



2020 URBAN WATER MANAGEMENT PLAN

ADOPTED BY THE BOARD OF DIRECTORS ON JUNE 23, 2021

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Abbreviations

AF	acre-feet
AFY	acre-feet per year
AMR	Automated Meter Reading
AWIA	American Water Infrastructure Act
AWMP	Agricultural Water Management Plan
BO	Biological Opinion
CA	Coastal Area
CAGR	Compounded Annual Growth Rate
CalWEP	California Water Efficiency Partnership
CDFW	California Department of Fish and Wildlife
CDP	Census Designated Place
cfs	cubic feet per second
CVWD	Carpinteria Valley Water District
DAC	Disadvantaged Community
DCR	Delivery Capability Report
DRA	Drought Response Assessment
DWR	Department of Water Resources
ERP	Emergency Response Plan
ESA	Endangered Species Act
°F	degrees Fahrenheit

FY	Fiscal year
GIS	Geographic Information System
gpcd	gallons per capita per day
GSP	Groundwater Sustainability Plan
GSWC	Golden State Water Company
HAA	Haloacetic acid
kWh	Kilowatt-hours
MCL	Maximum Contaminant Level
mgd	million gallons per day
MWWTP	Marion Walker Water Treatment Plant
NMFS	National Marine Fisheries Service
NVAA	North Ventura Avenue Area
OBGMA	Ojai Basin Groundwater Management Agency
OVA	Ojai Valley Area
OVSD	Ojai Valley Sanitary District
OWS	Ojai Water System
PWS	Public Water System
SB X7-7	Water Conservation Act of 2009
SCADA	Supervisory Control and Data Acquisition
SGMA	Sustainable Groundwater Management Act
SGPWA	San Geronio Pass Water Agency
SWP	State Water Project
SWRCB	State Water Resources Control Board
THM	Trihalomethane
USBR	US Bureau of Reclamation
UVRGA	Upper Ventura River Groundwater Agency
UVRGB	Upper Ventura River Groundwater Basin
UWCD	United Water Conservation District
UWMP	Urban Water Management Plan
VCFCD	Ventura County Flood Control District
VCRCD	Ventura County Resource Conservation District
WAP	California Water Action Plan
WEAP	Water Efficiency and Allocation Program
WSCP	Water Shortage Contingency Plan
WUE	Water Use Efficiency

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1. Introduction and Lay Description

Casitas Municipal Water District (Casitas or District) has prepared this 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act of 1983. This section provides an overview of Casitas' water supplies, demands, water service reliability, and strategies for managing risks.

Overview. Casitas provides wholesale and retail water service to western Ventura County and is governed by a five-member elected Board of Directors (Board). Originally named the Ventura River Municipal Water District, Casitas was formed in 1952 to provide supplemental water to the agricultural communities in its service area. The service area also includes residential, commercial, and industrial uses. Wholesale customers include the City of Ventura and several special districts and mutual water companies. In June 2017, Casitas acquired the Ojai Water System (OWS) from Golden State Water Company (GSWC) and absorbed those customers as retail customers.

Water Supplies. All water supplies are local, consisting of groundwater wells and surface water in Lake Casitas. Lake Casitas was formed by the construction of Casitas Dam by the US Bureau of Reclamation in 1958. The total lake capacity is 237,761 acre-feet (AF) as of 2017. The Robles Diversion and Fish Passage Facility is located on the north end of the Ventura River and allows Casitas to divert river flow to the Robles Canal to feed Lake Casitas. Operation of the Robles Facility is under the jurisdiction of the 2003 non-jeopardy Biological Opinion (BO) prepared by National Marine Fisheries Service (NMFS) due to the listing of steelhead trout as an endangered species.

As of December 31, 2020, Lake Casitas was at approximately 39.3 percent of capacity (93,449 AF in storage) due to the ongoing drought. The Safe Yield of Lake Casitas was re-evaluated in 2020 and the hydrology model was updated as described in Section 6.2.3. The Board adopted a safe yield of 18,420 acre-feet per year (AFY) in April 2021 and applied a supply safety factor of -15 percent and a climate change adjustment of -4.3 percent for planning purposes.

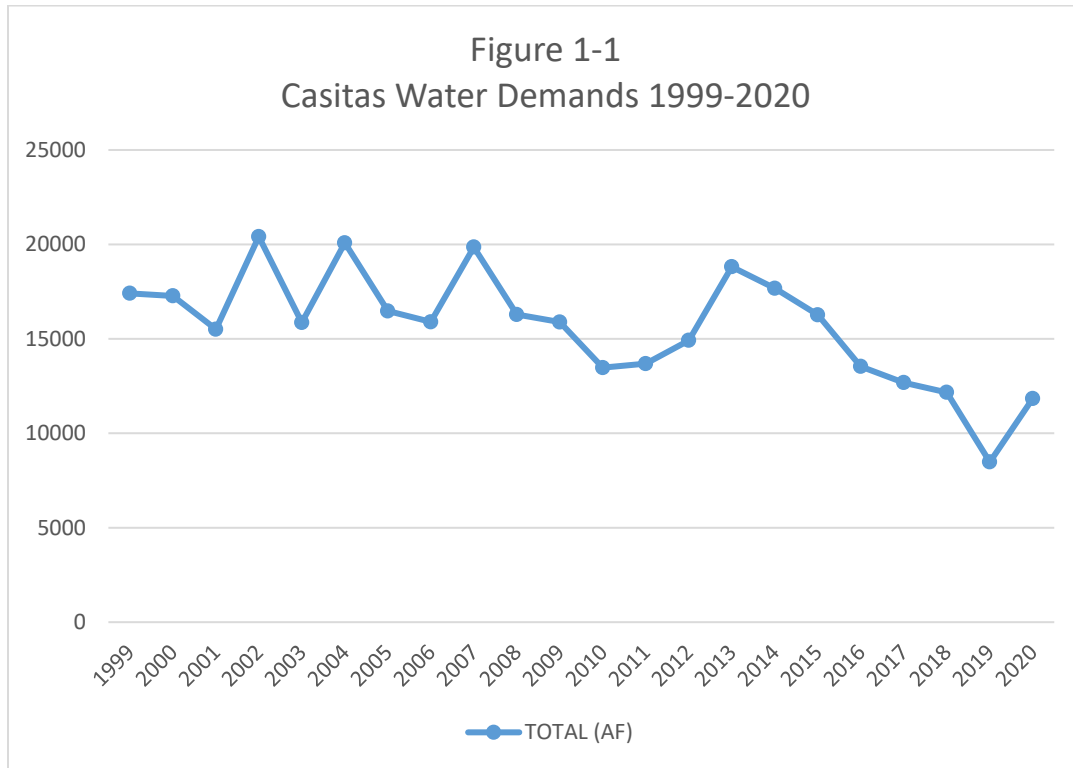
The Casitas System also includes one groundwater well, the Mira Monte Well, located in the Upper Ventura River Groundwater Basin. The combined planned operational yield from Lake Casitas and the Mira Monte Well is 15,010 AFY.

In 2017, Casitas acquired the OWS from GSWC. Prior to this, GSWC had been a wholesale customer of Casitas. Ojai Water System customers are now direct customers of Casitas. The Ojai Water System includes the Ojai Wellfield on the east end of Ojai with six groundwater wells. These wells are located in the Ojai Groundwater Basin and currently provide approximately 1,800 AFY of supply. The Ojai Groundwater Basin is unadjudicated and is not considered to be in an overdraft condition.

In 1963, the Ventura County Flood Control District (now the Ventura County Watershed Protection District) contracted with the State of California for up to 20,000 AFY of water from the State Water Project (SWP). In 1971, Ventura County Flood Control District assigned the administration of the contract to Casitas. Casitas' contractual share is 5,000 AFY of State Water Project (SWP), the City of Ventura has 10,000 AFY and United Water Conservation District has 5,000 AFY. To date the infrastructure is not in place to deliver the contractual share to Casitas. Design of a 1.5-mile intertie between Casitas and Carpinteria Valley Water District, referred to as the Ventura-Santa Barbara Counties Intertie, is expected to be complete in 2022, and funding is being pursued for construction. The

intertie will allow delivery of imported water to Casitas to augment local supplies and mitigate impacts of droughts and emergencies.

Water Demands. Demands on the Casitas system have ranged from a low of approximately 8,545 AF in 2019 to a high of approximately 24,000 AF in 1989. Figure 1-1 shows a snapshot of water demands from 1999-2020. In general, agricultural customers make up the majority of demand at 50 percent. Wholesale customers comprise approximately 30 percent and retail customers 20 percent¹.



Every Casitas customer has an assigned water allocation. Casitas manages customer demands through the Water Efficiency Allocation Program (WEAP), which includes conservation targets based on lake level. Currently, Casitas is currently in Stage 3 of the WEAP with mandated 30 percent conservation. Customers who exceed their allocation pay penalties for overuse.

Both the Casitas Retail and Ojai Retail systems met their '20 by 2020' goal to reduce water use 20 percent from the pre-2010 baseline period. Casitas retail users target was 295 gallons per capita per day (gpcd) and the actual 2020 use was 195 gpcd. Ojai users' goal was 257 gpcd and actual 2020 usage was 209 gpcd.

Challenges Ahead. The ongoing drought continues to affect Casitas as all water supplies are local groundwater and surface water diversions. As of December 31, 2020, Lake Casitas was at 39.3 percent capacity with 93,449 AF of water in storage.

The Robles Diversion Facility on the Ventura River may be impacted by the future removal of the Matilija Dam upstream. The release of large quantities of sediment may affect Casitas' ability to divert water to

¹ 2011-2020 average

Lake Casitas. Casitas continues to work with the County of Ventura to evaluate the best alternatives to maintain diversions, protect endangered species, and reduce flooding.

The City of Ventura initiated a water rights adjudication of four groundwater basins within the Ventura River watershed. The basins named in the lawsuit include: Upper Ventura River Groundwater Basin, Lower Ventura River Groundwater Basin, Ojai Valley Groundwater Basin, and Upper Ojai Valley Groundwater Basin. The outcome of the adjudication is currently unknown. Casitas is actively defending and protecting its water rights in the case of *Santa Barbara Channelkeeper v. State Water Resources Control Board; City of San Buenaventura; City of San Buenaventura v. Duncan Abbott, et al.*, Cross-Complaint, Superior Court of the State of California, County of Los Angeles, Case No. 19STCP01176. More information can be found at: <http://www.venturariverwatershedadjudication.com>

Strategies to Manage Reliability. During drought conditions, the WEAP is a cornerstone policy for Casitas' demand management. The WEAP describes the water demand reduction strategies and measures to address water shortage conditions, promote water conservation and the efficient use of water, and the application of a penalty to customers who waste water. The WEAP was originally developed in response to the 1987-1991 drought period, and is updated and modified as needed. The collective work in 1992 set the starting point for a system of water allocation assignments and demand response criteria based on the level of water storage in Lake Casitas.

Casitas prepares an annual Water Supply Assessment each April and provides a summary of the previous fiscal year's weather conditions, water resources, and water demands. The Board may take action to implement various stages of the WEAP in response to these factors.

Casitas is currently designing the Ventura-Santa Barbara Counties Intertie project to allow Casitas to access to its SWP allocation and supplemental water when there is excess delivery capacity in the Santa Barbara County facilities. This intertie would mitigate impacts of droughts and emergencies when local supplies become limited.

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2. Plan Preparation

Casitas is preparing this UWMP in compliance with California Water Code. Casitas is a wholesale and retail water provider and this UWMP incorporates these two elements. On the retail side, Casitas has two water systems, the Casitas System and the Ojai System, each with their own Public Water System Identification Number. Information presented will reflect these three entities: 1) Casitas Wholesale, 2) Casitas System Retail, and 3) Ojai System Retail.

2.1. Plan Preparation

This UWMP was prepared by Casitas staff from Engineering, Public Outreach and Conservation, Finance, and Operations and Maintenance departments.

2.2. Basis for Preparing a Plan

Casitas is both a wholesale and retail water supplier and will complete applicable sections and tables for both wholesale and retail information. Casitas is required to prepare an UWMP as a retail provider since it serves more than 3,000 AF per year and more than 3,000 connections to retail customers. The Ojai System served 2,953 customers as of December 31, 2020, which is under the threshold of 3,000 customers required to submit an UWMP. Casitas is including the Ojai System to provide a comprehensive picture of the systems Casitas operates.

Casitas completed a combined UWMP and Agricultural Water Management Plan (AWMP) in 2015 though it did not meet the criteria for an AWMP. An AWMP is required when at least 10,000 acres of land is irrigated (excluding recycled water deliveries). Casitas provides water to agricultural customers with reported irrigable lands of approximately 5,000 acres. For this 2020 UWMP, Casitas did not complete an AWMP as the criteria was not met.

2.2.1. Public Water Systems

The Casitas water system provides wholesale and retail water service. The OWS, acquired from GSWC in 2017, is a retail system only. The Casitas and OWS have separate Public Water System Numbers as shown in Table 2-1.

Submittal Table 2-1 Retail Only: Public Water Systems			
Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020 (Acre-Feet)
5610024	Casitas Municipal Water District	3,187	7,122
5610014	Ojai Water System	2,943	1,625
TOTAL		6,130	8,747
NOTES: Does not include resale (wholesale); includes agricultural, and agricultural-domestic customers. Casitas acquired the Ojai Water System in June 2017.			

2.2.2. [Suppliers Serving Multiple Service Areas/Public Water Systems](#)

This section is not applicable since Casitas is reporting information for each system (rather than grouping the systems together).

2.3. [Regional Planning](#)

Casitas did not participate in a regional effort in the context of 2020 UWMP for establishing regional targets and compliance.

2.4. [Individual or Regional Planning and Compliance](#)

Casitas is preparing this 2020 UWMP as an individual water supplier as shown in Table 2-2.

Submittal Table 2-2: Plan Identification		
Select Only One	Type of Plan	Name of RUWMP or Regional Alliance if applicable
<input checked="" type="checkbox"/>	Individual UWMP	
<input type="checkbox"/>	Water Supplier is also a member of a RUWMP	
<input type="checkbox"/>	Water Supplier is also a member of a Regional Alliance	
<input type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)	

2.4.1. [Regional UWMP](#)

This section is not applicable to Casitas.

2.4.2. [Regional Alliance](#)

This section is not applicable to Casitas.

2.5. [Fiscal or Calendar Year and Units of Measure](#)

Casitas is both a wholesaler and retailer as shown in Table 2-3. Table 2-3 also shows the year type and units of measure used throughout this UWMP.

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input checked="" type="checkbox"/>	Supplier is a wholesaler
<input checked="" type="checkbox"/>	Supplier is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years

Submittal Table 2-3: Supplier Identification	
<input type="checkbox"/>	UWMP Tables are in fiscal years
Units of measure used in UWMP	
Unit	Acre-Feet (AF)
<i>* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>	

2.5.1. [Fiscal or Calendar Year](#)

The data reported in this 2020 UWMP is on a calendar year basis.

2.5.2. [Reporting Complete 2020 Data](#)

All data for the complete calendar year 2020 is included herein.

2.5.3. [Units of Measure](#)

Casitas is reporting all water data in acre-feet.

2.6. Coordination and Outreach

Coordination and outreach regarding the preparation of this 2020 UWMP is discussed in the following subsections.

2.6.1. [Wholesale and Retail Coordination](#)

Casitas Wholesale System. Casitas supplies water on a wholesale basis to the agencies listed in Table 2-4.

Submittal Table 2-4 Wholesale: Water Supplier Information Exchange (select one)	
<input checked="" type="checkbox"/>	Supplier has informed more than 10 other water suppliers of water supplies available in accordance with Water Code Section 10631. Completion of the table below is optional. If not completed, include a list of the water suppliers that were informed. Provide page number for location of the list.
<input type="checkbox"/>	Supplier has informed 10 or fewer other water suppliers of water supplies available in accordance with Water Code Section 10631. Complete the table below.
Water Supplier Name	
Casitas Mutual Water Company	
City of Ventura	
Del Vasco Mutual Water Company	
Hermitage Mutual Water Company	
Meiners Oaks Water District	
Old Creek Road Water Company	

Submittal Table 2-4 Wholesale: Water Supplier Information Exchange (select one)
Rancho del Cielo Mutual Water Company
Rincon Road and Water Works
Senior Canyon Mutual Water Company
Siete Robles Mutual Water Company
Sisar Mutual Water Company
Sulphur Mountain Road Water Association
Tico Mutual Water Company
Ventura River Water District
NOTES:

Casitas Retail System. Casitas serves as the ‘wholesaler’ to Casitas retail customers so notifications are not necessary. Casitas does not purchase water from any other wholesalers.

Submittal Table 2-4 Retail: Water Supplier Information Exchange – Casitas Retail
The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.
Wholesale Water Supplier Name
Not applicable.
NOTES: Casitas serves as the ‘wholesaler’ to Casitas retail customers so notifications are not necessary. Casitas does not purchase water from any other wholesalers.

Ojai Water System. Casitas serves as the ‘wholesaler’ to Ojai Water System retail customers so notifications are not necessary. Casitas does not purchase water from any other wholesalers.

Submittal Table 2-4 Retail: Water Supplier Information Exchange – Ojai Retail
The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.
Wholesale Water Supplier Name
Not applicable.
NOTES: Casitas serves as the ‘wholesaler’ to Ojai Water System retail customers so notifications are not necessary. Casitas does not purchase water from any other wholesalers.

2.6.2. [Coordination with Other Agencies and the Community](#)

Notifications regarding the preparation of this 2020 UWMP were sent to the following agencies and community groups:

Calleguas Municipal Water District	Surfrider Foundation Ventura County
Carpinteria Valley Water District	United Water Conservation District
Farm Bureau of Ventura County	Upper Ventura River Groundwater Management Agency
Friends of the Ventura River	Ventura County Agriculture Commissioner
Ojai Basin Groundwater Management Agency	Ventura County Local Agencies Formation Commission
Ojai Chamber of Commerce	Ventura County Resource Conservation District
Ojai FLOW	Ventura County Supervisor Matt LaVere
Ojai Pixie Growers Association	Ventura County Watershed Protection District
Ojai Valley Land Conservancy	Ventura River Watershed Coordinator
Ojai Valley News	Watersheds Coalition of Ventura County
Ojai Valley Sanitary District	

A sample letter is provided in Appendix A. Additionally, Casitas posted a notice on their website and social media accounts including Facebook and Twitter regarding the availability of the Draft 2020 UWMP.

2.6.3. [Notice to Cities and County](#)

Notification letters at least 60-days in advance of the public hearing on the 2020 UWMP were sent to the following Cities and Counties:

- County of Ventura
- City of Ventura
- Ventura Water
- City of Ojai

The sample letter is provided in Appendix B.

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3. System Description

Descriptions of the Casitas and Ojai water systems are included in the following subsections.

3.1. General Description

Casitas is a Municipal Water District providing wholesale and retail potable water to western Ventura County including 6,130 agricultural, commercial, and residential customers. The District boundaries (Figure 3-1) encompass the City of Ojai, Upper Ojai, the Ventura River Valley area, the City of Ventura (west of Mills Road), and the beach communities of Solimar, La Conchita, and Rincon.

Casitas Wholesale System. Casitas supplies water to several water agencies on a wholesale basis; there is a total of 24 wholesale connections. The largest wholesale customer is the City of Ventura (City or Ventura). Ventura is supplied via the gravity-fed Cañada Larga (30-inch) and Ventura 1(M) (33-inch) Mains. There are two connection points to the City, one at the City's Avenue Treatment Plant, and one near Olive and Ramona Streets in west Ventura. The maximum demand from the City can periodically reach 20 cubic feet per second (cfs). Casitas' service area also includes smaller mutual water companies, and two water districts, Meiners Oaks Water District and Ventura River Water District.

Casitas Retail System. The Casitas retail system includes the services directly to end users such as residential, agricultural, commercial, and industrial customers.

The Casitas wholesale and retail customers share a potable water supply and distribution system.

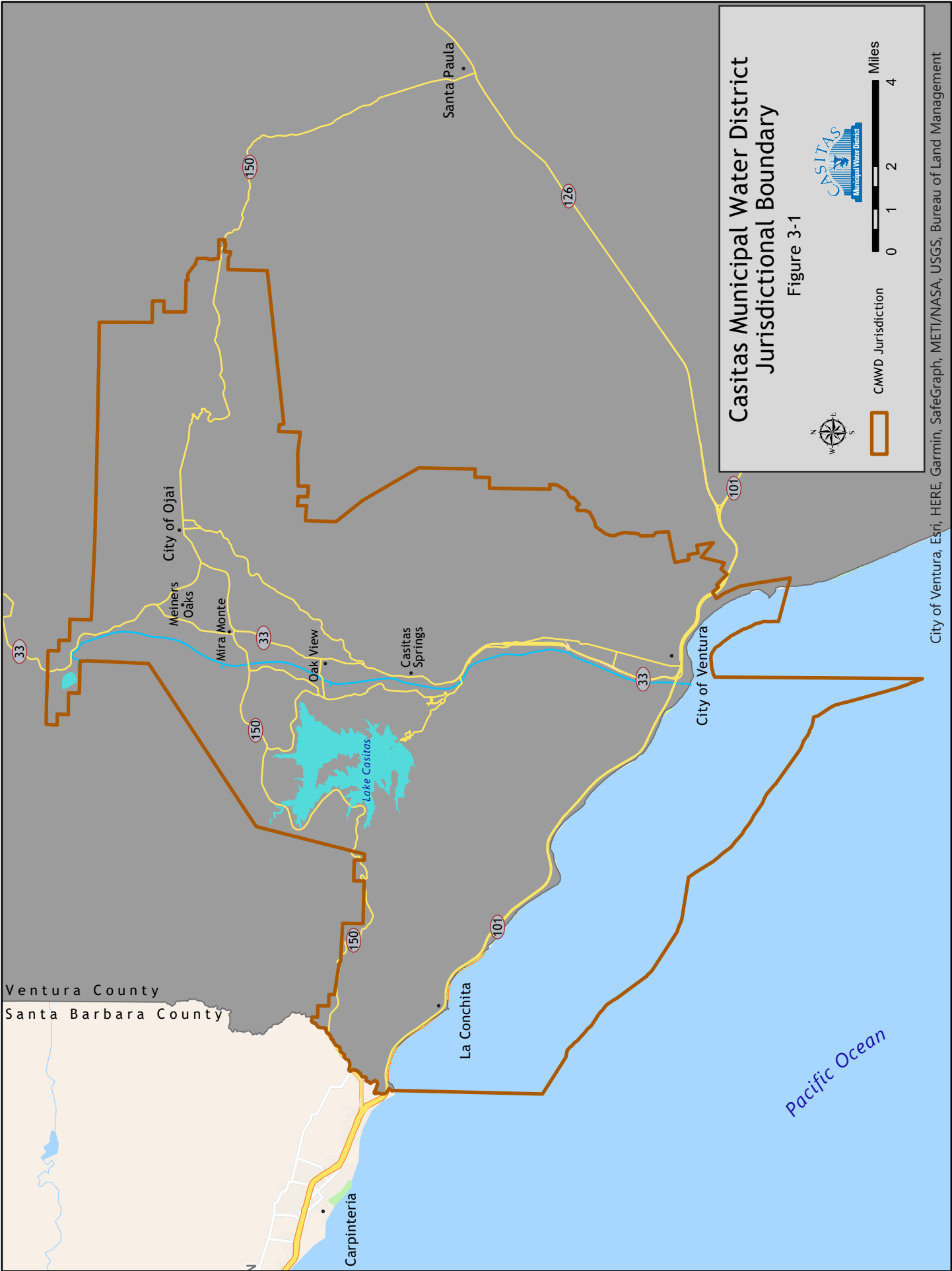
Casitas Municipal Water District was originally formed as Ventura River Municipal Water District in 1952. The main source of supply is Lake Casitas, which was formed by the construction of Casitas Dam. The Dam, the Robles Diversion Facility on the Ventura River, and a majority of the transmission system was constructed by the United States Bureau of Reclamation (USBR) in the late 1950s and 1960s. In addition to the facilities constructed by USBR, Casitas also constructed water infrastructure (pipelines, tanks, and pump plants) to further expand the system.

The original capacity of Lake Casitas was 254,000 acre-feet (AF); a 2017 bathymetric survey re-calculated the capacity to approximately 238,000 AF. As of December 2020, Lake Casitas was at approximately 39.3 percent of capacity (93,449 AF in storage) due to the ongoing drought.

Lake Casitas receives inflow from the surrounding watershed, Coyote Creek, Santa Ana Creek, and the Robles Diversion Facility. The Robles Fish Passage Facility was constructed at the Robles Diversion in 2004 as a result of the listing of steelhead trout in the Endangered Species Act (ESA). A 2003 non-jeopardy Biological Opinion (BO) prepared by the National Marine Fisheries Service (NMFS) determines the conditions under which water can be diverted from the Ventura River to the Robles Canal (which feeds into Lake Casitas).




The Marion Walker Water Treatment Plant (MWWTP) at the base of Casitas Dam was constructed in 1995 and is a 65 million-gallon per day (mgd) facility utilizing pressure filtration to treat water before distribution in compliance with the State of California Surface Water Treatment Rule.

The Casitas System also includes the Mira Monte Well with a planned operational supply of 145 to 180 AFY. The well water is blended with surface water from Lake Casitas at a high ratio to ensure nitrate concentrations are below the maximum contaminant level.




**Casitas Municipal Water District
Jurisdictional Boundary**

Figure 3-1

Miles

0 1 2 4



City of Ventura, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management

Ojai Water System. Casitas acquired the Ojai Water System in 2017 from Golden State Water Company and completed a Condition Assessment and Master Plan in 2018.

The Ojai System obtains water from Ojai Basin groundwater and two interconnections supplying water from the Casitas System. The Ojai System acquisition included several groundwater wells, with some wells over 45 years old and in need of rehabilitation and replacement. The wells acquired by GSWC were unable to produce their original design capacity of 4,404 AFY and Ojai wellfield production from 1994 to 2016 averaged about 1,800 AFY. Since 2017, Casitas has made progress in improving the condition of the wells, although work is not yet complete.

The Ojai Basin is managed by the Ojai Basin Groundwater Management Agency (OBGMA). In May 2020 the OBGMA Well at Carne Road and Grand Avenue showed groundwater levels at 78 percent full (62,400 AF of stored water remaining) in the Ojai Basin².

3.2. Service Area Boundary Map

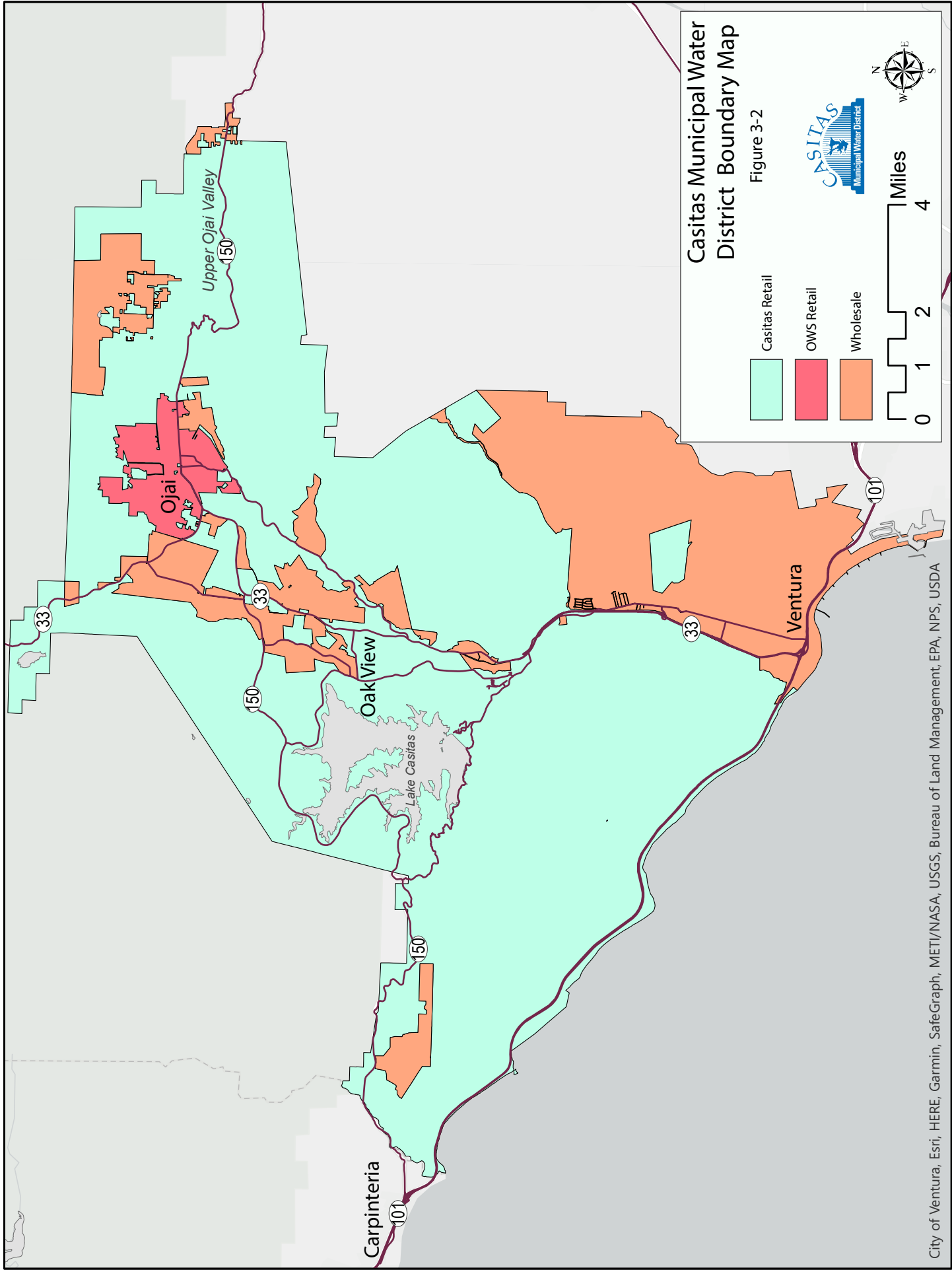
The following subsections show the specific boundaries of the Casitas wholesale system, Casitas retail system and Ojai Water System. Figure 3-2 shows each system's boundaries. Geographic Information System (GIS) files will be uploaded to the California Department of Water Resources (DWR) website when the 2020 UWMP is submitted.

Casitas Wholesale System. The wholesale system boundary was created using the service areas of Casitas' wholesale (resale) customers.

Casitas Retail System. The Casitas Retail System boundary was created by excluding the wholesale (resale) customers and the Ojai retail system.

Ojai Retail System. The Ojai retail system boundary map was created using the boundaries of the former Golden State Water Company.

² *Basin Conditions and Summer Planning*, Jordan Kear PG, CHG, 20 January 2021



Casitas Municipal Water District Boundary Map

Figure 3-2

- Casitas Retail
- OWS Retail
- Wholesale



3.3. Service Area Climate

The climate conditions for Casitas' entire service area are described in the following subsections. Casitas' service area includes micro-climates of coastal and inland areas. Casitas maintains a weather station at Soule Park Golf Course in Ojai. Precipitation and evaporation is also measured at Casitas Dam and the Lake Casitas Recreation Area. Data for the period 2010 to 2020 is evaluated herein.

Evapotranspiration. Average evapotranspiration by month was evaluated over the 2010-2020 period, and ranged from 1.69 inches in December to 7.48 inches in July, with an average monthly evapotranspiration of 4.26 inches. Total annual evapotranspiration over the period averaged 51.15 inches.

Temperature. Casitas service area experiences significant temperature variation over its terrain. Coastal areas are milder with less temperature fluctuation, while inland areas see a wider temperature swing. For the period of 2010 to 2020, the Soule Golf Course weather station in Ojai showed an average temperature of 37.5 degrees Fahrenheit (°F) in December and an average temperature of 92.0°F in July.

Precipitation. Similarly, annual precipitation varies throughout the service area. In Ojai for the previous ten years, the average monthly precipitation ranged from 0.0 inches in July to 3.89 inches in January. Total annual precipitation over the period averaged 14.91 inches.

At Casitas Dam, the minimum annual precipitation was 9.9 inches (2014) and maximum annual precipitation was 36.0 inches (2011). Total annual precipitation over the period averaged 19.0 inches.

Climate Change. A report titled *Projected Changes in Ventura County Climate* was prepared by the Desert Research Institute in 2019. The report was commissioned by Watersheds Coalition of Ventura County, of which Casitas is a member, and can be found on their website www.wcvc.ventura.org under Climate Resilience Resources. The projected climate change impacts for the Casitas service area include:

- Winters may get wetter with more short duration/high intensity precipitation due to atmospheric rivers, resulting in increased potential for flash flooding
- Shoulder seasons may have more dry days
- Potential increase in wildfire frequency due to spring/fall drying
- Increased drought susceptibility and increased water demand due to increasing temperatures and evapotranspiration rates
- Good agreement across models for increase in inland area temperatures between 3 – 5°F and coastal areas between 2 – 3°F
- More days exceeding extreme/impactful temperature thresholds

As with any climate modelling efforts, there is uncertainty. These potential impacts are the results of the best tools available at this time and are meaningful in their applicability to the service area and can support decision-making. Casitas will continue to participate in these modeling efforts going forward.

3.4. Service Area Population and Demographics

The service area populations of the Casitas wholesale, Casitas retail, and Ojai Water System are described in the following subsections. Demographics are discussed for the entire service area.

3.4.1. Service Area Population

The service area populations for the Casitas Wholesale System, Casitas Retail System and Ojai Water System are described in the following subsections. Census data for 2020 was not available at the time this 2020 UWMP was prepared. Population projections are described in more detail in each subsection. The total population served by Casitas in 2020 is estimated at 63,718 for the combined wholesale and retail systems.

Casitas Wholesale System. The wholesale system population shown in Table 3-1 Wholesale is based on 2010 Census data and estimates the 2020 population based on compound annual growth rates (CAGR) in the Ventura County 2040 General Plan, Chapter 2 – Demographics and Economics (adopted September 2020) for Unincorporated Ventura County, and City of Ventura General Plan (adopted 2005) CAGR for City of Ventura. The population projections from 2020 to 2040 are based on annual growth rates for Ventura County in the Southern California Association of Governments (SCAG) Demographics and Growth Forecast Technical Report adopted Sept 3, 2020.

Submittal Table 3-1 Wholesale: Population - Current and Projected, Casitas Wholesale					
Population Served	2020	2025	2030	2035	2040
	45,964	46,828	47,709	48,606	49,520

Casitas Retail System. The Casitas Retail System population is based on non-wholesale customers with a direct meter from Casitas and not located within the former Golden State Water Company (Ojai) water system. The 2020 population was estimated based on 2010 census data and customer connection ratios and extrapolated for 2020. The population projections from 2020 to 2040 are based on annual growth rates for unincorporated Ventura County in the SCAG Demographics and Growth Forecast Technical Report adopted Sept 3, 2020.

There are 14 customers who are served by both the Casitas and Ojai systems; they have two separate meters. The majority of their water use was from the Casitas system, so the population of these parcels was included in Table 3-1 Casitas Retail and calculations.

Submittal Table 3-1 Retail: Population – Current and Projected, Casitas Retail					
Population Served	2020	2025	2030	2035	2040
	11,042	11,101	11,161	11,221	11,281

Ojai Water System. The Ojai Water System is comprised of those customers formerly served by Golden State Water Company in Ojai. Population for 2020 was estimated based on 2010 census data and customer connection ratios and extrapolated for 2020. The population projections from 2020 to 2040 are based on annual growth rates for Ojai in the SCAG Demographics and Growth Forecast Technical Report adopted Sept 3, 2020. Table 3-1 Ojai Retail shows the population projections for this system.

