OVERVIEW OF LOMPOC'S WATER OPERATIONS AND CONSERVATION EFFORTS IN RESPONSE TO STATEWIDE DROUGHT CONCERNS

Lompoc City Council Meeting July 6, 2021

SANTA BARBARA COUNTY DROUGHT STATUS

February 2021 was the 4th driest February over the past 127 years in Santa Barbara County

-4.09 inches of rainfall from normal

2020-2021 was the 56th driest year to date in 127 years (SB County)

-2.44 inches of rainfall from normal

Per the U.S. Drought Monitor, 96.37% of Santa Barbara County (including Lompoc) is classified to be experiencing a D2 – "Severe Drought" condition. Entailments of this condition include the following:

- Landscapes and gardens need irrigation earlier than normal
- Wildlife patterns begin to change
- Stock ponds and creeks are lower than usual



DROUGHT RESPONSE STAGES OF REDUCTION

The City adopted an update 2020 Water Shortage Contingency Plan on June 15, 2021. This plan illustrates Mandatory Water Waste Prohibitions in all five of the following stages:

Stage	Condition	Reduction Objective
1 – Threatened Water Supply Conditions	 Gallons Per Capita Per Day (GPCD) greater than 117 (SB x 7-7 Baseline Target) 	Mandatory 15% Reduction
2 – Moderately Restricted Water Suply Conditions	• Rainfall below the mean average for two consecutive years and no Cachuma Reservoir expected that year.	15-30% Mandatory Reduction in total water demands from baseline
3 – Severely Restricted Water Supply Conditions	• Rainfall below the mean average for 3 or more consecutive years, 15% drop in static well levels relative to previous year, and no Cachuma Reservoir Dam release expected that year.	30-40% Mandatory Reductions in total water demands from baseline
4 – Critical Water Supply Conditions	• Undesirable Results as defined by Minimum Thresholds exceedances at Representative Monitoring Points per Western Management Agency Groundwater Sustainablity Plan. Average Pumping from Lompoc Plain subarea for the past 5 years exceeded the Sustainable Yield. 67% of the active wells have Variable Frequency Drive running restrictions, and more than 1 well is unable to pumb water under normal conditions.	Up to 50% Mandatory Reduction in total demands from baseline
5 – Catastrophic Water Supply Conditions	Loss of 1 or more wells.	Adjustments to actions from previous stages as necessary in coordination with the Emergency Response Plan

URBAN WATER MANAGEMENT PLAN

Сомрос 2020 Urban Water Management



The City has an Urban Water Management Plan that is updated every 5 years. City Council adopted the 2020 version of the plan on June 15, 202.

This plan provides information on the amount of water residents are using and the amount of water the city needs to process and distribute to ensure current and new residents have a reliable water supply.

The Urban Water Management Plan is reviewed by the public and is updated with public comments.

SUSTAINABLE GROUNDWATER MANAGEMENT ACT

The City of Lompoc is part of the Western Management Agency (WMA), which is writing a Sustainable Groundwater Management Plan as required by the Sustainable Groundwater Management Act (SGMA) for the Lompoc Water Basin. The plan is revisited every 5 years to ensure that our groundwater is maintained in a sustainable manner, ensuring overall aquifer longevity and preventing overdraft drought conditions.

All of the water residents use in Lompoc is supplied by the Lompoc Plain Groundwater basin.

The public is able to comment on each section of the plan as it is written. Additionally, newsletters are published regularly for the public to be kept up-to-date about the Groundwater Plan's progress.

Three WMA newsletters have been published and are posted on the City's website in both English and Spanish. Additionally, the first newsletter was printed for resident customers as a bill insert.



TREATMENT AND DISTRIBUTION

The City uses a conventional treatment process to ensure the safety and quality of our drinking water. Our process consists of disinfection, coagulation, flocculation, sedimentation, and filtration with diatomaceous earth (DE).

The City's Water Division is also responsible for the operation of the Frick Springs treatment plant. This plant consists of a small diatomaceous earth (DE) filtration and disinfection system. The water treated at this plant is collected from seven



springs located in the upper hills of Lompoc. The Frick Springs water treatment plant complies with the Surface Water Treatment Rule (SWTR).

