

Water Conservation Measures

Anderson-Cottonwood Irrigation District Main Canal Lining Project

As discussed earlier in this proposal, Anderson-Cottonwood Irrigation District diverts water from the Sacramento River and its tributaries in accordance with an Agreement with the United States Department of Interior, Bureau of Reclamation. The Agreement provides for the diversion of such water from storage released at Keswick Dam in Redding, and for a curtailment of the contract supply of up to 25% under specific hydrologic conditions.

When the projected Water Year inflow into Lake Shasta is 3.2 million acre feet or less, the District's contract supply may be reduced by 25%. In 2014 the projected unimpaired inflow to Lake Shasta is below this threshold, and as such the District's supply was reduced to 75% of the contract supply. Attached is the allocation notice, dated April 18, 2014 from the Bureau of Reclamation that establishes the 25% curtailment.

This curtailment of supply constitutes a mandatory water conservation measure that has been passed on to District water users. District diversions and on-farm deliveries have been reduced in compliance with the curtailment.

In its Agreement with the United States, Anderson-Cottonwood Irrigation District may divert water between April 1 and October 31 each year, and its contract supply is also subject to monthly allocations. The monthly allocations are such that normal irrigation demands in April and May exceed the monthly contract supply for those months, and the District is allowed to re-schedule water from later months into April and May to make up for these allocation shortfalls. With full supply, these re-scheduling activities do not impact on-farm deliveries to any significant degree. However, the 25% curtailment to the overall and monthly allocations in 2014 has resulted in rescheduling almost all of the water available for diversion in October to April and May, and it is clear that the September allocation will be inadequate to provide water through that month, resulting in early termination of service sometime in late September.

If drought or dry year conditions persist into 2015 there will likely be a significantly greater curtailment to the District's water supply. While the Agreement with the United States provides for a maximum curtailment to supply of 25%, the District received a notice dated February 15, 2014 that reduced its available supply by 60%, to 40% of its contract supply (attached).

This action made clear that despite its Agreement with the United States the District is subject to more severe curtailment of its right to divert than is provided in the contract. Subsequent to the February notice, hydrologic conditions improved such that Reclamation reduced the curtailment from 60% to 25%. However, if dry or drought conditions persist into 2015 it is fully expected that Reclamation, in concert with the State Water Resources Board, will impose curtailment of the District's water supply in excess of the 25% provided in the Agreement. Any curtailment to the District's supply will be passed on to its users as a mandatory water conservation measure.

City of Live Oak Water Supply Reliability Well

No mandatory water conservation measures have yet been imposed, because of proactive and voluntary measures that have successfully kept water demand within an achievable range. In May, the City Council declared a “local emergency and the imminent threat of disaster because of drought conditions” and in the same proclamation encouraged voluntary water conservation. The City also has begun adding information on water bills to inform customers about the drought and provide tips on how to conserve water. Furthermore, water demand has dropped City-wide ever since water meters were installed at all connections within the City’s service area between the summer of 2005 and 2006. Between 2005 and 2006 the City’s annual water production decreased from 535.7 million gallons to 488.0 million gallons and in subsequent years has decreased even more. Installation of water meters is a proactive measure that the City took several years ago to prepare for years like 2014 when water supply would be more challenging to provide. If dry or drought conditions persist into 2015, the City will consider imposing measures such as restricted outdoor irrigation days and will impose a voluntary request for 10-20% conservation.

City of Shasta Lake Water Supply Reliability Project

With California facing water shortfalls in the driest year in recorded state history, Governor Brown proclaimed a State of Emergency on January 17th, 2014, and directed state and local officials to take all necessary actions to prepare for these drought conditions. State agencies, led by the Department of Water Resources, executed a statewide water conservation campaign to make all Californians aware of the drought and encourage personal actions to reduce water usage. This campaign calls on Californians to reduce their water usage by 20%.

