

CITY OF YUBA CITY
STAFF REPORT

Date: July 20, 2021

To: Honorable Mayor & Members of the City Council

From: Public Works Department

Presentation by: Diana Langley, Public Works Director

Summary

Subject: 2020 Urban Water Management Plan and Water Shortage Contingency Plan

Recommendation:

- A. Conduct a Public Hearing; and
- B. Adopt a Resolution adopting the 2020 Urban Water Management Plan and authorizing the Public Works Director to submit the Plan to the California Department of Water Resources
- C. Adopt a Resolution adopting the Water Shortage Contingency Plan and authorizing the Public Works Director to submit the Plan to the California Department of Water Resources

Fiscal Impact: Without an approved Urban Water Management Plan, the City would ineligible to receive grants, loans, or drought assistance through the California Department of Water Resources (DWR).

Purpose:

To support long-term resource planning, ensure adequate water supplies are available to meet existing and future water demands, and to identify implementation measures to address water shortages.

Background:

To strengthen local and regional water management and drought planning, the Urban Water Management Planning Act (UWMPA) was signed into law in 1983. Since then, the Legislature has amended the UWMPA to require additional details in Urban Water Management Plans (UWMP), including addressing resilience to drought and climate change.

The UWMPA requires urban water suppliers serving over 3,000 customers or supplying at least 3,000 acre-feet of water annually to prepare and adopt an UWMP every five years, and demonstrate water supply reliability in a normal year, single dry year, and droughts lasting at least five years over a twenty-year planning horizon. The UWMPA also requires each urban water supplier to prepare a drought risk assessment and water shortage contingency plan.

The UWMP provides a water management planning foundation, outlining the City's past and current, as well as projected future, water supply and demand conditions.

The Water Shortage Contingency Plan (WSCP) addresses possible conditions in which the water supply available to customers is insufficient to meet the normally expected customer water use at a

given point in time due to a drought, regulatory action constraints, and natural and man-made disasters. The WSCP describes the City’s strategy for allocating water during such water supply shortages, while assuring customers that at all times it will meet the minimum health and safety requirements of a drinking water purveyor.

In addition to complying with the California Water Code (CWC), the City must also comply with legislative changes resulting from the November 2009 passage of Senate Bill X7-7. SB X7-7 required a reduction of statewide average per capita daily water consumption of 20% by December 31, 2020.

Per CWC § 10642, the City published a notice of Public Hearing in the Appeal Democrat on July 6 and July 13.

Analysis:

Consistent with the requirements of CWC § 10631, the City’s 2020 UWMP contains:

1. A description of the City’s water service area, including current and projected population
2. An assessment of the existing and planned sources of water
3. An assessment of the reliability of the water supply given a range of hydrologic conditions considering up to a five-year drought period
4. Opportunities for exchanges or transfers of water
5. An assessment of water demands by customer type
6. A description of demand management measures implemented or planned to be implemented
7. An explanation of water management strategies designed to integrate supply and demand conditions
8. Discussion on climate change and any potential impacts
9. A Water Shortage Contingency Plan

Below is a summary of the major components and findings:

Compliance with 2020 Urban Water Use Target

Pursuant to CWC § 10608.24(b), the City must demonstrate its 2020 water use met the gallons per capita per day (GPCD) target adopted in the 2015 UWMP. As set forth in the 2015 UWMP, the City’s 2020 GPCD target was established at 192 GPCD. The 2020 actual GPCD was 179 GPCD, thus, the City is in compliance.

Water Supply Reliability

The UWMPA requires the UWMP to address the reliability of the agency’s water supplies, including an analysis of supply availability in a single dry year and multiple dry years. The City’s water supply was vulnerable during the 2013-2017 drought, and is vulnerable again with the current drought. The tables below provide a comparison of water supply to water demand during a normal year, single dry year, and multiple dry years. The demand totals are based on very modest growth rates.