Submittal Table 3-1 Retail: Population - Current and Projected, Ojai Retail					
Population Served	2020	2025	2030	2035	2040
		6,712	6,773	6,834	6,895

3.4.2. [Other Social, Economic and Demographic Factors](#)

Information on demographics throughout Casitas’ service areas is from *Ventura County 2040 General Plan, Chapter 2 Background Report – Demographics and Economics* (Background Report) (September 2020, County of Ventura). The Census-Designated Places (CDP) within the District’s service area are the communities of Oak View, Meiners Oaks, and Mira Monte.

Regarding employment, Oak View residents had the highest unemployment rate within the service area, at 9.5 percent in 2015. More recent data is not available.

Within Casitas’ overall service area there are several designated Disadvantaged Communities (DAC) and Severely Disadvantaged Communities per the State of California Department of Water Resources Disadvantaged Communities Mapping Tool. These are shown in Figure 3-3 and are based on tracts and census blocks from DWR’s 2018 data.

The economy of Casitas’ service area is generally based on oil and gas production, agriculture, and hospitality/tourism.

3.4.3. [Land Uses Within Service Area](#)

The County of Ventura adopted the 2040 General Plan in September 2020. Area Plans from the General Plan within Casitas’ area include the Coastal Area, North Ventura Avenue Area and Ojai Valley Area. The incorporated City of Ojai is entirely within Casitas boundaries. Portions of the City of Ventura on the west end are also in Casitas’ service area. Figure 3-4 shows land use designations overlain with District boundaries.

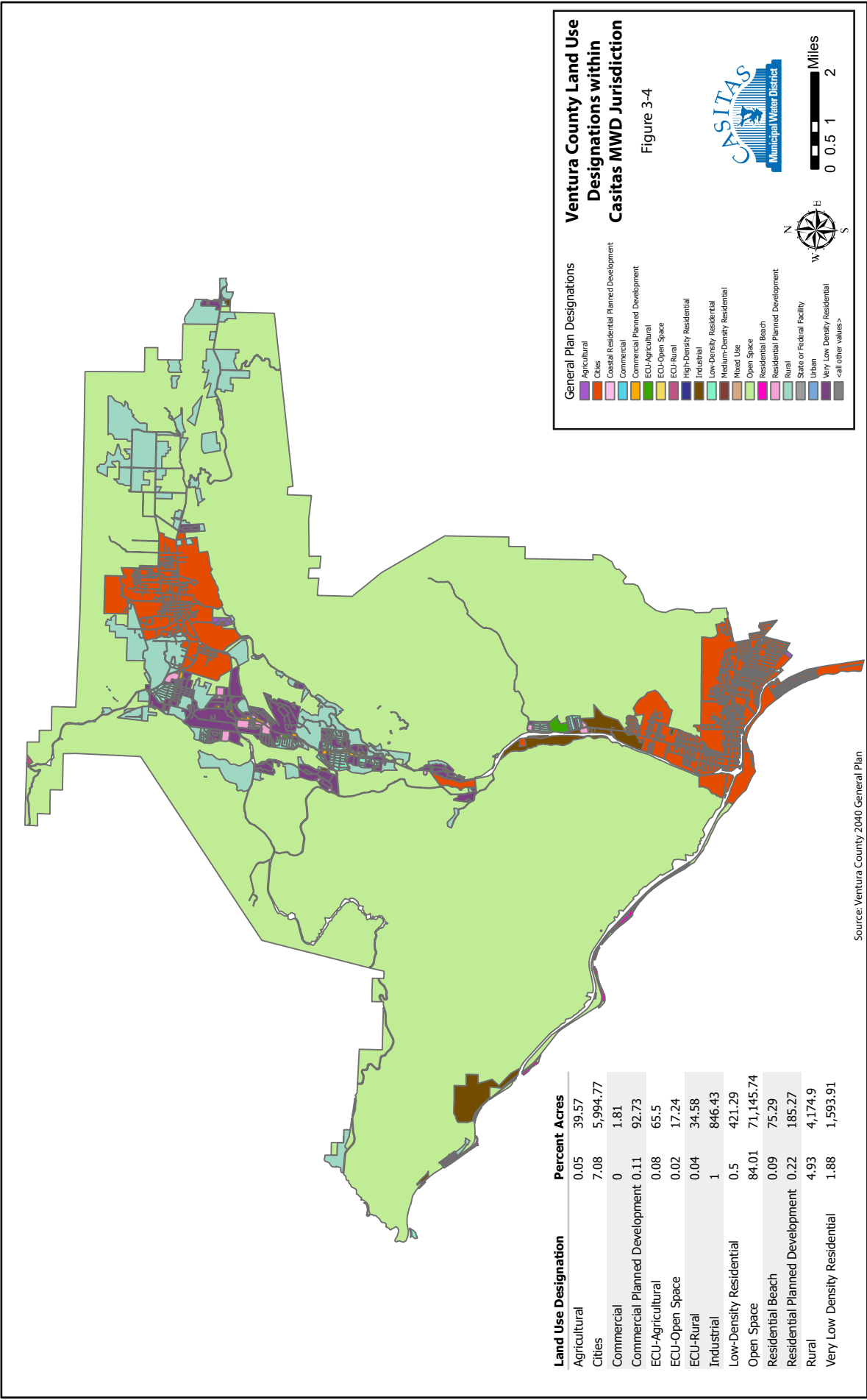
The following subsections provide more information on specific Areas.

Coastal Area (CA). The CA extends along the Pacific Coast from the Los Angeles County Line in the south to the Santa Barbara County Line in the north. Specifically, the North Coast is within Casitas’ service area and includes the communities of Rincon Point, La Conchita, Mussel Shoals, Seacliff, Faria, and Solimar.

There is also significant agriculture as well as oil wells and related facilities. Along the coast itself are recreational facilities including State and County campgrounds.

North Ventura Avenue Area (NVAA). The NVAA is located in the Ventura River Valley and is characterized by long-term oilfield and oil-related industries, as well as residential development. There are also numerous brownfield sites with potentially contaminated soils. Casitas serves a handful of retail customers in this area, but the NVAA is generally within the City of Ventura’s service area.





Ventura County Land Use Designations within Casitas MWD Jurisdiction

Figure 3-4

General Plan Designations

- Agricultural
- Cities
- Coastal Residential Planned Development
- Commercial
- Commercial Planned Development
- ECU-Agricultural
- ECU-Open Space
- ECU-Rural
- High-Density Residential
- Industrial
- Low-Density Residential
- Medium-Density Residential
- Mixed Use
- Open Space
- Residential Beach
- Residential Planned Development
- Rural
- State or Federal Facility
- Urban
- Very Low Density Residential
- <all other values>

Land Use Designation	Percent	Acres
Agricultural	0.05	39.57
Cities	7.08	5,994.77
Commercial	0	1.81
Commercial Planned Development	0.11	92.73
ECU-Agricultural	0.08	65.5
ECU-Open Space	0.02	17.24
ECU-Rural	0.04	34.58
Industrial	1	846.43
Low-Density Residential	0.5	421.29
Open Space	84.01	71,145.74
Residential Beach	0.09	75.29
Residential Planned Development	0.22	185.27
Rural	4.93	4,174.9
Very Low Density Residential	1.88	1,593.91

Source: Ventura County 2040 General Plan

Ojai Valley Area (OVA). The OVA is located in the northern section of the District’s service area and surrounds the City of Ojai. The area is considered very scenic and land uses are open space, agricultural, and rural. One of the goals of the OVA Plan is to preserve and protect the character of the area.

4. Water Use Characterization

Water usage for the wholesale and retail customers of Casitas is discussed in the following subsections.

4.1. Non-Potable Versus Potable Use

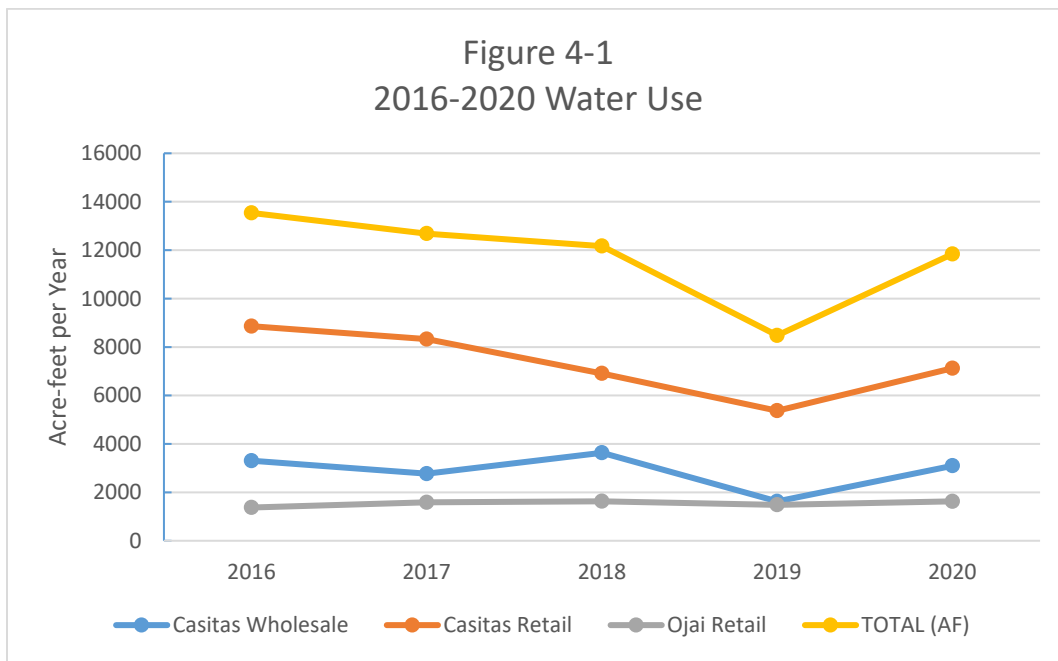
The District serves only potable water to its customers, both wholesale and retail.

4.2. Past, Current, and Projected Water Use By Sector

Past, current, and project water use by sector for Casitas wholesale, Casitas retail, and Ojai Water System retail are described in the following subsections.

4.2.1. Past Water Use

Since 2016, Casitas' service area for wholesale and retail customers, has generally decreased as shown in Figure 4-1, based on billed consumption data at customer meters. All Casitas customers have an assigned water allocation and they have responded to the ongoing drought in the service area by conserving water in a significant manner.



Casitas Wholesale System. Casitas supplies water to the resale customers listed in Section 2.6.1 and Table 2-4. Data is taken from the utility billing system.

Casitas Retail System. Demands for Casitas retail customers are obtained from the utility billing system.

Ojai Water System. Demands for Ojai Water System retail customers are obtained from the utility billing system.

4.2.2. Current Water Use

Current water use (2020) for Casitas wholesaler, Casitas retail and Ojai Water System is described in the following subsections.

Casitas Wholesale System. Table 4-1 Wholesale shows the Casitas wholesale demands. All water delivered is potable. Specific wholesale customers are listed in Table 2-4 Wholesale.

Submittal Table 4-1 Wholesale: Demands for Potable and Non-Potable Water - Actual			
Use Type	2020 Actual		
	Additional Description	Level of Treatment When Delivered	Volume
Sales to other agencies	Resale customers	Drinking Water	3,095
TOTAL			3,095
NOTES: Losses for Casitas' system cannot be separated between wholesale and retail; they are reported in Table 4-1 Casitas Retail and Table 4-1 Ojai Retail.			

Casitas Retail System. Table 4-1 Retail Demands for the Casitas System is shown below.

Submittal Table 4-1 Retail: Demands for Potable and Non-Potable Water – Actual, Casitas Retail			
Use Type	2020 Actual		
	Additional Description	Level of Treatment When Delivered	Volume
Single Family		Drinking Water	1,045
Multi-Family		Drinking Water	210
Commercial		Drinking Water	465
Industrial		Drinking Water	12
Institutional/Governmental		Drinking Water	134
Agricultural irrigation	Ag, Ag Domestic, Ag Domestic Multi	Drinking Water	5,116
Losses	See note below	Drinking Water	325
Other Potable	Other, Fire service, Temporary	Drinking Water	141
Other	Ojai Retail Demands	Drinking Water	369
TOTAL			7,817
NOTES: System losses are difficult to separate among the three systems (Casitas Wholesale, Casitas Retail, and Ojai Retail). Total losses are calculated using the AWWA Water Audit Software (v5) and apportioned to the Casitas Retail and Ojai Retail systems based on the proportional length of pipeline in each system (Casitas Retail 72% and Ojai Retail 28%).			

Ojai Water System. Table 4-1 Retail Demands for the Ojai Water System is shown below.

Submittal Table 4-1 Retail: Demands for Potable and Non-Potable Water – Actual, Ojai Retail			
Use Type	2020 Actual		
	Additional Description	Level of Treatment When Delivered	Volume
Single Family		Drinking Water	1,095
Multi-Family		Drinking Water	88
Commercial		Drinking Water	274
Industrial		Drinking Water	3
Institutional/Governmental		Drinking Water	0
Agricultural irrigation	Ag, Ag Domestic	Drinking Water	100
Losses	See note below	Drinking Water	126
Other	Other, Fire Service, Temporary	Drinking Water	65
TOTAL			1,751
NOTES: System losses are difficult to separate among the three systems (Casitas Wholesale, Casitas Retail, and Ojai Retail). Total losses are calculated using the AWWA Water Audit Software (v5) and apportioned to the Casitas Retail and Ojai Retail systems based on the proportional length of pipeline in each system (Casitas Retail 72% and Ojai Retail 28%).			

4.2.3. Projected Water Use

Demands for the period 2011 to 2020 averaged 14,525 AFY (including losses), which includes periods before and after implementation of the WEAP. On April 21, 2021, the Board adopted 14,525 AFY as the projected demand for the Casitas system to be used for planning purposes. The service area is not expected to see significant development which would cause this projected demand to increase.

Demands for the period 2011-2020 were averaged for each customer type and these percentages were used to develop the projected demands by customer class.

Casitas Wholesale System. For the period 2016 to 2020 (since the last UWMP was prepared), the wholesale customer use ranged from a low of approximately 1,626 AFY (2019) to a high of approximately 3,969 AFY (2016), with an average of 3,018 AFY.

Table 4-2 Casitas Wholesale shows the total projected water use to other agencies. These projections are based on the average demand from resale customers for the period 2011 to 2020, which is approximately 30 percent of total demand on the Casitas System.

Submittal Table 4-2 Wholesale: Use for Potable and Raw Water - Projected				
Use Type	Projected Water Use			
	2025	2030	2035	2040
Sales to other agencies	4,356	4,356	4,356	4,356
Transfers to other agencies	0	0	0	0
Exchanges to other agencies	0	0	0	0
Groundwater recharge	0	0	0	0
Saline water intrusion barrier	0	0	0	0
Agricultural irrigation	0	0	0	0
Wetlands or wildlife habitat	0	0	0	0
Retail demand for use by suppliers that are primarily wholesalers with a small volume of retail sales	0	0	0	0
Losses (see note)	0	0	0	0
Other Potable	0	0	0	0
Other Non-Potable	0	0	0	0
Other	0	0	0	0
TOTAL	4,356	4,356	4,356	4,356

NOTES: Losses are included in Table 4-2 Casitas retail and Table 4-2 Ojai Retail.

Table 4-3 shows a summary of Table 4-1 Wholesale, Table 4-2 Wholesale, and Table 6-4 Wholesale. The 2020 water use reflects mandatory conservation observed under the current Stage 3 condition.

Submittal Table 4-3 Wholesale: Total Water Use (Potable and Non-Potable)					
	2020	2025	2030	2035	2040
Potable and Raw Water <i>From Tables 4-1W and 4-2W</i>	3,095	4,356	4,356	4,356	4,356
Recycled Water Demand <i>From Table 6-4W</i>	0	0	0	0	0
TOTAL WATER DEMAND	3,095	4,356	4,356	4,356	4,356

Casitas Retail System. The projected demands by customer type for the Casitas Retail system were derived from the average percentage of demand for the period 2011 to 2020. There is little growth expected in the Casitas service area, so demands for planning purposes are not expected to increase. Table 4-2 Casitas Retail shows the projected demands in five-year increments from 2025 to 2040.

Submittal Table 4-2 Retail: Use for Potable and Non-Potable Water – Projected, Casitas Retail					
Use Type	Additional Description	Projected Water Use			
		2025	2030	2035	2040
Single Family		1,157	1,157	1,157	1,157
Multi-Family		202	202	202	202
Commercial		574	574	574	574
Industrial		23	23	23	23
Institutional/Governmental		101	101	101	101
Landscape		0	0	0	0
Groundwater recharge		0	0	0	0
Saline water intrusion barrier		0	0	0	0
Agricultural irrigation	Ag + Ag domestic + Ag domestic multi	6,496	6,496	6,496	6,496
Wetlands or wildlife habitat		0	0	0	0
Sales/Transfers/Exchanges to other agencies		0	0	0	0
Losses	See note below	954	954	954	954
Other Potable	Other + Fire service + Temporary	201	201	201	201
Other Non-Potable		0	0	0	0
Other	Ojai Retail Demands	461	461	461	461
TOTAL		10,169	10,169	10,169	10,169
NOTES: Loss is based on average percentage from 2011-2020					

Table 4-3 Casitas Retail summarizes the actual and projected demands from Table 4-1 Casitas Retail, Table 4-2 Ojai Retail and Table 6-4 Ojai Retail. The 2020 water use reflects mandatory conservation observed under the current Stage 3 condition.

Submittal Table 4-3 Retail: Total Gross Water Use (Potable and Non-Potable), Casitas Retail					
	2020	2025	2030	2035	2040
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	7,705	10,169	10,169	10,169	10,169
Recycled Water Demand <i>From Table 6-4</i>	0	0	0	0	0
TOTAL WATER USE	7,705	10,169	10,169	10,169	10,169

Ojai Water System. The projected demands by customer type for the Ojai Retail system were derived from the average percentage of demand for the period 2011 to 2020, as this is the data Casitas has available. There is little growth expected in the OWS service area, so demands for planning purposes are not expected to increase. Table 4-2 Ojai Retail shows the projected demands in five-year increments from 2025 to 2040.

Submittal Table 4-2 Retail: Use for Potable and Non-Potable Water – Projected, Ojai Retail					
Use Type	Additional Description	Projected Water Use <i>Report To the Extent that Records are Available</i>			
		2025	2030	2035	2040
Single Family		1,089	1,089	1,089	1,089
Multi-Family		95	95	95	95
Commercial		425	425	425	425
Industrial		2	2	2	2
Institutional/Governmental		21	21	21	21
Landscape		0	0	0	0
Groundwater recharge		0	0	0	0
Saline water intrusion barrier		0	0	0	0
Agricultural irrigation	Ag + Ag domestic + Ag Multi	38	38	38	38
Wetlands or wildlife habitat		0	0	0	0
Sales/Transfers/Exchanges to other agencies		0	0	0	0
Losses	See note below	130	130	130	130
Other Potable	Other + Fire service + Temporary	52	52	52	52
Other Non-Potable		0	0	0	0
Other		0	0	0	0
TOTAL		1,850	1,850	1,850	1,850
NOTES: Loss is based on average percentage from 2011-2020					

Table 4-3 Ojai Retail summarizes the actual and projected demands from Table 4-1 Ojai Retail, Table 4-2 Ojai Retail and Table 6-4 Ojai Retail. The 2020 water use reflects mandatory conservation observed under the current Stage 3 condition.

Submittal Table 4-3 Retail: Total Gross Water Use (Potable and Non-Potable), Ojai Retail					
	2020	2025	2030	2035	2040
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	1,751	1,850	1,850	1,850	1,850
Recycled Water Demand <i>From Table 6-4</i>	0	0	0	0	0
TOTAL WATER USE	1,751	1,850	1,850	1,850	1,850

4.2.4. Distribution System Loss

Casitas has completed water loss audits following the procedures outlined by AWWA to identify and quantify system losses. The submitted water audits for 2016 to 2020 are included as Appendix C.

System losses are difficult to separate among the three systems (Casitas Wholesale, Casitas Retail, and Ojai Retail). Water loss audits were submitted for the combined Casitas and Ojai systems. Losses are reported in the Casitas Retail and Ojai Retail systems based on the proportion of pipeline in each system (Casitas Retail 72 percent and Ojai Retail 28 percent), with the exception of 2016 which is 100 percent Casitas Retail as the Ojai system was acquired in June 2017.

As of May 2021, the State Water Resources Control Board has not adopted standards for water loss targets.

Casitas Wholesale System. Losses are only reported for Casitas Retail and Ojai Retail as discussed in the previous section.

Casitas Retail System. Table 4-4 Casitas Retail shows the proportional system loss for the Casitas Retail system.

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting, Casitas Retail	
Reporting Period Start Date)	Volume of Water Loss ¹
01/2016	1,288
01/2017	891
01/2018	724
01/2019	609
01/2020	325
¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.	
NOTES: Losses are shown proportional to pipeline length of Casitas Retail (72%) and Ojai Retail (28%). For 2016, 100% is Casitas Retail as the Ojai System was acquired in 2017.	

Ojai Water System. Table 4-4 Ojai Retail shows the proportional system loss for the Ojai Retail system.

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting , Ojai Retail

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ¹
01/2016	unknown
01/2017	347
01/2018	281
01/2019	237
01/2020	126

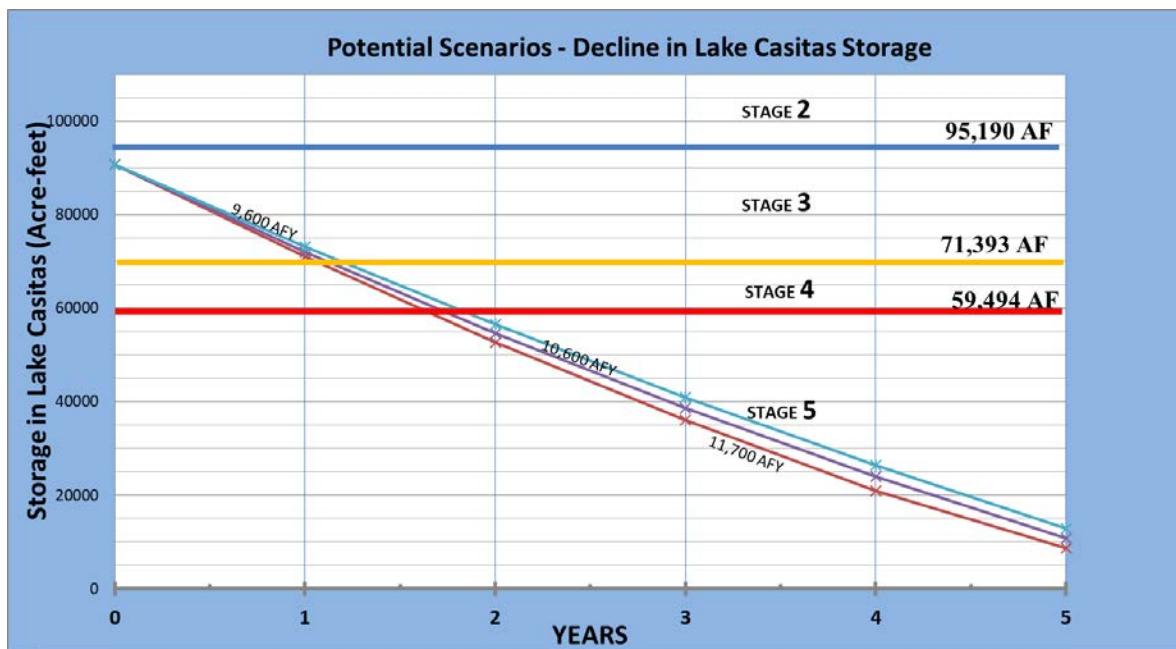
¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.

NOTES: Losses are shown proportional to pipeline length of Casitas Retail (72%) and Ojai Retail (28%). Casitas did not own the Ojai System in 2016 and does not have information available.

4.2.5. Characteristic Five-Year Water Use

Casitas declared Stage 3 of the Water Efficiency and Allocation Plan (WEAP) in June 2016 when Lake Casitas dropped below 100,000 AF in storage. Casitas remains in Stage 3. Annually, Casitas prepares a Water Supply Assessment which includes an evaluation of water supplies, demands, and effectiveness of water conservation measures over the previous fiscal year, and projects Lake Casitas levels under potential demand scenarios. Figure 4-2 shows the potential lake levels over the next five years with various demand projections. These scenarios assume no runoff additions to storage, and apply evaporation rate from 2013. Based on these projections, Casitas may enter Stage 4 of the WEAP in 12 to 14 months, and Stage 5 in 18 to 24 months. Casitas expects to revise its WEAP in the next year and will re-assess these projections in Spring 2022.

Figure 4-2



The FY 2021-2022 Casitas Water Supply and Demand Assessment is provided in Appendix D. Projected five-year supplies and demands are discussed further in Section 7.

4.3. Water Use for Lower Income Households

The projected water use demand for lower income households is included in the projections in Section 4.2.3 and Tables 4-3. This table applies to both the Casitas and Ojai Retail systems.

Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections, Casitas and Ojai Retail Systems	
Are Future Water Savings Included in Projections?	Yes
If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, etc. utilized in demand projections are found.	Section 4.2.3
Are Lower Income Residential Demands Included In Projections?	Yes
NOTES: Casitas Retail and Ojai Retail Systems	

4.4. Climate Change Considerations

Since Casitas relies on local surface water and groundwater supplies, the impacts of climate change are magnified when rainfall is scarce or limited. The *Projected Changes in Ventura County Climate* report described in Section 3.3 highlights climatological factors which may lead to higher water demands than projected, including: more days exceeding extreme/impactful temperature thresholds; more dry days during shoulder months; and increased evapotranspiration rates. Declining lake storage level may trigger implementation of more severe water conservation stages as defined in the WEAP.

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5. SB X7-7 Baselines, Targets, and 2020 Compliance

With the adoption of the Water Conservation Act of 2009 (Act, also known as SB X7-7) the State of California is required to reduce urban per capita water use by 20 percent by the year 2020. In order to achieve this statewide objective, the Legislature required each retail supplier subject to the Act to develop an urban water use target to help the state collectively achieve a 20 percent reduction. The Legislature stated that the cumulative results of each retail supplier's reduction would meet the statewide legislative requirements.

Though wholesale agencies do not set per capita water use targets, wholesale agencies do play a role in water conservation and support retail agencies in achieving their demand targets. Wholesale agencies are guided by the California Water Code, CWC 10608.36, to document the programs and means by which they support retail agencies and the State in meeting water use reduction targets. These programs are described in Chapter 9.

Casitas has selected to report baselines, targets, and compliance separately for each of its retail systems. The methodology herein adheres to the California DWR "*Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use (For the Consistent Implementation of the Water Conservation Act of 2009)*" dated February 2016. Casitas has completed the SB X7-7 Verification Form, attached as Appendix E, and summarized in this chapter.

5.1. Wholesale Suppliers

Casitas Wholesale System. For the wholesale system, Casitas is not required to calculate baselines, targets, or compliance levels. Casitas' programs and policies to assist their wholesale customers achieve their 2020 Targets are described in Section 9.

5.2. SB X7-7 Baselines, Targets, and 2020 Compliance

The following subsections describes SB X7-7 compliance for the Casitas Retail and Ojai Retail systems. SB X7-7 Compliance and Verification forms are included in Appendix E.

5.2.1. [SB X7-7 Verification Form \(Baselines and Targets\)](#)

The Water Conservation Act of 2009 requires two baseline periods be evaluated for the calculation of base daily per capita water use. The two baseline periods utilized are described as follows:

- 5-year baseline period, which is used to determine whether the 2020 per capita water use target meets the legislation's minimum 5 percent reduction
- 10 year baseline period

Casitas Retail System. Casitas first reported its Baseline Per Capita Water Use and Targets in the 2010 UWMP which was prepared prior to release of 2010 Census data. The baseline use and targets herein were updated based on the DWR population tool using 2000 and 2010 Census data. The updated baseline per capita water use is presented in Table 5-0 Casitas Retail System, which shows a water use of 369 gallons per capita per day (gpcd) for the baseline 10-year average, and 355 gpcd for the 5-year average.

Table 5-0. Baseline Average Daily Per Capita Water Use, Casitas Retail System

Base Year	Population	Water Produced ¹	Resale Water Use	Agricultural Water Use	Gross Urban Retail Water Use ²	Urban Retail Per Capita Water Use	10-Year Average ³	5-Year Average ⁴
		AFY	AFY	AFY	AFY	GPCD	GPCD	GPCD
1999	11,381	20,121	7,528	7,529	5,064	397		
2000	11,349	21,588	7,054	7,611	6,923	545		
2001	11,317	17,879	6,951	5,957	4,971	392		
2002	11,285	22,116	8,822	8,718	4,576	362		
2003	11,253	16,809	6,119	7,139	3,550	282		
2004	11,221	20,477	9,214	8,033	3,230	257		
2005	11,190	17,778	7,679	6,036	4,063	324		
2006	11,158	17,457	6,267	6,917	4,273	342		
2007	11,126	21,598	8,150	8,646	4,802	385		318
2008	11,094	18,471	6,307	7,144	5,020	404	369	342
2009	11,062	17,259	6,277	6,996	3,986	322	361	355
2010	11,030	14,767	6,276	4,800	3,690	299	337	350

NOTES: This table is not a DWR-required table for 2020 UWMPs.

¹ Based on Calendar Year production from Marion Walker Water Treatment Plant and Mira Monte well.

² Gross Urban Retail Use = Water Produced – Resale Use – Agricultural Use

³ 10-year base period must end no earlier than December 31, 2004 and no later than December 31, 2010

⁴ 5-year base period must end no earlier than December 31, 2007 and no later than December 31, 2010

Casitas selected Method 1 for establishing 2020 water use targets for the Casitas retail system, which is based on 80 percent of the 10-year baseline gpcd water use. In addition, systems with a 5-year baseline per capita water use of greater than 100 gpcd must calculate a minimum water use reduction target.

The Casitas Retail system baselines and targets are summarized in Table 5-1 Casitas Retail System. The 10-year baseline average daily per capita water use was 369 gpcd. Therefore, the 2020 target water use is 295 gpcd. The 5-year average baseline daily per capita water use was 355 gpcd, resulting in a minimum water use reduction target of 338 gpcd by 2020. The confirmed target is 295 gpcd.

Submittal Table 5-1 Baselines and Targets Summary, Casitas Retail System				
Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target*
10 year	1999	2008	369	295
5 Year	2005	2009	355	
*All values are in Gallons per Capita per Day (GPCD)				

Ojai Water System. The Ojai Retail system was acquired in 2017 from Golden State Water Company. Golden State Water Company did not prepare a 2015 UWMP. Similar to the Casitas Retail system, the baseline and targets have been updated based on the DWR population tool using 2000 and 2010 Census data. The updated baseline per capita water use for the Ojai system is shown in Table 5-0 Ojai Retail System, which presents water use of 322 gpcd for the baseline 10-year average, and 316 gpcd for the 5-year average.

Base Year	Population	Water Produced ¹ AFY	Urban Retail Per Capita Water Use GPCD	10-Year Average GPCD	5-Year Average GPCD
1999	7,053	2,552	323		
2000	7,023	2,631	334		
2001	6,993	2,462	314		
2002	6,962	2,760	354		
2003	6,932	2,442	314		
2004	6,902	2,488	322		
2005	6,872	2,239	291		
2006	6,841	2,314	302		
2007	6,811	2,649	347		315
2008	6,781	2,400	316	322	316
2009	6,750	2,328	308	320	313
2010	6,720	2,007	267	314	308

NOTES: This table is not a DWR-required table for 2020 UWMP.
¹ Based on Ojai Groundwater Wells production and deliveries from the Casitas System.

For the Ojai system, Casitas selected Method 1 for establishing 2020 water use targets, which is based on 80 percent of the 10-year baseline gpcd water use. In addition, systems with a 5-year baseline per capita water use of greater than 100 gpcd must calculate a minimum water use reduction target.

The Ojai Retail system baselines and targets are summarized in Table 5-1. The 10-year baseline average daily per capita water use was 322 gpcd. Therefore, the 2020 target water use is 257 gpcd. The 5-year average baseline daily per capita water use was 316 gpcd, resulting in a minimum water use reduction target of 300 gpcd by 2020. The confirmed target is 257 gpcd.

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target*
10 year	1999	2008	322	257
5 Year	2004	2008	316	

*All values are in Gallons per Capita per Day (GPCD)

5.2.2. [SB X7-7 2020 Compliance Form](#)

Casitas Retail System. The Casitas Retail system is in compliance with the 2020 target, with an actual 2020 water use of 195 gpcd as shown in Table 5-2 Casitas Retail. DWR has allowed for optional adjustments to the 2020 GPCD, including extraordinary events, economic adjustments, and weather normalization. Casitas did not make any adjustments to the 2020 GPCD, since compliance was achieved without these factors.

Submittal Table 5-2: 2020 Compliance From SB X7-7 2020 Compliance Form, Casitas Retail System				
2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
195	0	195	295	Yes
*All cells in this table populated manually from the supplier's SB X7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)				

Ojai Water System. The Ojai Retail system is in compliance with the 2020 target, with an actual 2020 water use of 209 gpcd as shown in Table 5-2 Ojai Retail. DWR has allowed for optional adjustments to the 2020 GPCD, including extraordinary events, economic adjustments, and weather normalization. Casitas did not make any adjustments to the 2020 GPCD, since compliance was achieved without these factors.

Submittal Table 5-2: 2020 Compliance From SB X7-7 2020 Compliance Form, Ojai Retail				
2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
209	0	209	257	Yes
*All cells in this table populated manually from the supplier's SB X7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)				

5.2.3. [Regional UWMP/Regional Alliance](#)

This section is not applicable to Casitas.

5.3. Baseline and Target Calculations for 2020 UWMPs

The following subsections describe additional DWR requested information related to baseline and target calculations for 2020 UWMPs.

5.3.1. Supplier Submitted 2015 UWMP, No Change to Service Area

Casitas submitted a 2015 UWMP but did not submit the SB X7-7 Verification Forms for baselines and targets, likely because the Casitas retail system did not meet the criteria of more than 3,000 customers or 3,000 AFY for retail municipal use in 2015.³

In 2017, Casitas acquired the Ojai Water System which is a retail system. Previously the OWS was served by Golden State Water Company who was a wholesale customer of Casitas. Casitas' overall service area did not change, but the retail service area now incorporates the Ojai System. The GSWC did not prepare a 2015 UWMP and did not submit the SB X7-7 Verification Forms, also likely because the Ojai system does not meet the criteria of more than 3,000 customers or 3,000 AFY for municipal use.

Since Casitas' combined retail areas now meet the criteria, the SB X7-7 Verification Forms for baselines and targets were prepared for each system and submitted as part of the 2020 UWMP. Since the Casitas retail system and the Ojai system have separate PWS numbers, the baselines and targets are reported separately.

5.3.2. Supplier Did Not Submit 2015 UWMP

This section does not apply to Casitas.

5.3.3. Supplier Newly Subject to UWMP Requirements

The Casitas Retail and Ojai Retail systems did not become subject to the SB X7-7 requirements until 2017. The SB X7-7 Verification Forms for baselines and targets were prepared for each system and submitted as part of the 2020 UWMP.

5.3.4. Distribution Area Expansion

The Casitas distribution area expanded due to the acquisition of the Golden State Water Company's Ojai Water System. The Ojai Water System has a separate PWS number and is reported separately herein.

5.3.5. Distribution Area Contraction

This section is not applicable to Casitas Retail or Ojai Retail systems.

5.3.6. Large Partial Customers Become Whole Customers

This section is not applicable to Casitas Retail or Ojai Retail systems.

5.4. Methods for Calculating Population and Gross Water Use

Population and gross water use are described in the following subsections.

5.4.1. Service Area Population

To calculate the baseline per capita water use, population within the retail service area boundaries of the Casitas Retail and Ojai Retail systems was estimated using the DWR Population Tool, which uses 2000 and 2010 United States Census populations. The remaining years prior to 2000 were interpolated based on the linear trend between 2000 and 2010 population data.

