft Urban Water Management Plan is available for public review, we would be pleased to send you a copy. If you would like one, please send an e-mail request to joeg@jbwd.com.

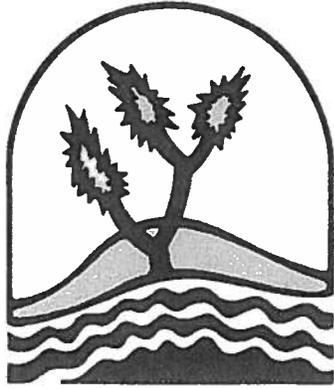
The Joshua Basin Water District is preparing its Urban Water Management Plan as it did in 2000 and 2005. Adoption of the plan is required under the Urban Water Planning Management Act by July 1, 2011.

If you have any questions please call me at 760-366-2042 extension 226.

Sincerely,

Joe Guzzetta
General Manager

JG/ms



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528

April 11, 2011

Ed Muzik, General Manager
High Desert Water District
55439 29 Palms Hwy
Yucca Valley, CA 92284-2503

Subject: Notification of Public Hearing for 2010 Joshua Basin Water District
Urban Water Management Plan

Dear Ed:

The Joshua Basin Water District will conduct a Public Hearing at 7:00 pm on Wednesday, June 15, 2011 at the Joshua Basin Water District Board Room, located at 61750 Chollita Road, Joshua Tree, California 92252, to consider the adoption of the 2010 Urban Water Management Plan.

Joshua Basin Water District is providing you with this notice in the event that you would like to comment. Additionally, when a draft Urban Water Management Plan is available for public review, we would be pleased to send you a copy. If you would like one, please send an e-mail request to joeg@jbdwd.com.

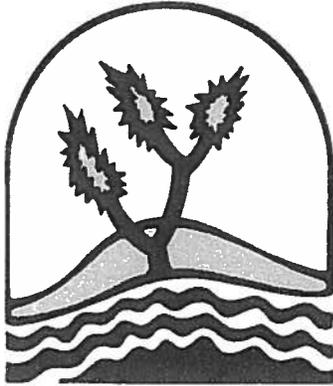
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If you have any questions please call me at 760-366-2042 extension 226.

Sincerely,

Joe Guzzetta
General Manager

JG/ms



JOSHUA BASIN WATER DISTRICT

P.O. BOX 675 • 61750 CHOLLITA ROAD • JOSHUA TREE • CALIFORNIA 92252
TELEPHONE (760) 366-8438 FAX (760) 366-9528

April 11, 2011

Chris Elliott, Water Resources Manager
MAGTFTC MCAGCC NREA
Box 788110 Bldg 1451
Twentynine Palms, CA 92278-8110

Subject: Notification of Public Hearing for 2010 Joshua Basin Water District
Urban Water Management Plan

Dear Chris:

The Joshua Basin Water District will conduct a Public Hearing at 7:00 pm on Wednesday, June 15, 2011 at the Joshua Basin Water District Board Room, located at 61750 Chollita Road, Joshua Tree, California 92252, to consider the adoption of the 2010 Urban Water Management Plan.

Joshua Basin Water District is providing you with this notice in the event that you would like to comment. Additionally, when a draft Urban Water Management Plan is available for public review, we would be pleased to send you a copy. If you would like one, please send an e-mail request to joeg@jbwd.com.

The Joshua Basin Water District is preparing its Urban Water Management Plan as it did in 2000 and 2005. Adoption of the plan is required under the Urban Water Planning Management Act by July 1, 2011.

If you have any questions please call me at 760-366-2042 extension 226.

Sincerely,


Joe Guzzetta
General Manager

JG/ms

Appendix C

JBWD 1996 Groundwater Management Plan (included on CD-ROM)

Appendix D

MWA's SWP IDM Continued Supply Letter to JBWD



April 7, 2011

Ms. Mary Lou Cotton
Senior Water Resources Manager
Kennedy/Jenks Consultants
2775 Ventura Road, Suite 100
Oxnard, CA 93036

Re: State Water Project water supply availability to IDM Participants beyond the year 2022

Dear Ms. Cotton:

We have received a request by you to provide information on water supply availability from the Morongo Basin Pipeline to MWA customers in Improvement District Morongo (IDM) beyond the term of the IDM Participants Agreement ("IDM Agreement").

The IDM Agreement allocates one-seventh of 50,800 acre-feet (af) of MWA's State Water Project (SWP) Table A water to the IDM participants, or a maximum of 7,257 af per year, subject to annual allocations from the Department of Water Resources (DWR). The 2009 State Water Project Delivery Reliability Report indicates that the long-term average water supply reliability for SWP contractors is anticipated to be 60% of the total Table A amounts through the year 2035. Under the IDM Agreement allocation methodology described above, a 60% SWP allocation would result in a minimum supply of 4,354 af total to IDM customers.

However, in the past several years (during the low SWP allocations), MWA has been allocating the limited SWP supplies to all MWA customers on the basis of a percentage of previous years' demands. In the case of High Desert Water District (the sole current IDM participant capable of taking SWP water) deliveries made by MWA have been greater than the contractual delivery requirements pursuant to the IDM agreement. In the foreseeable future, MWA will continue this practice whenever possible but will still honor its minimum contractual obligations defined in the IDM Agreement.

The term of the IDM Agreement will continue until the year 2022 or until all bonds issued on the project have been retired. After the IDM Agreement has expired, MWA will allocate SWP water to meet customer demands in the IDM area in a manner

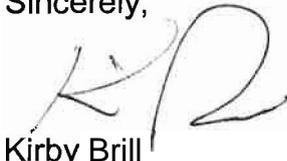
consistent with its universally applied SWP allocation policies. It is reasonable to assume that policies will be similar to the allocation methods MWA has used during the last few years (i.e. shortages will be shared by all MWA customers during dry periods and SWP supplies allocated according to customers' proportionate share of historic deliveries)

As you are aware, MWA has done extensive research and analysis in preparation of regional water demand projections for its 2010 Urban Water Management Plan (UWMP), and has collaborated with the Technical Advisory Committee (TAC) to the MWA and its participants, including participants in the IDM Agreement, throughout the development of the projections. Draft regional projections indicate that total water supplies available to MWA, including local supplies and imported supplies from the SWP, will be sufficient to meet total water demands beyond the year 2035. A draft of the UWMP is currently available for review.

Based upon the projections prepared for MWA's Draft 2010 UWMP, it is anticipated that SWP supplies available to MWA will be sufficient to meet customer demands for imported water supplies through the year 2035, if local groundwater storage programs are used to buffer against short-term reductions or disruptions in supply.

I hope that this letter is sufficient for the information you need

Sincerely,

A handwritten signature in black ink, appearing to read 'Kirby Brill', is written over a light blue circular stamp.