Table 1: Normal Year Supply and Demand Comparison (acre-feet per year)

	2025	2030	2035	2040	2045
Supply Totals	28,928	28,928	28,928	28,928	28,928
Demand Totals	14,935	15,480	16,150	16,995	17,830

Difference	13,993	13,448	12,778	11,933	11,098
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Table 2: Single Dry Year Supply and Demand Comparison (acre-feet per year)

	2025	2030	2035	2040	2045
Supply Totals	24,439	24,439	24,439	24,439	24,439
Demand Totals	15,682	16,254	16,958	17,845	18,722
Difference	8,757	8,185	7,482	6,594	5,718

Table 3: Multiple Dry Years Supply and Demand Comparison (acre-feet per year)

		2025	2030	2035	2040	2045
Year 1	Supply Totals	26,363	26,363	26,363	26,363	26,363
	Demand Totals	15,682	16,254	16,958	17,845	18,722
	Difference	10,681	10,109	9,406	8,518	7,642
Year 2	Supply Totals	23,290	23,290	23,290	23,290	23,290
	Demand Totals	15,796	16,395	17,135	18,020	18,722
	Difference	7,493	6,895	6,155	5,269	4,568
Year 3	Supply Totals	21,366	21,366	21,366	21,366	21,366
	Demand Totals	15,911	16,535	17,312	18,195	18,722
	Difference	5,455	4,830	4,053	3,170	2,644
Year 4	Supply Totals	20,650	20,650	20,650	20,650	20,650
	Demand Totals	16,025	16,676	17,490	18,371	18,722
	Difference	4,624	3,973	3,160	2,279	1,928
Year 5	Supply Totals	23,099	23,099	23,099	23,099	23,099
	Demand Totals	16,140	16,817	17,667	18,546	18,722
	Difference	6,960	6,282	5,432	4,553	4,378

Through active management, the City has reliable water supplies available for its service area through 2045.

Water Shortage Contingency Planning

The UWMPA requires that the UWMP include an urban water shortage contingency analysis that addresses stages of action to be undertaken in response to water supply shortages, including greater than a 50% reduction in water supply. The City is required to develop mandatory prohibitions against specific water use during shortages and consumption reduction methods in the most restrictive stages.

The City's Water Shortage Contingency Plan includes 6 stages, which includes voluntary and mandatory conservation measures. Supply shortages and City Council action will trigger the different stages. A description of each stage is as follows:

Stage	Percent Shortage	Water Supply Condition
1	Up to 10%	Water Alert
2	Up to 20%	Water Warning
3	Up to 30%	Severe Shortage

4	Up to 40%	Critical Shortage
5	Up to 50%	Water Crisis
6	Greater than 50%	Water Emergency

The Water Shortage Contingency Plan includes restrictions and prohibitions on water customers specific to each stage.

The Public Review Draft of the UWMP is available for review at City Hall, 1201 Civic Center Boulevard, or can be found on the City’s website at www.yubacity.net/uwmp.

Fiscal Impact:

Without an approved Urban Water Management Plan, the City may not eligible to receive grants, loans, or drought assistance through the California Department of Water Resources.

Environmental Review:

California Water Code § 10652 provides that the California Environmental Quality Act (CEQA) does not apply to the preparation and adoption of Urban Water Management Plans or to projects implementing such plans under CWC § 10632.

Alternatives:

Conduct a public hearing, and direct staff to make modifications to the Draft 2020 Urban Water Management Plan and/or Water Shortage Contingency Plan.

Recommendation:

- A. Conduct a Public Hearing, and
- B. Adopt a Resolution adopting the 2020 Urban Water Management Plan and authorizing the Public Works Director to submit the Plan to the California Department of Water Resources
- C. Adopt a Resolution adopting the Water Shortage Contingency Plan and authorizing the Public Works Director to submit the Plan to the California Department of Water Resources

Attachments:

- 1. Resolution – Urban Water Management Plan
- 2. Resolution - Water Shortage Contingency Plan
- 3. Outline of the 2020 Urban Water Management Plan
- 4. Outline of the Water Shortage Contingency Plan

Prepared by:

/s/ Diana Langley
Diana Langley
Public Works Director

Submitted by:

/s/ Dave Vaughn
Dave Vaughn
City Manager

Reviewed by:

Finance
City Attorney

SM
SLC by email

ATTACHMENT 1

RESOLUTION NO. _____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF YUBA CITY
ADOPTING THE 2020 URBAN WATER MANAGEMENT PLAN AND AUTHORIZING THE
PUBLIC WORKS DIRECTOR TO SUBMIT THE PLANS TO THE CALIFORNIA
DEPARTMENT OF WATER RESOURCES**

WHEREAS, the Urban Water Management Planning Act requires every urban water supplier providing water for municipal purposes to more than 3,000 customers to adopt and submit an Urban Water Management Plan to the California Department of Water Resources and the California State Library every five years; and

WHEREAS, the City of Yuba City has prepared an Urban Water Management Plan, published a Notice of Public Hearing pursuant to California Government Code Section 6066, published July 6 13, 2021, and held the appropriate Public Hearing.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Yuba City that the 2020 Urban Water Management Plan is hereby adopted, subject to minor and typographical edits as deemed necessary by the Public Works Director.

BE IT FURTHER RESOLVED that the Public Works Director is hereby authorized to submit the Plan to the California Department of Water Resources.

The foregoing Resolution was duly and regularly introduced, passed, and adopted by the City Council of the City of Yuba City at a regular meeting thereof held on the 20th day of July, 2021.

AYES:

NOES:

ABSENT:

Marc Boomgaarden, Mayor

ATTEST:

Ciara Wakefield, Deputy City Clerk

APPROVED AS TO FORM
COUNSEL FOR YUBA CITY

Shannon L. Chaffin, City Attorney
Aleshire & Wynder, LLP

ATTACHMENT 2

RESOLUTION NO. _____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF YUBA CITY
ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN AND AUTHORIZING THE
PUBLIC WORKS DIRECTOR TO SUBMIT THE PLANS TO THE CALIFORNIA
DEPARTMENT OF WATER RESOURCES**

WHEREAS, the Urban Water Management Planning Act requires every urban water supplier providing water for municipal purposes to more than 3,000 customers to adopt and submit a Water Shortage Contingency Plan (WSCP) as part of an Urban Water Management Plan every five years to the California Department of Water Resources; and

WHEREAS, the City of Yuba City has prepared a Water Shortage Contingency Plan, published a Notice of Public Hearing pursuant to California Government Code Section 6066, published July 6 13, 2021, and held the appropriate Public Hearing.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Yuba City that the Water Shortage Contingency Plan is hereby adopted, subject to minor and typographical edits as deemed necessary by the Public Works Director.

BE IT FURTHER RESOLVED that the Public Works Director is hereby authorized to submit the Plan to the California Department of Water Resources.

The foregoing Resolution was duly and regularly introduced, passed, and adopted by the City Council of the City of Yuba City at a regular meeting thereof held on the 20th day of July, 2021.

AYES:

NOES:

ABSENT:

Marc Boomgaarden, Mayor

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Ciara Wakefield, Deputy City Clerk

APPROVED AS TO FORM
COUNSEL FOR YUBA CITY

Shannon L. Chaffin, City Attorney
Aleshire & Wynder, LLP

ATTACHMENT 3

Urban Water Management Plan Organization

- Executive Summary
- Chapter 1 – Introduction
- Chapter 2 – Water Service and System Description
- Chapter 3 – Water Supply
- Chapter 4 – Water Use
- Chapter 5 – Water System Reliability
- Chapter 6 – Water Shortage Contingency Plan

ATTACHMENT 4

Water Shortage Contingency Plan Organization

- Section 6.1 – Water Supply Reliability Analysis
- Section 6.2 – Annual Water Supply and Demand Assessment Procedures
- Section 6.3 – Six Standard Water Shortage Stages and Triggers
- Section 6.4 – Shortage Response Actions
- Section 6.5 – Communication Protocols
- Section 6.6 – Compliance and Enforcement
- Section 6.7 – Legal Authorities
- Section 6.8 – Financial Consequences
- Section 6.9 – Monitoring and Reporting
- Section 6.10 – Re-evaluation and Improvement Procedures
- Section 6.11 – Special Water Feature Designation
- Section 6.12 – Plan Adoption, Submittal, and Availability