The City of Shasta Lake immediately went into action and coordinated a City Ad Hoc Committee to develop Water Conservation Measures for the City and the Citizens of Shasta Lake. In addition to Governor Browns State of Emergency, on of February 21, 2014, the Bureau of Reclamation announced a water supply allocation cutback of 50 percent for the City of Shasta Lake. This 50 percent cutback is based on the historical average of the City's last three years of water deliveries, or 2,641 acre feet.

The City's Water Supply Ad Hoc Committee met on February 6th, 10th and 25th to discuss how best to deal with the current drought conditions. Several items were discussed including:

- Avoid purchasing supplemental water supplies by mandating water rationing and conservation efforts.
- Require citizens to fallow lawns and other landscaping features.
- Poll water users citywide through direct mail or by utilizing the city's website and then analyze the results.
- Restructure the water rate tiers to encourage water conservation.
- Address long-term drought solutions to streamline emergency purchasing and water management.
- Purchase supplemental water supplies and implement an excess water usage penalty to help offset unforeseen costs.
- Implement the City's water shortage ordinance by resolution and enact certain provisions.

As a result of the ad hoc committee discussions and Council action, the following measures were implemented:

1. Implement the City's water shortage ordinance by resolution and enact the provisions detailed in, Attachment 1 Resolution 14-12.
2. Purchase and installation of "Every Drop Counts" Water Conservation signs through the City, see Attachment 2.
3. Shut off all water fountains.
4. Minimum watering on public facilities including parks, baseball fields, public buildings.
5. Purchase and Distribute FREE water conservation kits (See Attachment 3) to all households in the City Limits of Shasta Lake, this includes outdoor water savings kit consisting of a moisture meter, water timer, garden hose repair kit, spray nozzle, and sprinkler gauge. In addition to the outdoor savings kit, customers were provided an indoor kit consisting of new water efficient shower heads, efficient faucet heads, and shower timer.
6. Purchase supplemental water supplies and implement an excess water usage penalty to help offset unforeseen costs.
7. Personal phone calls and letters to all largest water users to notify them of excess water penalty and encourage water conservation measures, and provided educational materials on how to conserve.
8. Every water customer was provided a water conservation flyer.
9. Partnered with Caltrans to extend the existing Reclaimed water line, by replacing potable water along I-5 with reclaimed water provided by the City of Shasta Lake.

The City of Shasta Lake is pleased to report since the implementation of the City's Emergency Water Conservation Ordinance from March 2014 through June 2014 we have seen a 21% residential water savings in our community since the same time last year. We will continue to implement these measures even in non-drought years to encourage water conservation annually.

WATER CONSERVATION MEASURES

RIO ALTO WATER DISTRICT WASTEWATER IMPROVEMENTS AND CONSTRUCTED WETLANDS PROJECT.

The Rio Alto Water District (District) is not an urban water supplier, as it services only 1,259 customers. There are no mandatory water conservation measures that have been implemented, however, the following measures have been implemented as of a result of the 2014 Drought and for the benefit of the long term water management of the region:

- ✓ The District has requested voluntary water conservation measures of at least 20% from their residents through public outreach, community newsletters, public meetings and participation in the ACWA Save Our H2O program and their partnership with National Geographic.
- ✓ The District provides conservation literature to assist and educate its customers on efficient water usage.
- ✓ All water is metered in the community.
- ✓ The District implemented a tiered rate structure in response to drought conditions of 2008.
- ✓ Customers are asked to report water misuse to the District.
- ✓ District staff alert customers to high usage and assist with leak detection when possible.
- ✓ To set an example for the community, the District office landscape was recently redesigned to a water-wise landscape.

Should the drought continue, and the aquifer monitoring report sufficient draw downs, the District Governing Board is prepared to enforce mandatory water conservation.