Kirby Brill
General Manager

Cc: Ed Muzik, Hi-Desert Water District
Joe Guzzetta, Joshua Basin Water District
Sandra Carlson, Kennedy/Jenks Consultants

Appendix E

DMM Support Documents

Residential Assistance Checklist



**JOSHUA BASIN
WATER DISTRICT**

Date:	
Sheet	of

Inspected By:

RESIDENTIAL ASSISTANCE CHECKLIST

ACCOUNT# 08-210

SITE INFO	
Customer Name:	
Address:	
City, State, Zip:	
Phone:	
Meter #	Plot #

INFO/PRODUCTS PROVIDED	✓
Reading your water meter	
Winterizing pipes	
Shower heads/faucet aerators	
HE clothes washer rebate info	
WSS toilet rebate info	

LEAK DETECTION		
Home Exterior	✓	Comments
Check leak detector at water meter		
Check water hoses and faucets for leaks		
Check pool plumbing for leaks		
Check swamp cooler lines for leaks		
Home Interior		
Check if home was built before 1992		
Check toilets for leaks with dye tablets		
Check bathroom and kitchen faucets for leaks		
Check faucet nozzles for aerators		
Low-flow fixtures are installed		

LANDSCAPE WATER SURVEY		
Irrigation Requirements	✓	Comments
Heads are properly located around plants		
Application rate is appropriate		
No overspray, runoff or ponding exists		
Operation of valves produces no water waste		
Nozzles are properly matched		
Irrigation controller is installed and operational		
Irrigation is scheduled appropriately		
Landscape (estimate area in square feet)	SF	
Plantings are drought tolerant		
Lawn area/water intensive plantings are minimal		
Plantings with similar water needs are grouped		

CUSTOMER IRRIGATION SCHEDULE											
CONTROLLER INFO											
Programs											
Cycles											
Days											
Program	Station Number	1	2	3	4	5	6	7	8	9	10
A	Run Time										
B											
C											
Recommendations											

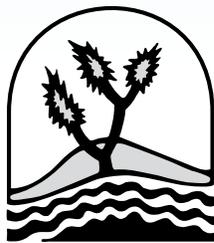
WaterWise Program Summary Report 2009-
2010



JOSHUA BASIN

WATERWISE™ PROGRAM SUMMARY REPORT

SPONSORED BY:



JOSHUA BASIN WATER DISTRICT

SUBMITTED BY:
RESOURCE ACTION PROGRAMS®



2009 - 2010

Joshua Basin WaterWise Program

Sponsored by:



Program Summary Report 2009 - 2010

Submitted By:

Resource Action Programs®



June 2010

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EXECUTIVE SUMMARY

This report summarizes the 2009 – 2010 Joshua Basin Water District WaterWise Program which was implemented by Sherry Killam at Joshua Tree Elementary School. The Program was used by twenty- seven fifth-grade students and their families.

The Program is a fully implemented, multi-resource efficiency/ education program designed to facilitate installation of efficiency measures in homes and build knowledge of environmental issues. The Program yields a variety of measurable energy and water savings results using the best messengers - students. The Program delivered a proven blend of teacher-designed classroom activities with hands-on home projects to install high efficiency devices and introduce resource-conscious behavior to students and their families. Both educational studies and utility evaluations have confirmed the importance of addressing the various learning styles to maximize both learning and the adoption of new behaviors. The most critical elements of this approach are both the actual use of the new knowledge as well as the reporting function which provides a crucial reinforcement of the learning process while increasing participation and persistence. An overview of the results from the Program appears below, with greater detail in the attached report.



The Program delivered a proven blend of teacher-designed classroom activities with hands-on home projects to install high efficiency devices .

“Thank you (and the JT Water District and WaterWise for everything!) Wonderful field trip and learning, great poster contest excitement, and now this! I have already ordered some cool stuff, which should be arriving soon: A Weather Station, so we can measure and graph the air temperature and barometric pressure; and a Hands-On Science Experiment Kit with lots of experiments and projects. Thank you for an all around great experience.”

Sherry Killam, Teacher
Joshua Tree Elementary School

Participant Satisfaction: A significant element of a successful Program is participant satisfaction. The teacher, students, and parents are all asked to evaluate the Program and provide personal comments.



Knowledge Gained: Identical surveys (tests) were taken by students prior to the Program and again upon Program completion to measure knowledge gained. Scores and subject knowledge improved from **66% to 73%**.

Audit Data Obtained: Home audits were performed by students and their families, collecting household demographic and usage data along with Program participation information.

- **56% reported that their family homes were owned.**
 - **31% reported that their water was heated by electricity.**
 - **18% reported that their home has an automatic sprinkler system.**
- (A summary of responses can be found in Appendix B)

Measures Installed: Students completed retrofit activities as part of the Program, and reported the measures they installed in their own homes. Specifically:

- **30% reported they installed the high-efficiency showerhead.**
 - **30% reported they installed the bathroom aerator.**
 - **44% reported they installed the kitchen aerator.**
- (A summary of responses can be found in Appendix B)

Water and Energy Savings Results: In addition to educating students and their parents, the primary Program goal for utility sponsors is to generate cost effective energy and water savings. Students reporting activities not only provided the data used in savings projections, but also reinforced the learning benefits.

Projected Resource Savings

(A list of assumptions and formulas used for these calculations can be found in Appendix A)

Projected Annual Savings

206,438	gallons of water saved
831	therms of gas saved
7,107	kWh electricity saved
206,438	gallons wastewater saved

Projected Ten Year Savings

1,777,226	gallons of water saved
7,150	therms of gas saved
61,182	kWh electricity saved
1,777,226	gallons wastewater saved

Projected Average Annual Savings per Home

7,646	gallons of water saved
31	therms of gas saved
263	kWh electricity saved
7,646	gallons wastewater saved

Projected Average Ten Year Savings per Home

65,823	gallons of water saved
265	therms of gas saved
2,266	kWh electricity saved
65,823	gallons wastewater saved



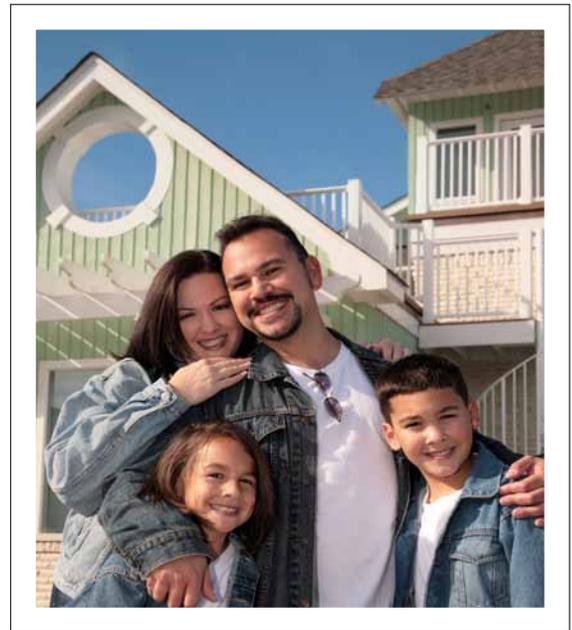
PROGRAM OVERVIEW

For more than sixteen years, Resource Action Programs (RAP) has designed and implemented resource efficiency and education programs – changing household energy and water use while delivering significant, measurable resource savings for program sponsors. All RAP programs feature a proven blend of innovative education, comprehensive implementation services, and hands-on activities to put new knowledge to work in students’ homes.

RAP Programs serve more than 300,000 households each year through elementary school, middle school and adult programs. Our forty person staff manages the implementation process and program oversight for nearly 200 individual programs annually. Recognized nationally as a leader in water and energy efficiency education and program design, RAP has a strong reputation for providing a high level of client service to its sponsors as part of a wide range of conservation and resource efficiency solutions for municipalities, utilities, states, community agencies and corporations.

All aspects of program design and implementation are completed from the Program Center in Sparks, Nevada. These include graphic and web design, print production, warehousing and distribution, kit production, marketing, program tracking, data tabulation, and reporting.

The school-based WaterWise Program is fully implemented and designed to generate immediate and long-term savings by bringing interactive “real world” education home with motivated students. The Program staff identifies and enrolls students and teachers within the designated service territory. Enrolled participants receive educational materials designed to build knowledge and demonstrate simple ways to save, by not only changing habits, but also changing devices. Materials meet state and national educational standards, which allow the Program to easily fit into teachers’ existing schedules and requirements.



RAP Programs serve more than 300,000 households each year through elementary school, middle school, and adult programs.