Facts About Lompoc's Water Treatment Plant

- Constructed in 1963
- Originally designed to filter 6 million gallons per day (MGD)
- Enhanced in recent decades to filter approximately 10 MGD
- Serves 9,893 water meters daily (as of 5/12/21)
- in CY20
- Responsible for maintenance of 140 miles of distribution main lines



WATER CONSERVATION OUTREACH

The City maintains a robust water conservation outreach program designed to increase public awareness and participation in hopes that conservation practices are eventually adopted as cultural norms. The City's water conservation program offers Lompoc residents the following:

- 1. High Water Use Outreach (High Use Reports)
- 2. Meter Audits to Proactively Detect Leaks (Leak Reports)
- 3. Customer Data Assistance (100W ERT Program)
- 4. Utility Billing Door Hangers and Customer Service
- 5. Rebates on Water-Saving Fixtures
- 6. Water Awareness Outreach Events (Library/Outdoor Market events)
- 7. U.S. EPA's WaterSense Program Alignment (Fix-a-Leak Week)





Come say "hi" to our City of Lompoc Conservation Division today until 3 p.m. at the Lompoc Outdoor Community Market, and pick up some goodies.

Thanks to Plantel Nurseries and the the UC Cooperative Extension, we are able to offer these beautiful seedlings for free.

Conservation is also handing out seed packets and conservation goodie bags. Stop by the market in Downtown Lompoc next to the Lompoc Valley Chamber of Commerce & Visitor's Bureau.



CONSERVATION PROGRAM METRICS

Customers have responded positively to the City's recent uptick in public outreach regarding water conservation.

Staff has noted the following outreach figures from CY20:

- 1,317 water accounts audited due to leak signifying data
- 1,107 water accounts audited due to higher than normal usage
- 136 water-saving rebates processed and credited to utility customers' accounts

The City's Water Leak Detection and Repair Rebate Program offers customers up to \$700 to help offset the cost of locating and repairing water leaks requiring the services of a professional. This program helped 39 customers find and fix water leaks in 2020.

LOMPOC 100 Civic Center Plaza Lompoc, CA 93436 This postcard is a courtesy to inform you that the water meter at your property has recorded water usage at least once every hour for a 7 day period. We advise you to: Inspect toilets, showerheads, faucets, hose bibs, reverse osmosis and water softening systems, ice maker lines, sprinkler heads, rrigation pipes and drip lines for leaks. Visit our website https://www.cityoflompod com/leaks or call 805-875-8252 for more information about this notice and tips or detecting and repairing common plumbing A robote of up to \$700 is available to help you pay Jaho material costs and permit fers if a licensed plumber entractor repairs your leak. For rebate questions call 205 875 2013 This notice has been sent as a courtesy if this is your normal water aw, please call 805-825-8252 in stap fature notices. Customers are responsible for repairing

planbing leaks at their property in a timely manner. The City is not responsible for repairing leaks or any water lass or costs associated with a water leak.



Water Conservation Outreach (CY20)



Water-Saving Rebates



STAFF RECOMMENDATION

In summary, Lompoc's residents are excelling in making water conservation a "way of life" and are keeping the City's GPCD well below 117 GPCD. If Lompoc residents begin to use more than 117 GPCD, the Utility Director could mandate Stage 1, triggering a mandatory 15% reduction per the City's Water Shortage Contingency Plan.

Even though our Stage 2, a mandatory reduction of 15-30%, has a trigger of rainfall below the mean average for two consecutive years, the Utility Director doesn't need to declare a water supply shortage if conditions are such that a water emergency declaration would not be the best approach to maintaining the public's trust and partnership.

Staff recommends publicizing Lompoc's current water levels and status of the basin's supply, while continuing to promote the importance of water and common conservation practices in lieu of punitive actions to enforce water wasting restrictions.



The Utility Director or designee will continue to monitor drought conditions and recommend to the City Council additional procedures, rules and regulations to carry out effective water conservation programs and equitable allocation of water resources.