United States Department of the Interior

BUREAU OF RECLAMATION
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, CA 95825-1898

IN REPLY REFER TO:

APR 18 2014

MP-400
WTR-4.03

Mr. Stan Wangberg
2810 Silver Street
Anderson, California 96007-4238

Subject: Update to 2014 Notice of Water Supply Conditions and Availability, Critical Year
Water Supply, Central Valley Project (CVP), California, Water Year (WY) 2014

Dear Mr. Stan Wangberg,

This letter is a follow up to our February 15, 2014 letter, wherein the Bureau of Reclamation forecasted that it could only make available 40% of your Contract total due to drought and extreme hydrology in WY 2014. In that letter, we committed to provide status reports of the hydrology and updates on our operations.

The Central Valley has experienced improved hydrology since the February 15 letter, but the drought and poor hydrologic conditions continue. Based upon Reclamation's analysis of the most recent runoff forecasts, Reclamation has determined that the full natural inflow into Lake Shasta for the current water year remains well below 3.2 million acre-feet (MAF). Generally, when the natural inflow is below 3.2 MAF, your Contract total is reduced by 25% for WY 2014 water year.

However, the continued drought and unique hydrology has made meeting that diversion difficult and has forced Reclamation and the Sacramento River Settlement (SRS) contractors to explore creative solutions. In this regard, Reclamation's latest modeling, based on more recent run-off forecasts, supports provision of a 75% Contract supply, but only if the SRS contractors defer diversions of Base Supply in April and May 2014, to later in the water year.

If you immediately cease and defer a significant portion of diversions under your Contract in April and May 2014, for this water year and this year only, Reclamation will allow rescheduling of that amount of Base Supply not diverted in April and May, 2014 into the critical months defined in the contract. Reclamation will also, for this year and this year only, waive any charges for rescheduling Base Supply from April and May, 2014, into the critical months. Furthermore, for this year and this year only, Reclamation will waive the requirements of Article 8(a)(1) of your Contract, and you will only be charged for the quantity of Project Water that you actually divert this water year.

In support of this rescheduling plan please submit a diversion schedule to Reclamation, that is consistent with your Contract and the terms of this letter. Please be aware that any rescheduling must be consistent with Reclamation's modeling and forecasts that support the rescheduled diversions. We will promptly review your schedule and advise you of any need to adjust it. Absent this rescheduling of your Base Supply, due to the continued drought and hydrologic conditions this water year, Reclamation cannot guarantee that conditions will allow for the diversion of 75% of your Contract total.

Please continue to implement all required contingency plans and water conservation measures within your water service areas. We look forward to working with you over the next few weeks to finalize modified scheduling for the 2014 Water Year, and ask that you work through Mr. Rich Robertson at 530-934-1383 or rrobertson@usbr.gov.

Sincerely,

A handwritten signature in cursive script that reads "David G. Murillo". The signature is written in dark ink and is positioned above the printed name and title.

David G. Murillo
Regional Director



United States Department of the Interior

BUREAU OF RECLAMATION

Northern California Area Office
16349 Shasta Dam Boulevard
Shasta Lake, California 96019-8400

IN REPLY REFER TO:

February 15, 2014

NC-100
WTR-4.00

Mr. Stan Wangberg
Anderson-Cottonwood Irrigation District
2810 Silver Street
Anderson, California 96007-4238

Subject: 2014 Notice of Water Supply Conditions and Availability, Critical Year Water Supply Reduction, Anderson-Cottonwood Irrigation District, Contract No. 14-06-200-3346A-R-1, Central Valley Project (CVP), California, Water Year 2014

Dear Mr. Wangberg:

Stan-

Current water supply conditions throughout the state of California are uncharacteristically dry, with a very low probability of full recovery to normal conditions this water year. This is evidenced by the declaration of a Drought State of Emergency announced by Governor Edmund G. Brown Jr. on January 17, 2014, and the zero (0) percent allocation announcement by the California Department of Water Resources (DWR) made on January 31, 2014, for all of its 29 public water agencies serviced by the State Water Project.

The State is entering the third consecutive year of below average precipitation and snowmelt runoff. The year 2013 proved to be one of the driest years on record for many areas of California, and 2014 is one of the driest to date. Many of the State and Federal natural resource agencies are implementing unprecedented measures in response to this severe drought condition. It is imperative that management of the record low-storage levels is carried out in a manner that maximizes conservation throughout the year.