The Joshua Basin Water District WaterWise Program began with a field trip on April 20, 2010 to the Joshua Basin Water District Conservation Garden. Upon arrival, the students from Joshua Tree Elementary were given an introduction to the District and viewed a PowerPoint presentation of the WaterWise Program which included in depth information about the use of natural resources, water sources in their community, and the importance of water and energy conservation. The students spent the next two hours cycling through five stations in the garden learning with hands-on experiments about the water cycle, conservation, and local water sources. At the conclusion of the day, students were given a WaterWise Kit containing high-efficiency measures. With the help of their parents, they installed the measures in their home and completed a home survey.

The WaterWise staff tabulates all responses, including home survey information, teacher response, student input, parent responses, and generates a Program Summary Report. By installing, and monitoring the new efficiency measures in their own homes, students are able to measure what they learned, by actual water, energy, and monetary savings! These savings benefit both the participating student households and their communities overall.



Each participant receives classroom materials and a WaterWise Kit containing efficiency measures for their homes to perform the hands-on activities.

Each student/teacher receives:

- Student Guide
- Student Workbook
- Parent Introduction Letter*
- Home Audit Form
- Pre & Post Surveys
- Certificate of Achievement
- WaterWise Activity Kit containing:
 - Oxygenics® High Efficiency Showerhead*
 - Kitchen Aerator*
 - Bathroom Aerator*
 - Mini Tape Measure
 - Digital Water / Air / Refrigerator / Freezer Thermometer*
 - Drip / Rain Gauge*
 - Flow Rate Test Bag
 - Natural Resource Fact Chart
 - Toilet Leak Detector Tablets*
 - Parent Comment Card
- 'GetWise' Wristbands
- Interactive Program Web site
- Toll-Free Telephone Support

The teacher/classroom receives:

- Teacher Book
- Step-by-Step Program Checklist
- Lesson Plans
- Program Video (VHS and DVD)
- Program Evaluation
- Supplemental Activities*
- California State Education Standards Correlation Chart
- Pre/Post Survey Answer Keys
- Classroom Natural Gas, Electricity, and Water Posters
- Self Addressed Postage Paid Envelope



*Materials / Installation Instructions
 Provided in English and Spanish

The 2009-2010 Joshua Basin Water District WaterWise Program followed this comprehensive implementation schedule:

1. Identification of California State Education Standards & Benchmarks
2. Curriculum Development and Refinement (Completed Annually)
3. Curriculum Correlation to California State Education Standards & Benchmark
4. Incentive Program Development
5. Teacher / School Identification – with Joshua Basin Water District Approval
6. Teacher Outreach and Program Introduction
7. Field Trip at Joshua Basin Water District
8. Program Material Delivered to Coincide with Desired Implementation Date
9. Program Completion Incentive Offered
10. Results Collection
11. Thank-you Card Sent to Participating Teacher
12. Data Analysis
13. Program Summary Report

Ms. Killam was free to implement the Program to coincide with her lesson plans and class schedule.

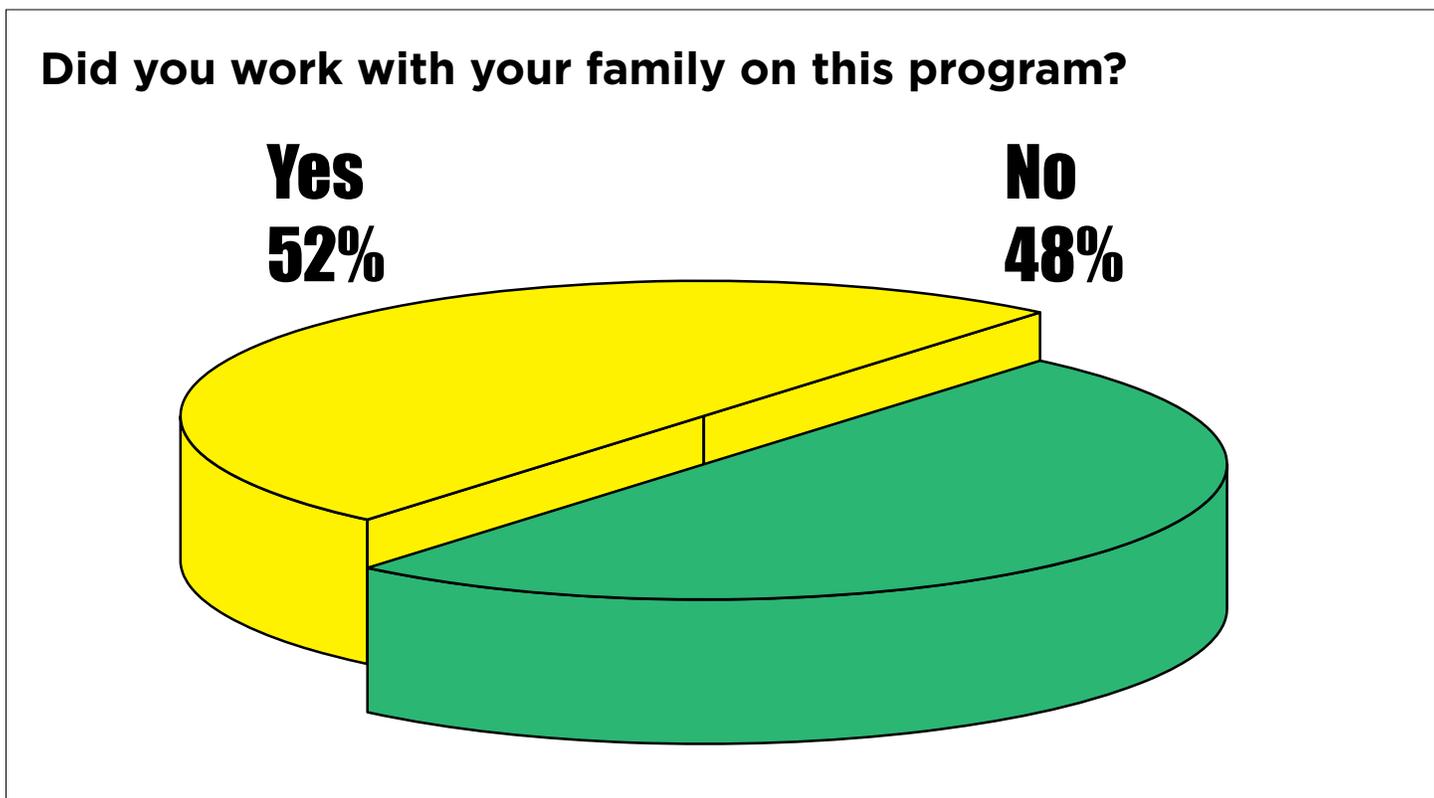


The Joshua Basin Water District WaterWise Program has had a significant impact within the community. As illustrated below, the Program successfully educated a portion of the community about water and energy efficiency while generating resource savings through the installation of efficiency measures in homes. Home audit and installation information was collected to track savings and provide household consumption and audit data to sponsors. Program evaluations and comments were collected from Ms. Killam, students and parents. The following program elements were used to collect this data:

A. Home Survey and Retrofits

Upon completion of the Program, participating families are asked to complete a home survey to assess their resource use, verify product installation, provide demographic information and measure participation rates. A few samples of questions asked are below while a complete summary of all responses is included in the appendices.

