



TITLE

2024 Water Supply and Demand Update

RECOMMENDATION

Receive and file a report on water supply and demand in the City of American Canyon Water Service Area.

CONTACT

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BACKGROUND & ANALYSIS

The State Water Project (SWP) is a critical resource for 29 public agencies that serve water to 27 million Californians, including American Canyon. The main source for the City's water supply is the SWP, which is operated by Department of Water Resources (DWR).

Raw SWP Water is delivered from the Sacramento-San Joaquin Delta (Delta) and conveyed approximate 27 miles through the North Bay Aqueduct (NBA) system to American Canyon's Water Treatment Plant (WTP). American Canyon is contracted to receive 5,200-acre feet per year (AFPY) in SWP Water (Table "A"). The actual amount of SWP Water available to American Canyon varies each year due to hydraulic conditions and environmental/regulatory requirements.

Sources of Water

On April 2, 2024, DWR reported snow survey results indicated 64 inches of snow depth, snow water equivalent to 27.5 inches which is 113% of average. As of April 20, 2024, 15 of 17 major reservoirs in California are over 100% of average level (Attachment 1)

In 2024, American Canyon will receive 65% of its Table A allocation (Attachment 2)

In addition, American Canyon has 2,600 AF of "Article 56 Carryover Water". (Water not used by the end of the year is "carried over" to the following year.)

American Canyon also has 500 AFPY of Vallejo Permit Water ("non-project" raw water also delivered through the NBA).

Lastly, when the Delta is in "excess outflow conditions", American Canyon is eligible for "Article 21 Water". (Article 21 Water is excess "project water" available from the NBA depending on deliveries, allocations, operations, reservoir storage and snow surveys.)

American Canyon’s total available water supply year to date is 6,779-acre feet (AF). The City's total allocations include:

| Water Classification | Amount |
|----------------------|-----------------|
| Table A | 3,380 Acre-feet |
| Article 56 Carryover | 2,600 Acre-feet |
| Vallejo Permit | 500 Acre-feet |
| Article 21 | 299 Acre-feet |

Forecasted Demands

The City's water demands last year January-March 2023 was an estimated 464 AF. Current data reflects customer consumption is consistent at 462 AF, January-March 2024. Historical water demand since 2019 has ranged from 2,064 to 2,884 AFY as shown below:

| Year | Volume |
|------|-----------------|
| 2019 | 2,603 Acre-feet |
| 2020 | 2,884 Acre-feet |
| 2021 | 2,795 Acre-feet |
| 2022 | 2,609 Acre-feet |
| 2023 | 2,064 Acre-feet |

Our current water supply at 6,779 AF exceeds the highest demand from the last 5 years.

COUNCIL PRIORITY PROGRAMS AND PROJECTS

Infrastructure: "Develop and maintain infrastructure resources to support sustainable growth."

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

Providing the Water Demand and Supply Report is not a "project" under the California Environmental Quality Act ("CEQA"). Further, the item is categorically exempt from CEQA review as an action by an agency for the protection of natural resources (pursuant to CEQA Guidelines section 15307) and for the protection of the environment (pursuant to CEQA Guidelines section 15308).

ATTACHMENTS:

1. Major Reservoirs Levels in California
2. 2024 State Water Project Allocation