The 2020 population was estimated using the "persons-per-connection" method and 2010 Census populations. The ratio of population to number of connections in 2010 was applied to the number of connections in 2020 to estimate the 2020 population.

³ Adopted Final Urban Water Management Plan and Agricultural Management Plan 2016 Update, dated June 2016.

5.4.2. Gross Water Use

Casitas Retail System. The calculations of 2020 per capita water use are presented in Table 5-3 Casitas Retail System 2020 Per Capita Water Use Compliance. The 2020 urban retail per capita use was 195 gpcd which achieves and exceeds the target reduction of 295 gpcd.

Table 5-3. Casitas Retail System 2020 Per Capita Water Use Compliance							
Compliance Year	Population	Water Produced ¹ AFY	Resale Water Use AFY	Agricultural Water Use AFY	Gross Urban Retail Water Use ² AFY	Actual 2020 Urban Retail Per Capita Water Use GPCD	2020 Target Reduction Achieved?
2020	11,042	10,626	3,095	5,115	2,416	195	Yes
NOTES: This table is <u>not</u> a DWR-required table for 2020 UWMPs. Table format based on DWR Guidebook Table 5-2. ¹ Based on Calendar Year production from Marion Walker Treatment Plant and Mira Monte well. ² Gross Urban Retail Use = Water Produced – Resale Use – Agricultural Use							

Ojai Water System. The calculations of 2020 per capita water use are presented in Table 5-3 Ojai Retail System 2020 Per Capita Water Use Compliance. The 2020 urban retail per capita use was 209 gpcd which achieves and exceeds the target reduction of 257 gpcd.

Table 5-3. Ojai Retail System 2020 Per Capita Water Use Compliance						
Compliance Year	Population	Water Produced ¹ , AFY	Agricultural Water Use AFY	Gross Urban Retail Water Use ² AFY	Actual 2020 Urban Retail Per Capita Water Use, GPCD	2020 Target Reduction Achieved?
2020	6,712	1,669	100	1,569	209	Yes
NOTES: This table is <u>not</u> a DWR-required table for 2020 UWMPs. Table format based on DWR Guidebook Table 5-2. ¹ Based on Ojai Groundwater Wells production and deliveries from the Casitas System. ² Gross Urban Retail Water Use = Water Produced – Agricultural Use						

5.5. 2020 Compliance Daily Per-Capita Water Use (GPCD)

This section describes special factors which may affect 2020 compliance. DWR has allowed for optional adjustments to the 2020 GPCD, including extraordinary events, economic adjustments, and weather normalization. Casitas did not make any adjustments to the 2020 GPCD, since compliance was achieved without these factors.

5.5.1. 2020 Adjustments for Factors Outside Supplier’s Control

Casitas Retail System. No adjustments were made.

Ojai Water System. No adjustments were made.

5.5.2. Special Situations

Casitas Retail System. No adjustments to Casitas Retail System are included.

Ojai Water System. No adjustments to Ojai Water System are included.

5.5.3. If Supplier Does Not Meet 2020 Target

This section does not apply as both the Casitas Retail and Ojai Retail systems met the 2020 Target.

5.6. Regional Alliance

This section is not applicable to Casitas.

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6. Water Supply Characterization

This section describes Casitas' water supply and its characteristics.

6.1. Water Supply Analysis Overview

Casitas' water supplies are 100 percent local, consisting of groundwater wells and surface water stored in Lake Casitas. The following subsections provide more information.

6.2. Narrative Sections for Supplier's UWMP Water Supply Characterization

Figure 6-1 shows a representation of Casitas' supply sources. Current water supply sources include:

- Surface water into Lake Casitas from the surrounding watershed including Coyote Creek and Santa Ana Creek
- Surface water from the Ventura River to Lake Casitas via Robles Diversion and Robles Canal; the diversion is subject to the requirements of the 2003 non-jeopardy Biological Opinion for steelhead trout issued by the National Marine Fisheries Service)
- Groundwater from the Mira Monte Well in the Upper Ventura River Groundwater Basin
- Groundwater from the Ojai Wellfield in the Ojai Groundwater Basin

The following subsections describe the water supplies for the Casitas System (wholesale and retail), as well as the Ojai Water System.

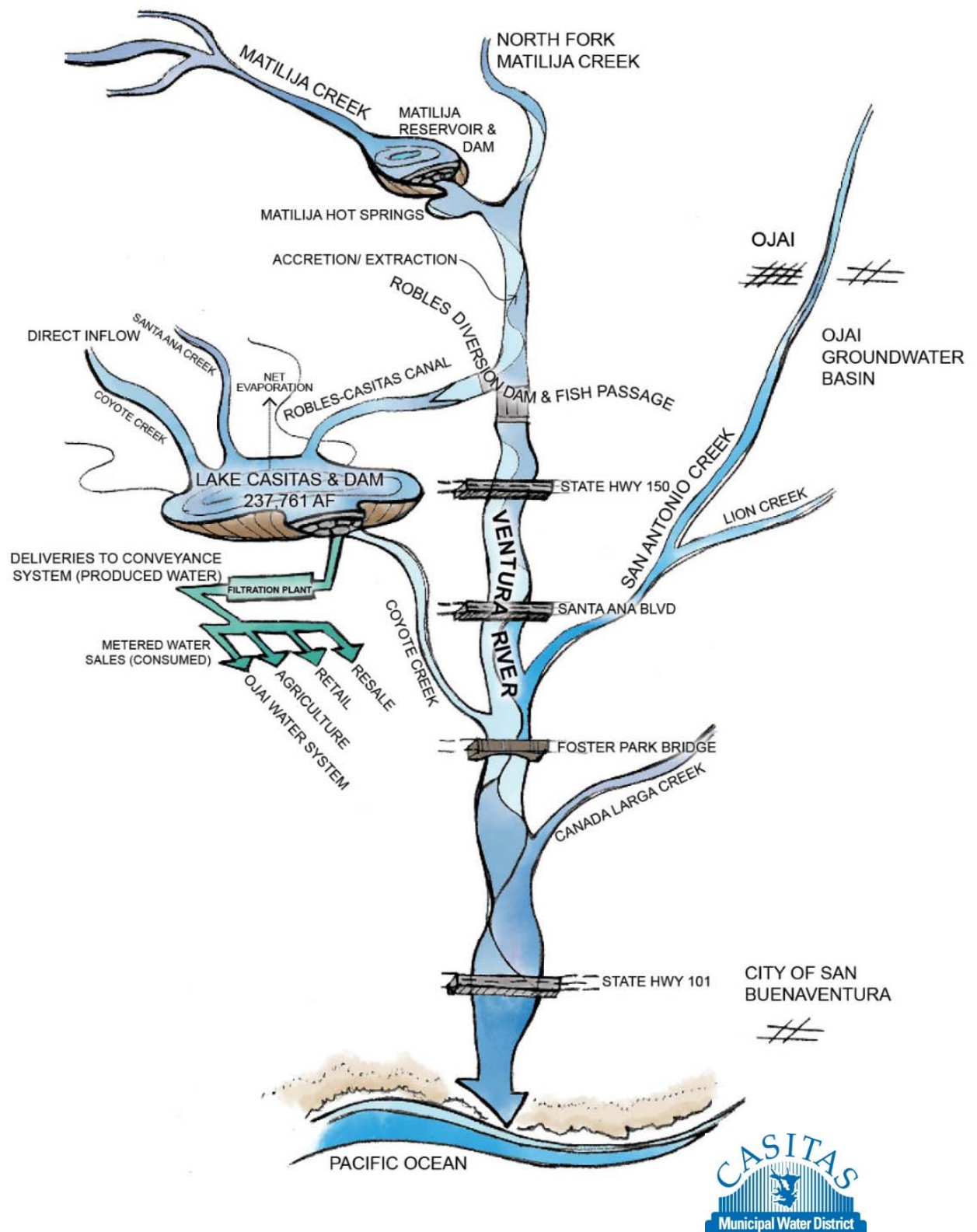


Figure 6-1
Supply Sources Illustration

6.2.1. Purchased or Imported Water

While Casitas' water has historically come from local supplies, Casitas has contracted and paid the fixed contractual costs for the full allocation of 5,000 AFY of imported water from the State Water Project. The contracted amount of up to 5,000 AFY is referred to as "Table A" water, which is a table in the contract referring to the maximum amount to be delivered. Imported water from the SWP has not been supplied to Casitas due to lack of local infrastructure to deliver the water.

Planned, constructed, and operated by DWR, the SWP is one of the world's largest water, power, and conveyance systems. The SWP relies on a delivery system of reservoirs, aqueducts, power plants, and pumping plants that allow the movement of water from northern to southern CA and the ability to exchange and transfer water with SWP contractors throughout the state. The SWP primary delivery facilities are shown in Figure 6-2. More information on the SWP and its facilities can be found at: <https://water.ca.gov/Programs/State-Water-Project>.

In 1963, the Ventura County Flood Control District (VCFCD, now the Ventura County Watershed Protection District), contracted with the State of California for 20,000 AFY of water from the SWP. In 1971, the VCFCD assigned the administration of the Water Supply Contract to Casitas. Casitas' contractual share is 5,000 AFY, the City of Ventura has 10,000 AFY, and United Water Conservation District (UWCD) has 5,000 AFY. UWCD can access SWP through Lake Piru (via Pyramid Lake and Piru Creek), although local infrastructure is not in place to deliver the contractual share to Casitas and the City of Ventura. Infrastructure options are currently under design as discussed in Section 6.2.8 Future Water Projects.

While Casitas' SWP Table A entitlement is 5,000 AFY, this level of reliability is not expected from the State Water Project. DWR prepares a biennial report to assist SWP contractors and local planners in assessing the availability of supplies from the SWP. In August 2020, DWR issued its most recent update, the *2019 DWR State Water Project Delivery Capability Report* (DCR). The 2019 DCR includes DWR's estimates of SWP water supply availability under both existing (2020) and future (2040) conditions. According to the DCP, the long-term average delivery under existing conditions is 58 percent of Table A, and long-term average delivery under future conditions is 52 percent of Table A (2019 CDR, Appendix A Table A-1 and Appendix B Table B-3). For Casitas, this would result in a long-term average yield of 2,900 AFY under existing conditions and 2,600 AFY under future conditions.

DWR's estimates of SWP deliveries are based on a computer model that simulates monthly operations of the SWP and Central Valley Project systems. In the existing conditions model scenario, DWR applied the existing facilities; hydrologic inflows to the model based on 82 years of historical inflows (1922–2003); current regulatory and operational constraints, including 2018 Coordinated Operation Amendment, 2019 biological opinions, and 2020 Incidental Take Permit; and contractor demand at maximum Table A Amounts. The future condition study used all of the same model assumptions as the existing conditions study but reflected changes expected to occur from climate change — specifically, projected temperature and precipitation changes centered around 2035 (2020–2049) and a 45-centimeter sea-level rise.



Figure 6-2 SWP Delivery Facilities

(Source: DWR Bulletin 132, 2015)

Casitas Wholesale and Retail System. Casitas has maintained an entitlement of 5,000 AFY of SWP water; there is no infrastructure in place, however, to allow this water into Casitas’ service area.

Ojai System. Similar to the Casitas System, there is no local infrastructure currently in place to deliver imported water supply to the Ojai Water System.

6.2.2. Groundwater

Three groundwater basins are within the Casitas service area: 1) Upper Ventura River Groundwater Basin, 2) Lower Ventura River Groundwater Basin and 3) Ojai Basin. Figure 6-3 shows the boundaries of these basins. The following subsections describe each basin and current issues associated with each.

6.2.2.1. *Basin Description – Upper Ventura River Groundwater Basin*

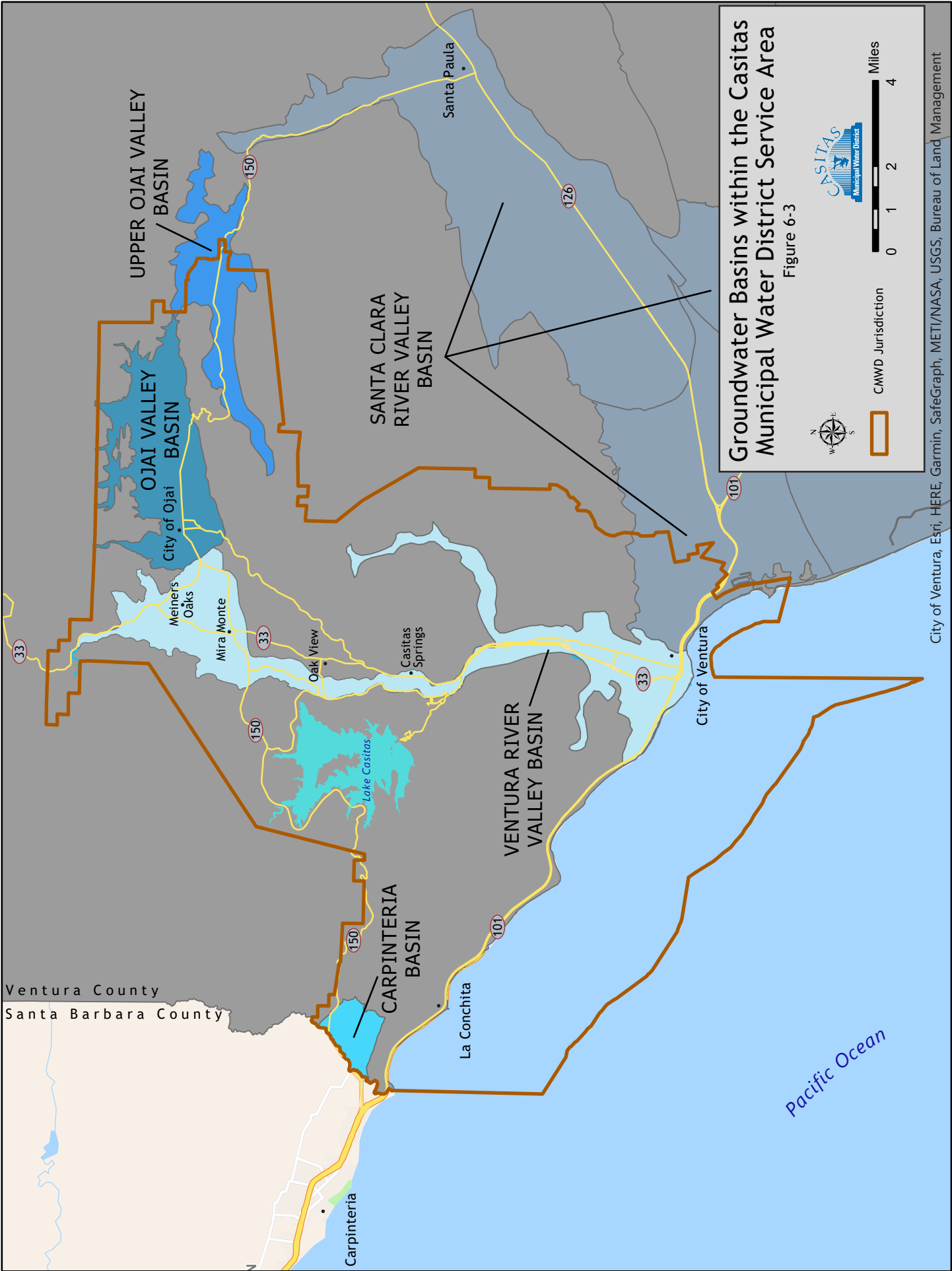
The Upper Ventura River Groundwater Basin (UVRGB) is managed by the Upper Ventura River Groundwater Agency (UVRGA). Casitas’ Robles Diversion Facility and Mira Monte Well are located within the boundaries of this watershed. The UVRGB is the largest of the groundwater basins in the Ventura River watershed. All water in the watershed is local precipitation; there are no outside or imported water sources. Similar to the overall Ventura River watershed, precipitation in the UVRGB is extremely variable.

In compliance with the Sustainable Groundwater Management Act (SGMA), the UVRGA is preparing their Groundwater Sustainability Plan (GSP) with a draft GSP scheduled for release in July 2021. Sections of the Draft GSP are available on the UVRGA website at www.uvrgroundwater.org.

Casitas Wholesale and Retail System. Casitas’ Mira Monte Well has a capacity of 300 AFY although pumping is limited due to the groundwater having high nitrate levels. Casitas blends this water with Lake Casitas to achieve water quality that is well within regulatory standards for drinking water, and the planned operational yield is 145 to 180 AFY on average.

Groundwater pumped from the Mira Monte Well enters Casitas System (Wholesale and Retail). Based on average demands from 2011 to 2020, 30 percent of water use in the Casitas system is from wholesale customers and 70 percent is from retail customers. Mira Monte Well production has been portioned out to each system based on this average. Table 6-1 Casitas Wholesale and Table 6-1 Casitas Retail show the groundwater pumped from the Mira Monte Well for the period 2016 to 2020.

Submittal Table 6-1 Wholesale: Groundwater Volume Pumped, Casitas Wholesale						
<input type="checkbox"/>	Supplier does not pump groundwater. The supplier will not complete the table below.					
<input type="checkbox"/>	All or part of the groundwater described below is desalinated.					
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Upper Ventura River	11	48	45	37	54
TOTAL		11	48	45	37	54
NOTES: Mira Monte Well						



Groundwater Basins within the Casitas Municipal Water District Service Area

Figure 6-3



Submittal Table 6-1 Retail: Groundwater Volume Pumped, Casitas Retail						
<input type="checkbox"/>	Supplier does not pump groundwater. The supplier will not complete the table below.					
<input type="checkbox"/>	All or part of the groundwater described below is desalinated.					
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Upper Ventura River	24	111	106	87	125
TOTAL						
NOTES: Mira Monte Well						

6.2.2.2. Basin Description – Lower Ventura River Groundwater Basin

While Casitas’ service area includes the Lower Ventura River Groundwater Basin, Casitas does not have any groundwater wells in this basin.

6.2.2.3. Basin Description – Ojai Basin

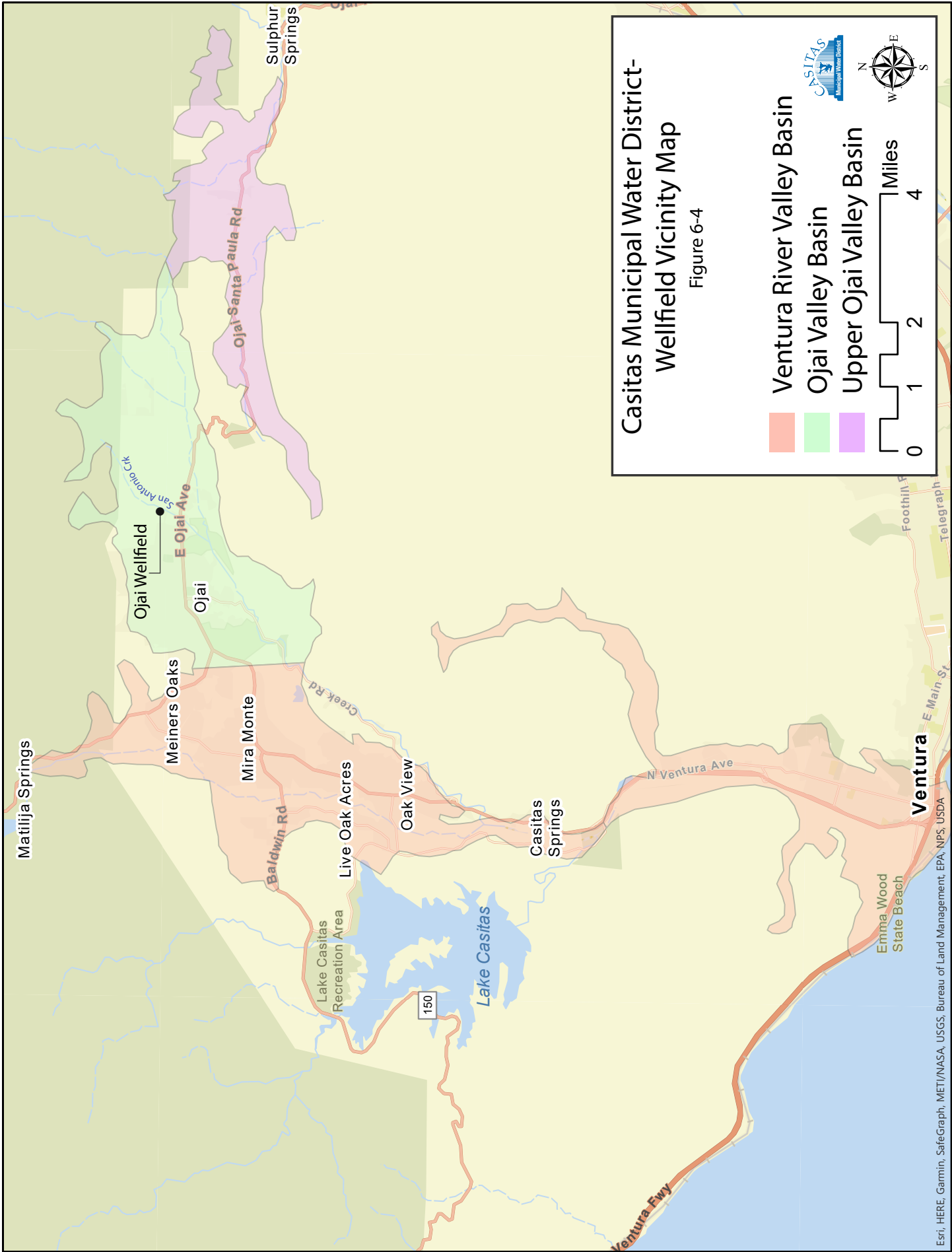
The Ojai Basin is a relatively deep, bowl-shaped basin bounded on the west and east by non-water-bearing Tertiary aged rocks, on the south by the Santa Ana fault and Black Mountain, and on the north by the Topa Topa Mountains⁴.

The Ojai Basin is managed by the OBGMA which was established in 1991 by State legislation. The OBGMA monitors, records, and reports groundwater conditions of the Ojai Valley Basin. According to the OBGMA website, approximately 60 percent of groundwater use within the basin is for agricultural demand and 40 percent is for ‘urban’ demand.

The OBGMA typically publishes an annual report each water year to describe the basin status. The most recent report was for the 2017/18 water year. OBGMA has not prepared a subsequent annual report as the agency is currently preparing a Sustainable Groundwater Management Plan in compliance with the SGMA enacted in 2014. The most recent Groundwater Management Plan is dated 2018 and can be found on the OBGMA website www.obgma.org.

Casitas’ groundwater wells for the OWS are located on the east and west sides of San Antonio Creek on the south side of Grand Avenue. Figure 6-4 shows the wellfield location. The east side is referred to as the San Antonio Wellfield and the west side is referred to as the Mutual Wellfield. The San Antonio Wellfield has three active wells. The Mutual Wellfield has two active wells. A new replacement well was drilled at the Mutual Wellfield in 2020 but has not yet been connected to the system. The well equipping is anticipated to occur in 2022. All pumped water is treated at the onsite iron and manganese treatment plant and meets state and federal drinking water requirements. Table 6-1 Ojai Retail shows the groundwater pumped from 2016 to 2020.

⁴ <http://obgma.com/the-ojai-valley-basin/>



**Casitas Municipal Water District-
Wellfield Vicinity Map**
Figure 6-4

- Ventura River Valley Basin
- Ojai Valley Basin
- Upper Ojai Valley Basin

0 1 2 4 Miles

N
W E
S

Esri, HERE, Garmin, SafeGraph, MET/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA

Submittal Table 6-1 Retail: Groundwater Volume Pumped, Ojai Retail						
<input type="checkbox"/>	Supplier does not pump groundwater. The supplier will not complete the table below.					
<input type="checkbox"/>	All or part of the groundwater described below is desalinated.					
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Ojai Basin	944	1,381	1,378	1,548	1,300
TOTAL		944	1,381	1,378	1,548	1,300

6.2.3. Surface Water

The Ventura River Project is the primary surface water supply and consists of Casitas Dam and Reservoir (Lake Casitas), the Robles Diversion and Fish Passage Facility on the Ventura River, Robles Canal, and the water distribution system that consist of pipelines, pump plants, storage tanks and chlorination stations. Construction of the original facility was completed in 1959 and the Fish Passage Facility was constructed in 2004.

The Ventura River Project is a federal facility owned by the United States of America. Under a repayment Contract with the USBR, Casitas was assigned the responsibilities for the operation and maintenance of the Ventura River Project and the perpetual right to use all water that becomes available through the construction and operation of the Project, subject to the satisfaction of vested rights.

Casitas maintains Licenses 11834 and 10133 for Diversion and Use of Water permitted by the State Water Resources Control Board (Casitas Licenses). Under the Casitas License 11834, Casitas may divert up to 107,800 AFY from the Ventura River and other tributaries into Lake Casitas and may put up to 28,500 AFY to beneficial use; and under Casitas License 10133, Casitas may withdraw up to 4,570 AFY diverted at Matilija Dam and re-diverted at Robles Diversion and Fish Passage Facility.

The Robles Diversion is located to the northwest of the City of Ojai, and supplies water via the Robles Canal to Lake Casitas. In 2004, the Robles Fish Passage Facility was constructed to allow endangered steelhead trout the ability to bypass the diversion facility and continue their migration both upstream and downstream.

The Robles Diversion and Fish Passage Facility is operated according with a 2003 Biological Opinion for steelhead trout issued by NMFS (US Department of Commerce, National Oceanic and Atmospheric Administration) which requires minimum bypass flows of 30 cfs once a peak occurs and requires bypass flows of 50-170 cfs for 10-12 days within the fish passage season (January 1 – June 30). Operations outside this period conform to the 1959 Trial Operating Criteria in which the first 20 cfs of flow is generally released downstream.

6.2.3.1. Coyote Creek

Coyote Creek is located on the west side of Lake Casitas and its drainage area contributes directly to Lake Casitas storage. Casitas maintains a stream gaging station on Coyote Creek. Coyote Creek gaging

station was damaged during the 2017 Thomas Fire, and experienced heavy sediment transport following the fire rendering the gage unusable.

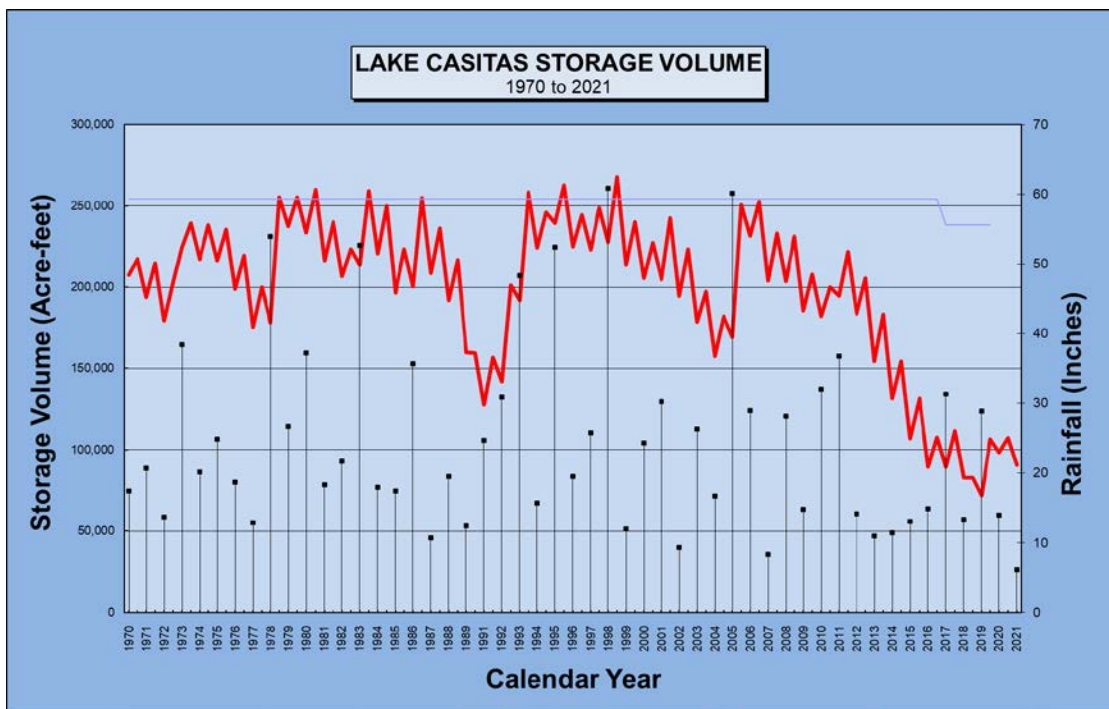
6.2.3.2. *Santa Ana Creek*

Santa Ana Creek is also a major tributary to Lake Casitas. Casitas also maintains a stream gage to monitor flow. This station was not damaged during the Thomas Fire but did experience heavy sediment transport and re-channelization following the fire, rendering poor quality flow data.

6.2.3.3. *Lake Casitas*

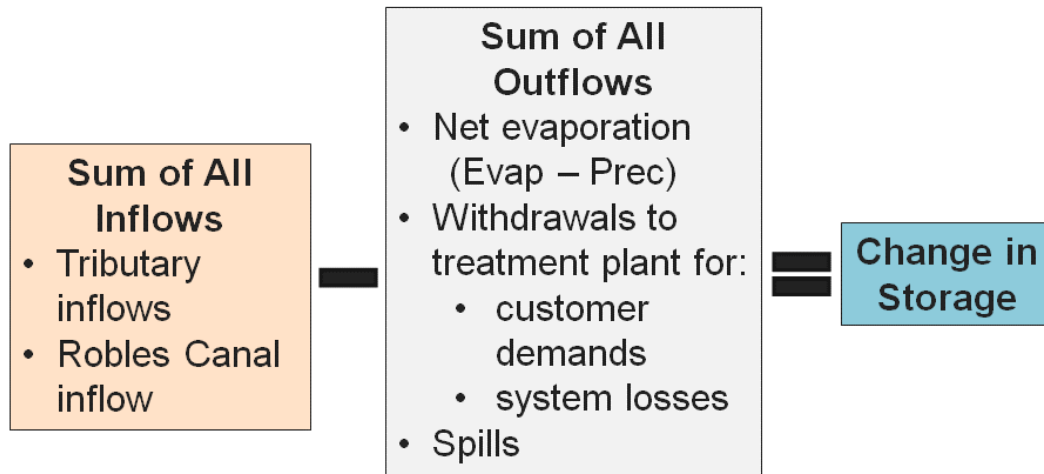
Figure 6-5 shows Lake Casitas storage for the period 1970 to 2021. When originally constructed, Lake Casitas had a design capacity of 254,000 AF. A bathymetric survey performed in 2017 shows the capacity reduced to 237,761 AF due to sedimentation. The recent drought resulted in record low storage levels in 2019 with Lake Casitas at 30 percent of storage capacity.

Figure 6-5. Historic Lake Casitas Storage Volume



The water supply availability from Lake Casitas was previously studied by the USBR in the 1954 evaluation of the Ventura River Project, and later by the District in the 1989 and 2004. In the “Water Supply and Use Status Report” (Casitas, 2004), the Safe Yield of Lake Casitas was determined to be 20,480 AFY based on a mass-balance model that tracks Lake Casitas inflows, outflows (including evaporation) and change in storage to simulate operations over a time series of assumed hydrology conditions, as illustrated in Figure 6-6.

Figure 6-6. Mass Balance Model for Estimating Lake Casitas Yield



Recently, the yield model was updated to include:

- Extended hydrologic period of record of 1945-2018 (from previous of 1945-1999)
- Incorporated results of recent Lake Casitas bathymetric survey – reduced maximum storage capacity from 254,000 AF to 237,761 AF
- Added function to compute reservoir spills
- Incorporated Robles Diversion operations based on 2003 Biological Opinion requirements and 2018 Critical Drought Protection Measures
- Reduced modeled Robles diversions based on a diversion efficiency of 70 percent, consistent with operational data since the Fish Passage Facility was constructed
- Improved method of calculating monthly net evaporation loss

On April 21, 2021, the Board of Director adopted a planned Casitas System operational yield of 15,010 AFY⁵. The new operational yield is based on the updated modeling results, a -4.3 percent climate change adjustment based on the anticipated changes to precipitation (Section 3.3), and a -15 percent supply safety factor to account for uncertainty in modeling assumptions.

Surface water from Lake Casitas is treated at the Marion Walker Water Treatment Plant using pressure filtration before it enters the transmission and distribution system.

Casitas Wholesale and Retail System. Lake Casitas serves as a primary supply for direct retail customers on the Casitas System, and as a supplemental, or backup supply, for groundwater users and wholesale users.

Ojai System. The OWS is connected to the Casitas System, and therefore receives Lake Casitas water, via two existing interconnections. The connections are used when demand in the OWS exceeds the groundwater well capacity or when well(s) are taken out of service for repair/rehabilitation.

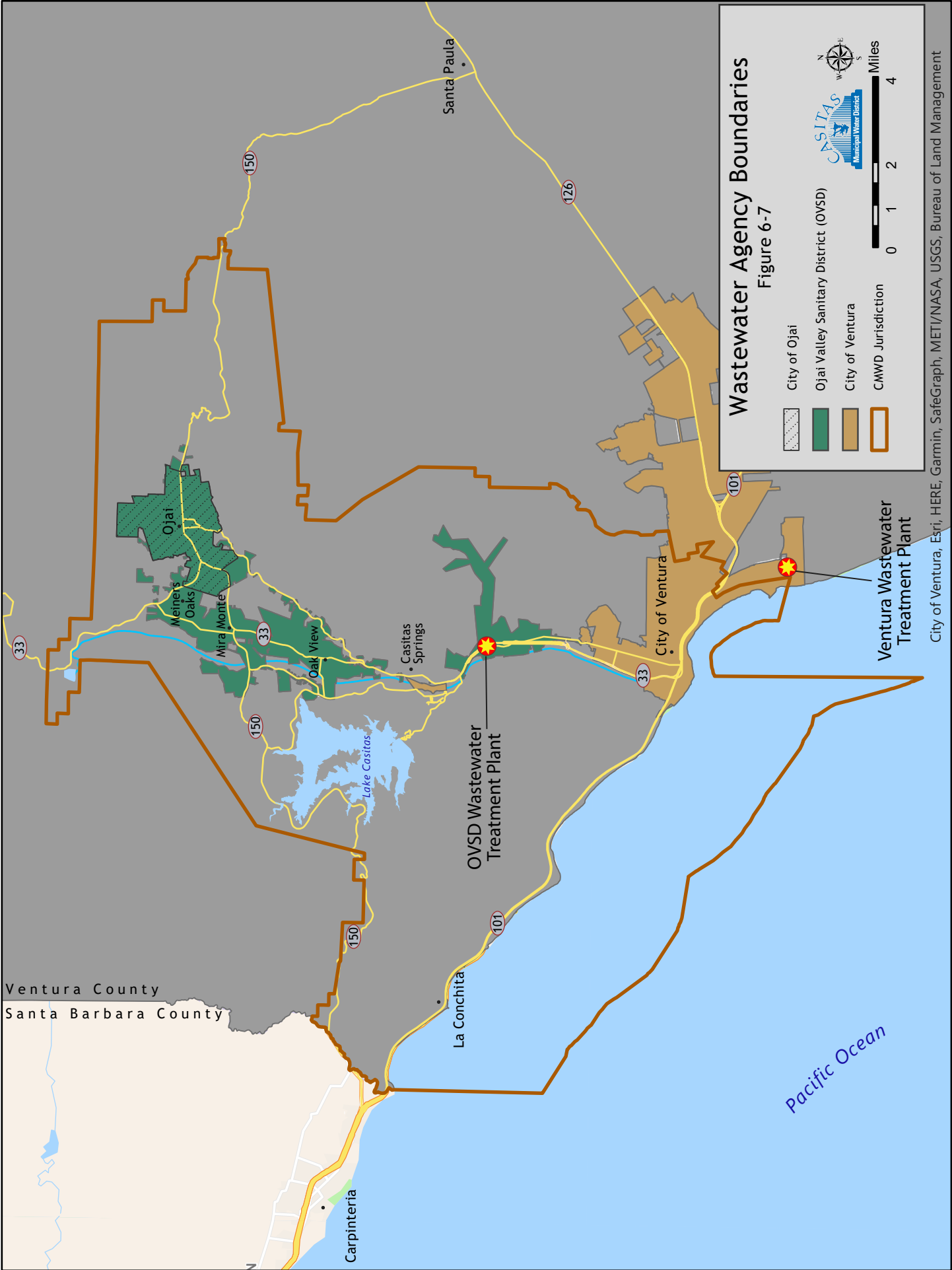
⁵ The planned operational yield is 14,865 AFY from Lake Casitas and 145 AFY from Mira Monte Well.