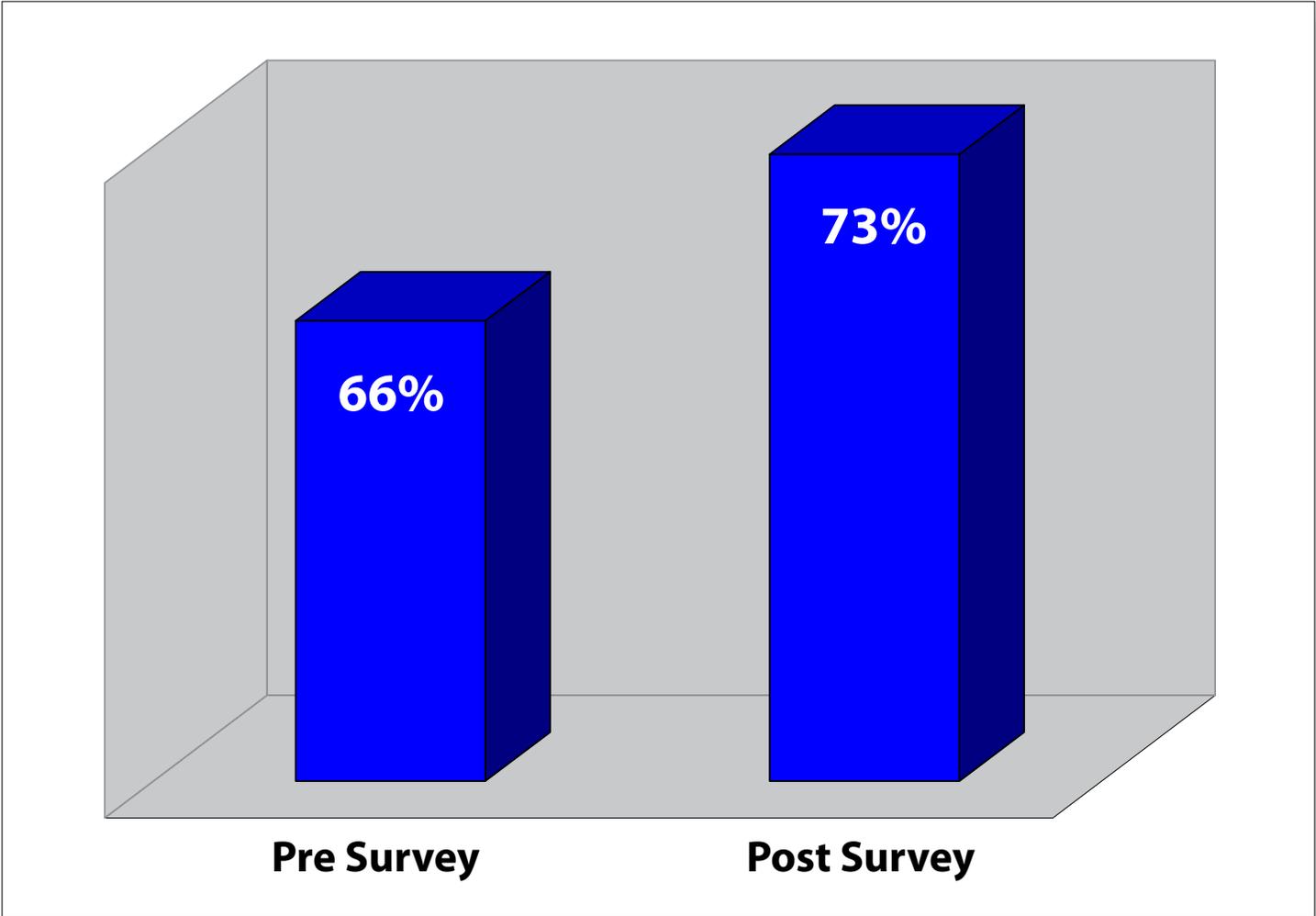
- Did your family install the new high-efficiency showerhead?** **Yes - 30%**
- Did you work with your family on this program?** **Yes - 52%**
- How is your water heated** **Electricity - 31%**



B. Knowledge Gained

Students were asked to complete a ten question survey before the Program was introduced and then again after it was completed to determine the learning impact and the knowledge gained through the Program. The average student answered 6.6 questions correctly prior to being involved in the Program and then improved to answer 7.3 questions correctly following participation.

Scores improved from 66% to 73%





C. Water and Energy Savings Summary

As part of the program and working with parents or guardians, students installed resource efficiency measures in their homes. They also measured the pre-existing devices to calculate savings that they generated. Using the family habits collected from the customer survey information as the basis for this calculation, twenty-seven households are expected to save the following resource totals. Savings from these actions and new behaviors will continue for many years to come.

Projected Resource Savings

Number of Participants:

27

	<u>Annual</u>	<u>Lifetime</u>
Reduction from showerhead retrofit:	149,008	1,490,076 gallons
Product Life: 10 years	600	5,995 therms
	5,130	51,297 kWh
 Reduction from kitchen aerator retrofit:	 34,148	 170,738 gallons
Product Life: 5 years	137	687 therms
	1,176	5,878 kWh
 Reduction from bathroom aerator retrofit:	 23,282	 116,412 gallons
Product Life: 5 years	94	468 therms
	802	4,008 kWh
 TOTAL PROGRAM SAVINGS:	 206,438	 1,777,226 gallons
	831	7,150 therms
	7,107	61,182 kWh
 TOTAL PROGRAM SAVINGS PER HOUSEHOLD:	 7,646	 65,823 gallons
	31	265 therms
	263	2,266 kWh

D. Program Enhancements

In addition to increasing resource awareness and efficiency, the Program strengthens bonds between sponsors and their communities. The Program has been designed from start to finish with this in mind. Some of the steps taken to ensure our sponsors receive the greatest possible exposure are as follows:

Promotion of Sponsor Programs: Program materials can be used to publicize and boost enrollment in additional efficiency program opportunities. The students at Joshua Tree Elementary were encouraged to participate in a Joshua Basin Water District sponsored poster contest to display their new knowledge of water conservation.



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Projected Savings from Showerhead Retrofit

Average household size:	3.15 people ⁵
Average length of use:	8.00 minutes per day ⁶
Product life:	10.00 years ²
Average showerhead has a flow rate of:	4.00 gallons per minute ⁶
Oxygenics showerhead has flow rate of:	2.00 gallons per minute ²
Flow reduction:	2.00 gallons per minute

Water:

Average showerhead requires:	100.80 gallons per day
Retrofit showerhead requires:	50.40 gallons per day
Showerhead produces an annual reduction of:	18,396.00 gallons
Showerhead produces a lifetime reduction of:	183,960 gallons

Gas:

Average showerhead requires:	0.59 therms per day
Retrofit showerhead requires:	0.29 therms per day
% of water heated by gas:	69% ³
Showerhead produces an annual reduction of:	74 therms
Showerhead produces a lifetime reduction of:	740 therms

Electricity:

Average showerhead requires:	11.19 kWh per day
Retrofit showerhead requires:	5.60 kWh per day
% of water heated by electricity:	31% ³
Showerhead produces an annual reduction of:	633 kWh
Showerhead produces a lifetime reduction of:	6,333 kWh

Installation / participation rate of:	30% ³
Number of Participants	27 ³

Total reduction from showerhead retrofit:

Annual: 149,008 gallons
600 therms
5,130 kWh

Lifetime: 1,490,076 gallons
5,995 therms
51,297 kWh

² Provided by manufacturer.

³ Data reported by program participants.

⁵(2010, June 14). Retrieved June 14, 2010, from U.S. Census Bureau State and County Quick Facts Web site: <http://quickfacts.census.gov/qfd/states/06/06071.html>

⁶(2001). In Southern California Edison Evaluation of 2000-2001 School Programs Ridge & Associates.