The following is just a snapshot of the actions the Bureau of Reclamation has taken in response to the 2013-2014 drought:

- On December 31, 2013, created a Reclamation drought team to track and address all water resource areas affected by the drought and to timely communicate status to the public.
- On January 29, 2014, filed a joint petition with DWR to the California State Water Resources Control Board (SWRCB) requesting a Temporary Urgency Change in License and Permit Terms.
- On or about January 29, 2014, sent letters to all CVP Municipal and Industrial users requesting updated information for purposes of calculating unmet public health and safety water demands.
- On February 4, 2014, Reclamation released the 2014 Water Plan which identifies specific measures that are being undertaken in response to the current drought conditions.
- Convened weekly meetings with DWR to identify all opportunities for facilitating water transfers and exchanges between the State and Federal water projects.

- Partnered with the Natural Resource Conservation Service to secure Federal funding for water districts to conserve water and improve water management.

Pursuant to Contract No. 14-06-200-3346A-R-1, Reclamation is required to provide notification of a Critical Year as defined in the contract. As of February 1, 2014, the full natural inflow to Shasta Reservoir was approximately 697,000 acre-feet (af), well below the critical level. Due to the current and projected hydrologic conditions, Reclamation can only allocate 40 percent of the Contract Total at this initial stage of the water year which equals 50,000 af. Reclamation intends to remain available to you and your representatives to discuss how the timing of water deliveries can be accomplished to satisfy the needs of water users while maintaining the objective of conserving storage for this year and into the next. At your request, Reclamation will also provide you with status reports of the hydrology to date including explanations of our operations.

On January 17, 2014, the SWRCB sent out informational letters to all water right holders in the state of California (including Reclamation), providing advance notice of possible curtailments in water use pursuant to each water right due to the lack of sufficient water supply available in the watersheds of the State. Final notices are anticipated to be issued by the end of February 2014. In addition, the SWRCB will be conducting workshops to obtain additional up-to-date information on the operations of the State and Federal water projects. Based on the uncertainty of these actions, Reclamation, along with other junior and possibly senior water right appropriators, may be compelled to comply with the curtailment notices and other orders from the SWRCB. This could further complicate Reclamation's ability to service all CVP users, including deliveries under your contract.

The extent of the current dry conditions is difficult to predict at best, as well as its impact on water users and the environment. In response, Reclamation is assigning all of our available resources to address the impacts the drought is causing our water users. We appreciate your efforts to work with us, the State, and other water users to identify actions that can be taken to mitigate, to the extent possible, this unprecedented low water supply year. We will provide ample notice of water allocation and operational meetings, and will continue to monitor hydrologic conditions and will immediately notify you if allocations change.

Please continue to implement all required contingency plans and water conservation measures within your water service areas. If you have any questions regarding this letter, please contact Mr. Rich Robertson at 530-934-1383 or RRobertson@usbr.gov.

Sincerely,



Brian Person
Area Manager

RESOLUTION 6 - 2014

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LIVE OAK
PROCLAIMING A LOCAL EMERGENCY AND THE IMMINENT
THREAT OF DISASTER BECAUSE OF DROUGHT CONDITIONS,
REQUESTING IMMEDIATE STATE AND FEDERAL ASSISTANCE AND
ENCOURAGING VOLUNTARY WATER CONSERVATION**

WHEREAS, Section 2.24.060 of the Live Oak Municipal Code empowers the City Council of the City of Live Oak to proclaim the existence or threatened existence of an emergency when said City is affected or likely to be affected by a public calamity; and

WHEREAS the Governor of the State of California has declared an emergency exists throughout California as a result of drought conditions; and

WHEREAS, the Sutter County Board of Supervisors has declared a local emergency and has requested the Governor of the State of California and the President of the United States to provide assistance to affected farmers, ranchers, and associated businesses and all other affected citizens of Sutter County; and

WHEREAS the City of Live Oak is situated within the borders of Sutter County and is also impacted by the continuing drought; and

WHEREAS, the City wants to protect and increase local water supply reliability and the delivery of safe drinking water, and to implement water conservation programs during this period of extreme drought; and

WHEREAS, the City Council of the City of Live Oak does hereby find that conditions of extreme peril to the safety of persons and property have arisen within this City of Live Oak, caused by the extreme drought and that the aforementioned conditions of extreme peril warrant and necessitate the proclamation of the existence of a local emergency.