6.2.4. Stormwater

The District does not own, maintain, or operate any stormwater systems or facilities.

6.2.5. Wastewater and Recycled Water

Wastewater disposal and treatment within Casitas' service area is under the purview of Ojai Valley Sanitary District (OVSD) and the City of Ventura. Recycled water was evaluated by OVSD and determined infeasible due to regulatory constraints on discharges to the Ventura River. These are discussed in the following subsections. Figure 6-7 shows the boundaries of each of these agencies in relation to the Casitas service area boundaries.



Wastewater Agency Boundaries

Figure 6-7

City of Ojai

 Ojai Valley Sanitary District (OVSD)

 City of Ventura

 CMWD Jurisdiction

CASITAS Municipal Water District

Miles: 0, 1, 2, 4

City of Ventura, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management

6.2.5.1. *Wastewater Collection, Treatment, and Disposal*

The boundaries for Ojai Valley Sanitary District (OVSD) and the City of Ventura do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. The City of Ventura provides wastewater collection and treatment mainly within Casitas' wholesale service area; however the City also serves an area outside the City (within Casitas' retail system service area) under contract with Ventura County, specifically the coastal area in unincorporated Ventura County. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail.

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020, Casitas Retail



There is no wastewater collection system. The supplier will not complete the table below.

Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated?	Volume of Wastewater Collected from UWMP Service Area 2020	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area?	Is WWTP Operation Contracted to a Third Party?
City of Ventura	Metered	66	City of Ventura	City of Ventura	No	No
Total Wastewater Collected from Service Area in 2020:		66				

NOTES: There are two agencies who provide wastewater collection within the Casitas service area, Ojai Valley Sanitary District and the City of Ventura. The boundaries for these agencies do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail.

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020, Ojai Retail



There is no wastewater collection system. The supplier will not complete the table below.

Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated?	Volume of Wastewater Collected from UWMP Service Area 2020	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area?	Is WWTP Operation Contracted to a Third Party?
Ojai Valley Sanitary District	Metered	1,826	Ojai Valley Sanitary District	Ojai Valley Sanitary District	Yes	No
Total Wastewater Collected from Service Area in 2020:		1,826				

NOTES: There are two agencies who provide wastewater collection within the Casitas service area, Ojai Valley Sanitary District and the City of Ventura. The boundaries for these agencies do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail.

Casitas Wholesale System. Casitas does not distribute nor provide supplemental treatment to recycled water as shown in Table 6-3 Wholesale.

Submittal Table 6-3 Wholesale: Wastewater Treatment and Discharge Within Service Area in 2020, Casitas Wholesale											
<input checked="" type="checkbox"/>	Wholesale Supplier neither distributes nor provides supplemental treatment to recycled water. The Supplier will not complete the table below.										
Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level	2020 volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Total							0	0	0	0	0

Casitas and Ojai Retail Systems. Similar to wastewater collection, to simplify reporting, the City of Ventura’s wastewater information is provided in Table 6-2 Casitas Retail and OVSD’s wastewater information is provided in Table 6-2 Ojai Retail. The City of Ventura’s total is for their entire service area, much of which is outside Casitas’ service area.

Submittal Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2020, Casitas Retail



No wastewater is treated or disposed of within the UWMP service area. The Supplier will not complete the table below.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number <i>(optional)</i>	Method of Disposal	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level	2020 volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
City of Ventura	Santa Clara River Estuary	Mouth of Santa Clara River	CA0053651	River or creek	Yes	Tertiary	8,108	7,427	5	621	28
Total							8,108	7,427	5	621	28

NOTES: There are two agencies who provide wastewater treatment and discharge within the Casitas service area, Ojai Valley Sanitary District and the City of Ventura. The boundaries for these agencies do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail. The City of Ventura's total is for their entire service area, much of which is outside Casitas' service area.

Submittal Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2020, Ojai Retail

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level	2020 volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Ojai Valley Sanitary District	Ventura River	12-inch pipe	CA0053961	River or creek	No	Tertiary	1,826	1,667	0	0	0
Total							1,826	1,667	0	0	0

NOTES: There are two agencies who provide wastewater treatment and discharge within the Casitas service area, Ojai Valley Sanitary District and the City of Ventura. The boundaries for these agencies do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail.

Casitas Wholesale System. Casitas does not directly treat nor distribute recycled water as shown in Table 6-4 Wholesale.

Submittal Table 6-4 Wholesale: Current and Projected Retailers Provided Recycled Water Within Service Area, Casitas Wholesale							
<input checked="" type="checkbox"/>	Recycled water is not directly treated or distributed by the Supplier. The Supplier will not complete the table below.						
Name of Receiving Supplier or Direct Use by Wholesaler	Level of Treatment	2020	2025	2030	2035	2040	2045 (opt)
		0	0	0	0	0	0
Total		0	0	0	0	0	0

Casitas Retail System. Casitas does not use nor plan to use recycled water within the Casitas or Ojai Retail systems as shown in Table 6-4 Casitas Retail and Table 6-4 Ojai Retail.

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area, Casitas Retail										
<input checked="" type="checkbox"/>		Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.								
Name of Supplier Producing (Treating) the Recycled Water:										
Name of Supplier Operating the Recycled Water Distribution System:										
Supplemental Water Added in 2020 (volume) <i>Include units</i>										
Source of 2020 Supplemental Water										
Beneficial Use Type	Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity)	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045 (opt)
Agricultural irrigation		0			0	0	0	0	0	0
Landscape irrigation (excludes golf courses)		0			0	0	0	0	0	0
Golf course irrigation		0			0	0	0	0	0	0
Commercial use		0			0	0	0	0	0	0
Industrial use		0			0	0	0	0	0	0
Geothermal and other energy production		0			0	0	0	0	0	0
Seawater intrusion barrier		0			0	0	0	0	0	0
Recreational impoundment		0			0	0	0	0	0	0
Wetlands or wildlife habitat		0			0	0	0	0	0	0
Groundwater recharge (IPR)*		0			0	0	0	0	0	0
Surface water augmentation (IPR)*		0			0	0	0	0	0	0
Direct potable reuse		0			0	0	0	0	0	0
Other (Provide General Description)		0			0	0	0	0	0	0

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area, Casitas Retail

				Total:	0	0	0	0	0	0
Internal Reuse (not counted towards Statewide Recycled Water volume).										

*IPR - Indirect Potable Reuse

Casitas Retail System. Casitas does not use nor plan to use recycled water within the Ojai Retail systems as shown in Table 6-4 Ojai Retail.

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area, Ojai Retail

<input checked="" type="checkbox"/>	Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.
-------------------------------------	--

Name of Supplier Producing (Treating) the Recycled Water:	
Name of Supplier Operating the Recycled Water Distribution System:	
Supplemental Water Added in 2020 (volume) <i>Include units</i>	
Source of 2020 Supplemental Water	

Beneficial Use Type	Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity)	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045 (opt)
Agricultural irrigation		0			0	0	0	0	0	0
Landscape irrigation (excludes golf courses)		0			0	0	0	0	0	0
Golf course irrigation		0			0	0	0	0	0	0
Commercial use		0			0	0	0	0	0	0
Industrial use		0			0	0	0	0	0	0
Geothermal and other energy production		0			0	0	0	0	0	0
Seawater intrusion barrier		0			0	0	0	0	0	0

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area, Ojai Retail

Recreational impoundment		0			0	0	0	0	0	0
Wetlands or wildlife habitat		0			0	0	0	0	0	0
Groundwater recharge (IPR)*		0			0	0	0	0	0	0
Surface water augmentation (IPR)*		0			0	0	0	0	0	0
Direct potable reuse		0			0	0	0	0	0	0
Other (Provide General Description)		0			0	0	0	0	0	0
					Total:	0	0	0	0	0
Internal Reuse (not counted towards Statewide Recycled Water volume).										

*IPR - Indirect Potable Reuse

Casitas Wholesale System. Casitas did not plan to use recycled water within the Casitas Wholesale system as shown in Table 6-5 Casitas Wholesale.

Submittal Table 6-5 Wholesale: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual, Casitas Wholesale		
<input checked="" type="checkbox"/>	Recycled water was not used or distributed by the supplier in 2015, nor projected for use or distribution in 2020. The wholesale supplier will not complete the table below.	
Name of Receiving Supplier or Direct Use by Wholesaler	2015 Projection for 2020	2020 Actual Use
	0	0
Total	0	0

Casitas Retail System. In its 2015 UWMP, Casitas did not plan to use recycled water within the Casitas retail system, nor was any used in 2020, as shown in Table 6-5 Casitas Retail.

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual, Casitas Retail		
<input checked="" type="checkbox"/>	Recycled water was not used in 2015 nor projected for use in 2020. The Supplier will not complete the table below.	
Use Type	2015 Projection for 2020	2020 Actual Use
Agricultural irrigation	0	0
Landscape irrigation (excludes golf courses)	0	0
Golf course irrigation	0	0
Commercial use	0	0
Industrial use	0	0
Geothermal and other energy production	0	0
Seawater intrusion barrier	0	0
Recreational impoundment	0	0
Wetlands or wildlife habitat	0	0
Groundwater recharge (IPR)	0	0
Surface water augmentation (IPR)	0	0
Direct potable reuse	0	0
Total	0	0

Ojai Retail System. A 2015 UWMP was not prepared for the Ojai System under its former ownership. Casitas did not use recycled water within the Ojai retail system in 2020 as shown in Table 6-5 Ojai Retail.

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual, Ojai Retail

<input checked="" type="checkbox"/>	Recycled water was not used in 2015 nor projected for use in 2020. The Supplier will not complete the table below.	
Use Type	2015 Projection for 2020	2020 Actual Use
Agricultural irrigation	0	0
Landscape irrigation (excludes golf courses)	0	0
Golf course irrigation	0	0
Commercial use	0	0
Industrial use	0	0
Geothermal and other energy production	0	0
Seawater intrusion barrier	0	0
Recreational impoundment	0	0
Wetlands or wildlife habitat	0	0
Groundwater recharge (IPR)	0	0
Surface water augmentation (IPR)	0	0
Direct potable reuse	0	0
Total	0	0

6.2.5.2. Actions to Encourage and Optimize Future Recycled Water Use

Casitas Wholesale System. This section is not applicable to wholesale agencies.

Casitas Retail System. OVSD and the City of Ventura provide wastewater collection and treatment within the service area of Casitas. The potential use of recycled water in Casitas’ service area was evaluated in numerous studies over the years. Wastewater from OVSD’s treatment plant is discharged to the Ventura River. OVSD’s treatment plant is located on land owned by the City of Ventura, a condition of which is the City has the first right of OVSD’s treated effluent.

The City of Ventura is separately pursuing an Indirect Potable Reuse (IPR) Project as a result of their settlement agreement regarding discharge to the Santa Clara River Estuary.

Casitas does not plan to implement recycled water use as shown in Table 6-6 Casitas Retail.

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use, Casitas Retail			
<input checked="" type="checkbox"/>	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
			0
Total			0

Ojai Retail System. The potential for recycled water use in the Ojai area has been studied in the past, particularly the use of packaged satellite treatment systems^{6,7} and use of OVSD’s treatment plant to produce recycled water for irrigation⁸. The analyses of these alternatives determined they are not cost-effective and not feasible to implement. Table 6-6 Ojai Retail indicates there are no plans to expand recycled water use in the future.

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use, Ojai Retail			
<input checked="" type="checkbox"/>	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
			0
Total			0

⁶ Draft Preliminary Water Security Project Analysis, WREA and Kear Groundwater, November 2016

⁷ Treatment Plant Effluent Considerations, Ojai Valley Sanitary District, July 19, 2018

⁸ Reclaimed Water Feasibility/Marketing Study, Boyle Engineering Corporation, March 1992

6.2.6. Desalinated Water Opportunities

Desalinated water opportunities were most recently studied in the Casitas MWD Draft Comprehensive Water Resources Plan (Stantec, 2020) and were determined to not be cost-effective without regional participation. Casitas is not pursuing any desalinated water opportunities at this time.

6.2.7. Water Exchanges and Transfers

Water exchanges and transfers are discussed in the following subsections.

6.2.7.1. *SWP Exchanges*

In 2018, 2019, and 2020, Casitas did “bonafide exchanges” with the San Geronio Pass Water Agency (SGPWA), which was an exchange of a portion of Casitas’ SWP allocation in return for compensation. Casitas does not have a physical means of receiving SWP water so these exchanges were not actually delivered from the Casitas system to the SGPWA system, but rather were contractual exchanges. The total compensation to Casitas from 2018 to 2020 was approximately \$1.47 million, and the amount of water exchanged varied from year to year, as follows:

- 1,750 AF was delivered to SGPWA 2018, with a return of 700 AF to Casitas by 2028
- 650 AF was delivered to SGPWA 2019, with a return of 325 AF to Casitas by 2029
- 1000 AF was delivered to SGPWA 2020, with a return of 250 AF to Casitas by 2030

SGPWA serves the cities of Calimesa, Beaumont, and Banning, all located in Riverside County. "Bonafide Exchanges" involve a one-year transfer of Casitas MWD's State Water Project 'Table A' water allocation with an agreement that SGPWA will return 25 to 50 percent of the amount transferred to Casitas in a future year upon mutual agreement of the parties. The bonafide exchange agreements have an initial ten-year term with the option for an additional ten years upon mutual agreement of the parties.

6.2.7.2. *Carpinteria Valley Water District Exchanges*

A small portion of the Casitas service area overlaps an area in which Carpinteria Valley Water District (CVWD) has distribution facilities. In 1973, Casitas and CVWD entered into an exchange agreement (later amended in 1976) in which CVWD supplies water to Casitas customers and Casitas returns the water to CVWD at another location. From 2016 to 2020, the annual average amount of water delivered by CVWD to Casitas customers was 35 AFY. As of December 2020, the balance of water owed to CVWD was approximately 160 AF.

6.2.7.3. *Transfers*

Casitas did not transfer SWP water to other agencies from 2016 to 2020 (since the last UWMP). However, with recently approved State Water Project Contract Amendments for Water Management Tools, Casitas is now implementing a planned transfer of 250 AF in 2021 to the Central Coast Water Authority located in Santa Barbara County in return for compensation in the amount of \$175,000.

6.2.7.4. *Emergency Interties*

Casitas does not currently have any permanent emergency interties with neighboring agencies. However, Casitas has multiple one-way interties supplying water to wholesale agencies; in the event of an emergency these interties can be modified to accommodate flow into the Casitas water system. Casitas is working on design of a permanent emergency intertie, known as the Ventura-Santa Barbara County Intertie, which would supply imported water to Casitas (Section 6.2.8).

6.2.8. Future Water Projects

Casitas Wholesale System and Retail System. Casitas is pursuing future water projects as described herein and summarized in Table 6-7 Casitas Wholesale and Table 6-7 Casitas Retail. Projects to be implemented benefit Casitas Wholesale and Retail customers, as well as Ojai Retail customers. To simplify reporting, future water supply projects are allocated 30 percent to Casitas Wholesale and 70 percent to Casitas Retail based on the 2011 to 2020 average demands for these systems.

Ventura-Casitas SWP Interconnection. Casitas is participating in design of a 7-mile pipeline between Calleguas Municipal Water District and the City of Ventura. The City of Ventura is the lead agency. This project enables the City of Ventura to access its State Water Project allocation and offset their demands from Lake Casitas, resulting in a potential 'in-lieu' benefit to Casitas. The City has a 10,000 AFY SWP allocation and their Final Draft 2020 UWMP anticipates 1,300 AFY from this supply source. This project would not provide direct delivery of water to Casitas' system during emergencies.

Ventura-Santa Barbara Counties Intertie. This project includes the construction of a 6,100-foot pipeline and two booster pump stations to connect Casitas' transmission system with that of Carpinteria Valley Water District. The project would allow Casitas to access its SWP allocation and other supplemental water through a wheeling arrangement with Santa Barbara County agencies. This project provides physical delivery of water to Casitas' system to mitigate droughts and emergencies.

Matilija Formation Deep Bore. Based on preliminary analysis, the Matilija Formation could yield approximately 5,000 gallons per minute of groundwater (potentially 8,000 acre-feet per year) in the Eastern Santa Ynez Mountains via vertical boring extending 15,000 feet. Preliminary estimates indicate 29,000 to 280,000 AF of water in storage in this formation. Additional study is required regarding feasibility of this project including pilot tests to confirm well yields. This water supply may be used as an emergency supply in drought conditions. Water can be treated at the site and fed into Casitas' transmission system and/or discharged to the Robles Canal and sent to Lake Casitas.

Robles Fish Screen Improvements. This project includes a fixed backspray system to clean fish screens due to sediment deposition. The system requires filtered water supply, pumps, and piping. Implementation allows more efficient water diversions to Lake Casitas from the Ventura River at the Robles facility.

Submittal Table 6-7 Wholesale: Expected Future Water Supply Projects or Programs, Casitas Wholesale

<input type="checkbox"/>	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.
<input checked="" type="checkbox"/>	Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

67 Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier
	Yes or No	If Yes, Agency Name				
Ventura-Casitas SWP Interconnection ¹	Yes	City of Ventura	7-mile pipeline	2025	Multi-Dry Year	Unknown
Ventura-Santa Barbara Counties Intertie ²	Yes	Carpinteria Valley Water District	Pipeline and two booster pump stations	2025	Multi-Dry Year	600
Matilija Formation Deep Bore	No		15,000 foot vertical bore in Matilija Formation	2030	Single-Dry and Multi-Dry Year	2,400
Robles Fish Screen Improvements ³	No		Fixed backspray cleaning system	2025	All Year Types	Unknown

NOTES: Projects to be implemented benefit Casitas Wholesale and Retail customers, as well as Ojai Retail customers. Thirty percent of the projected supply is applied to the Wholesale system.

1) Ventura's SWP allocation is 10,000 AFY; this is a possible 'in-lieu' benefit to Casitas

2) Supply is based on available capacity in pipelines on Santa Barbara County side

3) Difficult to quantify the supply impact to improved fish screen operation as it is dependent on storm flows

Projects to be implemented benefit Casitas Wholesale and Retail customers, as well as Ojai retail customers. Table 6-7 Casitas Retail includes 70 percent of the projected supplies for new projects based on the 2011 to 2020 average demands.

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs, Casitas Retail

<input type="checkbox"/>	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.
<input checked="" type="checkbox"/>	Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

67 Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier
	Yes or No	If Yes, Agency Name				
Ventura-Casitas SWP Interconnection ¹	Yes	City of Ventura	7-mile pipeline	2025	Multi-Dry Year	Unknown
Ventura-Santa Barbara Counties Intertie ²	Yes	Carpinteria Valley Water District	Pipeline and two booster pump stations	2025	Multi-Dry Year	1,400
Matilija Formation Deep Bore	No		15,000 foot vertical bore in Matilija Formation	2030	Single-Dry and Multi-Dry Year	5,600
Robles Fish Screen Improvements ³	No		Fixed backspray cleaning system	2025	All Year Types	Unknown

NOTES: Projects to be implemented benefit Casitas Wholesale and Retail customers, as well as Ojai Retail customers. Thirty percent of the projected supply is applied to the Wholesale system.
 1) Ventura's SWP allocation is 10,000 AFY; this is a possible 'in-lieu' benefit to Casitas
 2) Supply is based on available capacity in pipelines on Santa Barbara County side
 3) Difficult to quantify the supply impact to improved fish screen operation as it is dependent on storm flows

Ojai Water System. Casitas drilled a new replacement well in 2020 at the Ojai wellfield and intends to construct piping and electrical systems for its use within the next five years. Under OBGMA policies, groundwater in the Ojai Groundwater Basin cannot be exported out of the basin, so this supply is only available to Ojai Retail customers. While Casitas is working to improve the condition of the Ojai wells, the improved well yields are assumed to only be available when the basin is relatively full. Therefore, the increased water supply is not included in supply projections for later years of multi-year dry periods.

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs, Ojai Retail						
<input type="checkbox"/> No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.						
<input checked="" type="checkbox"/> Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.						
59 Provide page location of narrative in the UWMP						
Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier
	Yes or No	If Yes, Agency Name				
Groundwater Well	No			2025	Average and Single-Dry Year	500
NOTES: Supplies from the Ojai Groundwater Basin are only available to Ojai Retail customers. Normal, Single-Year Dry, and first 3 years of a multi-year drought period.						

6.2.9. Summary of Existing and Planned Sources of Water

The supplies available to the Casitas and Ojai systems are described in the following subsections. It is difficult to separate supplies from Lake Casitas supplies for the Casitas Wholesale and Casitas Retail systems. To simplify reporting, 30 percent was attributed to Wholesale and 70 percent to Retail based on average ratios from 2011 to 2020.

Casitas Wholesale System. Table 6-8 Wholesale shows the actual volume of supplies in 2020.

Submittal Table 6-8 Wholesale: Water Supplies — Actual, Casitas Wholesale			
Water Supply	Additional Detail on Water Supply	2020	
		Actual Volume	Water Quality
Surface water (not desalinated)	Lake Casitas	3,245	Drinking Water
Groundwater (not desalinated)	Mira Monte Well	50	Drinking Water
Total		3,295	

Casitas Retail System. Table 6-8 Casitas Retail shows the actual volume of supplies for 2020.

Submittal Table 6-8 Retail: Water Supplies — Actual, Casitas Retail			
Water Supply	Additional Detail on Water Supply	2020	
		Actual Volume	Water Quality
Surface Water (not desalinated)	Lake Casitas	7,571	Drinking Water
Groundwater (not desalinated)	Mira Monte Well	129	Drinking Water
Total		7,700	

Ojai Water System. Casitas’ wells in the Ojai Groundwater Basin supply the majority of water to the Ojai Retail System. Two connections to the Casitas system are used to supplement groundwater supplies during high demand or when well(s) are non-operational.

Submittal Table 6-8 Retail: Water Supplies — Actual, Ojai Retail			
Water Supply	Additional Detail on Water Supply	2020	
		Actual Volume	Water Quality
Surface water (not desalinated)	Lake Casitas	369	Drinking Water
Groundwater (not desalinated)	Ojai Wellfield	1,300	Drinking Water
Total		1,669	

Casitas Wholesale System. Projected supplies for the Casitas Wholesale system are shown in Table 6-9 Casitas Wholesale.

Submittal Table 6-9 Wholesale: Water Supplies — Projected, Casitas Wholesale					
Water Supply	Additional Detail on Water Supply	Projected Water Supply			
		2025	2030	2035	2040
		Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume
Surface Water (not desalinated)	Lake Casitas	4,460	4,460	4,460	4,460
Groundwater (not desalinated)	Mira Monte Well	43	43	43	43
Purchased or Imported Water	Ventura-Santa Barbara Counties Intertie	600	600	600	600
Total		5,103	5,103	5,103	5,103

Casitas Retail System. Projected supplies for the Casitas Retail system are shown in Table 6-9 Casitas Retail.

Submittal Table 6-9 Retail: Water Supplies — Projected, Casitas Retail					
Water Supply	Additional Detail on Water Supply	Projected Water Supply			
		2025	2030	2035	2040
		Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume
Surface Water (not desalinated)	Lake Casitas	10,405	10,405	10,405	10,405
Groundwater (not desalinated)	Mira Monte well	102	102	102	102
Purchased or Imported Water	Ventura-Santa Barbara Counties Intertie	1,400	1,400	1,400	1,400
Total		11,907	11,907	11,907	11,907

Ojai Water System. Table 6-9 Ojai Retail shows the project water supplies for the Ojai Retail system.

Submittal Table 6-9 Retail: Water Supplies — Projected, Ojai Retail					
Water Supply	Additional Detail on Water Supply	Projected Water Supply <i>Report To the Extent Practicable</i>			
		2025	2030	2035	2040
		Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume
Surface Water (not desalinated)	Lake Casitas Supplement	461	461	461	461
Groundwater (not desalinated)	Ojai Wellfield	2,300	2,300	2,300	2,300
Total		2,761	2,761	2,761	2,761

6.2.10. Special Conditions

Special conditions which may affect Casitas' water supplies are described in the following subsections.

6.2.10.1. *Climate Change Effects*

Climate change may affect Casitas' water supplies as described in Sections 3.3 and 4.4.

6.2.10.2. *Regulatory Conditions and Project Development*

The following regulatory conditions and project development may have an impact on Casitas' water supplies in the future.

In-Stream Flow Studies. As directed by Governor Brown, the California Water Action Plan (WAP) was released in 2014 to move California toward more sustainable water management. The WAP was developed by the California Natural Resources Agency, the California Environmental Protection Agency, and the California Department of Food and Agriculture, and includes three objectives: 1) more reliable water supplies; 2) restoration of important species and habitat, and 3) a more resilient sustainable managed water resources system.

As part of the implementation activities for the WAP, the California Department of Fish and Wildlife (CDFW) is developing instream flow criteria in the Ventura River watershed that would support the endangered steelhead trout. These flow criteria will be submitted to the State Water Resources Control Board (SWRCB) to identify potential actions that may be taken to establish or enhance instream flow for steelhead. The SWRCB is developing a groundwater-surface water model of the Ventura River watershed to evaluate potential actions to achieve instream flows. These potential actions could have a significant impact on available water supplies for Casitas and its wholesale agencies. The SWRCB study is anticipated to be complete by 2022. More information can be found at:

https://www.waterboards.ca.gov/waterrights/water_issues/programs/instream_flows/cwap_enhancing

Sustainable Groundwater Management Act. In 2014 the California Legislature passed the Sustainable Groundwater Management Act (SGMA) to provide a framework for sustainable management of groundwater supplies by local agencies. The California Department of Water Resources is the jurisdictional agency for SGMA compliance. Depending on the ‘priority’ of the specific groundwater basin, preparation of a Groundwater Sustainability Plan (GSP) has a specific target date with critically-overdrafted high priority basins having the earliest deadline. More information can be found on the DWR website at <https://water.ca.gov/programs/groundwater-management/sgma-groundwater-management>

The Ojai Groundwater Basin is considered a high priority basin. The OBGMA manages the quality and quantity of groundwater within the Ojai Groundwater Basin since 1991. OBGMA is in the process of preparing its GSP. A release date is unknown.

The Ventura River Valley is considered a medium priority basin. The Upper Ventura River Groundwater Management Agency expects to release a draft of the GSP in July 2021 followed by a public workshop in August 2021. Adoption of the GSP is anticipated in December 2021.

Matilija Dam Ecosystem Restoration Project. The County of Ventura owns the Matilija Dam, located upstream of Casitas’ Robles Diversion and Fish Passage Facility. The County plans to remove Matilija Dam as it has been rendered obsolete. Casitas participates in several committees to coordinate and evaluate the “Matilija Dam Ecosystem Restoration Project”, along with numerous stakeholders. Removal of the dam will likely impact the Robles Facility due to increased sediment load. The County is currently seeking funding for the dam removal and associated downstream projects, including improvements and/or modifications to the Robles Facility. More information can be found at: <https://matilijadam.org/>

6.2.10.3. Other Local Applicable Criteria

Ventura River Watershed Groundwater Basins Adjudication. The City of Ventura initiated a water rights adjudication of four groundwater basins within the Ventura River watershed through an amended cross complaint filed with the Superior Court of California in September 2018. The basins named in the lawsuit include: Upper Ventura River Groundwater Basin, Lower Ventura River Groundwater Basin, Ojai Valley

Groundwater Basin, and Upper Ojai Valley Groundwater Basin. This action was filed by the City of Ventura and included not only Casitas but many public and private water users. The outcome of the adjudication is currently unknown. Casitas is actively defending and protecting its water rights in the case of *Santa Barbara Channelkeeper v. State Water Resources Control Board; City of San Buenaventura; City of San Buenaventura v. Duncan Abbott, et al.*, Cross-Complaint, Superior Court of the State of California, County of Los Angeles, Case No. 19STCP01176. More information can be found at: <http://www.venturariverwatershedadjudication.com>

6.3. Submittal Tables Completion Using Optional Planning Tool

Casitas has opted not to complete these tables.

6.4. Energy Use

A new requirement for 2020 UWMPs is Energy Intensity Reporting. The following subsections include required tables and discussion.

Casitas Wholesale and Retail Systems. Table O-1C shows the required energy reporting table for the “Multiple Water Delivery Products” approach, which is appropriate for the Casitas system (Wholesale and Retail). Data provided by Casitas is shown in the unshaded cells; the shaded cells are auto-calculated. Casitas’ wholesale and retail systems have an ‘energy intensity’ of 436.6 kilowatt-hours (kWh) per acre-foot.

Table O-1C: Recommended Energy Reporting - Multiple Water Delivery Products, Casitas Wholesale and Retail

Enter Start Date for Reporting Period	1/1/2020	Urban Water Supplier Operational Control							
End Date	12/31/2020								
Water Volume Units	AF	Water Management Process						Non-Consequential Hydropower (if applicable)	
Is upstream embedded in the values reported?	N/A	Extract and Divert	Place into Storage	Conveyance	Treatment	Distribution	Total Utility	Hydropower	Net Utility
Total Volume of Water Entering Process		179.3	5,478	0	10,447.23	10,447.23	N/A	0	N/A
Retail Potable Deliveries (%)		20%			20%	20%			
Retail Non-Potable Deliveries (%)									
Wholesale Potable Deliveries (%)		30%			30%	30%			
Wholesale Non-Potable Deliveries (%)									
Agricultural Deliveries (%)		50%			50%	50%			
Environmental Deliveries (%)									
Other (%)									
Total Percentage [must equal 100%]		100%	0%	0%	100%	100%	N/A	0%	N/A

Table O-1C: Recommended Energy Reporting - Multiple Water Delivery Products, Casitas Wholesale and Retail								
Energy Consumed (kWh)	99,765	15,661	0	797,688	8,303,241	9,216,355		9,216,355
Energy Intensity (kWh/vol. converted to MG)	1,707.6	8.8	N/A	234.3	2439.1	N/A	N/A	N/A
Water Delivery Type	Production Volume (volume units defined above)	Total Utility (kWh/volume)	Net Utility (kWh/volume)					
Retail Potable Deliveries	4214.7	436.6	436.6					
Retail Non-Potable Deliveries	0	0.0	0.0					
Wholesale Potable Deliveries	6322.1	436.6	436.6					
Wholesale Non-Potable Deliveries	0	0.0	0.0					
Agricultural Deliveries	10536.9	436.6	436.6					
Environmental Deliveries	0	0.0	0.0					
Other	0	0.0	0.0					
All Water Delivery Types	21,073.8	436.6	436.6					
Quantity of Self-Generated Renewable Energy:	0 kWh	Data Quality (Estimate, Metered Data, Combination of Estimates and Metered Data):					Metered Data	
Data Quality Narrative:	Data was gathered from SCE meters at District facilities. Water volumes are metered. Extract/divert is from Mira Monte Well groundwater production. Placed into Storage is the Robles facility to Lake Casitas. Conveyance is not							

Table O-1C: Recommended Energy Reporting - Multiple Water Delivery Products, Casitas Wholesale and Retail

	<p>considered. Treatment is Marion Walker Water Treatment Plant (MWWTP). Distribution is all pump plants, reservoirs, and pressure regulating stations.</p>
<p>Narrative:</p>	<p>Mira Monte Well has chlorine wellhead treatment facilities. The Robles facility diverts water from the Ventura River to the Robles Canal and then to Lake Casitas; the Fish Passage Facility at Robles has motorized brushes to clean the fish screens. The MWWTP is a pressure filtration system at the base of Casitas Dam. The District operates 11 pump plants, 15 storage tanks, and 27 pressure regulating station.</p>

Ojai Retail System. Table O-1B shows the recommended energy reporting table for the Ojai Retail system using the “Total Utility Approach”. Data provided by Casitas is shown in the unshaded cells; the shaded cells are auto-calculated. The Ojai Retail Systems has an ‘energy intensity’ of 3,790.7 kWh per million gallons.

Table O-1B: Recommended Energy Reporting – Total Utility Approach, Ojai Retail				
Enter Start Date for Reporting Period	1/1/2020	Urban Water Supplier Operational Control		
End Date	12/31/2020			
Is upstream embedded in the values reported?	No	Sum of All Water Management Processes	Non-Consequential Hydropower	
Water Volume Units Used	AF	Total Utility	Hydropower	Net Utility
Volume of Water Entering Process (volume unit)		1,300	0	1,300
Energy Consumed (kWh)		1,605,752	0	1,605,752
Energy Intensity (kWh/vol. converted to MG)		3,790.7	n/a	3,790.7
Quantity of Self-Generated Renewable Energy:				
0		kWh		
Data Quality (Estimate, Metered Data, Combination of Estimates and Metered Data):				
Metered Data				
Data Quality Narrative:				
Water volume entering system metered at Ojai Wellfield. Energy consumed data from SCE billing system.				
Narrative:				
Ojai Wellfield consists of Mutual Wells and San Antonio Wells. Pumped water is treated at the on-site iron and manganese treatment plant.				

7. Water System Reliability and Drought Risk Assessment

Section 7 describes Casitas' evaluation of water supply reliability and drought risk assessment in compliance with Water Code Section 10635.

7.1. Introduction

Water supply reliability is Casitas' mission as a water purveyor. This section describes Casitas' evaluation of potential supply constraints, demands, and drought impacts.

7.2. Water Service Reliability Assessment

The following subsections describe service reliability including constraints on water supply sources and reliability under normal year, single dry year, and multiple dry years for five consecutive years.

7.2.1. Service Reliability – Constraints on Water Sources

Casitas Wholesale and Retail Systems. As described in Section 6.2.3, the planned operational yield of Lake Casitas was recently evaluated using a model that simulates Lake Casitas inflows, outflows (including evaporation) and change in storage over a time series of assumed hydrology conditions. On April 21, 2021, the Board of Directors adopted a planned operational for the Casitas System of 15,010 AFY⁹. The operational yield for the Casitas system is sufficient to provide supplies through an extended drought period lasting 10-20 years depending on reservoir levels at the start of the dry period.

SWP water, via the future Ventura-Santa Barbara County Intertie, is limited by interconnect delivery capacity and SWP allocations from year to year. Casitas would only have access to excess delivery capacity when Santa Barbara County agencies are not fully using their facilities. For planning purposes, it is assumed that only 2,000 AFY could be delivered on average given that capacity would be limited in summer months and during times when Santa Barbara agencies have limited local supplies due to drought.

SWP allocations from DWR vary significantly from year to year due to hydrologic conditions and complex operations to meet environmental requirements. While DWR has estimated that the average SWP yield under existing conditions is about 58 percent of Table A, the most recent drought resulted in the lowest allocation in SWP history at 5 percent of Table A. For the multiple dry-year analysis, Casitas has selected 2011 to 2015, which incorporates record low rainfall in the local watershed as well as the record low SWP allocations. SWP allocations from DWR during the period 2011 to 2015 were:

- 2011 – 80%
- 2012 – 65%
- 2013 – 35%
- 2014 – 5%
- 2015 – 20%

Casitas' existing allocation of 5,000 AFY would not be affected by the allocation in 2011 or 2012 as these amounts are more than 2,000 AFY (i.e. the pipeline capacity of 2,000 AFY is the limiting factor).

However, the available SWP supply is reduced in 2013-2015. Table 7-0 shows the SWP allocation for Casitas wholesale (30 percent) and Casitas retail (70 percent) applied to a five consecutive year drought.