Projected Savings from Kitchen Aerator Retrofit

Average household size:	3.15 people ⁵
Average length of use:	2.50 minutes per day ⁶
Product life:	5.00 years ²
Average kitchen aerator has a flow rate of:	2.50 gallons per minute ⁶
Retrofit kitchen aerator has flow rate of:	1.50 gallons per minute ¹
Flow reduction:	1.00 gallons per minute

Water:

Average kitchen aerator requires:	19.69 gallons per day
Retrofit kitchen aerator requires:	11.81 gallons per day
Retrofit kitchen aerator produces an annual reduction of:	2,874 gallons
Retrofit kitchen aerator produces a lifetime reduction of:	14,372 gallons

Gas:

Average kitchen aerator requires:	0.11 therms per day
Retrofit kitchen aerator requires:	0.07 therms per day
% of water heated by gas:	69% ³
Retrofit kitchen aerator produces an annual reduction of:	12 therms
Retrofit kitchen aerator produces a lifetime reduction of:	58 therms

Electricity:

Average kitchen aerator requires:	2.19 kWh per day
Retrofit kitchen aerator requires:	1.31 kWh per day
% of water heated by electricity:	31% ³
Retrofit kitchen aerator produces an annual reduction of:	99 kWh
Retrofit kitchen aerator produces a lifetime reduction of:	495 kWh

Installation / participation rate of:	44% ³
Number of Participants	27 ³

Total reduction from kitchen aerator retrofit:

Annual:	34,148 gallons
	137 therms
	1,176 kWh
Lifetime:	170,738 gallons
	687 therms
	5,878 kWh

² Provided by manufacturer.

³ Data reported by program participants.

⁵(2010, June 14). Retrieved June 14, 2010, from U.S. Census Bureau State and County Quick Facts Web site: <http://quickfacts.census.gov/qfd/states/06/06071.html>

⁶(2001). In Southern California Edison Evaluation of 2000-2001 School Programs Ridge & Associates.

Projected Savings from Bathroom Aerator Retrofit

Average household size:	3.15 people ⁵
Average length of use:	2.50 minutes per day ⁶
Product life:	5.00 years ²
Average bathroom aerator has a flow rate of:	2.00 gallons per minute ⁶
Retrofit bathroom aerator has flow rate of:	1.00 gallons per minute ¹
Flow reduction:	1.00 gallons per minute

Water:

Average bathroom aerator requires:	15.75 gallons per day
Retrofit bathroom aerator requires:	7.88 gallons per day
Retrofit bathroom aerator produces an annual reduction of:	2,874 gallons
Retrofit bathroom aerator produces a lifetime reduction of:	14,372 gallons

Gas:

Average bathroom aerator requires:	0.09 therms per day
Retrofit bathroom aerator requires:	0.05 therms per day
% of water heated by gas:	69% ³
Retrofit bathroom aerator produces an annual reduction of:	12 therms
Retrofit bathroom aerator produces a lifetime reduction of:	58 therms

Electricity:

Average bathroom aerator requires:	1.75 kWh per day
Retrofit bathroom aerator requires:	0.87 kWh per day
% of water heated by electricity:	31% ³
Retrofit bathroom aerator produces an annual reduction of:	99 kWh
Retrofit bathroom aerator produces a lifetime reduction of:	495 kWh

Installation / participation rate of:	30% ³
Number of Participants	27 ³

Total reduction from bathroom aerator retrofit:

Annual:	23,282 gallons
	94 therms
	802 kWh
Lifetime:	116,412 gallons
	468 therms
	4,008 kWh

² Provided by manufacturer.

³ Data reported by program participants.

⁵(2010, June 14). Retrieved June 14, 2010, from U.S. Census Bureau State and County Quick Facts Web site: <http://quickfacts.census.gov/qfd/states/06/06071.html>

⁶(2001). In Southern California Edison Evaluation of 2000-2001 School Programs Ridge & Associates.

Home Survey and Retrofit Data

Section I - Home Check-up

1 What type of home do you live in?

Single family home	72%
Multi-family (2-4 units)	11%
Multi-family (5-20 units)	11%
Multi-family (21+ units)	6%

2 Was your home built before 1992?

Yes	38%
No	63%

3 Is your home owned or rented?

Owned	56%
Rented	44%

4 How many kids live in your home (age 0-17)?

1	22%
2	44%
3	17%
4	0%
5+	17%

5 How many adults live in your home (age 18+)?

1	17%
2	39%
3	6%
4	22%
5+	17%

6 Does your home have an automatic sprinkler system?

Yes	18%
No	82%

7 Does your home have a dishwasher?

Yes	56%
No	44%

8 How many half-bathrooms are in your home?

0	83%
1	17%
2	0%
3	0%
4+	0%



9 How many full bathrooms are in your home?

1	33%
2	61%
3	0%
4	6%
5+	0%

10 How many toilets are in your home?

1	28%
2	56%
3	11%
4	6%
5+	0%

11 How is your water heated?

Natural Gas	69%
Electricity	31%

Section II - Home Activities

1 Did you install the new High-Efficiency Showerhead?

Yes	30%
No	70%

2 What is the flow rate of your old showerhead?

0 - 1.0 gpm	33%
1.1 - 1.5 gpm	11%
1.6 - 2.0 gpm	0%
2.1 - 2.5 gpm	44%
2.6 - 3.0 gpm	11%
3.1+ gpm	0%

3 What is the flow rate of your new showerhead?

0 - 1.0 gpm	44%
1.1 - 1.5 gpm	44%
1.6 - 2.0 gpm	11%

4 Was your toilet leaking?

Yes	23%
No	77%

5 Did your family install the Bathroom Aerator?

Yes	30%
No	70%

6 What is the flow rate of your old bathroom faucet?

0 - 1.0 gpm	11%
1.1 - 1.5 gpm	22%
1.6 - 2.0 gpm	22%
2.1 - 2.5 gpm	11%
2.6 - 3.0 gpm	22%
3.1+ gpm	11%

7 Did your family install the Kitchen Aerator?

Yes	44%
No	56%



8 What is the flow rate of your old kitchen faucet?	0 - 1.0 gpm	10%
	1.1 - 1.5 gpm	40%
	1.6 - 2.0 gpm	20%
	2.1 - 2.5 gpm	10%
	2.6 - 3.0 gpm	20%
	3.1+ gpm	0%
	9 How many faucets are leaking?	Yes
	No	33%
10 Did you work with your family on this Program?	Yes	52%
	No	48%
11 Did your family change the way they use water outdoors?	Yes	28%
	No	72%
12 Did your family change the way they use water?	Yes	62%
	No	38%
13 How would you rate the WaterWise™ program?	Great	54%
	Pretty good	35%
	Okay	8%
	Not so good	4%



RESOURCE ACTION PROGRAMS®
976 United Circle Sparks, NV 89431
888-GET-WISE • www.resourceactionprograms.org

Completed Water Use Surveys



Morongo Basin Humane Society Shelter Water Use Survey

December 30, 2010

Prepared for Joshua Basin Water District

by Deborah Bollinger, CID, CLIA
Bollinger Consulting Group
PO Box 3204
Palm Springs, CA 92263

I. Executive Summary

On November 23 and December 2, 2010 a Water Use Survey was performed by Deborah Bollinger through Joshua Basin Water District's water conservation program. We inspected all indoor and outdoor areas to collect water use data and identify areas of potential water savings.

Based on our water use analysis, The Morongo Basin Humane Society Shelter will use an estimated 711 CCFs (531,828 gallons) of water this year, or an average of 59 CCFs per month. Water use has increased 173% since 2007, the first complete year reviewed. The purpose of the Survey was to identify cost effective measures to reduce water use. We found that generally the Shelter is using water efficiently. Fixtures and processes for laundry, indoor/evaporative cooling, manual dishwashing, and an outdoor cooling/mist system are water efficient, however we did find three water saving measures to recommend as described below:

- **Indoor Water Use.** We identified a total potential water savings of 303.2 CCF units (226,765 gallons). Description:

The total initial cost for implementing the recommendations for the indoor water uses is \$593.00. The estimated annual cost savings in water savings is \$706.40. The simple payback is 0.8 years.

- **Outdoor Water Use.** We identified no potential outdoor water savings, since the few trees are irrigated manually.