NOW, THEREFORE, BE IT PROCLAIMED that an emergency now exists throughout the City of Live Oak; and

BE IT FURTHER RESOLVED AND ORDERED that during the existence of said emergency, the powers, functions and duties of the City Emergency Services Director and City's Civil Defense and Disaster Organization shall be those prescribed by State Law, City Ordinances, Resolutions, and approved plans of the City of Live Oak in order to mitigate the effects of said disaster; and

BE IT FURTHER PROCLAIMED AND ORDERED, that said emergency shall be deemed to continue to exist until its termination is proclaimed by the City Council of the City of Live Oak.

This Resolution is to take effect immediately.

The foregoing Resolution was duly introduced, passed and adopted on this 7th day of May, 2014 by the following vote:

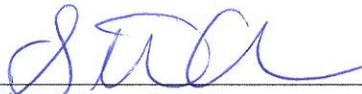
AYES: Council Members Baland, Hodges, Vice-Mayor Rogers and Mayor Alvarado

NOES: None

ABSENT: Council Member Ghag

ABSTAIN: None

APPROVED:



Steve Alvarado, Mayor

ATTEST:



Melissa Dempsey, City Clerk





**AUTO SORT CRRT C007



ACCOUNT #: 04-4456-03

CITY OF LIVE OAK
 9955 LIVE OAK BLVD
 LIVE OAK, CA 95953-2311

Please Make Check Payable To:
CITY OF LIVE OAK

DUE DATE AMOUNT DUE
 07/15/2014 \$116.74

Please detach this portion and return with Payment

LANDLORD COPY



SERVICE LOCATION:
 NAME:
 ACCOUNT #:

Meter Reading Period -- From: 05/20/2014 To: 06/20/2014

METER READING 1 Unit = 100 Cubic Feet		
Previous Reading	Current Reading	Amount Used
1,496	1,533	37

1 Unit = 100 Cubic Feet = Approximately 748 Gallons			
	USAGE	DAYS	DAILY AVG.
WATER	37	31	1.193

* NEXT COUNCIL MEETING - JULY 2 & 16.
 * WE'RE IN A DROUGHT AND THE GOVERNOR IS ASKING CALIFORNIANS TO REDUCE THEIR WATER USE BY 20%. TAKE SHORTER SHOWERS. FIX BROKEN SPRINKLERS. CHECK FOR LEAKS. FOR MORE TIPS ON HOW TO CONSERVE AT HOME, VISIT [HTTP://WWW.SAVEOURH2O.ORG](http://www.saveourh2o.org). OR FOLLOW SAVE OUR WATER ON FACEBOOK AND TWITTER.

Previous Balance	0.00
WATER	47.94
SEWER	68.80

Current Charges	116.74
DUE BY 07/15/14	116.74

DELINQUENT CHARGES:
 BALANCE FORWARD NOT PAID BY THE DUE DATE IS SUBJECT TO PENALTIES AND TURN OFF AND RECONNECTION CHARGES

Questions please call (530) 695-2112

RESOLUTION CC 14-12

A RESOLUTION OF THE CITY OF SHASTA LAKE CITY COUNCIL DECLARING A WATER SHORTAGE EMERGENCY IMPLEMENTING CHAPTER 13.12.400 THROUGH 13.12.404 OF THE CITY OF SHASTA LAKE MUNICIPAL CODE, IMPOSING AN EXCESS WATER USAGE PENALTY TO BOTH ENCOURAGE WATER CONSERVATION AND TO RECOUP ALL OR A PORTION OF SUPPLEMENTAL WATER SUPPLY COSTS, AND AUTHORIZING THE CITY MANAGER TO ENTER INTO A CONTRACT WITH THE MCCONNELL FOUNDATION FOR THE PURCHASE OF SUPPLEMENTAL WATER SUPPLIES