⁹ The planned operational yield is 14,865 AFY for Lake Casitas and 145 AFY for Mira Monte Well.

Table 7-0 State Water Project Allocation for Casitas Wholesale and Casitas Retail					
	Year 1	Year 2	Year 3	Year 4	Year 5
Casitas Wholesale	600	600	525	75	300
Casitas Retail	1,400	1,400	1,225	175	700
Notes: This is <u>not</u> a DWR-required table.					

The amounts show in Table 7-0 are used for the multiple dry year discussion in Sections 7.2.2.1 and 7.2.2.3.

Ojai Water System. The primary source for the Ojai System is groundwater from the Ojai Basin, and supplemental water is supply by the Casitas System through two interconnects. The Ojai System acquisition included several groundwater wells, with some wells over 45 years old and in need of rehabilitation and replacement. The wells acquired by GSWC were unable to produce their original design capacity of 4,404 AFY and Ojai wellfield production from 1994-2016 averaged about 1,800 AFY. Since 2017, Casitas has made progress in improving the condition of the wells, although work is still underway and not yet complete. Once complete, the anticipated yield is expected to increase by 500 AFY to 2,300 AFY. While Casitas is working to improve the condition of the Ojai wells, the improved well yields are assumed to only be available when the basin is relatively full. Therefore, the increased water supply is not included in supply projections for later years of multi-year dry periods.

7.2.2. Service Reliability – Year Type Characterization

The following subsections describe service reliability for Casitas under average year, single dry year and multiple dry year conditions. For the 2020 UWMP, the multiple dry year analysis includes five consecutive dry years; the 2015 UWMP was required to evaluate only three consecutive dry years.

7.2.2.1. Types of Years

Casitas Wholesale System. The average year (2003) was selected based on precipitation records from 1960 to 2020 as it was the year closest to the overall average during that period. Single-Dry Year represents the lowest water supply available to Casitas. Based on lake levels, 2019 is the lowest (driest) year. Five-Consecutive-Year Drought represents the driest five-year historical sequence, which for Casitas is the period from 2011 to 2015 based on precipitation records. Table 7-1 shows the analysis for the Casitas Wholesale system.

Quantification of available supply is based on the operational yield as described in Section 6.2.3. For the wholesale system, 4,460 AFY is assumed to be provided from Lake Casitas, 43 AFY from the Mira Monte Well, and 600 AFY from a future SWP connection between Casitas and Carpinteria Valley Water District, also known as the Ventura-Santa Barbara Counties Intertie project, for a total of 5,103 AFY during average year, single-dry year and the first two years of a five-year multiple dry year period. The lower availability of SWP water is factored into the last three year period.

Submittal Table 7-1 Wholesale: Basis of Water Year Data (Reliability Assessment), Casitas Wholesale			
Year Type	Base Year	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available	% of Average Supply
Average Year	2003	5,103	100%
Single-Dry Year	2019	5,103	100%
Multiple-Dry Years 1st Year	2011	5,103	100%
Multiple-Dry Years 2nd Year	2012	5,103	100%
Multiple-Dry Years 3rd Year	2013	5,028	99%
Multiple-Dry Years 4th Year	2014	4,578	90%
Multiple-Dry Years 5th Year	2015	4,803	94%
NOTES: Base volume available: Lake Casitas (4,460), Mira Monte Well (43) and Purchased/Imported (SWP) Water. SWP availability from 2013 to 2015 was factored into multiple dry years as shown in Table 7-0.			

Casitas Retail System. For the Casitas Retail system, supplies include 10,405 AFY from Lake Casitas, 102 AFY from the Mira Monte Well, and 1,400 AFY from the Ventura-Santa Barbara Counties Intertie for a total of 11,907 AFY.

The average year (2003) was selected based on precipitation records from 1960 to 2020 as it was the year closest to the overall average during that period. The year 2019 was selected as the single-dry year as this was the year in which Lake Casitas was at its lowest storage level.

The multiple dry-year period of 2011 to 2015 was selected based on the driest five-year period from 1960 to 2020 based on precipitation records at Casitas Dam. Similar to Casitas wholesale system, SWP availability was factored into the consecutive dry year volume available as shown in Table 7-0.

Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment), Casitas Retail			
		Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available	% of Average Supply
Average Year	2003	11,907	100%
Single-Dry Year	2019	11,907	100%
Consecutive Dry Years 1st Year	2011	11,907	100%
Consecutive Dry Years 2nd Year	2012	11,907	100%
Consecutive Dry Years 3rd Year	2013	11,732	99%
Consecutive Dry Years 4th Year	2014	10,682	90%
Consecutive Dry Years 5th Year	2015	11,207	94%
NOTES: Lake Casitas (10,405), Mira Monte Well (102) and Purchased/Imported Water (1,400). SWP availability from 2013 to 2015 was factored into multiple dry years.			

Ojai Water System. Ojai Water supplies are based on Ojai Wellfield capacity of 2,300 AFY plus Lake Casitas supplement of 461 AFY.

The average year (2003) was selected based on precipitation records from 1960 to 2020 as it was the year closest to the overall average during that period. The year 2019 was selected as the single-dry year as this was the year in which Lake Casitas was at its lowest storage level. The multiple dry-year period of 2011 to 2015 was selected based on the driest five-year period from 1960 to 2020 based on precipitation records at Casitas Dam. It was assumed in years 4 and 5 of a consecutive five-year dry period, the wellfield production is reduced from 2,300 AF to 1,800 AF and Lake Casitas supply is reduced by 20 percent.

Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment), Ojai Retail			
Year Type	Base Year	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available	% of Average Supply
Average Year	2003	2,761	100%
Single-Dry Year	2019	2,761	100%
Consecutive Dry Years 1st Year	2011	2,761	100%
Consecutive Dry Years 2nd Year	2012	2,761	100%
Consecutive Dry Years 3rd Year	2013	2,761	100%
Consecutive Dry Years 4th Year	2014	2,169	79%
Consecutive Dry Years 5th Year	2015	2,169	79%

NOTES: Ojai Wellfield Capacity (2,300 AF) plus Lake Casitas Supplement (461 AF) in 1st three years; 1,800 AF and 369 AF, respectively, in years 4 and 5.

7.2.3. Service Reliability – Supply and Demand Comparison

The following subsections describe water supply and demand comparison under multiple scenarios including average year, single dry year and multiple dry year period of five years.

7.2.3.1. Water Service Reliability – Normal Year

Casitas Wholesale System. Table 7-2 Casitas Wholesale summarizes the normal year supply and demand for the Casitas Wholesale system.

Submittal Table 7-2 Wholesale: Normal Year Supply and Demand Comparison, Casitas				
	2025	2030	2035	2040
Supply totals (autofill from Table 6-9)	5,103	5,103	5,103	5,103
Demand totals (autofill fm Table 4-3)	4,356	4,356	4,356	4,356
Difference	747	747	747	747

Casitas Retail System. Table 7-2 Casitas Retail summarizes the normal year supply and demand for the Casitas Retail system.

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison, Casitas Retail				
	2025	2030	2035	2040
Supply totals <i>(autofill from Table 6-9)</i>	11,907	11,907	11,907	11,907
Demand totals <i>(autofill from Table 4-3)</i>	10,169	10,169	10,169	10,169
Difference	1,738	1,738	1,738	1,738

Ojai Water System. Table 7-2 Ojai Retail summarizes the normal year supply and demand for the Ojai Retail system.

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison, Ojai Retail				
	2025	2030	2035	2040
Supply totals <i>(autofill from Table 6-9)</i>	2,761	2,761	2,761	2,761
Demand totals <i>(autofill from Table 4-3)</i>	1,850	1,850	1,850	1,850
Difference	911	911	911	911

7.2.3.2. Water Service Reliability – Single Dry Year

Given that Lake Casitas and groundwater basin storage can sustain extended drought periods, a single dry year has little effect on Casitas’ supply availability. However, annual demands typically vary significantly from year to year. Unconstrained demands for water typically increase during dry period and decrease during wet periods. The demands herein reflect planned average demands and were not adjusted based on weather variations.

Casitas Wholesale System. Table 7-3 Casitas Wholesale shows the single dry year supply and demand for the Casitas wholesale system.

Submittal Table 7-3 Wholesale: Single Dry Year Supply and Demand Comparison, Casitas				
	2025	2030	2035	2040
Supply totals	5,103	5,103	5,103	5,103
Demand totals	4,356	4,356	4,356	4,356
Difference	747	747	747	747

Casitas Retail System. Table 7-3 Casitas Retail shows the single dry year supply and demand for the Casitas retail system.

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison, Casitas Retail				
	2025	2030	2035	2040
Supply totals	11,907	11,907	11,907	11,907
Demand totals	10,169	10,169	10,169	10,169
Difference	1,738	1,738	1,738	1,738

Ojai Retail System. Table 7-3 Ojai Retail shows the single dry year supply and demand for the Ojai retail system.

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison, Ojai Retail				
	2025	2030	2035	2040
Supply totals	2,761	2,761	2,761	2,761
Demand totals	1,850	1,850	1,850	1,850
Difference	911	911	911	911

7.2.3.3. Water Service Reliability – Five Consecutive Dry Years

Given that Lake Casitas and groundwater basin storage can sustain extended drought periods, a few dry years have little effect on Casitas’ supply availability. However, supplies can become limited during extended drought periods and Casitas implements its WEAP as a demand management tool as Lake Casitas storage declines.

Annual demands typically vary significantly from year to year. Unconstrained demands for water typically increase during dry period and decrease during wet periods. The demands herein have not been adjusted based on weather variations. However, the demands have been adjusted to reflect mandatory demand reductions with WEAP implementation in later years of a drought.

Casitas Wholesale System. Table 7-4 Casitas Wholesale shows the multiple dry year supply and demand for the Casitas wholesale system. Based on Casitas’ practices Stage 2 of the WEAP would take effect in year 5, resulting in a 20 percent decrease in demand. The surplus in Year 5 resulting from demand management helps to stretch remaining supplies for a drought lasting longer than five years.

Submittal Table 7-4 Wholesale: Multiple Dry Years Supply and Demand Comparison					
		2025	2030	2035	2040
First year	Supply totals	5,103	5,103	5,103	5,103
	Demand totals	4,356	4,356	4,356	4,356

Submittal Table 7-4 Wholesale: Multiple Dry Years Supply and Demand Comparison					
	Difference	747	747	747	747
Second year	Supply totals	5,103	5,103	5,103	5,103
	Demand totals	4,356	4,356	4,356	4,356
	Difference	747	747	747	747
Third year	Supply totals	5,028	5,028	5,028	5,028
	Demand totals	4,356	4,356	4,356	4,356
	Difference	672	672	672	672
Fourth year	Supply totals	4,578	4,578	4,578	4,578
	Demand totals	4,356	4,356	4,356	4,356
	Difference	222	222	222	222
Fifth year	Supply totals	4,803	4,803	4,803	4,803
	Demand totals	3,485	3,485	3,485	3,485
	Difference	1,318	1,318	1,318	1,318

Casitas Retail System. Table 7-4 Casitas Retail shows the multiple dry year supply and demand for the Casitas retail system. Based on Casitas’ practices Stage 2 of the WEAP would take effect in year 5, resulting in a 20 percent decrease in demand. The surplus in Year 5 resulting from demand management helps to stretch remaining supplies for a drought lasting longer than five years.

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison, Casitas Retail					
		2025	2030	2035	2040
First year	Supply totals	11,907	11,907	11,907	11,907
	Demand totals	10,169	10,169	10,169	10,169
	Difference	1,738	1,738	1,738	1,738
Second year	Supply totals	11,907	11,907	11,907	11,907
	Demand totals	10,169	10,169	10,169	10,169
	Difference	1,738	1,738	1,738	1,738
Third year	Supply totals	11,732	11,732	11,732	11,732
	Demand totals	10,169	10,169	10,169	10,169
	Difference	1,563	1,563	1,563	1,563
Fourth year	Supply totals	10,682	10,682	10,682	10,682
	Demand totals	10,169	10,169	10,169	10,169
	Difference	513	513	513	513

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison, Casitas Retail					
Fifth year	Supply totals	11,207	11,207	11,207	11,207
	Demand totals	10,169	10,169	10,169	10,169
	Difference	3,072	3,072	3,072	3,072

Ojai Retail System. Table 7-4 Ojai Retail shows the multiple dry year supply and demand for the Ojai Retail system. It was assumed in years 4 and 5, the wellfield production would be reduced from 2,300 AF to 1,800 AF. Based on Casitas’ practices Stage 2 of the WEAP would take effect in year 5, resulting in a 20 percent decrease in demand. The surplus in Year 5 resulting from demand management helps to stretch remaining supplies for a drought lasting longer than 5 years.

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison, Ojai Retail					
		2025	2030	2035	2040
First year	Supply totals	2,761	2,761	2,761	2,761
	Demand totals	1,850	1,850	1,850	1,850
	Difference	911	911	911	911
Second year	Supply totals	2,761	2,761	2,761	2,761
	Demand totals	1,850	1,850	1,850	1,850
	Difference	911	911	911	911
Third year	Supply totals	2,761	2,761	2,761	2,761
	Demand totals	1,850	1,850	1,850	1,850
	Difference	911	911	911	911
Fourth year	Supply totals	2,169	2,169	2,169	2,169
	Demand totals	1,850	1,850	1,850	1,850
	Difference	319	319	319	319
Fifth year	Supply totals	2,169	2,169	2,169	2,169
	Demand totals	1,480	1,480	1,480	1,480
	Difference	689	689	689	689

7.2.4. Description of Management Tools and Options

Casitas manages its local water supply with a great deal of cooperation from its customers. During drought conditions, the WEAP is a cornerstone policy for Casitas’ demand management. The WEAP describes the water demand reduction strategies and measures to address water shortage conditions, promote water conservation and the efficient use of water, and the application of a penalty to customers who waste water. The WEAP was originally developed in response to the 1987 to -1991 drought period, and is updated and modified as needed. The most recently adopted WEAP is included in Appendix F.

Future supplemental supply options are described in Section 6.

7.3. Drought Risk Assessment

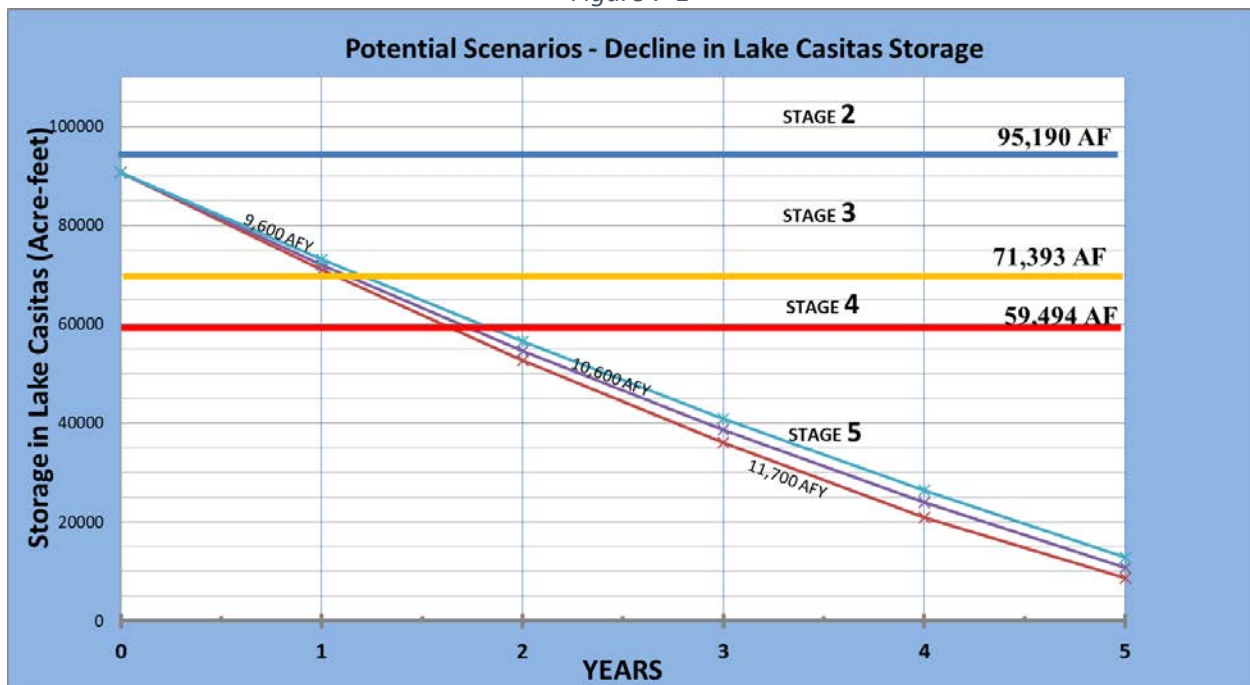
The Drought Risk Assessment (DRA) is a new requirement in the 2020 UWMP. The DRA is intended to address the next five-year cycle of water supplies and demands; for the UWMP, this is the period from 2021 to 2025.

7.3.1. DRA Data, Methods, and Basis for Water Shortage Condition

Casitas declared Stage 3 of the WEAP in June 2016 when Lake Casitas dropped below 100,000 AF in storage and continues to remain in Stage 3. Annually, Casitas prepares a Water Supply Assessment which includes an evaluation of water supplies, demands, and effectiveness of water conservation measures over the previous fiscal year, and projects Lake Casitas levels assuming that dry conditions will continue. The most recent Water Supply Assessment is provided in Appendix D.

The analysis is conservative and assumes no inflows to Lake Casitas occur in the next five years. Figure 7-1 shows the potential lake levels with various demand scenarios that reflect recent usage patterns. Based on these projections, Casitas may enter Stage 4 of the WEAP in 12 to 14 months. Casitas is working to revise its WEAP and will re-assess the Stage level in Spring 2022. Projected five-year supplies and demands are discussed further in Section 7.

Figure 7-1



7.3.2. DRA Water Source Reliability

Lake Casitas. As of December 2020, Lake Casitas was at approximately 39.3 percent of capacity (93,449 AF in storage) due to the ongoing drought. Lake Casitas is wholly dependent on precipitation into the watershed and Casitas’ ability to divert water from the Ventura River. For drought planning purposes, a conservative assumption of no additional inflows is used.

Groundwater. The DRA assumes that historic pumping levels can be maintained in the next five years. Current groundwater basin conditions are described further in the most recent Water Supply Assessment (Appendix D).

State Water Project. Casitas is the design phase of the Ventura-Santa Barbara Counties Intertie project. Funding for construction is necessary and Casitas is pursuing grants and loans to implement this project by 2025, which would provide and estimated 2,000 AFY on average.

7.3.3. DRA Total Water Supply and Use Comparison

Casitas Wholesale and Retail Systems. Table 7-5 Casitas summarizes the Five-Year DRA for the Casitas System and shows the impact of conservation when the WEAP is implemented, particularly for years 2021 to 2024. Total supplies are based on recent production trends and water demands (‘gross water use’) are the unconstrained planned demands.

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b), Casitas	
2021	Total
Gross Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%
2022	Total
Gross Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%
2023	Total
Gross Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	3,899

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b), Casitas	
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%
2024	Total
Gross Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%
2025	Total
Gross Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	2,000
WSCP - use reduction savings benefit	1,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	13%

Ojai Water System. Table 7-5 Ojai summarizes the Five-Year DRA for the Ojai System and shows the impact of conservation when the WEAP is implemented, particularly for years 2021 to 2024. Total supplies are based on recent production trends and water demands ('gross water use') are the unconstrained Stage 1 demands.

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b), Ojai	
2021	Total
Gross Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b), Ojai

2022	Total
Gross Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%
2023	Total
Gross Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%
2024	Total
Gross Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%
2025	Total
Gross Water Use	1,850
Total Supplies	1663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	500
WSCP - use reduction savings benefit	0
Revised Surplus/(shortfall)	313
Resulting % Use Reduction from WSCP action	0%

7.3.4. Optional Planning Tool Workbook

Casitas has opted not to use the optional planning tool workbook.

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8. Water Shortage Contingency Plan

Water shortages can be triggered by hydrologic limitations in supply (e.g. prolonged period of below-normal precipitation and runoff) or failure of supply, treatment, and/or conveyance infrastructure due to a catastrophic event, such as earthquake, power outage, or a toxic spill that affects water quality. Water supply limitations resulting from drought tend to develop and abate more slowly, whereas infrastructure failure tends to happen quickly and relatively unpredictably.

Casitas' Water Shortage Contingency Plan (WSCP) was developed in accordance with California Water Code Section 10632 and the California DWR UWMP Guidebook and includes:

- **Water Supply Reliability Analysis:** Summarizes Casitas' water supply analysis, and identifies any key issues that may trigger a shortage condition;
- **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year, and the steps to formally declare any water shortage levels and response actions;
- **Standard Shortage Stages:** Establishes water shortage levels to clearly identify and prepare for shortages;
- **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand and to minimize social and economic impacts to the community;
- **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements;
- **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions;
- **Legal Authority:** Lists the legal documents granting Casitas the authority to declare a water shortage; and to implement and enforce response actions;
- **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impacts of implementing water shortage stages and identifies mitigation strategies to offset financial burdens;
- **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation, and whether response actions should be increased or reduced;
- **WSCP Refinement Procedures:** Outlines procedures for updating the WSCP;
- **Special Water Features Distinctions:** Defines ponds, lakes, fountains, pools, and spas, etc.;
- **Plan Adoption, Submittal, and Availability:** Describes the process for WSCP adoption, submittal and availability.

The WSCP is prepared as part of Casitas' 2020 UWMP, but is a stand-alone document that may be modified as needed. The WSCP is intended to provide guidance, rather than absolute direction, for Casitas' action in response to water shortages.

The WSCP is based on Casitas' currently adopted WEAP, which is included as Appendix F. The WEAP is the primary demand management tool to reduce water demands as Lake Casitas levels decline during extended drought periods, and may be modified or updated more frequently than the UWMP five-year

cycle. In addition, Casitas has an Emergency Response Plan and Casitas Dam Emergency Action Plan to provide guidance for a coordinated response to emergency conditions or catastrophic events.

8.1. Water Supply Reliability Analysis

The reliability of Casitas' water supply is described in Section 7 by comparing supply demand projections through 2040 for normal, single dry, and multiple dry years. The following is a concise narrative of the available water supplies and key issues that may create a water shortage condition.

8.1.1. Lake Casitas

Because Lake Casitas is a multi-year reservoir designed to supply water through an extended drought period, a single dry year has little effect on availability of Casitas supplies. However, when average or less rainfall continues for many years in succession, Lake Casitas storage will decline and careful management is needed in the event that dry conditions continue. Figures 8-1 and 8-2 show historical lake levels and the corresponding reduction in demands, respectively, when lake levels start to decline. The demand reductions in the post-1989 and post-2016 periods reflect implementation of the WEAP and its effectiveness as a demand management tool.

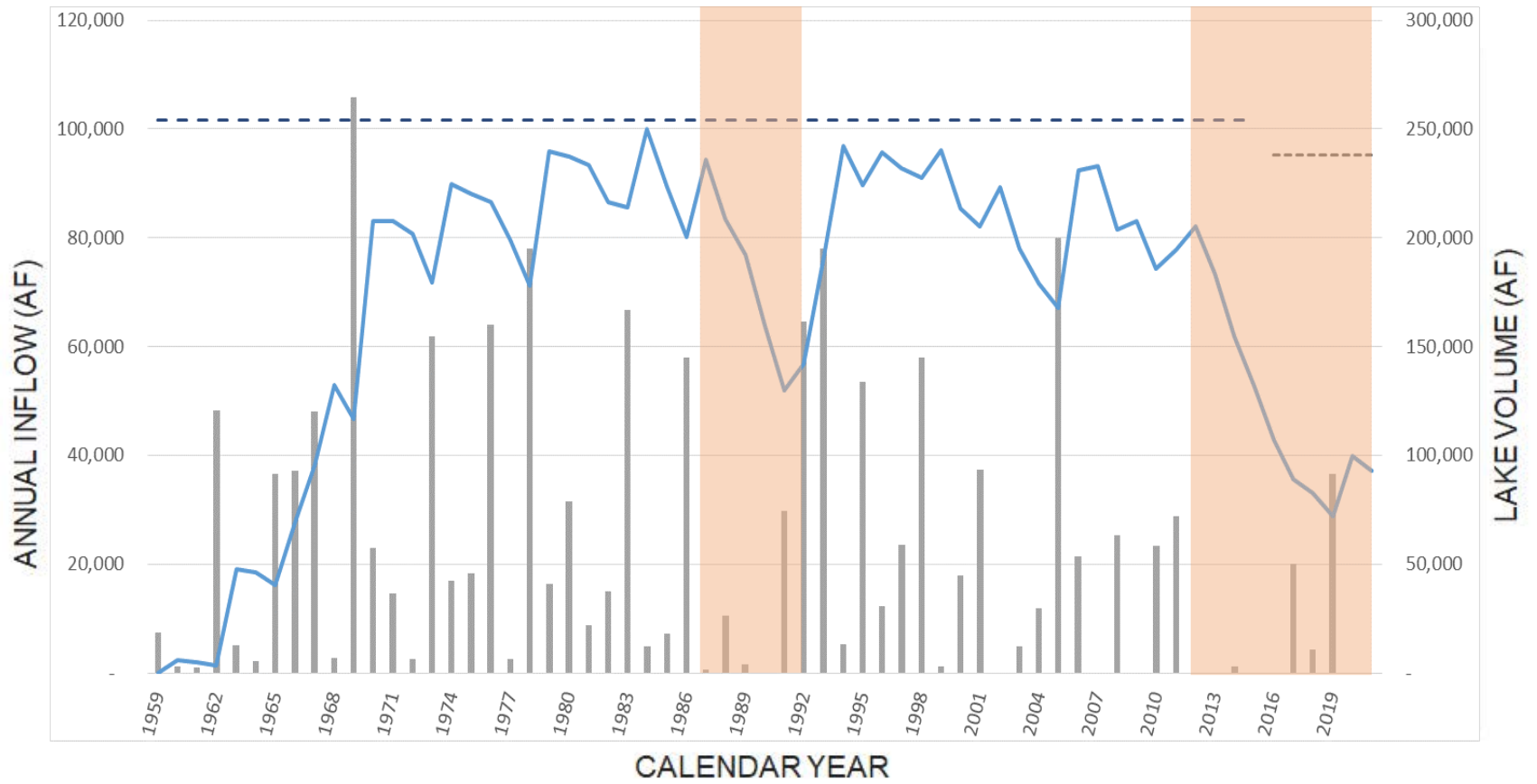
The water supply availability from Lake Casitas was previously studied by the United States Bureau of Reclamation in the 1954 evaluation of the Ventura River Project, and later by the District in the 1989 and 2004. The District recently updated its evaluation of the reliability of the Lake Casitas water supply using its Lake Casitas safe yield model, which is a mass-balance model that tracks Lake Casitas inflows, outflows (including evaporation), and change in storage to simulate operations over a time series of assumed hydrology conditions. The model evaluates the water supply vulnerability to climatic and seasonal variations in weather, changes in water demands, and changes to water supply operations. The safe yield model was recently updated to include the following improvements:

- Extended hydrologic period of record of 1945-2018 (from previous of 1945-1999)
- Incorporated results of recent Lake Casitas bathymetric survey – reduced maximum storage capacity from 254,000 AF to 237,761 AF
- Added function to compute reservoir spills
- Incorporated Robles Diversion Facility operations based on 2003 Biological Opinion requirements and 2018 Critical Drought Protection Measures
- Reduced modeled Robles diversions based on a diversion efficiency of 70 percent, consistent with operational data since the Fish Passage Facility was constructed
- Improved method of calculating monthly net evaporation loss

Upon review of updated modeling analyses on April 21, 2021, the Casitas Board adopted a revised Casitas System operational yield of 15,010 AFY¹⁰, which accounts for future climate change and hydrologic uncertainty.

¹⁰ Based on a planned yield of 14,965 AFY from Lake Casitas and 145 AFY from Mira Monte Well.

FIGURE 8-1. HISTORICAL LAKE LEVELS, INFLOW, AND DROUGHT PERIODS

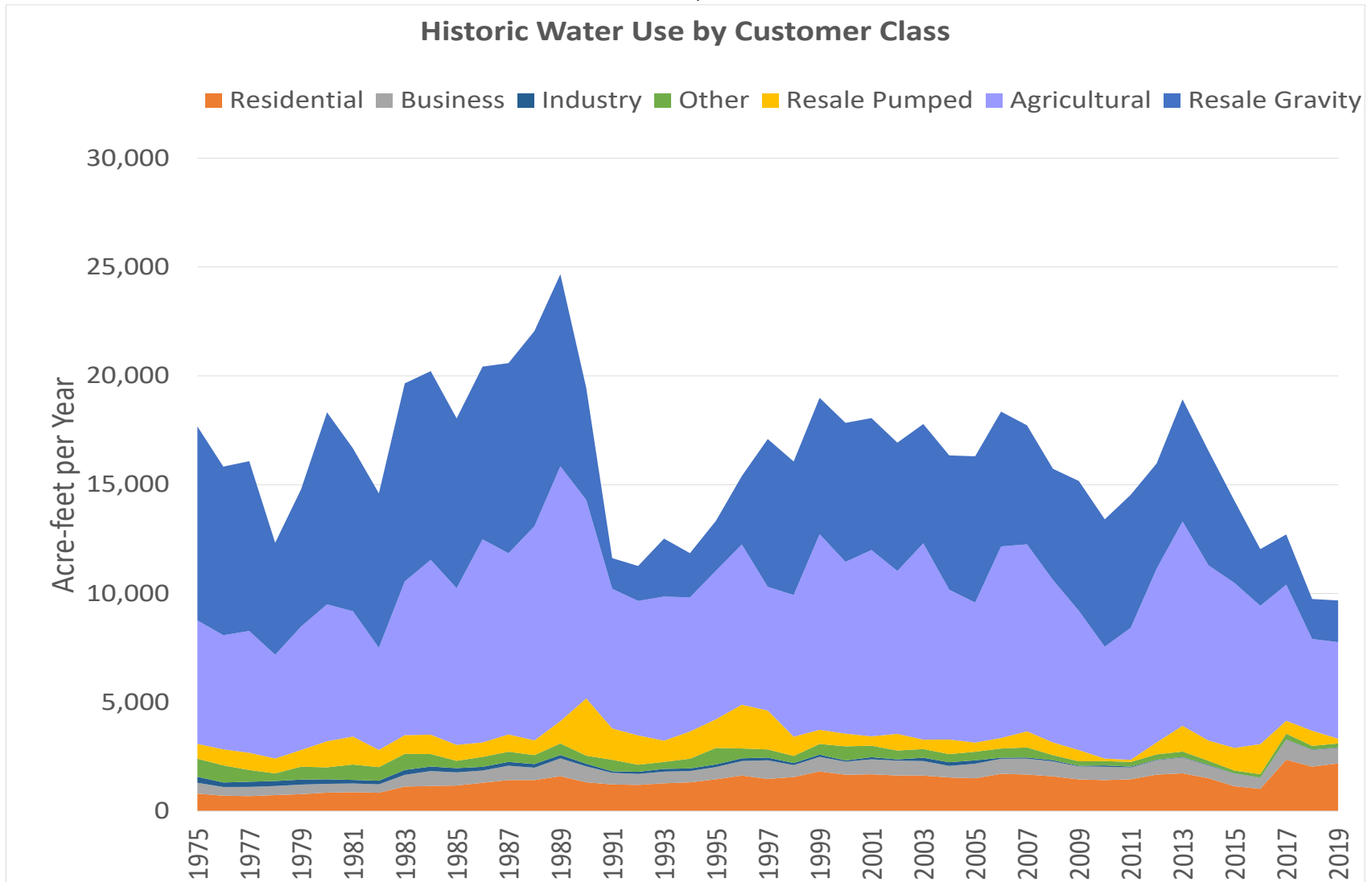


LEGEND

- Lake Casitas Storage Volume
- Drought Period
- Inflow
- - - Lake Casitas Full Capacity

FIGURE 8-2. HISTORIC WATER USE BY CUSTOMER CLASS

All data is by Fiscal Year.



8.1.2. [Water Quality Impacts on Reliability](#)

The water quality of Lake Casitas may vary significantly as the lake storage transitions from full capacity to minimum pool. Surface water supply from Lake Casitas is treated at the Marion Walker Water Treatment Plant using pressure filtration and chloramination prior to the delivery to the distribution system. The treatment process ensures the water meets all state and federal regulations. At lower levels of Lake Casitas storage there are specific and challenging water quality issues affecting Casitas' ability to treat and deliver potable water from Lake Casitas. During the condition of low lake level the water quality can unfavorably change due to the concentrating of nutrients resulting in eutrophication, increased algae blooms, reduction in dissolved oxygen, and increased turbidity during storm events that could significantly impact filtration treatment process and the rate of water production for the distribution system. Additionally, increased loading of natural organic matter results in elevated precursors that can contribute to trihalomethanes (THMs), haloacetic acids (HAAs), and other disinfection byproducts.

Casitas is also concerned about the release of organic-laden silts from Matilija Dam that, if not properly mitigated during the Matilija Dam removal, can add to the mass balance of nitrogen and phosphorous compounds and increased turbidity of water flowing into Lake Casitas.

Specific actions Casitas has considered and implemented are lake management strategies such as watershed management, intake selection (hypolimnetic withdrawal), algae control, and lake aeration. The level of the lake management implementation may increase as the problem intensifies during low storage conditions.

8.1.3. [Groundwater](#)

The Casitas System is supplied by one groundwater well located in the Upper Ventura River Groundwater Basin, with a planned average supply of 145 to 180 AFY. The well water is blended with surface water from Lake Casitas at a high ratio to ensure the maximum contaminant level (MCL) for nitrate is not exceeded. The resulting blended water is well below the MCL for nitrate. On-site treatment to eliminate the need for blending and increase well production could be a consideration in the future.

The Ojai System is supplied by six groundwater wells in the Ojai Groundwater Basin, with a planned average supply of 1,800 to 2,300 AFY. Groundwater from all six wells receives treatment at the San Antonio Groundwater Treatment Plant prior to distribution to the Ojai System, and meets all state and federal water quality requirements without blending.

Estimated yield of groundwater supply is based on historical groundwater production records. The groundwater basins are managed by the Upper Ventura River Groundwater Management Agency and the Ojai Basin Groundwater Management Agency. Both agencies are currently preparing Sustainable Groundwater Management Plans which will determine management actions to support sustainable groundwater yields.

8.1.4. [Existing Emergency Supplies](#)

In the event Lake Casitas supplies are not available, available groundwater supplies could serve the Ojai System. Groundwater supplies for the Casitas System are limited in their ability to deliver water, and interagency agreements are sought for specific and limited emergency conditions.

In addition, the Casitas System (Retail and Wholesale) and Ojai Retail System have approximately 26.3 million gallons and 2.0 million gallons, respectively, of water storage in the distribution system to provide two to three days of reserve water supply. In the event of isolated water outages, Casitas has five portable water tanks (water buffalos), 400 gallons each, for placing in residential areas. Casitas has also employed contract water trucks to provide water to residential areas during major water outages. Casitas will respond to water outages with a pipeline repair crew, contract pipeline crews, engineers, water quality and customer service personnel, and may request assistance from local, state, and federal agencies, as warranted.

8.1.5. [Potential Future Emergency Supplies](#)

Casitas is currently designing a regional emergency interconnection, known as the Ventura-Santa Barbara Counties Interconnection, which is described in Section 6.2.8. This interconnection would allow direct delivery of imported water to Casitas’ system to mitigate periods when local supplies are limited.

8.2. Annual Water Supply and Demand Assessment Procedures

New provisions in Water Code Section 10632.1 require an urban water supplier to conduct an annual water supply and demand assessment (“Annual Assessment”), on or before July 1 of each year, to be submitted to DWR. The requirement to perform the Annual Assessment begins in July 2022.