Summary Table of All Recommended Water Efficiency Measures

Water Efficiency Measure	Initial Cost (\$)	Water Savings (gal/yr)	Water Savings (CCF/yr)	Annual Savings ¹ (\$)	Simple Payback (years)
Indoor Water Efficiency Recommendations					
21" Water Miser Broom	298.00	182883	244.5	569.68	.5
High Efficiency Toilet (installed)	292.00	41496	55.5	129.3	2.3
Low Flow Faucet Aerator	3.00	1989	2.7	6.29	0.4
Outdoor Water Efficiency Recommendations					
None					
Efficiency Measures Totals:	\$593.00	226765	303.2	\$706.40	0.8
1) Cost savings for water, no rebates applied, based on 2010 rate of \$2.33 per unit.					

Water Efficiency Recommendation:

Watermiser Waterbroom

During our inspection we found that one of the largest water users was daily hose-down of the concrete kennel floors. Current practice is to use a garden hose applying 9.1 gallons per minute (GPM) as a final step of the kennel cleaning process. Hose down time was estimated at 90 minutes per day for a total estimated water use of 819 gallons per day, 365 days per year. An alternative cleaning process using a low pressure water broom uses a maximum of 4.86 GPM. We recommend the replacement of the traditional hose down process with the high efficiency water broom cleaning process.

The cost analysis below shows the water savings potential of a single 21" Watermiser Waterbroom. In addition to water savings, a labor savings of 50% to 75% has been reported by institutional water users (see Appendix).



Cost Analysis: Watermiser Waterbroom	
Estimated Annual Water Savings	245 CCF
Estimated Annual Cost Savings	\$568
Estimated Cost of Device	\$298
Simple Payback	0.5 years

Water Efficiency Recommendation:

High Efficiency Toilet

During our inspection we found that the single toilet used by employees and visitors to the shelter was a 1970 tank-type toilet using 3.5 gallons per flush. Newer high efficiency toilets (HET) use approximately one half the water or 1.6 gallons per flush. We recommend replacing the existing toilet with an EPA WaterSense rated HET toilet.

The cost analysis below shows the water savings potential for sanitary water use. The estimated cost includes labor for installation.



Cost Analysis: High Efficiency Toilet	
Estimated Annual Water Savings	55.5 CCF
Estimated Annual Cost Savings	\$129
Estimated Cost of Device	\$292
Simple Payback	2.3 years

Water Efficiency Recommendation:

Low Flow Bathroom Faucet Aerator

During our inspection we found that the single bathroom faucet used by employees and visitors to the shelter has a flow of 5 gallons per minute (GPM). Current plumbing standards for public restrooms limit flow to one-tenth that amount, or 0.5 GPM. We recommend replacement of the existing bathroom faucet aerator with a new higher efficiency aerator.

The cost analysis below shows the water savings potential for bathroom faucet water use. The estimated cost includes material only, though we note that the devices are simple to install. Tamperproof models come with a key and retail for \$4.00.



Cost Analysis: Low Flow Faucet Aerator	
Estimated Annual Water Savings	3.2 CCF
Estimated Annual Cost Savings	\$7.40
Estimated Cost of Device	\$3
Simple Payback	0.3 years



Tamperproof 0.5 GPM Aerator with Key

Appendix

Water Use History

Watermiser Waterbroom Data

BMP 3 Water Audit

AWWA Water Loss Control Committee (WLCC) Free Water Audit Software v4.1

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WAS v4.1

PURPOSE: This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format, and is not meant to take the place of a full-scale, comprehensive water audit format.

USE: The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons on the left below. Descriptions of each sheet are also given below.

THE FOLLOWING KEY APPLIES THROUGHOUT:

- Value can be entered by user
- Value calculated based on input data
- These cells contain recommended default values

Please begin by providing the following information, then proceed through each sheet in the workbook:

NAME OF CITY OR UTILITY: COUNTRY:

REPORTING YEAR: START DATE(MM/YYYY): END DATE(MM/YYYY):

NAME OF CONTACT PERSON: E-MAIL: TELEPHONE:
Ext.

PLEASE SELECT PREFERRED REPORTING UNITS FOR WATER VOLUME:

Click to advance to sheet...

Click here: For help about units and conversions

Instructions	The current sheet
Reporting Worksheet	Enter the required data on this worksheet to calculate the water balance
Water Balance	The values entered in the Reporting Worksheet are used to populate the water balance
Grading Matrix	Depending on the confidence of audit inputs, a grading is assigned to the audit score
Service Connections	Diagrams depicting possible customer service connection configurations
Definitions	Use this sheet to understand terms used in the audit process
Loss Control Planning	Use this sheet to interpret the results of the audit validity score and performance indicators

Comments:

Add comments here to track additional supporting information, sources or names of participants

If you have questions or comments regarding the software please contact us at: wlc@awwa.org

AWWA WLCC Free Water Audit Software: Reporting Worksheet

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WAS v4.1

[Back to Instructions](#)

[?](#) Click to access definition

Water Audit Report for: **Joshua Basin Water District**
 Reporting Year: **2009** 1/2009 - 12/2009

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: ACRE-FEET PER YEAR

WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:	<input type="text" value="5"/>	<input type="text" value="1,690.460"/>	acre-ft/yr
Master meter error adjustment (enter positive value):	<input type="text" value="5"/>	<input type="text" value="84.523"/>	under-registered acre-ft/yr
Water imported:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
WATER SUPPLIED:		<input type="text" value="1,774.983"/>	acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="text" value="3"/>	<input type="text" value="1,475.000"/>	acre-ft/yr
Billed unmetered:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="text" value="8"/>	<input type="text" value="0.001"/>	acre-ft/yr
Unbilled unmetered:	<input type="text" value="5"/>	<input type="text" value="22.187"/>	acre-ft/yr
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed			
AUTHORIZED CONSUMPTION:		<input type="text" value="1,497.188"/>	acre-ft/yr

Click here: [?](#) for help using option buttons below

Pcnt: Value:

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

acre-ft/yr

Apparent Losses

Unauthorized consumption:	<input type="text" value="5"/>	<input type="text" value="4.437"/>	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed			
Customer metering inaccuracies:	<input type="text" value="8"/>	<input type="text" value="0.000"/>	acre-ft/yr
Systematic data handling errors:	<input type="text" value="8"/>	<input type="text" value="5.000"/>	acre-ft/yr
Apparent Losses:		<input type="text" value="9.437"/>	

Pcnt: Value:

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	<input type="text" value="5"/>	<input type="text" value="268.357"/>	acre-ft/yr
WATER LOSSES:		<input type="text" value="277.795"/>	acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: acre-ft/yr

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="text" value="3"/>	<input type="text" value="247.0"/>	miles
Number of active AND inactive service connections:	<input type="text" value="7"/>	<input type="text" value="4,426"/>	
Connection density:		<input type="text" value="18"/>	conn./mile main
Average length of customer service line:	<input type="text" value="10"/>	<input type="text" value="66.0"/>	ft (pipe length between curbstop and customer meter or property boundary)
Average operating pressure:	<input type="text" value="5"/>	<input type="text" value="90.0"/>	psi

COST DATA

Total annual cost of operating water system:	<input type="text" value="8"/>	<input type="text" value="\$5,063,879"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text" value="8"/>	<input type="text" value="\$2.19"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="text" value="8"/>	<input type="text" value="\$607.85"/>	\$/acre-ft/yr

PERFORMANCE INDICATORS

Financial Indicators

Non-revenue water as percent by volume of Water Supplied:	<input type="text" value="16.9%"/>
Non-revenue water as percent by cost of operating system:	<input type="text" value="3.7%"/>
Annual cost of Apparent Losses:	<input type="text" value="\$9,003"/>
Annual cost of Real Losses:	<input type="text" value="\$163,121"/>