WHEREAS, the Governor of the State of California has proclaimed a State of Emergency on January 17, 2014 and has called upon state officials to take all necessary actions to prepare for these drought conditions; and

WHEREAS, the Governor has further called upon local urban water suppliers and municipalities to implement their local water shortage contingency plans immediately in order to forestall outright restrictions that could become necessary later in the drought season; and

WHEREAS, the City of Shasta Lake desires to implement the City's Water Shortage Emergency Ordinance by implementing Chapter 13.12.400 through 13.12.404 of the City of Shasta Lake Municipal Code; and

WHEREAS, with the declaration of the City of Shasta Lake Water Shortage Emergency implementing Chapter 13.12.400 through 13.12.404 of the Shasta Lake Municipal Code the following water restrictions will apply to all City water customers:

- A. Use of potable water to irrigate turf, ground cover, shrubbery, crops, vegetation, and trees in such a manner that shall not result in runoff for more than five minutes;
- B. Use of potable water to wash sidewalks, walkways, driveways, parking lots, open ground or other hard surfaced areas except where necessary for public health or safety;
- C. Allowing potable water to escape from breaks within the customer's plumbing system for more than twenty-four (24) hours after the customer is notified or discovers the break;
- D. Washing cars, boats, trailers, aircraft, or other vehicles by hose without a shutoff nozzle and bucket, except to wash such vehicles at commercial or fleet vehicle washing facilities using water recycling equipment;
- E. Use of potable water for construction, compaction, dust control, street or parking lot sweeping, building wash down where non-potable or recycled water is sufficient;

- F. Use of potable water for sewer system maintenance or fire protection training without prior approval by the city engineer;
- G. Use of potable water to fill or maintain levels in swimming pools, decorative fountains, ponds or evaporative coolers unless a recycling system is used; and

WHEREAS, the City of Shasta Lake desires to encourage water conservation and to recoup all or a portion of supplemental water supply costs by utilizing the following excess water penalty for all water customers:

Residential 5/8" and 1" water meter customers:

- Consumption Rate of 1-1000 cubic feet, no penalty.
- Consumption Rate of 1001-5000 cubic feet, \$.30 per 100 cubic foot penalty.
- Consumption Rate of 5001 cubic feet and beyond, \$2.50 per 100 cubic foot penalty.

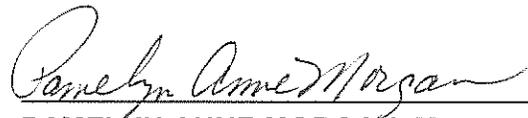
Non-Residential water meters 1" and greater:

- Consumption Rate of 1-1000 cubic feet, no penalty.
- Consumption Rate of 1001 cubic feet and beyond, \$.50 per 100 cubic foot penalty.

NOW, THEREFORE, BE IT RESOLVED THAT the City of Shasta Lake City Council hereby declares a Water Shortage Emergency implementing the City of Shasta Lake's Water Shortage Emergency Ordinance Chapter 13.12.400 through 13.12.404 of the City of Shasta Lake Municipal Code, imposing an excess water usage penalty to both encourage water conservation and to recoup all or a portion of supplemental water supply costs, and authorizing the City Manager to enter into a contract with the McConnell Foundation for the purchase of supplemental water supplies.

PASSED, APPROVED, AND ADOPTED this 4th day of March, 2014, by the following vote:

AYES: CHAPMAN-SIFERS, FARR, WATKINS, MORGAN
NOES: NONE
ABSENT: NONE



PAMELYN ANNE MORGAN, Mayor

ATTEST:



TONI M. COATES, City Clerk, CMC