Under the adopted WEAP, Casitas has an existing annual assessment process in place that goes beyond the annual assessment requirements. Casitas prepares an Annual Supply and Demand summary, which summarizes significant or unusual events over the last year, weather conditions, status of water resources, past and current demands, current water management programs and policies in place, and recommended demand management measures.

8.2.1. [Decision-Making Process](#)

According to the most current WEAP, the General Manager shall report to the Board of Directors each year (April) with an assessment of the current water storage in Lake Casitas and local groundwater basins, current water use trends, predicted weather conditions, and an evaluation of current water use reduction goals. The time of the reporting can be each April, as the rainfall season is ending and water resources can be evaluated at the maximum for the year, or as Lake Casitas storage reaches a change in Stage action level. The Board of Directors may, at their sole discretion, declare a Stage condition of water supply in Lake Casitas exists and implement the appropriate demand reduction goals and measures in response to current and/or predicted water availability conditions. Casitas shall make such determinations public and follow with appropriate and timely notification of all customers. An action to declare and implement a Stage may occur by either an action of the Casitas Board of Directors based on unanticipated changing lake supply conditions or in accordance with the following schedule:

Target Dates	Action
June – April	Monitor water demands, rainfall, reservoir level trend, groundwater trends, and diversion and runoff amounts.
Early April	Staff presents water status report and a recommendation to the Casitas Board of Directors. Publish a notice of a public hearing if changes are recommended.
Late April	Casitas Board of Directors formally declares a Stage, and/or water shortage emergency, adopts recommendations for demand reduction actions.
May	Customer Notification of change in Stage, allocation, and overuse penalties.
June	Finalize Annual Water Assessment and submit to DWR.

Target Dates	Action
July	Stage demand reduction actions are effective and are implemented.

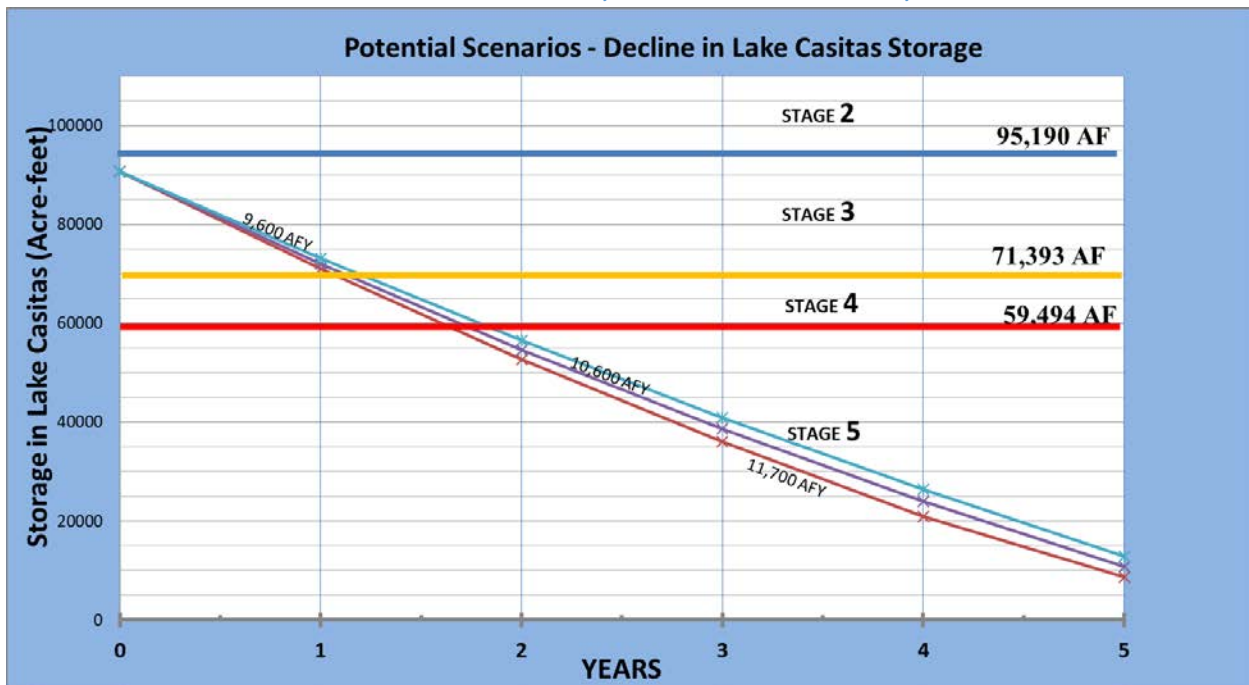
8.2.2. Data and Methodologies

This section provides a description of key data inputs and methodologies to evaluate the water system reliability for the coming year, assuming that subsequent years are dry with low precipitation. To evaluate reliability, the inputs described in the following subsections are considered.

8.2.2.1. Water Supply

Casitas staff estimates projected Lake Casitas storage levels over the next five years or more based on projected near-term demands, current Lake Casitas storage levels, dry year evaporation rates, and a conservative assumption of no additional rainfall or runoff. This conservative planning approach allows an evaluation of how long current available supplies will last and whether the next drought stage will be triggered within the next year. Figure 8-3 presents an example projection based on conditions and adopted management policies in Spring 2021. The estimated current releases from Lake Casitas to the treatment plant are 10,600 AFY, and two additional scenarios were evaluated based on a 10 percent variation in demands.

FIGURE 8-3. HYPOTHETICAL DECLINE IN LAKE CASITAS STORAGE WITH NO RAINFALL OR RUNOFF; 2013 EVAPORATION RATE EVERY YEAR; STARTING STORAGE AT 90,600 ACRE-FEET



Casitas staff also include groundwater basin status as a consideration in its water supply assessment. The Ojai Basin groundwater levels and storage are tracked by the OBGMA, and the Upper Ventura River groundwater levels are tracked by the Ventura River Water District and UVGMA.

Based on current conditions, projected demands and supplies are compared for both the Casitas (Retail and Wholesale) System and Ojai Retail System assuming dry conditions over the next five years.

8.2.2.2. Infrastructure Considerations

As part of its supply availability analysis, Casitas will evaluate how infrastructure capabilities and constraints (e.g. condition of groundwater wells) may affect the ability to access or deliver supplies to meet projected customer water demand in the coming year, as well as any capital projects anticipated to improve the capacity or ability to meet demands.

8.2.2.3. Unconstrained Customer Demand

The unconstrained demand reflects periods when Casitas is not in a declared water shortage stage. For purposes of the Annual Assessment to be submitted to DWR, Casitas estimates near-term demand based on recent trends, with consideration of water supplied over the last twelve months, trends from previous years, and potential increases in demands due to weather or other influencing factors.

8.2.2.4. Planned Water Use for Current Year Considering Dry Subsequent Year.

Casitas uses a conservative approach and assume dry conditions throughout a 5-year period for the Annual Assessment. If recent water demand trends reflect wet conditions and reduced irrigation needs, and Casitas is not in a declared water shortage stage, the planned demands used in the annual assessment are adjusted to account for increases in demand that occur during dry conditions. If previous years reflect extended dry conditions and Casitas is already in a declared water shortage stage, the effects of current restrictions on water demands are considered.

8.2.3. Evaluation Criteria

Casitas has established the implementation of various stages of action based on the amount of water in storage in Lake Casitas, as shown in Table 8-0 which reflects the most recently adopted WEAP (Appendix F). These stages apply to both the Casitas system and the Ojai system. The recommended stage will be based on whether the projected lake levels over the next year fall within the action levels.

Table 8-0. Stage Conditions in Relation to Lake Casitas Storage			
Stage	Stage Title	Lake Casitas Storage, %	Lake Casitas Storage Action Level
1	Water Conservation	100%-50%	237,761 to 118,880
2	Water Shortage Warning	50%-40%	118,880 to 95,104
3	Water Shortage Eminent	40%-30%	95,104 to 71,328
4	Severe Water Shortage	30%-25%	71,328 to 59,440
5	Critical Water Shortage	25%-0%	59,440 to 3,000
Note: This is <u>not</u> a DWR-Required table			

In addition, recent demand trends are evaluated to determine if they are within planned levels and whether additional demand reduction actions are recommended. During periods when Casitas is not in a declared water shortage stage, the recent demand trends are compared with the planned normal demands, which are reflected in Tables 4-2 and 4-3. During periods when Casitas is in a declared water stage, the recent demand trends are compared with the demand reduction goals outlined in Section 8.3 and the most current WEAP.

8.3. Six Standard Water Shortage Stages

Casitas water shortage planning is intended to address supply shortages ranging from a slowly developing drought to sudden and potentially catastrophic interruptions, such as earthquakes and/or failure of major system components. Stages 1 through 5 reflect the most recently adopted WEAP which primarily addresses drought conditions, and Stage 6 reflects a catastrophic emergency in which the Emergency Response Plan would be implemented. Table 8-1 reflects the DWR-required Water Shortage Contingency Plan levels and applies to both the Casitas and Ojai systems.

Submittal Table 8-1 Water Shortage Contingency Plan Levels		
Shortage Level	Complete Both	
	Percent Shortage Range ¹	Shortage Response Action
1	Up to 10%	Water Conservation: <u>Voluntary</u> conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
2	Up to 20%	Water Shortage Warning: <u>Mandatory</u> conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
3	Up to 30%	Water Shortage Eminent: <u>Mandatory</u> conservation measures to reduce water usage by up to 30%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
4	Up to 40%	Severe Water Shortage: <u>Mandatory</u> conservation measures to reduce water usage by up to 40%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
5	Up to 50%	Critical Water Shortage: <u>Mandatory</u> conservation measures to reduce water usage by up to 50%. Follow recommended response actions in most recently adopted WEAP. (Appendix F).
6	>50%	Catastrophic Water System Emergency: Limited to no water can be supplied due to infrastructure damage or failure. Follow recommended response actions in most recently adopted Emergency Response Plan.

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

8.4. Shortage Response Actions

This WSCP identifies various actions to be considered by the Casitas Board of Directors during the various water shortage stages, including public information, water conservation assistance, supply augmentation, water use regulations, issuance of new water meters, and demand tracking. In the event of a water shortage emergency, Casitas evaluates the cause of the emergency to help inform which response actions should be implemented. Depending on the nature of the water shortage, the Casitas can elect to implement one or several response actions to mitigate the shortage and reduce gaps

between supply and demand. Casitas acknowledges the importance of flexibility when responding to emergency conditions, and may adopt additional actions not listed here if necessary.

8.4.1. Demand Reduction

At all times, including normal and shortage conditions, Casitas implements a comprehensive water conservation program (Section 9). Public information, workshops, rebates, and tiered rates are ongoing during normal supply conditions and adjusted to meet target demand reductions during water shortage conditions.

8.4.1.1. *Stage 1-5 Demand Reduction Actions*

During drought conditions, the WEAP is a cornerstone policy for Casitas' demand management. The WEAP describes the water demand reduction strategies and measures to address water shortage conditions, promote water conservation and the efficient use of water, and the application of a penalty to customers who waste water. The WEAP was originally developed in response to the 1987-1991 drought period, and is updated and modified as needed. The collective work in 1992 set the starting point for a system of water allocation assignments and demand response criteria based on the level of water storage in Lake Casitas.

Under the WEAP, each customer is assigned an individual allocation based on reasonable use for their water use classification and property characteristics. The allocation is comprised of both essential and non-essential uses. As Lake Casitas levels decline, the non-essential portion of the allocations are reduced according to mandatory water use reductions associated with each declared water shortage stage. Casitas' customer billing system contains a database to compare actual water use against allocations on a monthly and annual basis, and the District may issue penalties for any excess water used over the allocated amount. In addition to water allocations, the District may consider additional specific water use prohibitions to augment its ongoing Water Waste Prevention Ordinance (Section 9.2.1). Implementation of the WEAP during the most recent drought has resulted in consistent overall demand reduction of approximately 50 percent (Figure 8-2).

The demand reduction actions for Stages 1-5, which pertain to declining lake levels during extended drought conditions, are summarized in the currently adopted WEAP (Appendix F, Table 6).

8.4.1.2. *Stage 6 Demand Reduction Actions*

Stage 6 reflects a catastrophic event in which limited to no water supply is available due to damaged or failed infrastructure; in which case, the District's Emergency Response Plan (ERP) is followed. The ERP includes emergency communication procedures for notifying the public about emergency water use restrictions, potential need to boil tap water before drinking, and locations where drinking water is available in the event of distribution system failure.

8.4.1.3. *Summary Table*

Table 8-2 is based on table formats required by DWR. Because the standard "drop down" lists did not include all of measures considered by Casitas, the table refers to the appropriate policy document to find more information on demand reduction actions. Table 8-2 applies to both Casitas and Ojai water systems.

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement?
1	Other	20% Voluntary	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	No
2	Other	20% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
3	Other	30% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
4	Other	40% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
5	Other	50% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
6	Other	>50% Mandatory	Catastrophic Emergency in which limited to no water is available. Response actions are outlined in Casitas' Emergency Response Plan.	Yes

8.4.2. Supply Augmentation

Historically, Casitas' water portfolio has been comprised only of local water sources, with as much as 99 percent coming from Lake Casitas, and the remaining supplies coming from a local groundwater well. In June 2017, Casitas acquired the Ojai Water System from the Golden State Water Company. The Ojai Water System is primarily fed by local groundwater wells, which are augmented by supply from Lake Casitas as needed.

While Casitas' water has historically come from local supplies, Casitas has contracted for up to 5,000 AFY of imported water from the State Water Project. Imported water has not been supplied to Casitas due to lack of local conveyance infrastructure to deliver the water. However, Casitas is planning regional interconnection projects (e.g. Ventura-Santa Barbara Counties Interconnection) to allow for delivery of supplemental water to mitigate drought and emergencies. The planned regional interconnection projects are described in UWMP Section 6.2.8. Table 8-3 summarizes Supply Augmentation and applies to both Casitas and Ojai water systems.

Submittal Table 8-3: Supply Augmentation and Other Actions			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>
1 through 6	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.

8.4.3. Operational Changes

To ensure a coordinated and consistent response across the entire organization, a Water Shortage Response Team is formed as soon as a potential shortage is identified and remains in operation until the water shortage declaration is lifted. The Water Shortage Response Team includes:

- General Manager
- Assistant General Manager
- Public Outreach and Conservation Manager
- Operations and Maintenance Manager
- Chief Financial Officer/Administrative Manager
- Engineering Manager
- Parks Services Manager
- Safety Officer
- Legal Counsel

The Water Shortage Response team may consider operational changes such as:

- Display messaging highlighting water-saving actions in key Casitas facilities, including public and communal areas such as restrooms, kitchens, and break rooms
- Limit vehicle washing
- Evaluate frequency of items laundered by laundering contractor
- Equip field staff with public information material about the drought and water use regulations, and educate staff on how to report water waste to enforcement staff
- Reduced reservoir cleaning
- Reuse plant processing water at water treatment plant
- Evaluate suspending capital improvement projects that are water intensive;
- Evaluate no-discharge flushing technologies.

8.4.4. Additional Mandatory Restrictions

This section is not applicable since mandatory water use restrictions during a declared water shortage condition are addressed in Section 8.1.1 Demand Reduction and further described in the most recently adopted WEAP (Appendix F).

8.4.5. Emergency Response Plan

Casitas has an adopted Emergency Response Plan and Casitas Dam Emergency Action Plan. In accordance with the American Water Infrastructure Act (AWIA), Casitas completed the AWIA Risk and Resilience Assessment at the end of 2020 and is on track to complete an updated Emergency Response Plan in 2021. Areas of improvement discovered during the assessment are being incorporated into the updated plan. The framework of the 2021 Emergency Response Plan is based on the AWIA Community Water Systems Emergency Response Plan and incorporates facets of the Incident Command Systems and National Incident Management Systems.

The Casitas Dam is owned by the USBR, which requires a specific Emergency Action Plan for the facility based on federal protocols and formats. USBR reviews the Casitas Dam Emergency Action Plan on annual basis with Casitas operations and engineering staff.

8.4.6. Seismic Risk Assessment and Mitigation Plan

As part of the 2015 Ventura County Multi-Hazard Mitigation Plan, Casitas evaluated seismic risk to water facilities and identified mitigation measures to reduce the risk. This plan, available at: www.vcfloodinfo.com/resources/ventura-county-hazards-mitigation-plan, meets the requirements of the federal Disaster Mitigation Act of 2000 (Public Law 106-390) as well as the requirements of Water Code Section 10644.

8.4.7. Shortage Response Action Effectiveness

Monthly monitoring of water use is part of regular procedures, during normal and water shortage conditions. Water is produced and distributed in response to customer demand and is tracked monthly as an indicator of overall demand. For demand analysis by customer class, geographic area, and usage level, Casitas' billing system provides standardized reports on monthly metered sales by bill code, as well as customized reports for specific areas of analysis.

During water shortage conditions, savings are measured in comparison to what is considered to be a normal-year demand (i.e., current customer base with approximately average rainfall) or in reference to a specific base year as may be dictated by statewide requirements.

8.5. Communication Protocols

A summary of public outreach and communication actions Casitas could potentially take during a specific shortage stage is outlined herein, although this serves as a guide rather than required actions.

8.5.1. Stage 1

To maximize the level of voluntary customer conservation the Stage 1 declaration is coupled with an enhanced public outreach campaign. Public outreach efforts focus on educating Casitas customers and the general public about current supply and demand conditions, encouraging customers to understand and commit to further reducing their water use, and providing tools and resources to customers to successfully reduce use. Information is provided on the plans for water shortage response and the importance of stretching local supplies.

Outreach activities may include:

- Press Release following Board Stage 1 Declaration
- Media interviews and inquiries
- District Newsletter – Water Supply Story, General Manager’s Message, and Water Conservation Tips
- District website – Updates to the home page, conservation, and water supply sections to provide conservation tools and tips for customers
- Ongoing social media posts with water conservation messages
- Ongoing conservation related billing statement messages
- Coordination with regional and statewide partners on messaging and outreach
- Outreach at community events (e.g., school fairs and programs, workshop with landscaping professionals, etc.)
- Outreach to hotels and restaurants to improve opportunities for customers to request daily washing of linens and water for the table, respectively
- Casitas employee outreach and education to promote consistent organizational messages related to water supply and conservation.

8.5.2. [Stage 2](#)

Public outreach efforts associated with Stage 2 focus on further educating and informing Casitas customers and the general public about current supply and demand conditions; notifying customers of new demand reduction targets and allocations, prohibited activities, and associated penalties for violations; and directing customers to tools and resources that will help them conserve water.

Outreach activities may include:

- Press Release following Board declaration of a Stage 2 Declaration
- Consider increased paid advertising — print, online, radio, TV, streaming, social media, movie theaters, buses, etc.
- Targeted outreach to customers with large landscapes regarding irrigation restrictions (i.e., schools, parks, property managers, agricultural customers, etc.)
- Postcard or letter to all District customers notifying of allocations, demand reduction programs and requirements, and penalties.
- Publish information on how to preserve most valuable landscaping (trees, edible plants, etc.), including appropriate watering systems and use of gray water
- Enlist support of business groups, such as the Chamber of Commerce, to help encourage conservation among commercial customers
- Educate customers on how to perform regular household meter reading and leak detection
- Publish “conservation stories” featuring individuals and businesses demonstrating leadership in water conservation
- Signage at Casitas public facilities to reduce water usage
- Signage or flyers posted in public places such as libraries and neighborhood centers
- Continued implementation of all other public outreach actions of Stage 1 (newsletters, website updates, social media posts, media interviews, billing statement messages, etc.).

8.5.3. [Stage 3](#)

Public outreach efforts associated with Stage 3 focus on large reductions in outdoor water use; notifying customers of heightened demand reduction targets and changes to allocations and penalties (if applicable); and directing customers to tools and resources to help them conserve water.

Outreach activities may include:

- Press Release following Board Stage 3 declaration
- Consider hiring a third party to assist with the launch of a major public outreach and education campaign
- Postcard/mailed to all customers regarding changes in allocations and penalties (if applicable)
- Expand and intensify all other public outreach actions of Stages 1 and 2 (newsletters, website updates, social media posts, media interviews, billing statement messages, etc.).

8.5.4. [Stage 4](#)

Public outreach efforts associated with Stage 4 focus on large reductions in outdoor water use, educating customers on the severity of the water supply situation, and notifying customers of heightened demand reduction targets and changes to allocations and penalties (if applicable).

Outreach activities may include:

- Press Release following Board Stage 4 declaration
- Implement major public outreach and education campaign
- Postcard/mailed to all customers regarding changes in allocations and penalties (if applicable)
- Provide regular media briefings and updates on supply situation
- Expand and intensify all other public outreach actions of Stages 1-3 (newsletters, website updates, social media posts, media interviews, billing statement messages, etc.).

8.5.5. [Stage 5](#)

Public outreach efforts associated with Stages 5 build on prior efforts and may incorporate elements of the communication plan included in the District's ERP.

Outreach activities may include:

- Press release following Board Stage 5 Declaration
- Press event at the District Headquarters
- Postcard/mailed to all customers regarding changes in allocations and penalties (if applicable)
- Continue to implement major public education campaign launched during Stage 3-4
- Contact large and critical customers notifying them of the water supply situation (hospital, medical clinics, agricultural customers, and others).

8.5.6. [Stage 6](#)

Public outreach efforts associated with Stages 6 should follow the crisis communication plan in the District's Emergency Response Plan.

Outreach activities may include:

- Press release following Board declaration of a catastrophic emergency

- Press events at the District Headquarters or other location
- Implementation of the District ERP, which includes communication procedures that would be used for notifying the public about emergency water use restrictions, potential need to boil tap water before drinking, locations where drinking water is available in the event of distribution system failure.

8.6. Compliance and Enforcement

At all times, during normal and shortage conditions, Casitas enforces a Water Waste Prohibition Ordinance (Section 9.2.1), which is part of normal Water Conservation Program activities. Customers found to be in violation are issued a written warning, and may be subject to a fine as authorized by the Ordinance 15-02 (Appendix G). During a declared water shortage condition, additional water use restrictions may be adopted, and Casitas may expand its enforcement of water waste prohibitions, including hiring additional staff as necessary.

In accordance with the WEAP, the Casitas Board of the Directors annually considers penalties applied to customers who use water in excess of their assigned water allocations. In the most recent drought, the Board adopted a penalty of \$5 per unit for any usage over the assigned allocation. District customers may appeal any decision made or fine imposed by filing a written appeal with the District.

8.7. Legal Authorities

Casitas has the legal authority to implement and enforce its WSCP. Relevant sections of the California Water Code (Water Code) include:

- **Water Code Section 100** provides that water must be put to beneficial use, the waste or unreasonable use or unreasonable method of use of water shall be prevented, and the conservation of water is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and public welfare.
- **Water Code Sections 350-359** provide that the governing body of a distributor of a public water supply shall declare a water shortage emergency condition to prevail within the service area whenever it finds and determines that the ordinary demands cannot be satisfied without depleting water supplies to the extent that there would be insufficient water for human consumption, sanitation, and fire protection. When deemed as a water shortage emergency in accordance with Water Code 350, Casitas shall follow the procedures provided by the Water Code in the implementation of the water shortage declaration and actions.
- **Water Code Section 71640** provides Casitas the authority to restrict the use of District water during any emergency caused by drought, or other threatened or existing water shortage, and the District may prohibit the wastage of District water or the use of District water during such periods for any purpose other than household uses or such other restricted uses as Casitas determines to be necessary. Casitas may also prohibit use of District water during such periods for specific uses which it finds to be nonessential.

Pursuant to these authorities, Casitas adopted Ordinance 15-02 (Appendix G), which prohibits the waste of water and imposes water conservation requirements on customers. In addition, Casitas developed policies within its WEAP and ERP for responding to water shortage conditions and emergencies. Casitas shall declare an emergency upon its determination that such condition exists. Emergencies may exist

due to long-term diminishment of the Lake Casitas water supply; or a catastrophic interruption due to earthquake, extended regional power outage, or landslides; or other major events that impact Casitas' water supply or infrastructure. Upon declaration of an emergency, Casitas shall coordinate with any City and County within which it provides water supply service for possible proclamation of an emergency. Casitas provides water service within Ventura County, the City of Ojai, and the City of Ventura.

The State of California, through its authority under the Water Code and Government Code, may declare a water shortage emergency and require curtailment of water use above and beyond the policies outlined in the Casitas WEAP. Customers of Casitas must respond and comply with the orders of the State in a timely manner. A failure to comply may cause the State to impose fines and penalties that will be redistributed to the customers of Casitas in a manner determined by the Casitas Board of Directors.

8.8. Financial Consequences of WSCP

In the event of additional water shortage measures being implemented, revenue from water sales (volumetric charges) is expected to decline as customers comply with the declared shortage. At the same time, the majority of operating costs are fixed in nature and do not increase or decrease as water use increases or decreases.

Operating costs such as water quality testing, routine maintenance and repairs, meter reading, and customer billing continue to rise every year. Additionally, as infrastructure ages, the pipelines and facilities needed to deliver water safely and reliably require regular preventative maintenance and upgrades to avoid emergency repairs, the costs of which also rise over time.

Penalties for excess water use beyond a customer's allocation are implemented to encourage conservation. The revenue incurred from these penalties can be used to cover the shortfall created by reduced water usage; in fiscal year 2019-20 the penalties only made up 5 percent of operating revenue and does not offset the overall decline in revenue from increased conservation.

As additional water shortage measures are implemented, staff costs including enforcement of conservation measures, monitoring and evaluation of water usage, drought planning, and dealing with customer questions and complaints are expected to increase.

Lower revenue resulting from decreased water use, combined with increasing operating costs, ultimately leads to a substantial shortfall. In an effort to mitigate the shortfall of reduced revenues Casitas implements a two-rate component bill among customers. The two-rate components include: (1) fixed charge based on the size of the water meter serving a property and (2) volumetric charge based on the amount of water served to a property. The percentage of revenue from fixed and volumetric charges is shown in Table 8-4 for the period from 2016 to 2020.

Table 8-4 Percentage of Fixed and Volumetric Revenue					
	2016	2017	2018	2019	2020
Fixed Charges	25%	25%	37%	46%	37%
Volumetric Charges	75%	75%	63%	54%	63%
NOTES: This is <u>not</u> a DWR-required table.					

Other actions include the utilization of reserve funds to offset the impact of reduced revenue. However, the reserves will eventually need to be restored. Capital infrastructure projects may also have to be delayed. Possible rate increases may be needed in order to mitigate the financial impact of demand and supply management actions during water shortages.

8.9. Monitoring and Reporting

Casitas performs water use monitoring procedures throughout its service area through the Supervisory Control and Data Acquisition (SCADA) system at the Casitas Dam source, all pump plants, and reservoirs. In addition, all service connections to the Casitas distribution system are metered and monitored on a month or bi-monthly basis. Casitas can detect irregularly high water use within a pressure zone, and inquire and identify the location of the irregular water use. Significant customer increases in water use are investigated by Casitas staff. In general the monitoring of water use is performed during each stage as follows, but may be intensified if conditions warrant:

- Stages 1 through 4: Water supply conditions, production data and reservoir elevations are recorded daily. Daily and monthly totals are supplied through the Engineering Department and incorporated into the Water Supply Report. Monthly reports include usage and total allocations for each customer category. A list of individual customers whose usage exceeds their allocation is submitted to the Water Conservation Supervisor for monitoring and outreach to assist the customer in attaining the water use reduction goals.
- Stages 5 and 6: Water use monitoring will occur as in Stages 1 through 4 and water production data from the MWWTP is reported to the General Manager on a daily basis.

8.10. WSCP Refinement Procedures

Casitas will convene the following departmental staff as needed to refine the WSCP:

- General Manager
- Assistant General Manager
- Engineering Manager
- Chief Financial Officer
- Public Outreach and Conservation Manager
- Operations and Maintenance Manager

The WSCP is updated and refined as appropriate following significant changes to Casitas' supply portfolio, and no less than every five years consistent with Urban Water Management Plan Updates. Any updates to the WSCP are adopted by the Casitas Board of Directors.

8.11. Special Water Feature Distinction

The Water Code requires an urban water supplier to analyze water features that are not pools or spas separately from pools and spas. Non-pool or non-spa water features may use or be able to use recycled water, whereas pools and spas must use potable water for health and safety considerations.

Casitas does not provide services to treat and distribute recycled water sourced by the wastewater system. Therefore, all water use restrictions imposed by Casitas pertain to potable water end use. Casitas Ordinance 15-02 prohibits the operation of any ornamental fountains and decorative water features unless water for such use is re-circulated. Under the current WEAP, the filling of swimming

pools, ornamental fountains, and decorative water features may be prohibited during heightened water shortage levels (Stage 4 or higher).

8.12. Plan Adoption, Submittal, and Availability

The public hearing for the Water Shortage Contingency Plan was noticed in two local newspapers (the Ventura County Star and Ojai Valley News), as prescribed in Government Code 6066, which included the time and place of the hearing (hearing held through electronic meeting platform on June 23, 2021). Interested parties, including other local agencies, were notified of the public hearing. The 2020 WSCP was made available from the Casitas website for public inspection prior to the public hearing, so comments could be received and discussed by the Board of Directors ahead of adoption.

The final draft of the WSCP was adopted by the Board of Directors by Resolution No. 2021-14 (provided in Appendix H) and was submitted to the Department of Water Resources (DWR) within thirty days of approval. Additionally, the adopted plan will be made available per the requirements of the Water Code.

Starting in 2020, urban water suppliers are required to report and submit information related to the Water Shortage Contingency Plan in standardized tables developed by DWR. The standardized tables for the 2020 UWMP are provided as Appendix I of this document.

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9. Demand Management Measures

The following sections describe the demand management measures Casitas uses for the wholesale and retail systems it operates.

9.1. Demand Management Measures for Wholesale Suppliers

Demand management measures for Casitas' wholesale system are described in the following subsections.

9.1.1. [Metering](#)

Casitas' wholesale customers are fully metered and are under a reactive meter replacement program. The oldest and largest meters are typically replaced first and on an as-needed basis. Replacement triggers are typically due to accuracy meter reading issues. Current Rockwell meters are dated and parts are very difficult to locate to warrant a repair-based program. Newer and more accurate Omni meters are installed.

Annual budget allocations are included for the reactive replacement program, with an anticipated five-year timeline for all wholesale meters to be replaced.

9.1.2. [Public Education and Outreach](#)

Customers of Casitas' wholesale accounts are included in all outreach and education opportunities, and additionally are eligible to apply for all rebate programs, provided they meet the requirements. These programs are described in more detail in Section 9.2.4.

9.1.3. [Water Conservation Program Coordination and Staffing Support](#)

Casitas full-time Water Conservation staff includes a Manager, a full-time specialist, an analyst, and a technician. These positions perform multiple water conservation-related tasks including: landscape, residential, and commercial surveys; administering the allocation program and rebate programs; preparing public information programs; and hosting special events and education programs. Casitas also uses consulting firms, as needed, to assist with the implementation of all of the Water Conservation Best Practices, including public outreach and education.

9.1.4. [Other Demand Management Measures](#)

Wholesale customers pay a fixed and volumetric water rate. The volumetric-based rate structure aids in demand management. Additionally, wholesale customers have allocations assigned to assist in demand management.

9.1.5. [Asset Management](#)

The District's GIS program started in earnest in 2018 with the addition of a GIS Technician in the Engineering Department. All District assets (facilities and infrastructure) are in the GIS portal. Casitas is implementing various applications to use GIS for asset management including Leaks and Repairs, Fire Hydrant Maintenance, and Valve Maintenance. As the GIS program matures, Casitas will make use of the data to manage ongoing asset management.

Casitas is preparing to develop a Casitas System Master Plan which will identify a ten-year capital improvement program for facilities in the Casitas system.

9.1.6. Wholesale Supplier Assistance Programs

Casitas does not currently have a Wholesale Supplier Assistance Program; however the District's rebate programs are available to all customers within the Casitas service area, including wholesale agency customers. Section 9.2.4 describes rebates and free-water saving devices available.

From August 2017 to October 2019, Casitas participated in a grant-funded regional turf replacement program with other local agencies including the City of Santa Paula and City of Ventura. Casitas had 23 customers apply and successfully complete the program resulting in 34,678 square feet of turf grass removed.

9.2. Demand Management Measures for Retail Suppliers

Demand management measures for Casitas' retail customers are described in the following subsections.

9.2.1. Water Waste Prevention Ordinances

Ordinance No. 15-02 Establishing Water Waste Prohibitions is provided in Appendix G.

The District's website has a link for anonymous reporting of water waste. Notice of Water Waste door hangers are hung at customer's residences when water waste is reported. Information displayed on the door hangers includes the location, date, time, and type of water waste observed. Types of water waste prohibited and increasing violation warnings and penalties are displayed, as well as contact information to allow the customer to ask any questions or schedule a free water use survey to assist them in identifying solutions to prevent water waste and use water more efficiently.

9.2.2. Metering

All Casitas' retail customers are fully metered. Small and large retail meters in the Casitas System are replaced as needed over time through a reactive replacement program. Ojai Water System retail meters were entirely replaced upon system integration from Golden State Water Company in October 2017 with iPerl meters.

Automatic Meter Reading (AMR) is used as a drive-by method once per month. If a meter read results in an unusual recording compared with historical use data, it is flagged to be verified and checked. The customer is notified of any unusual water use.

9.2.3. Conservation Pricing

Casitas has implemented conservation pricing for decades. Currently, there is a three-tier residential rate structure supporting water conservation incentive. Casitas' current rates are included as Appendix J.

9.2.4. Public Education and Outreach

The District's public education and outreach program is managed by the Water Conservation Manager and includes marketing of rebates and giveaways.

The Water Survey Program is a free service to provide indoor and outdoor water-saving assistance, ultimately lowering customer's water bill. Casitas offers on-site surveys for indoor and outdoor water use of single-family and multi-family residential customers as well as for commercial customers in the service area. The indoor survey includes a test of showerhead and faucet flow rates, an estimate of toilet flush volumes, a review of all water-using appliances and a test for toilet leaks. The outdoor survey

includes a review of the irrigation system, irrigation design, and watering schedules. The survey also includes reading the meter to reveal possible leaks in the customer's system.

Casitas provides the following water conservation devices free of charge to all customers in the service area: earth showerhead, kitchen aerator with swivel, 1.5 gallons-per minute bathroom faucet aerator, toilet flapper, dye tablets, and shower shut-off valves.

Casitas participates in Smart Rebates, a statewide program administered by the California Water Efficiency Partnership that offers a list of measures for conservation products and appliance rebates available for eligible customers. The Smart Rebates Program is made possible with funding assistance from participating water utilities.

Smart Irrigation Controller Rebates are available to all eligible Casitas customers. The goal of the smart irrigation controller rebate program is to increase irrigation efficiency and promote healthy and attractive landscaping within Casitas' district boundaries. It saves water and lowers customer's bills.

Casitas offers a free hobby farm survey and rebate program for those customers with one to two acres of planted agriculture.

The goal of the Agricultural Rebate Program is to encourage water use efficiency for farms within Casitas boundaries. District customers who enlist in an irrigation evaluation through the Ventura County Resource Conservation District (VCRCD) and who implement water use efficiency recommendations provided by the VCRCD are eligible to qualify for a rebate from Casitas.

Customer water bills include a monthly usage bar chart; usage for the current year and previous year comparison; allocation section that includes the current monthly allocation, current month usage, usage under allocation, and next month's allocation; and a special message section that allows for a variety of communication topics, including conservation tips.

Event booths are provided to share water conservation information, water conservation devices, District information, and Casitas Lake levels to the public. These type of booths are available at the annual Ojai Day event and Ventura County Fair.

Tours of Casitas' facilities are scheduled periodically for District customers and interested participants to learn more about the District water facilities, supplies and important issues.

Regular Board Meetings are held twice a month and are open to the public.

A semi-annual newsletter provides project updates, conservation tips, Lake Casitas water level updates, drought updates, and current events that may have an impact on water services.