Operational Efficiency Indicators

Apparent Losses per service connection per day:	<input type="text" value="1.90"/>	gallons/connection/day
Real Losses per service connection per day*:	<input type="text" value="N/A"/>	gallons/connection/day
Real Losses per length of main per day*:	<input type="text" value="969.93"/>	gallons/mile/day
Real Losses per service connection per day per psi pressure:	<input type="text" value="79.34"/>	gallons/connection/day/psi
<input type="text" value="5"/> Unavoidable Annual Real Losses (UARL):	<input type="text" value="79.34"/>	million gallons/year
From Above, Real Losses = Current Annual Real Losses (CARL):	<input type="text" value="268.36"/>	million gallons/year
<input type="text" value="5"/> Infrastructure Leakage Index (ILI) [CARL/UARL]:	<input type="text" value="1.10"/>	

* only the most applicable of these two indicators will be calculated

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 62 out of 100 *****

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

- 1: Volume from own sources
- 2: Billed metered
- 3: Master meter error adjustment

[For more information, click here to see the Grading Matrix worksheet](#)

AWAC Rebates

Phase I totals below include all completed applications from February 1, 2008 to December 31, 2010. If there are others in your organization that would like a copy, please feel free to forward this email or have them contact me with questions. Thank you,

Tamara Alaniz
 Water Conservation Program Manager
 Mojave Water Agency
 (760) 946-7038
talaniz@mojavewater.org

Applications Processed	Cash 4 Grass				High Efficiency Toilet Vouchers			High Efficiency Toilet Rebates				High Efficiency Clothes Washer Rebates		
	# of Rebates	Sq.Ft. Removed	Actual \$	Water Savings AFY	Vouchers Redeemed	Actual \$\$	Water Savings AFY	# of Rebates	# HETs Replaced	Actual \$	Water Savings AFY	# of Rebates	Actual \$	Water Savings AFY
ADL - Adelanto, city of	139	231,621.99	115,811.00	39.1	422	63491.7	16.31	8	12	\$1,605.18	0.46	66	\$11,550.00	1.20
AVF - Apple Valley Foothill	0	0	0	0.00	3	495	0.12	1	2	176	0.08	0	\$0.00	0.00
GSWA - Apple Valley, city of	2	1,851.00	925.5	0.31	155	27571.19	5.99	26	36	5549.13	1.39	49	\$9,810.00	0.89
AVR - AV Ranchos WC	803	1,373,533.63	686,766.82	231.84	699	109245.94	27.02	185	283	43470.78	10.94	307	\$53,725.00	5.58
BDM - Bar-H Mutual WC	0	0	0	0.00	6	815.92	0.23	1	2	212	0.08	0	\$0.00	0.00
GSWB - Barstow, city of	39	60,401.00	30,200.50	10.20	716	119656.54	27.68	31	42	5752.2	1.62	113	\$22,600.00	2.06
BDV - Bighorn Desert View WA	0	0	0	0.00	1	165	0.04	15	19	2401.1	0.73	25	\$4,375.00	0.45
HCSD - Helendale CSD	227	417,063.78	208,531.89	70.4	121	18473.79	4.68	122	193	27616.28	7.46	79	\$13,825.00	1.44
COH - Hesperia, city of	176	348,693.00	174,346.50	58.86	1094	180851.03	42.29	95	147	20947.01	5.68	251	\$43,925.00	4.57
HDW - Hi-Desert WD	17	14,174.00	7,087.00	2.39	94	15366.93	3.63	100	149	17978.66	5.76	350	\$61,250.00	6.37
JBW - Joshua Basin WD	0	0	0	0.00	93	14891.75	3.60	53	69	8716.29	2.67	131	\$22,925.00	2.38

Appendix F

JBWD Board Resolution No. 00-618

RESOLUTION NO. 00-618

A RESOLUTION OF THE
BOARD OF DIRECTORS OF THE JOSHUA BASIN
WATER DISTRICT TO ENHANCE WATER CONSERVATION MEASURES.

WHEREAS, the Joshua Basin Water District is in a mild state of overdraft and water is continuing to be depleted at a rate faster than natural recharge is taking place; and

WHEREAS, the continued rate of growth will speed up the depletion of the Joshua Tree Basin; and

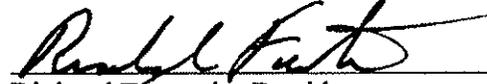
NOW, THEREFORE, for the purpose of enhancing our water conservation measures the Board of Directors of Joshua Basin Water District does hereby declare the following programs will be implemented in 2001 as follows:

1. Certain water conserving plumbing fixtures designed to reduce water use have been thoroughly tested with adequate national standards applied and shall be made available through the Joshua Basin Water District at cost to District residential customers.
2. The Joshua Basin Water District shall initiate a Water Survey Program for single-family residential and multifamily residential customer and shall involve, at minimum, an annual survey of residential customers in order to obtain end-user data that will facilitate water conservation planning by the District. That survey shall take the form of an insert in a regular water bill shall also provide water conservation tips for customers, and District news regarding residential retrofit to encourage water savings, etc.
3. For all new commercial and residential development and/or remodel of existing buildings subject to a building permit, the District shall require the installation of low-water use plumbing fixtures. This includes the opportunity to participate in a high-efficiency washing machine rebate program at such time as a program of this type would be cost effective for the District.

ADOPTED this 20th day of December, 2000

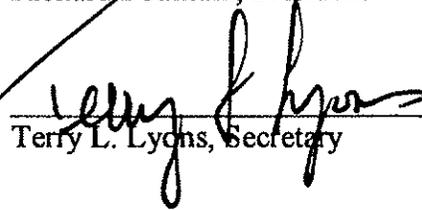
JOSHUA BASIN WATER DISTRICT

By


Richard Fountain, President

SEAL

Attest


Terry L. Lyons, Secretary

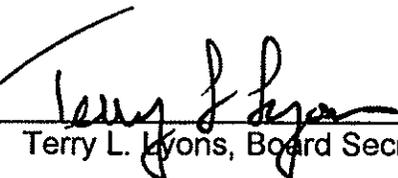
CERTIFICATION

State of California)
) **s.s.**
County of San Bernardino)

I, Secretary of the Board of Directors of the Joshua Basin Water District, DO HEREBY CERTIFY the foregoing Resolution No. 00-618 was duly adopted by the Board of said District at a Regular Meeting thereof held the 20th day of December, 2000, a quorum present and action throughout, by the following vote to wit:

AYES: Directors John Boyd, Richard Fountain,
 Gary Given, Michael McCourt, Earl Wilbert

NOES: None

By 
Terry L. Lyons, Board Secretary

Appendix G

JBWD's Rate Structure Resolution 07-806

RESOLUTION 07-806

A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE JOSHUA BASIN WATER DISTRICT
AMENDING RESOLUTION 04-665 REGARDING
RATES AND CHARGES FOR WATER SERVICE

WHEREAS, the Board of Directors of the Joshua Basin Water District contracted for a water rate and fee study, which included a comprehensive review of the District's budget, Water Master Plan, customer usage data, anticipated growth of the District and capital improvements; and

WHEREAS, the Board of Directors of the Joshua Basin Water District has adopted a two year budget to meet anticipated expenses, including long-term debts and funding of capital replacement and expansion for fiscal years 2006/2007 through 2007/2008; and

WHEREAS, California State Law mandates that the Board of Directors set revenues to meet the District's anticipated expenses; and

WHEREAS, written notice in the form attached to this Resolution marked Exhibit "A" of today's public hearing to consider proposed rate increases was mailed to the owner of record for each water account and was properly noticed in accordance with Government Code Section 6066 and such public hearing was subsequently held to review the proposed water rate increases.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Joshua Basin Water District, acting pursuant to Section 31007 of the California Water Code, hereby amends Rules and Regulations Article 13.5 Monthly Basic Service Fee, 13.6 Monthly Water Flow Charges, and 13.10 Cost and Charges for Private Fire Protection, and adopts the rates and charges as follows.