Casitas' website www.casitaswater.org is the most comprehensive source of information for Casitas' customers. Other informative websites linked on Casitas' website are:

- <http://www.gardensoft.com> partners with water districts and municipalities to educate homeowners about water conservation in the landscape.
- www.venturacountygardening.com Water Wise Gardening in Ventura County – This website resource offers customers a personalized plant database that they can develop for their specific landscape needs.

Casitas utilizes social media such as Facebook and Twitter as an additional way to communicate District news, updates and projects.

Casitas coordinates with local and county newspapers to release advertisements for water conservation, current projects, District updates, and legal notices.

9.2.5. Programs to Assess and Manage Distribution System Real Loss

System losses are described in Section 4.2.4. Leaks and breaks are repaired as soon as Casitas staff is made aware of them. The OWS has experienced a significant number of leaks and breaks, at three times the rate of the Casitas system. The Ojai Water System Improvements (OWSI) projects include pipeline replacements of aged and under-sized cast iron pipes. The District's website includes regular project updates for the community at <https://www.casitaswater.org/for-customers/your-district-at-work>.

9.3. Implementation Over the Past Five Years

Casitas' program implementation over the past five years is discussed in the following subsections.

9.3.1. Water Survey Programs

Casitas began its water survey programs for single-family and multi-family residential customers for direct retail customers and for wholesale agency customers in February 2010.

Casitas' direct survey program includes evaluating all indoor and outdoor water use. A meter check is provided to check for leaks, landscape is thoroughly inspected for irrigation efficiency and plant type. Low-flow showerheads, kitchen aerators, and bathroom aerators are provided, if needed. All toilets and faucets are inspected for leaks. The customer is provided with a report including recommendations and suggestions of how to improve their water efficiency for both indoor and outdoor use. The end of each report includes all current rebate opportunities, a list of free aerators available, and links to the water conservation page on Casitas' website.

9.3.2. Water Conservation Devices

Casitas provides free low-flow showerheads, faucet aerators, toilet flappers, leak detection kits, and automatic hose shut-off nozzles to all residents within the district boundaries. Casitas advertises these devices in the semi-annual newsletter, the Casitas website, and bill messages.

Casitas tracks the distribution of these water saving devices by keeping a log indicating:

- Type of device provided
- Which event (if any) the aerators are being distributed
- Class of service (Single-family, Multi-family, Commercial, etc)
- Which water agency they belong to within the District boundary

9.3.3. Smart Rebates: High-Efficiency Washing Machine and Toilet Rebate Program

Casitas began its washing machine rebate program in 2007. Casitas joined the Smart Rebate program which is run by the California Water Efficiency Partnership (CalWEP) and also includes high efficiency toilets. Casitas provides advertising and leaves the processing of rebates to CalWEP. Table 9-1 shows the number of washing machine rebates provided from 2016 to 2020.

Table 9-1 Washing Machine Rebates Completed					
	2016	2017	2018	2019	2020
\$ Per Rebate	\$150 Residential \$400 Commercial	\$150 Residential \$400 Commercial	\$150 Residential \$400 Commercial	\$150 Residential \$400 Commercial	\$150 Residential \$400 Commercial
# of Rebates completed	31	44	97	50	48
NOTES: This is <u>not</u> a DWR-required table.					

Table 9-2 shows the number of toilet rebates completed from 2016 to 2020.

Table 9-2 Toilet Rebates Completed					
	2016	2017	2018	2019	2020
\$ Per Rebate	\$100 Residential \$200 Commercial	\$100 Residential \$200 Commercial	\$100 Residential \$200 Commercial	\$100 Residential \$200 Commercial	\$100 Residential \$200 Commercial
# of Rebates completed	24	36	53	28	23
NOTES: This is <u>not</u> a DWR-required table.					

9.3.4. [Smart Irrigation Controller Rebates](#)

Casitas offers a rebate of up to \$250 per customer for the purchase of a smart irrigation controller from a preapproved list of manufacturer models. Smart irrigation controllers automatically adjust irrigation schedules based on actual site and real-time weather conditions. They stop irrigating when it rains and apply the most efficient amount during dry weather, including automatic cycle and soak to reduce runoff on slopes. Once a customer applies and qualifies for a smart irrigation controller rebate, a site visit by a Casitas staff member is required to ensure the device is actually installed. Table 9-3 summarizes the smart irrigation controller rebates completed from 2016 to 2020.

Table 9-3 Smart Irrigation Controller Rebates Completed					
	2016	2017	2018	2019	2020
\$ Per Rebate	Up to \$250	Up to \$250	Up to \$250	Up to \$250	Up to \$250
# of Rebates completed	7	7	7	7	6
NOTES: This is <u>not</u> a DWR-required table.					

9.3.5. [Hobby Farm Survey and Rebate Program](#)

The Hobby Farm Rebate Program encourages greater water use efficiency for small “hobby” farms under two-acres, maintained without the expectation of a primary income source. In partnership with the VCRCD, an irrigation evaluation is performed to identify water conservation opportunities from which the applicant can choose to implement. The applicant may be eligible to implement some or all of the recommendations with a rebate not to exceed 50 percent of the total receipt amount or \$400.

9.3.6. [Agricultural Rebate Program](#)

Like the Hobby Farm Survey and Rebate Program, the Agriculture Rebate Program is a partnership with the VCRCD. Customers with an Agriculture classification who wish to participate will coordinate with the

VCRCDD to schedule and complete an irrigation evaluation. Upon completion of the evaluation, the VCRCDD representative provides the customer with a complete report and recommendations. If the customer purchases and installs equipment within 60 days of receiving the recommendations, they are eligible to complete the rebate application with Casitas. Total rebate amount does not exceed 50 percent of the receipt amount or \$650. Rebates are provided on a first-come, first-served basis until all designated funds are expended.

9.3.7. Public Information & Outreach Programs

Casitas’ public information program started in 2003. It currently includes publishing a semi-annual newsletter to provide information on water conservation to all residents in the District. Water bills include information on previous usage, and every statement has a space for custom messaging to the customer. Bill inserts are often included to ensure there is consistent contact with customers on a variety of topics, including conservation. Press releases, op-eds, public notices and general ads are placed in two local print publications regularly. Casitas removed all turf from the main office and replaced it with drought tolerant plants. The office is located on a main thoroughfare within the District providing high visibility for the drought tolerant plantings and therefore sets a significant example for customers.

District staff members attend multiple community meetings throughout the year and discuss water conservation issues as part of their presentations. Casitas staff tables at community events and offers give-a-ways such as free toilet flappers, low flow showerheads, and faucet aerators. The Board of Directors hold two meetings per month that are open to the public. In 2017, Casitas implemented an increased presence on social media platforms, specifically Facebook and Twitter. Lastly, www.casitaswater.org is the primary consortium for all information related to Casitas Municipal Water District and is referred to in all published outreach material. Table 9-4 summarizes the public information and outreach programs implemented from 2016 to 2020.

Table 9-4 Public Information and Outreach Programs Completed					
	2016	2017	2018	2019	2020
Paid Advertising	Yes	Yes	Yes	Yes	Yes
Public Service Announcement	Yes	Yes	Yes	Yes	Yes
Bill inserts, Newsletters, Brochures	Yes	Yes	Yes	Yes	Yes
Bill comparing previous water usage	Yes	Yes	Yes	Yes	Yes
Demonstration Garden	Yes	Yes	Yes	Yes	Yes
Special Events, Media Events	Yes	Yes	Yes	Yes	No*
Coordination with other government entities	Yes	Yes	Yes	Yes	Yes
NOTES: This is <u>not</u> a DWR-required table.					
*Due to COVID-19 public events were cancelled					

9.3.8. Conservation Pricing

Casitas’ water bills are made up of a fixed and volumetric component, and all customers are billed monthly. The volumetric component is billed based on the amount of water used and encourages conservation. Residential and Agriculture Domestic classifications have a three tier volumetric rate

structure consisting of Tier 1 (0 – 10 units¹¹); Tier 2 (11 – 50 units); and Tier 3 (51+ units). Agriculture Domestic is a class for Agriculture customers who have a legal residential dwelling unit on the same property as their crop. They are billed a tiered Residential Rate through the first two tiers (up to 50 units), and are then charged the uniform Agriculture rate for 50+ units. All other customer classifications are billed based on uniform volumetric rate. Table 9-5 summarizes the rate structure for retail customers of the Casitas and Ojai systems, and the water rates are provided in Appendix J.

Table 9-5 Retail Volumetric Rate Structure	
Customer Type	Volumetric Water Rate Structure
Residential	Tiered Conservation Pricing
Commercial	Uniform
Industrial	Uniform
Institutional/Government	Uniform
Agricultural	Uniform
Ag-Domestic	Tiered Conservation & Uniform
Other	Uniform

Table 9-6 summarizes the wholesale volumetric water rate structure.

Table 9-6 Wholesale Volumetric Rate Structure	
Customer Type	Volumetric Water Rate Structure
Wholesale (Resale)	Uniform

9.3.9. [Water Waste Prohibition](#)

Section 22, Regulation Prohibiting Water Waste, is adopted in Casitas’ Rates and Regulations as discussed in Section 9.2.1.

9.4. Water Use Objectives (Future Requirements)

On April 7, 2017, the state of California released the “Making Water Conservation a California Way of Life, Implementing Executive Order B-37-16” Final Framework Report¹² (State Framework Report). The State Framework Report, which builds upon Governor Brown’s call for new long-term water use efficiency requirements in Executive Order (EO) B-37-16, provided the state’s proposed approach for implementing new long-term water conservation requirements. A key element of the report is the proposed new water use targets for urban water suppliers that go beyond existing SB X7-7 requirements.

On May 17, 2018, the California Legislature adopted SB 606 and AB 1668 to implement new long-term water use efficiency requirements. The legislation requires the State Water Resources Control Board, in coordination with DWR, to adopt long-term standards for the efficient use of water. The legislation establishes specified standards for per capita daily indoor residential use. In addition, the SWRCB will adopt standards for outdoor water use, CII water use, and water loss.

¹¹ A billing unit is one hundred cubic feet per month (HCF/month).

¹² California Department of Water Resources, et al. (2017). *Making Water Conservation a California Way of Life, Implementing Executive Order B-37-16*

The legislation requires each urban retail water supplier to calculate and report an urban water use objective, which is an estimate of aggregate efficient water use for the previous year based on the adopted water use efficiency standards. Urban retail water suppliers will be required to calculate and report urban water use objectives by November 1, 2023 and by November every year thereafter, and to compare actual water use to the objective for the prior year by the same date.

The bills grant SWRCB the authority to enforce compliance with the urban water use objectives, with enforcement actions ramping up over the first three years of implementation. The bills also establish a schedule for state agencies to develop the methodology for implementing the requirements, as presented in Figure 9-1.

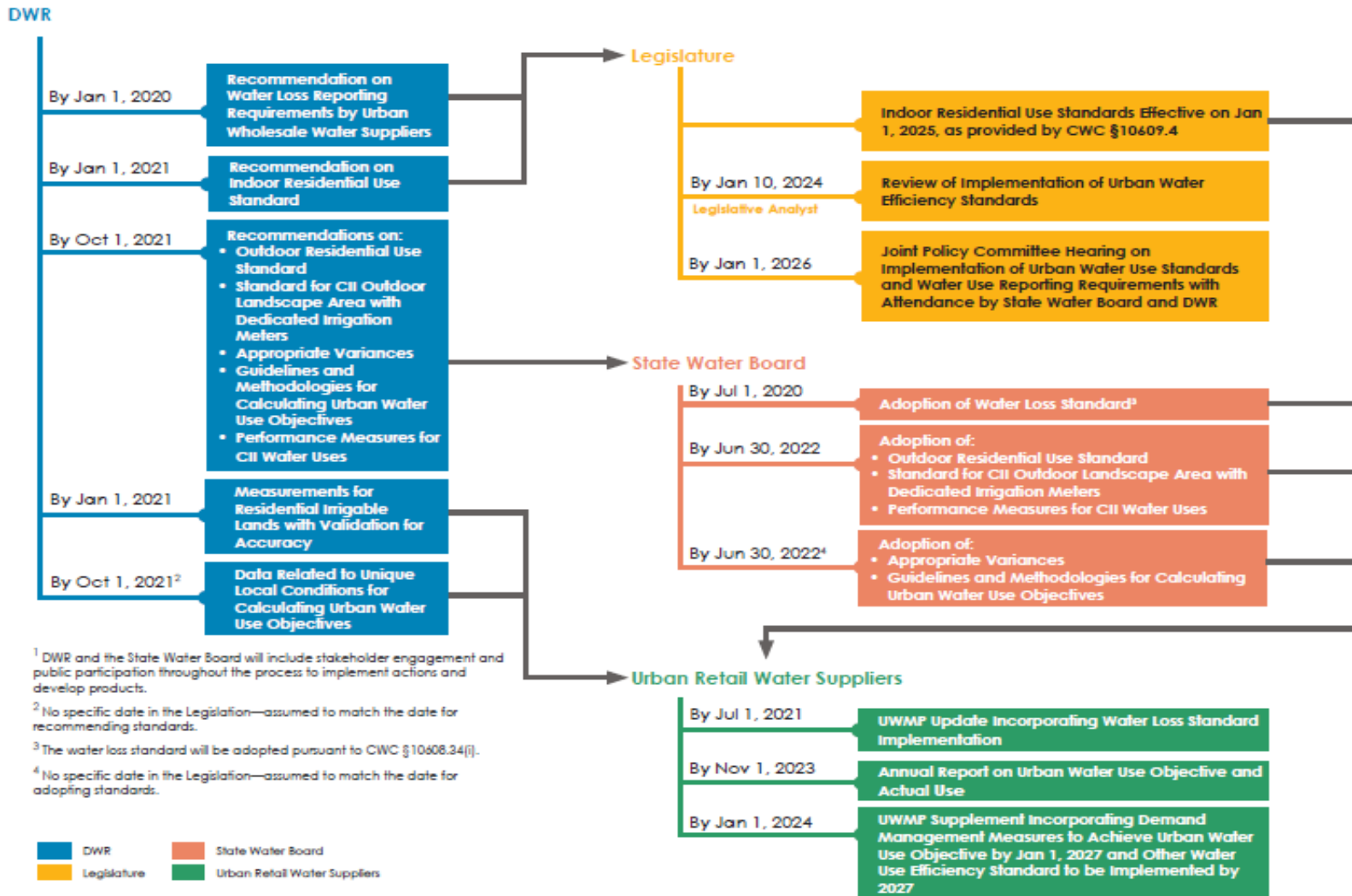
Casitas continues to track the State's development of the new water efficiency standards. Next steps in for Casitas conservation staff include:

- Engage in the State processes of establishing the urban water supplier efficiency standards as part of SB 606 and AB 1668. Casitas will review State documents, submit written comments as needed, and participate in public workshops and stakeholder groups.
- Form partnerships and apply for grants where appropriate.
- Continue to collect and analyze customer participation in conservation measures, costs, and other data to gauge successes and areas that need improvement.

With Casitas' existing WEAP, the District is well positioned to meet the State's future water use objectives. The WEAP provides a similar water use budgeting framework with an essential allocation for indoor water use and a non-essential allocation for outdoor water use (refer to Appendix F for allocation methods). A key work effort for Casitas will be to review the State's data and methodology in comparison with the District's allocation methods. In addition, Casitas will review its planned water use and WEAP policies to ensure they meet or exceed the State's water use objectives.

Figure 9-1. Major Actions Related to Making Conservation a Way of Life Legislation (SB 606 and AB 1668)¹³

Major Actions and Products Required to Implement Water Use Efficiency Standards and Urban Retail Water Supplier's Annual Reporting Requirements¹



¹³ Source: Making Conservation a Way of Life Primer of 2018 Legislation on Water Conservation and Drought Planning SB 606 and AB 1668, prepared by DWR and SWRCB, November 2018.

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10. Plan Adoption, Submittal, and Implementation

This section describes the public notifications and requirements for the 2020 UWMP adoption, submittal, and implementation.

10.1. Inclusion of all 2020 Data

This UWMP includes all data for calendar year 2020.

10.2. Notice of Public Hearing

This section describes notifications to Cities, Counties, and the public in compliance with the appropriate provisions of the Water Code.

10.2.1. Notice to Cities and Counties

Notice to Cities and Counties are described in the following subsections.

10.2.1.1. *60-Day Notification*

A sample letter sent to Cities and Counties is provided in Appendix B. The letter meets the requirements for 60-day notification.

10.2.1.2. *Notice of Public Hearing*

The Notice of Public Hearings for adoption of the Water Shortage Contingency Plan and the 2020 Urban Water Management Plan were provided for the Casitas Wholesale system, Casitas Retail system, and Ojai Retail system are described in the following subsections.

Casitas Wholesale System. Notifications regarding the Casitas wholesale system were sent to the City of Ventura and the County of Ventura as shown in Table 10-1.

Submittal Table 10-1 Wholesale: Notification to Cities and Counties (select one)		
<input type="checkbox"/>	Supplier has notified more than 10 cities or counties in accordance with Water Code Sections 10621 (b) and 10642. Completion of the table below is not required. Provide a separate list of the cities and counties that were notified	
<input checked="" type="checkbox"/>	Supplier has notified 10 or fewer cities or counties. Complete the table below.	
City Name	60 Day Notice	Notice of Public Hearing
City of Ventura	Yes	Yes
County Name	60 Day Notice	Notice of Public Hearing
Ventura County	Yes	Yes

Casitas Retail System. For the Casitas Retail system, notification was sent to the City of Ojai and County of Ventura as shown in Table 10-1 Casitas Retail.

Submittal Table 10-1 Retail: Notification to Cities and Counties		
City Name	60 Day Notice	Notice of Public Hearing
Ojai	Yes	Yes
County Name	60 Day Notice	Notice of Public Hearing
Ventura County	Yes	Yes

Ojai Water System. For the Ojai Retail system, notification was sent to the City of Ojai and County of Ventura as shown in Table 10-1 Ojai Retail.

Submittal Table 10-1 Retail: Notification to Cities and Counties		
City Name	60 Day Notice	Notice of Public Hearing
Ojai	Yes	Yes
County Name	60 Day Notice	Notice of Public Hearing
Ventura County	Yes	Yes

10.2.2. [Notice to the Public](#)

Notifications regarding the public hearings for adoption of the Water Shortage Contingency Plan and 2020 Urban Water Management plan were published in the Ventura County Star on June 4 and June 11, 2021. A copy of the notification and proof of publication are included in Appendix K.

10.3. [Public Hearing and Adoption](#)

This section describes Casitas compliance with the Public Hearing and Adoption requirements of Water Code Section 10642.

10.3.1. [Public Hearing](#)

The public hearing included discussion of include baseline values, water use targets and compliance, and implementation plan in compliance with SB X7-7. A copy of the presentation provided during the public hearing is provided in Appendix L.

10.3.2. [Adoption](#)

The Board of Directors considered and adopted the WSCP and 2020 UWMP at their meeting of May 26, 2021. A copy of the Resolution is provided in Appendix H.

10.4. [Plan Submittal](#)

Casitas submitted the WSCP and 2020 UWMP in accordance with Water Code Section 10621.

10.4.1. Submitting a UWMP and Water Shortage Contingency Plan to DWR

The 2020 UWMP including the WSCP was submitted to DWR within 30 days of adoption.

10.4.2. Electronic Data Submittal

The 2020 UWMP including the WSCP was submitted to DWR via the web portal

<https://wuedata.water.ca.gov>.

10.4.3. Submitting a UWMP, including WSCP, to the California State Library

The 2020 UWMP including the WSCP was submitted within 30 days of adoption via hardcopy to the California State Library at:

California State Library
Government Publications Section
Attention: Coordinator, Urban Water Management Plans
PO Box 942837
Sacramento CA 94237-0001

10.4.4. Submitting a UWMP to Cities and Counties

The 2020 UWMP including the WSCP was submitted within 30 days of adoption to the City of Ventura, City of Ojai, and County of Ventura electronically via email.

10.5. Public Availability

The adopted 2020 UWMP including WSCP was made available to the public on the District's website <https://www.casitaswater.org/about-us/engineering/engineering-reports-and-master-plans>. The District's main office is closed to the public due to the COVID-19 pandemic. When reopened, hard copies will be available in the District lobby.

10.6. Notification to Public Utilities Commission

This section does not apply to Casitas.

10.7. Amending an Adopted UWMP or Water Shortage Contingency Plan

If circumstances warrant, Casitas will amend the 2020 UWMP or Water Shortage Contingency Plan as necessary and provide such amendment(s) to DWR.

10.7.1. Amending a UWMP

In the event Casitas amends its 2020 UWMP, the steps for notification, public hearing, adoption, and submittal will be followed for the amended plan.

10.7.2. Amending a Water Shortage Contingency Plan

In the event Casitas amends its WSCP, it shall be submitted to DWR no later than 30 days after adoption through the WUE portal.

Appendix A

Sample Letter to Other Agencies



February 16, 2021

Jamie Whiteford
Ventura River Watershed Coordinator
3380 Somis Road
Somis CA 93066

Subject: 2020 Urban Water Management Plan Update

The Casitas Municipal Water District (Casitas) is currently in the process of updating its Urban Water Management Plan (UWMP). The Urban Water Management Planning Act, Water Code Section 10610 et seq., requires every “urban water supplier” providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually to prepare and adopt an UWMP and periodically update that plan at least every five years. The UWMP is a planning document and a source document which reports, describes and evaluates water deliveries and uses, water supply sources and conservation efforts.

As an urban water supplier, Casitas coordinates with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP update. Casitas will be reviewing the UWMP and will make amendments and updates, as appropriate.

If you wish to contact Casitas about its review process, you may do so by contacting Julia Aranda, PE, Engineering Manager, at 805.649.2251 x107 or by email to jaranda@casitaswater.com.

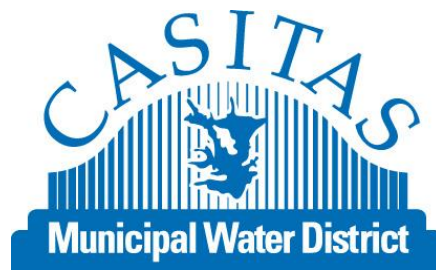
Sincerely,

A handwritten signature in blue ink that reads "M. Flood".

Michael Flood
General Manager
805.649.2251
mflood@casitaswater.com

Appendix B

Sample Letter to City/County



February 16, 2021

James Vega
City of Ojai
401 S. Ventura St
Ojai CA 93023

Subject: 2020 Urban Water Management Plan Update

The Casitas Municipal Water District (Casitas) is currently in the process of updating its Urban Water Management Plan (UWMP). The Urban Water Management Planning Act, Water Code Section 10610 et seq., requires every “urban water supplier” providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually to prepare and adopt an UWMP and periodically update that plan at least every five years. The UWMP is a planning document and a source document which reports, describes and evaluates water deliveries and uses, water supply sources and conservation efforts.

As an urban water supplier, Casitas coordinates with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP update. Casitas will be reviewing the UWMP and will make amendments and updates, as appropriate.

If you wish to contact Casitas about its review process, you may do so by contacting Julia Aranda, PE, Engineering Manager, at 805.649.2251 x107 or by email to jaranda@casitaswater.com.

Sincerely,

A handwritten signature in blue ink that reads "M. Flood".

Michael Flood
General Manager
805.649.2251
mflood@casitaswater.com



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association
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? Click to access definition
+ Click to add a comment

Water Audit Report for: **Casitas Municipal Water District (5610024)**
Reporting Year: **2016** / 1/2016 - 12/2016

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 (n/a or 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

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+ ?	5	14,186.158	acre-ft/yr
Water imported:	+ ?	n/a	0.000	acre-ft/yr
Water exported:	+ ?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
+ ? 9	89.640	acre-ft/yr
+ ?		acre-ft/yr
+ ?		acre-ft/yr

WATER SUPPLIED: **14,096.518** acre-ft/yr

Enter negative % or value for under-registration
Enter positive % or value for over-registration

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	12,796.000	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled unmetered:	+ ?	6	12.370	acre-ft/yr

AUTHORIZED CONSUMPTION: **12,808.370** acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:	acre-ft/yr
	12.370	acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt:	Value:	acre-ft/yr
0.25%		acre-ft/yr

1.00%		acre-ft/yr
0.25%		acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

1,288.148 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **35.241** acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+ ?	5	129.253	acre-ft/yr
Systematic data handling errors:	+ ?		31.990	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: **196.484** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **1,091.664** acre-ft/yr

WATER LOSSES: **1,288.148** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,300.518** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	6	97.0	miles
Number of active AND inactive service connections:	+ ?	9	3,197	
Service connection density:	?		33	conn./mile main

Are customer meters typically located at the curbstop or property line? (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line: + ?

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: + ? 5 80.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$10,714,070	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	9	\$1.15	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$131.00	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association

?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Casitas Municipal Water District**
 Reporting Year: **2017** 1/2017 - 12/2017

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 (n/a or 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

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+	?	7	13,353.980	acre-ft/yr
Water imported:	+	?	3	37.770	acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

	Pcnt:	Value:	
+	3	<input type="text"/>	acre-ft/yr
+	1	<input type="text"/>	acre-ft/yr
+		<input type="text"/>	acre-ft/yr

Enter negative % or value for under-registration
 Enter positive % or value for over-registration

WATER SUPPLIED: **13,391.750** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	5	12,036.000	acre-ft/yr
Billed unmetered:	+	?	n/a		acre-ft/yr
Unbilled metered:	+	?	9	84.000	acre-ft/yr
Unbilled unmetered:	+	?	5	33.479	acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:
<input type="text"/>	33.479

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: **12,153.479** acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

1,238.271 acre-ft/yr

Apparent Losses

Unauthorized consumption: **33.479** acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	3	122.424	acre-ft/yr
Systematic data handling errors:	+	?	5	30.090	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: **185.994** acre-ft/yr

Pcnt:	Value:
0.25%	<input type="text"/>

Pcnt:	Value:
1.00%	<input type="text"/>
0.25%	<input type="text"/>

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **1,052.277** acre-ft/yr

WATER LOSSES: **1,238.271** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,355.750** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	8	162.6	miles
Number of active AND inactive service connections:	+	?	7	6,178	
Service connection density:	?			38	conn./mile main

Are customer meters typically located at the curbside or property line? Yes

Average length of customer service line:

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

(length of service line, beyond the property boundary, that is the responsibility of the utility)

Average operating pressure: 92.3 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$21,484,456	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	9	\$1.03	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	5	\$112.65	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 67 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: Customer metering inaccuracies

3: Billed metered



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association
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?
+

Water Audit Report for: **Casitas Municipal Water District (CA5610024/CA5610014)**
Reporting Year: **2018** 1/2018 - 12/2018

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 (n/a or 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

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+ ?	7	13,162.640	acre-ft/yr
Water imported:	+ ?	3	44.490	acre-ft/yr
Water exported:	+ ?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
+ ? 3	<input type="radio"/> <input checked="" type="radio"/>	
+ ? 1	<input checked="" type="radio"/> <input type="radio"/>	
+ ?	<input checked="" type="radio"/> <input type="radio"/>	

Enter negative % or value for under-registration
Enter positive % or value for over-registration

WATER SUPPLIED: **13,207.130** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	5	12,020.000	acre-ft/yr
Billed unmetered:	+ ?	n/a		acre-ft/yr
Unbilled metered:	+ ?	9	149.000	acre-ft/yr
Unbilled unmetered:	+ ?	5	33.018	acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:	acre-ft/yr
	<input type="radio"/> <input checked="" type="radio"/>	33.018

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: **12,202.018** acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

1,005.112 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **33.018** acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+ ?	3	122.919	acre-ft/yr
Systematic data handling errors:	+ ?	5	30.050	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: **185.987** acre-ft/yr

Pcnt:	Value:	acre-ft/yr
0.25%	<input checked="" type="radio"/> <input type="radio"/>	

1.00%	<input checked="" type="radio"/> <input type="radio"/>	
0.25%	<input checked="" type="radio"/> <input type="radio"/>	

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **819.125** acre-ft/yr

WATER LOSSES: **1,005.112** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,187.130** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	8	162.6	miles
Number of <u>active AND inactive</u> service connections:	+ ?	7	6,161	
Service connection density:	?		38	conn./mile main

Are customer meters typically located at the curbside or property line?

Average length of customer service line: + ? (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: + ? 5 92.3 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$24,362,414	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	9	\$1.21	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$144.13	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 67 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: Customer metering inaccuracies
- 3: Billed metered



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association

?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Casitas Municipal Water District (CA5610024/CA5610014)**
 Reporting Year: **2019** 1/2019 - 12/2019

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 (n/a or 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

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+	?	7	9,340.110	acre-ft/yr
Water imported:	+	?	3	19.950	acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

	Pcnt:	Value:	
+	3	<input type="radio"/>	<input type="radio"/>
+	1	<input type="radio"/>	<input type="radio"/>
+		<input type="radio"/>	<input type="radio"/>

Enter negative % or value for under-registration
 Enter positive % or value for over-registration

WATER SUPPLIED: 9,360.060 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	5	8,361.000	acre-ft/yr
Billed unmetered:	+	?	n/a		acre-ft/yr
Unbilled metered:	+	?	9	130.000	acre-ft/yr
Unbilled unmetered:	+	?	5	23.400	acre-ft/yr

Click here: ?
 for help using option buttons below

Pcnt:	Value:
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	23.400

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: ? 8,514.400 acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

845.660 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? 23.400 acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	3	85.768	acre-ft/yr
Systematic data handling errors:	+	?	5	20.903	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: ? 130.070 acre-ft/yr

Pcnt:	Value:
0.25%	<input type="radio"/>

1.00%	<input type="radio"/>
0.25%	<input type="radio"/>

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **715.590** acre-ft/yr

WATER LOSSES: 845.660 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: ? 999.060 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	8	162.6	miles
Number of active AND inactive service connections:	+	?	7	6,159	
Service connection density:	?			38	conn./mile main

Are customer meters typically located at the curbside or property line?

Average length of customer service line: + ?

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: + ? 5 92.3 psi

(length of service line, beyond the property boundary, that is the responsibility of the utility)

COST DATA

Total annual cost of operating water system:	+	?	10	\$21,723,178	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	9	\$1.52	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	5	\$121.90	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 67 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: Customer metering inaccuracies
- 3: Billed metered



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association

?	Click to access definition
+	Click to add a comment

Water Audit Report for: Casitas Municipal Water District (CA5610024/CA5610014)
Reporting Year: 2020 1/2020 - 12/2020

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 (n/a or 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

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+	?	7	12,295.870	acre-ft/yr
Water imported:	+	?	3	23.100	acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

	Pcnt:	Value:	
+	3	<input type="radio"/>	<input type="radio"/>
+	1	<input type="radio"/>	<input type="radio"/>
+		<input type="radio"/>	<input type="radio"/>

Enter negative % or value for under-registration
 Enter positive % or value for over-registration

WATER SUPPLIED: 12,318.970 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	5	11,703.000	acre-ft/yr
Billed unmetered:	+	?	n/a	0.000	acre-ft/yr
Unbilled metered:	+	?	9	134.000	acre-ft/yr
Unbilled unmetered:	+	?	5	30.797	acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:
<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	30.797

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: 11,867.797 acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

451.173 acre-ft/yr

Apparent Losses

Unauthorized consumption: 30.797 acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	3	119.566	acre-ft/yr
Systematic data handling errors:	+	?	5	29.258	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: 179.621 acre-ft/yr

Pcnt:	Value:
0.25%	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>

1.00%	<input type="radio"/>
0.25%	<input checked="" type="radio"/>

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 271.552 acre-ft/yr

WATER LOSSES: 451.173 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 615.970 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	8	163.8	miles
Number of active AND inactive service connections:	+	?	7	6,166	
Service connection density:	?			38	conn./mile main

Are customer meters typically located at the curbside or property line? Yes

Average length of customer service line: 0

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

(length of service line, beyond the property boundary, that is the responsibility of the utility)

Average operating pressure: 92.3 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$23,432,531	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	9	\$1.45	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	5	\$154.82	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 67 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: Customer metering inaccuracies
- 3: Billed metered

FY2021-22 Casitas Water Supply and Demand Assessment

MEMORANDUM

TO: Board of Directors
From: Michael L. Flood, General Manager
RE: FY 2021-2022 Casitas Water Supply and Demand Assessment
Date: May 7, 2020

RECOMMENDATION

Adopt recommended drought-related actions and Water Efficiency Allocation Program (WEAP) revisions as contained in Section 5 of this memorandum.

1. BACKGROUND

In accordance with the direction provided in the Water Efficiency and Allocation Program, adopted April 24, 2019, specifically Section 5.2 entitled "*Water Resource Conditions and Actions*," the Board of Directors are to receive an annual assessment of local water supplies, water demands, and current effectiveness of water demand reduction measures. The information in the assessment may necessitate the consideration and direction from the Board of Directors for further actions to preserve water supply for the future.

2. ANNUAL EVENT SUMMARY

The annual event summary is to provide insight to unusual events that have occurred within the boundary of the Casitas Municipal Water District that would not otherwise be directly reported in the content of the assessment. The key events are as follows:

- a) The Casitas Municipal Water District has continued to cope with the demands of the acquisition of the Ojai Water System. The acquisition transferred to Casitas the operations and maintenance of the Ojai Water System including six groundwater wells in the Ojai Groundwater Basin which have an ongoing goal of maximizing the use of groundwater for that system through both maintenance and planning for future improvements.
- b) The Thomas Fire of December 2017 is expected to have a continuing effect on District operations primarily centered on the control of turbidity in Lake Casitas for water quality purposes and negative impacts to the operation of the Robles Fish Passage facility. With little runoff during the Fiscal Year 2021 season, there has been no impact over the last year.
- c) A groundwater adjudication commenced in the Ojai Valley area through an amended cross complaint filed with the California Superior Court on September 21, 2018. This action included not only Casitas but also many public and private water users in the Ojai Valley. This is of special significance to the District due to its operation of seven groundwater wells within the

basins under question in addition to its right to divert water from the Ventura River. There will likely be no impact on water supply for the next twelve months due to this action but may increase resale water demand.

- d) The District embarked on the development of a Comprehensive Water Resources Plan in early 2019 which was released to the public in draft form in June of 2020. The District has received public comment on the draft plan and the Board has been reviewing various aspects of the plan during the first several months of 2021. On April 21, 2021, the Board directed staff to use a planned operational yield of 15,010 Acre-Feet per Year and a planned demand of 14,525 Acre-Feet per Year for the Casitas System.

- e) The District staff are currently preparing the 2020 Urban Water Management Plan (UWMP) in compliance with the California Water Code. The UWMP is a supply and demand assessment and provides an understanding of past, current, and future water conditions and management. Casitas is a wholesale and retail water provider, and the UWMP will be prepared for 1) Casitas Wholesale, 2) Casitas System Retail, and 3) Ojai System Retail. The deadline for submission to the California Department of Water Resources (DWR) is July 1, 2021.

3. ASSESSMENTS

The assessments are to be considered in the implementation of a Water Shortage Condition Stage and the demand reduction measures for Fiscal Year 2021-22.

WEATHER CONDITIONS.

Long-term average rainfall at Matilija Dam and Casitas Dam are 28.24 and 23.74 inches, respectively, based on records dating back to the 1958-1959 Water Year. During the period of 2012 through 2021, the Ventura River watershed has been in an extreme to moderate drought condition with less than average rainfall amounts (Table 1) that have been insufficient to cause the restoration of local water resources to previous levels. Rainfall totals during the 2021 winter season were far below the long-term average rainfall for Matilija and Casitas Dam locations and have had a negative impact to District water supplies in the early months of the year.

Table 1 – Rainfall Totals for Matilija Dam and Casitas Dam (inches)

Water Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Avg.
Matilija Dam	40.28	14.21	11.85	14.76	17.57	13.35	31.98	16.75	37.54	16.46	6.42	20.1
Casitas Dam	35.99	15.11	10.99	9.90	11.65	11.07	30.75	9.89	24.77	13.93	6.39	16.4

The winter storms of 2021 can be described as negligible in effect. The annual rainfall total during the period of October 1, 2020 to April 15, 2021, at Matilija Dam and Casitas Dam are 6.42 and 6.39 inches respectively. These are the lowest rainfall totals during the period noted in Table 1.