Article 13.5. Basic Fee. The basic monthly fee for availability of water service, which includes no water used, is as follows:

Meter Size	Capacity (gpm)	Rates as of 1/11/07	Rates as of 1/1/08	Rates as of 1/1/09	Rates as of 1/1/10
3/4"	30	\$20.00	\$21.20	\$22.47	23.82
1"	50	33.30	35.30	37.50	39.70
1-1/2"	100	66.70	70.70	74.90	79.40
2"	160	106.70	113.10	119.80	127.00
3"	300	200.00	212.00	224.70	238.20

The Basic Fee will apply to all installed meter services, without exception. Previous exceptions for Pulled, Inactive or Vacation Status meters no longer applies. The imposition of the Basic Fee to previously excluded meters shall first be imposed in the May, 2007 bill. Subsequent annual increases shall be imposed in the February billing of the applicable year, ending with the final increase in February 2010.

Article 13.6. Monthly Water Flow Charges. Water passing through the meter shall be sold at the following cumulative rates, per unit (one hundred cubic feet, 748 gallons):

For ¾" and 1" Meters:

Consumption (unit)	Rates as of 1/11/07	Rates as of 1/1/08	Rates as of 1/1/09	Rates as of 1/1/10
0-5 unit	\$1.80	\$1.91	\$2.02	\$2.14
5.01 – 20 units	2.00	2.12	2.25	2.39
20.01 – 40 units	2.10	2.25	2.41	2.57
40.01 + units	2.15	2.35	2.55	2.75

For 1-1/1", 2" and 3" Meters:

Consumption (unit)	Rate as of 1/11/07	Rate as of 1/1/08	Rate as of 1/1/09	Rate as of 1/1/10
All Usage	\$2.00	\$2.12	\$2.25	\$2.39

Article 13.10. Cost and Charges for Private Fire Protection. Installation cost will be the actual cost plus fifteen percent (15%) to cover administrative and overhead cost.

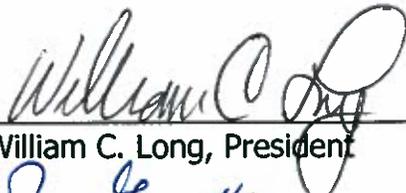
Monthly Service Charge:

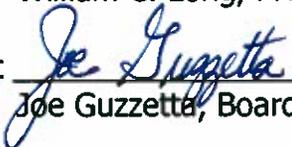
Device Size	Rates as of 1/11/07	Rates as of 1/1/08	Rates as of 1/1/09	Rates as of 1/1/10
2"	\$10.60	\$11.24	\$11.91	\$12.62
3"	21.20	22.47	23.82	25.25
4"	42.40	44.94	47.64	50.50
6"	63.60	67.42	71.47	75.76
8"	95.40	101.12	107.19	113.62

RESOLVED FURTHER that Article 13.7, Ready Serve Charge is rescinded.

RESOLVED FURTHER that said increases (with the exclusion of Article 13.5 exceptions above) shall first be imposed in the February 2007 billing. Subsequent annual increases as noted above shall be imposed in the February billing of the applicable year, ending with the final increase effective in February 2010.

ADOPTED this 10th day of January 2007.

By 
William C. Long, President

Attest 
Joe Guzzetta, Board Secretary

Appendix H

Water Shortage Contingency Plan

**JOSHUA BASIN WATER DISTRICT
WATER SHORTAGE CONTINGENCIES
CUSTOMER ALLOTMENTS AND APPEALS PROCEDURE (1)**

The following is the Joshua Basin Water District's (District) rationing allocation method (arranged by customer type and stage) and appeals procedure. It should be noted that the allotment figures indicated in Stages 3 and 4 are given in terms of hundred cubic feet (ccf), which is the standard measurement for water deliveries and is indicated on the District's water bills and water meters; 1 ccf is equivalent to 748 gallons of water. The minimum water allotment for residential customers is based on a minimum quantity that is required for health and safety needs (e.g. drinking, personal hygiene); the District has established said minimum quantity as 68 gallons per capita per day (gpcd).

Stage 1: Minimal shortage (25 to 40 percent)

Stage 2: Moderate shortage (40 to 50 percent)

In the event that a minimal or moderate water shortage occurs, the District will implement the voluntary measures outlined below.

1. All customers will be notified of the water shortage.
2. Information will be mailed to every customer which will explain the importance of significant water use reductions.
3. Technical information will be provided to the District's customers regarding methods for improving water use efficiency.
4. The District will conduct media campaign to remind consumers of the need to save water.
5. The District will publicize and expand appliances and fixtures efficiency programs.

Stage 3: Severe shortage (50 to 60 percent)

Stage 4: Critical shortage (60+ percent)

In the event that a severe or critical water shortage occurs, the District will establish mandatory annual allotments for each connection based on average use during a three-year base period that will supplement the voluntary measures outlined above; said base period will be selected by the Water Shortage Response Team.

1. Each single-family residential connection will receive no more than 103 ccf per year (68 gpcd minimum water requirement x 3.1 persons per household x 365 days = 76,942 gallons - 748 = 103 ccf) plus 20% of average annual usage in excess of 103 ccf.
2. Each multi-family residential connection will receive no more than 76 ccf per year (68 gpcd minimum water requirement x 2.3 persons per dwelling unit x 365 days = 57,086 gallons - 748 = 76 ccf) per dwelling unit plus 20% of average annual usage in excess of 76 ccf.
3. Each commercial, industrial, and governmental connection will receive no more than 70% of average annual usage.
4. Each landscaping connection will receive 20% of average annual usage, unless the specific account has been determined by District staff to meet the District's guidelines for xeriscape design, irrigation, and maintenance, in which case it will receive 70% of average annual usage.
5. No meters will be installed for new accounts during the declared water shortage emergency.

Appeals Procedure

1. Any person who wishes to appeal their customer classification or allotment must do so in writing, using forms provided by the District.
2. Appeals will be reviewed by the Water Shortage Response Team; site visits will be scheduled if required.
3. One of the conditions of approval will be that all applicable plumbing fixtures or irrigation systems be replaced or modified for maximum water conservation.
4. Increased allotments may be approved for the following:
 - a. Substantial medical requirements.
 - b. Residential connections with four or more residents in a single-family household, or three or more residents per unit in a multi-family residence. These connections can receive additional allotments based upon the same calculations used for the standards applied in Stages 3 and 4 per additional person. During a Stage 4 shortage, a census may be conducted to determine the actual number of residents per dwelling unit. Additional water will be approved for permanent residents only; permanent residents are defined as people who live in the specific residence a minimum of five days per week, nine months per year.
 - c. Commercial/Industrial customers for which water supply reductions will result in unemployment or decreased production; a District water auditor must first confirm that the customer has instituted all applicable water efficiency improvements.
 - d. Non-agricultural customers can appeal for an additional allotment 12 ccf per year per horse, cow, or other large animal, and 6 ccf per year for each efficiently irrigated mature fruit tree.

- e. Government agencies (parks, schools, county, etc.) may have separate account allotments combined into one "agency" allotment.

5. In the event that an appeal for an additional allotment is requested for irrigation of trees or vegetation in residential categories or for any agricultural use, District staff may use the services of a qualified consultant in determining the validity of the request.

6. The Water Shortage Response Team will approve or deny appeals and report all appeals to the District's Board of Directors monthly.

7. If the Water Shortage Response Team and the applicant are unable to reach agreement, the appeal will then be heard by the District's General Manager, who will make the final determination.

8. All appeals will be reported monthly to the District's Board of Directors as a part of the Water Supply Report.