Drought conditions have also affected the State of California as a whole with the majority of Ventura County be classified as being in a D4 (Extreme Drought) condition by the United States Drought Monitor as of April 20, 2021.

WATER RESOURCES

The primary water resources that provide water to Casitas MWD are collectively the groundwater basins of the Upper Ventura River and Ojai; and the surface water storage at Lake Casitas.

Groundwater Basins

The winter of 2021 brought little recovery to the local groundwater basins within Casitas' district boundaries. The few rainfall events caused continued flashy peak flows with some debris and silt from the previously burned Ventura River watershed.

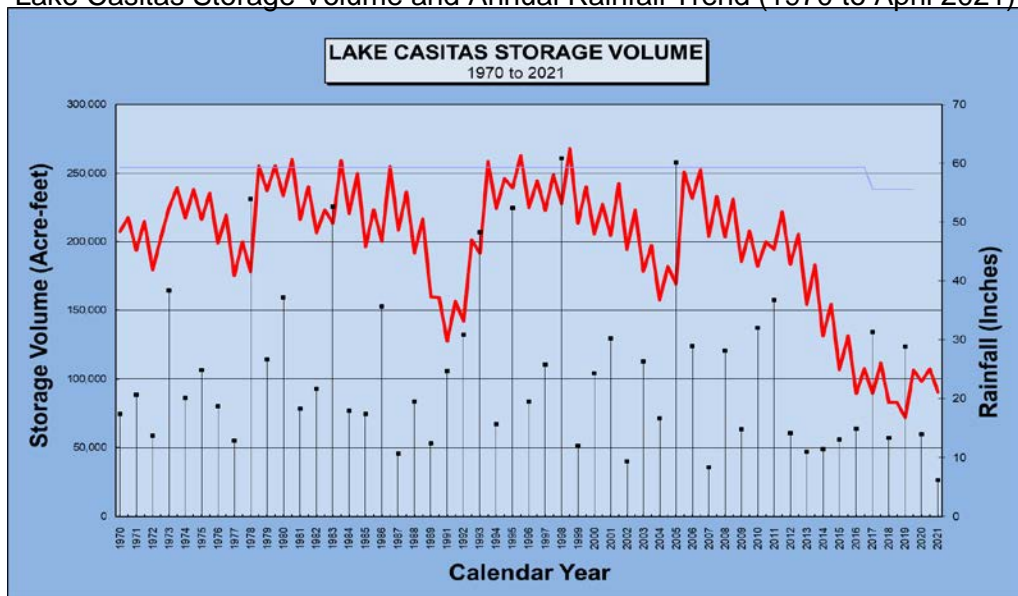
The Upper Ventura River groundwater levels have seen an overall decline since April of 2019. The recent data presented by the Ventura River Water District illustrates that while groundwater levels came to within twelve feet of the May 1 static water level average, they are still well short of being completely full (see May, 2021 VRWD Ground Water Level Chart – Attachment #1). The storage in the Upper Ventura River Basin will likely continue to allow groundwater pumpers to minimize their use of Lake Casitas supply over the next twelve months.

The Ojai groundwater basin is a primary water source for the Ojai Valley's urban and agricultural water demands. The basin's groundwater storage declined an approximate 34 feet in water elevation recorded at a key well in the basin since May 25, 2020. The Ojai basin Groundwater Management Agency has reported that the Ojai basin has an estimated storage of 56,800 acre-feet (71% capacity) at this same time (See OBGMA Summary Sheet – Attachment #2). This supply should allow most groundwater pumpers in this basin to minimize their use of Lake Casitas supply during the next twelve months.

Surface Water Storage

Lake Casitas is the primary source of water supply for the Casitas Municipal Water District. Its construction in the 1950's was as a supplemental supply to local groundwater and as a primary source for areas that do not have groundwater. Figure 1 presents the annual high-low water storage fluctuations that Lake Casitas has experienced since 1970. Lake Casitas storage was last at full storage capacity in May 2006 and has since been in a declining storage trend due to drought conditions, evaporation, environmental conditions, and water use.

Figure 1 – Lake Casitas Storage Volume and Annual Rainfall Trend (1970 to April 2021)



On January 1, 2018, Casitas officially changed the storage table based on a bathymetric survey conducted at Lake Casitas. The volume stored at each designated percentage specified in the Water Efficiency and Allocation Program (WEAP) is changed to reflect the data provided by the bathymetric survey as follows:

Table 2 – WEAP Stages and Lake Casitas Volumes

Stage	<u>Stage 1</u>	<u>Stage 2</u>	<u>Stage 3</u>	<u>Stage 4</u>	<u>Stage 5</u>
Percent Storage	100%	50%	40%	30%	25%
Volume (Acre-feet)	237,975	118,988	95,190	71,393	59,494

WATER DEMAND

In FY 2013-14, the Casitas water demands from Lake Casitas reached 20,417 acre-feet, while Lake Casitas was still in a Stage 1 condition. In April 2014, the State’s Drought Emergency Declaration raised the public awareness to the on-going drought throughout California, the severe conditions in the State Water Project, and the growing scarcity of water for agriculture and communities statewide.

In April 2015, Lake Casitas storage declined to fifty percent of its storage capacity and the Casitas Board of Directors declared that a Stage 2 condition existed for the Lake Casitas supply. In doing so, the Board of Directors initiated Stage 2 mandatory water demand reduction requirements with the further adoption of a revised Water Efficiency and Allocation Plan (WEAP). A key element of the WEAP was the assignment of individual water allocations for residential, commercial and agricultural beneficial water uses, and the assignment of a conservation penalty for water use that was in exceedance of the assigned water allocation.

In June 2016, the Casitas Board of Directors declared that a Stage 3 condition existed as Lake Casitas continued to decline to 100,000 acre-feet of water in storage. The Stage 3 declaration implemented a conservation penalty of \$5.00 per unit and limited the supply available for new water use to 10 acre-feet per fiscal year.

In April 2017, the Casitas Board of Directors continued the Stage 3 declaration, pending possible further decline of Lake Casitas storage to a Stage 4 level.

From December 2018 through February 2019, the Casitas Board of Directors considered the possibility of a Stage 4 declaration but decided to forego the declaration based on the strong conservation response from the community (near a Stage 5 level) combined with rainfall that had been adding significant supply volume to Lake Casitas in early 2019.

Early April 2020 saw a moderate set of storms allowing Lake Casitas storage levels to remain above 105,000 Acre-Feet, however a Stage 3 declaration was left in place for the 2021 Fiscal Year.

Demands on Lake Casitas have increased over the last twelve months with an estimated Fiscal Year 2021 Lake Casitas demand of 10,600 Acre-Feet, an increase of 1,800 Acre-Feet over the Fiscal Year 2020 demand.

Water Demand Response

A critical function of the WEAP is to manage water supplies in such a manner that prevents Lake Casitas from reaching a minimum pool condition through the implementation of water demand response measures – the assignment of individual water allocations and the implementation of a conservation penalty for water use in excess of the allocation.

Since FY 2013-14, the demand on the Lake Casitas supply continued to decline through the 2020 Fiscal Year (Table 3) in response to the WEAP, water resource changes by large customers, and the heightened customer awareness of water resource conditions. The estimated water delivery in Fiscal Year 2020-21 is an indication of a possible reversal trend of the decline in water delivery from Lake Casitas as noted in Table 3.

Table 3 – Water Deliveries from the Lake Casitas Supply

Fiscal Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21 (Estimated)
Lake Casitas Water Deliveries (AF)	20,417	17,339	15,662	13,200	12,322	9,340	8,802	10,600
% below 2013-14 Delivery	0	15	23	35	40	55	57	48
Declared Stage	1	1	2	3	3	3	3	3

Until Fiscal Year 2021, each of the listed periods since Fiscal Year 2015 exhibit the water demand reduction resulting from the public outreach, the conservation penalty, and the effects of the State’s 2014 drought declaration. (Note that the amounts in Table 3 are registered at the Marion Walker Treatment Plant and will differ from amounts reported on the District’s Monthly Consumption Reports, which don’t include system losses).

Beginning in Fiscal Year 2016, Lake Casitas demand has remained below the current Stage 3 demand reduction target of 16,736 Acre-Feet. The targeted goals for each WEAP Stage are listed in Table 4.

Table 4 – WEAP Targeted Demand Reduction Goals per Stage (Based of FY 1989-1990 Lake Casitas Demand of 23,909 Acre-Feet)

	<u>Stage 1</u> 20% Voluntary	<u>Stage 2</u> 20% Mandatory	<u>Stage 3</u> 30% Mandatory	<u>Stage 4</u> 40% Mandatory	<u>Stage 5</u> 50% Mandatory
Demand Reduction Goal (in Acre-Feet)	19,127	19,127	16,736	14,345	11,955

Supply and Demand Analysis

In consideration of an April 2021 start point of approximately 90,600 Acre-feet of storage in Lake Casitas, applying 2013 evaporation, no runoff additions to storage, and comparing three rates of water demands, Figure 2 illustrates the time for Lake Casitas to reach a particular level for the following estimated water demands:

1. A demand of **10,600 Acre-Feet/Year** reflects the estimated 2021 Fiscal Year Lake Casitas demand (middle line).
2. A demand of **9,600 Acre-Feet/Year** reflects a 10% reduction in the estimated 2021 Fiscal Year Lake Casitas demand (top line).
3. A demand of **11,700 Acre-Feet/Year** reflects a 10% increase in the estimated 2021 Fiscal Year Lake Casitas demand (bottom line).

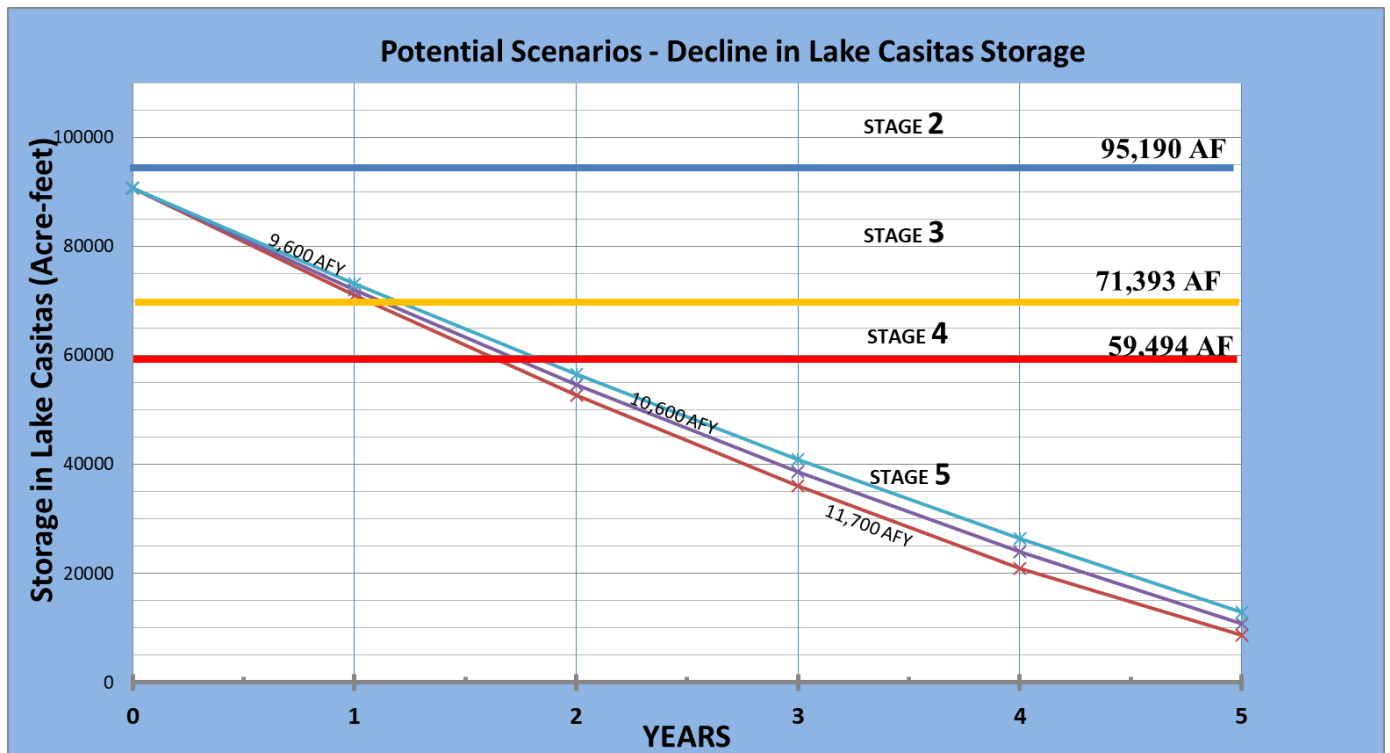


Figure 2 – Hypothetical Decline in Lake Casitas Storage with No Rainfall or Runoff; 2013 Evaporation Rate Every Year; Starting Storage at 90,600 Acre-Feet.

Figure 2 illustrates that with the given demand rates, 2013 evaporation, with no additional rainfall and runoff, Lake Casitas could reach Stage 4 levels in 12 to 14 months, and Stage 5 levels in 18 months to nearly two years.

Given the conditions noted above, Figure 2 illustrates that Lake Casitas could decline to approximately an 83,000 Acre-Foot capacity by December of 2021.

Conservation Penalty

The District has implemented a conservation penalty for water use in excess of the individual customer's Staged allocation. The funds resulting from the conservation penalty are to be applied toward new water supply projects and the water conservation efforts of the District.

In September 2015, and for the remainder of FY 2015-16, the residential water used in excess of the monthly allocation was billed as a conservation penalty at the rate of \$1.00 per unit. Effective July 1, 2016, and continued until the present, the conservation penalty was increased to \$5.00.

Overuse of Allocations

The Revenue and Expense Report for July 1, 2020 through February 28, 2021 indicates that allocation penalties collected through February 2021 for all residential accounts equates to roughly 400 Acre-Feet of overuse in this category. This is an increase from the same period in 2020 wherein penalties had been collected on approximately 260 Acre-Feet of overuse.

Annual penalties for all other types of accounts for Fiscal Year 2021 will not be known until August but overuse for the past two Fiscal Years for these accounts equated to 30 (FY 2020) and 111 (FY 2019) Acre-Feet.

Growth

The service area of the District is experiencing extremely slow growth. Most requests that Casitas receives are related to expansions of residential housing construction. The slow growth rate is indicative of the information illustrated in Table 5. During the past ten years, Casitas has installed 27 meters and issued 31.75 acre-feet of water allocation. On the average, less than three meters have been installed per year and new or additional allocation assignments have averaged three acre-feet per year.

Table 5 – Water Service and Allocation Assignments by Casitas (CY 2012-2021)

Calendar Year	No. of Meters Issued	Allocation Issued (AF)
2012	3	2.22
2013	1	1.88
2014	6	9.85
2015	1	1.27
2016	3	2.08
2017	3	5.54
2018	0	0
2019	6	6.92
2020	3	1.49
2021	1	0.5

4. WATER MANAGEMENT POLICY AND PROGRAMS CURRENTLY IN PLACE

Management Priorities of Casitas Municipal Water District (Resolution No. 93-12)

On March 10th, 1993, the Casitas Board of Directors resolved by Resolution No. 93-12 (1) that Casitas shall manage Lake Casitas and its water supplies so that it can provide back up to other water systems and meet its direct customer demands during droughts.

Water Conservation Program - 1992

Since 1992, Casitas has actively assisted water customers throughout the district with fixture retrofits, irrigation surveys, residential and institutional water use surveys, provision of water conservation materials to local schools, public workshops and presentations on a wide variety of water conservation topics, public messaging, and financing assistance for water well improvements. The Water Conservation Program has partnered with other Ventura County agencies to obtain grants for additional water conservation measures. The Water Conservation Department has also adjusted staffing levels as needed during drought to provide increased customer assistance with meeting conservation targets.

Water Waste Prohibition Ordinance (Ordinance 15-02)

This Ordinance established water waste prohibitions and identified actions against violations of the Ordinance. Casitas staff has been actively engaged with the public reports of water waste.

Water Efficiency and Allocation Program (WEAP)

The WEAP is the key water management tool for long-term drought response and water demand. The WEAP was originally adopted by the Board of Directors in January 1992 and most-recently revised in April 2019. A critical element of the WEAP implementation is to cause water demands to be commensurate to the declared Water Shortage Stage of Lake Casitas.

State of California Drought and Conservation Measures

On April 7, 2017, Governor Brown lifted the January 17, 2014 drought declaration, leaving in place water waste prohibitions and requirements for continuing development of urban and agricultural water use standards to promote continued water conservation (Executive Order B-40-17). The State is developing new regulations to continue the conservation measures as well as measures to hold all water users accountable for their water use.

Governor Newsom recently issued a State Emergency Proclamation placing two California counties in a State of Emergency due to drought and provided all California water districts with notice of the possibility of further actions should water supply conditions worsen in the coming months.

Water Security Projects

The Casitas Municipal Water District is committed to investigating and implementing opportunities to further secure its water supply.

State Water Interties – The Casitas Municipal Water District is pursuing the development of the infrastructure and agreements needed for the direct and in-lieu drought-protection use of the State Water Project water supplies of Casitas, Calleguas MWD, the City of Ventura, and United WCD. Consideration of the fiscal impacts and funding methods of the project are also under review. This is

an opportunity for regional collaboration to address common water supply reliability needs of the entirety of Ventura County.

Additionally, Casitas and Carpinteria Valley Water District are pursuing State loan/grant funding to increase the size of a current intertie connection as well as build pump stations to provide the ability to move Casitas' State Water Project water supplies directly into Casitas' system.

The preliminary schedule for final completion of these projects is four to eight years.

Ojai Well Field Rehabilitation – This project is intended to restore the production of the Ojai Well Field wells and also drill one replacement well. The replacement well has been drilled and the equipping of the well is expected to occur in the 2022 Fiscal Year.

Comprehensive Water Resources Plan - In 2019, Casitas hired a consultant to analyze current water resources and develop a plan that will support the continued planning efforts of the District. Casitas' stakeholder input was also collected and the draft plan was released to the public in June 2020.

The Casitas Board of Directors is expected to continue to review the plan but recently reached an important planning milestone by declaring a Casitas System Operational Yield of 15,010 Acre Feet per Year and a Planned Demand of 14,525 Acre-Feet per Year.

5. RECOMMENDED WEAP ACTIONS

The following are the staff recommendations for WEAP actions to be considered for adoption by the Board of Directors at the May 12, 2021 Board Meeting:

Customer Demand Reduction Measures

1. **Reaffirm the water shortage declaration as Stage 3.** The level of Lake Casitas has declined over the last twelve months placing it within the Stage 3 lake level described in the WEAP (95,104 AF – 71,328 AF). Water demands have also increased over the last twelve months but are expected to remain below the WEAP Stage 3 demand target of approximately 16,700 Acre-Feet per Year. The enforcement of the Water Waste Prohibition Ordinance should continue under the current system of public notification of waste. Conservation staff will continue to work with customers to help them understand and implement conservation measures. The system for allocation assignment and billing will continue until such time that the Board makes a different determination. The Board reviews consumption and hydrology information monthly thus it can respond quickly to changes in customer conservation behavior or water supply conditions.
2. **Reaffirm Stage 3 reduced water allocations.** If the water demand reduction goals are not being met during the course of FY 2021-22, the conservation penalty should be increased and the Board should consider additional measures to ensure these goals are met.
3. **Landscape watering restriction.** Continue with current water use restrictions of no landscape watering between the hours of 10AM and 6PM.

Penalties and Rates.

1. **Consider and implement Conservation Penalty for water use in excess of allocation.** Maintain the current conservation penalty of \$5.00 for each unit of water that is over the monthly/annual allocation assignment for all classifications of service. Direct staff to work with customers that are repetitively in excess of the allocation assignments.
2. **Continue planned rates for revenue stabilization and cost of service.** The Board has adopted water rates to achieve revenue stabilization and cost of service that became effective July 1, 2017 and continued for the following four Fiscal Years.

A rate study is recommended to be conducted during the 2022 Fiscal Year.

3. **Provide a leak-relief program**

The Board should consider implementing a leak-relief program. This will assist customers who have excellent conservation histories with the ability to get relief from unusual situations that cause penalties to be assessed.

Issuance of Additional Allocations

1. **Continue to set an annual allocation limit for new or existing water service connections.** Adhere to the Board's prior direction to limit the volume of water to be allocated to new service connections or requests for additional allocation. Based on the Growth section above, a limit of 10 acre-feet per fiscal year appears to be a reasonable approach.

Communications

1. **Communicate the Stage 3 Condition.** Stage 3 is identified as "*a condition of a water shortage is imminent*". The Board of Directors may consider at any time however to move to a particular Water Shortage Stage based on a number of factors including conservation response, supply forecasts, current supply, etc.
2. **Continue the public information campaign.** Despite the dry conditions experienced this year, local water users have continued to conserve. The local resale agencies should also recognize that their water supplies are subject to sufficient local rainfall and they may have to rely on Lake Casitas under continuing drought conditions. Casitas needs to continue the messaging of local water supply reliability, water security project status, and responsible water use. This can be done through newsletters, website and social media posts, and public workshops (when possible).
3. **Provide regular briefings, publish monthly consumption report.** The billing system provides each customer a monthly status on their water use and the application of conservation penalties.
4. **Review and revision of WEAP for implementation for the 2022-2023 Fiscal Year.** The Board recently directed staff to use a Casitas System Yield of 15,010 Acre-Feet/Year and a Planned Demand of 14,525 Acre-Feet/Year for water supply planning purposes. This

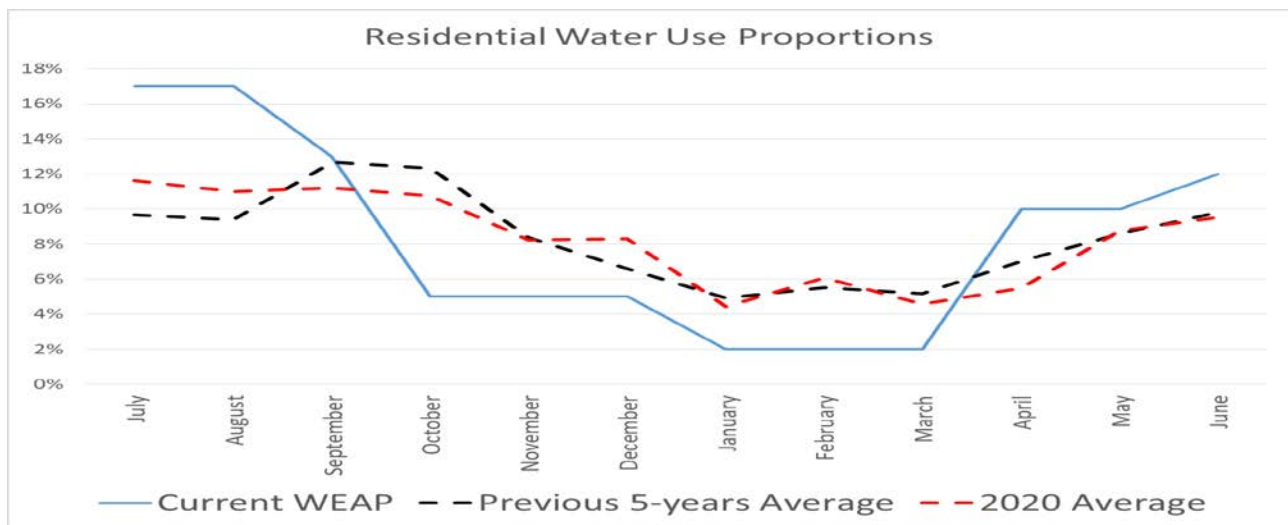
necessitates a revision to the WEAP which is currently based on a Safe Yield of 20,840 Acre-Foot/Year and a Stage 1 demand of approximately 19,000 Acre-Foot/Year. Staff recommends that the revision be completed prior to February 2022 in order to notify customers of the change and provide assistance to those customers who require it prior to implementation on the first day of the 2022-2023 Fiscal Year (July 1, 2022).

Modification of the FY 2022 WEAP

- 1. Revise Section 4.3 (Allocation Assignments to Water Service Classifications): Multi-Family Residential and Residential reflecting seasonal water use proportions.**

The Casitas MWD Water Efficiency Allocation Program (WEAP) uses seasonal proportions to adjust the monthly non-essential allocation amounts for Multi-Family Residential and Residential customer classifications.

Staff recently completed an analysis of water use patterns over the last five fiscal years (2016–2020) for residential customers and found that those patterns do not reflect what is currently defined in the WEAP. Graph 1 shows a comparison.

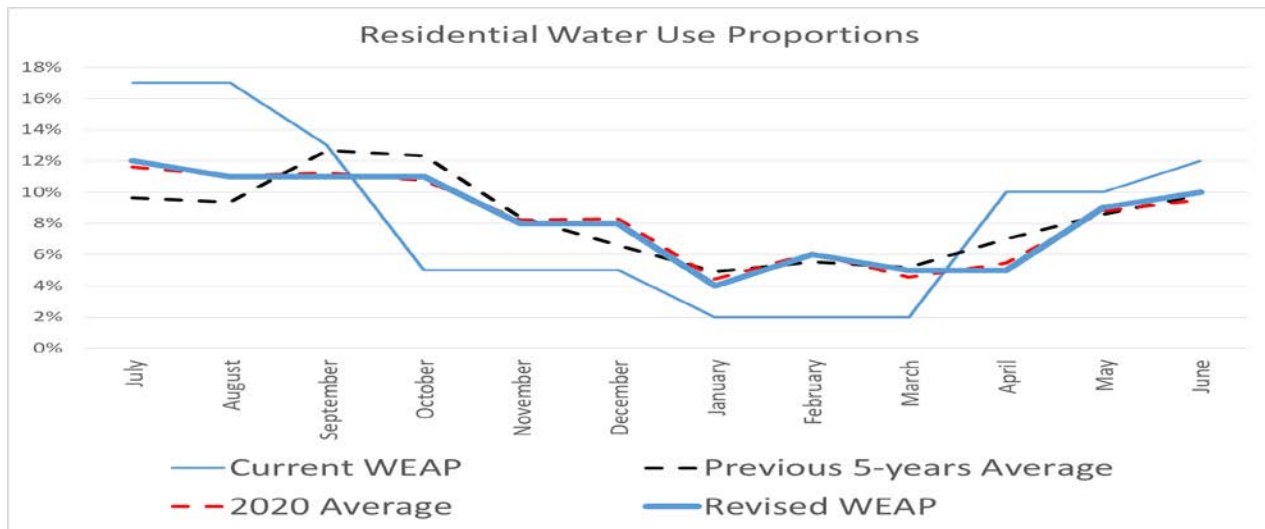


Graph 1 – Residential Water Use Comparison (Current WEAP, Five-Year Avg., and 2020 Avg.)

Staff recommends that the seasonal proportionality tables in Section 4.3 of WEAP for Multi-Family Residential and Residential classifications be revised as follows:

Month	July	August	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
% of Total Annual Allocation	.12	.11	.11	.11	.08	.08	.04	.06	.05	.05	.09	.10

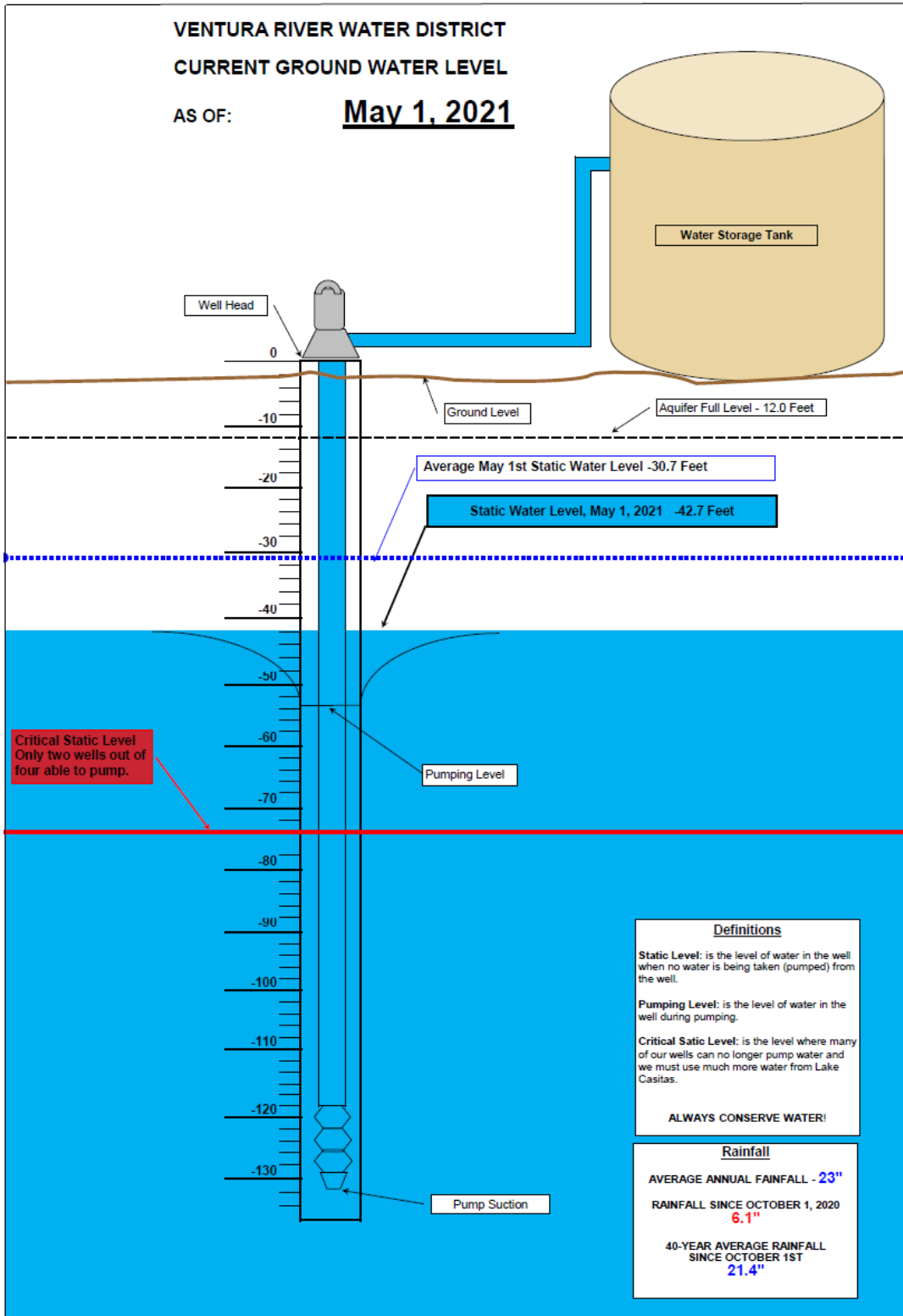
Graph 2 illustrates the recommended change to the seasonal proportionality tables:



Graph 2 - Residential Water Use Comparison (Current WEAP, Five-Year Avg., 2020 Avg., and Revised WEAP)

ATTACHMENT #1

Ventura River Water District May 1, 2021 "Current Groundwater Level" Graphic



ATTACHMENT #2

OBGMA April 2021 Summary of Ojai Groundwater Basin Conditions
(from website graphic & verbal Basin Status Report during the April 28,2021 OBGMA Board Meeting)

Key Well Level (May 25, 2020): 115.12' above mean sea level

Key Well Level (April 2021): 149.51' above mean sea level

Current Basin Volume: 56,800 Acre-Feet; 71% of capacity

SBx7-7 Compliance and Verification Forms

SB X7-7 Verification Form

The **SB X7-7 Verification Form** is for the calculation of baselines and targets. Most Suppliers will have completed this form with their 2015 UWMP and do not need to complete this form again in 2020. See Chapter 5 Section 5.3 of the UWMP Guidebook for more information regarding which Suppliers must, or may, complete this form for their 2020 UWMP. 2020 compliance calculations are done in the SB X7-7 2020 Compliance Form.

The **SB X7-7 2020 Compliance Form** is for the calculation of 2020 compliance and is a separate workbook from the SB X7-7 Verification Form. All retail suppliers must submit the SB X7-7 2020 Compliance Form. Baselines and targets are done in the SB X7-7 Verification Form.

WUE Data Portal Entry Exceptions

The data from the tables below will not be entered into WUE Data Portal tables. These tables will be submitted as separate uploads, in Excel, to WUE Data Portal.

Process Water Deduction

SB X7-7 tables 4-C, 4-C.1, 4-C.2, 4-C.3, 4-C.4 and 4-D

A supplier that will use the process water deduction will complete the appropriate tables in Excel, submit them as a separate upload to the WUE Data Portal, and include them in its UWMP.

Target Method 2

SB X7-7 Tables 7-B, 7-C, and 7-D

A supplier using Target Method 2 will complete these tables in Excel and submit them as a separate upload to the WUE Data Portal and include them in its UWMP.

Target Method 4

These tables are not in the SB X7-7 Verification Form, but are found in WUE Data Portal using the *Resources* button. A supplier using Target Method 4 will complete these tables in Excel and submit them as a separate upload to the WUE Data Portal and include them in its UWMP.

Where to Submit?

Suppliers submit the completed table data and UWMPs (including the Water Shortage Contingency Plan) electronically through the WUE Data Portal (<https://wuedata.water.ca.gov/>). The portal will be updated in Spring 2021 and will be announced to the urban listserv, DWR webpage and WUE Data Portal opening page when it is available for plan and table submittals.

Unlocking Templates (use with caution)

The templates provided in this workbook are formatted to mirror the structure of information that is submitted through the WUE Data Portal for the electronic submission of Submittal Tables in the UWMP. The tables are offered in a protected (locked) version to maintain the structure of the templates. However, for those needing to adjust the tables for their own planning needs beyond the Submittal Tables, the password to 'unprotect' each worksheet is 'dwr' (no quotes). To unprotect the worksheet, go to the Review tab, select Unprotect Sheet, and enter the password 'dwr' in the pop-up (no quotes). Preparers will still need to submit the information using the original template structure provided. To redownload the templates in their original format, visit <https://wuedata.water.ca.gov> in the Resources button of the Urban Water Management Plan section (no login necessary).

SB X7-7 Table 0: Units of Measure Used in UWMP* *(select one from the drop down list)*

Acre Feet

**The unit of measure must be consistent with Submittal Table 2-3*

NOTES: Casitas Retail System

SB X7-7 Table-1: Baseline Period Ranges

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	18,471	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0%	See Note 1
	Number of years in baseline period ^{1,2}	10	Years
	Year beginning baseline period range	1999	
	Year ending baseline period range ³	2008	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2005	
	Year ending baseline period range ⁴	2009	

¹ If the 2008 recycled water delivery is less than 10 percent of total water deliveries, then the 10-15year baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater of total deliveries, the 10-15 year baseline period is a continuous 10- to 15-year period.

² The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.

³ The ending year for the 10-15 year baseline period must be between December 31, 2004 and December 31, 2010.

⁴ The ending year for the 5 year baseline period must be between December 31, 2007 and December 31, 2010.

NOTES: Casitas Retail System.

Total water deliveries represents water produced at the Marion Walker WTP and Mira Monte well.

SB X7-7 Table 2: Method for Population Estimates

Method Used to Determine Population (may check more than one)	
<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input type="checkbox"/>	2. Persons-per-Connection Method
<input checked="" type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES: Casitas Retail System.	

SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	1999	11,381
Year 2	2000	11,349
Year 3	2001	11,317
Year 4	2002	11,285
Year 5	2003	11,253
Year 6	2004	11,221
Year 7	2005	11,190
Year 8	2006	11,158
Year 9	2007	11,126
Year 10	2008	11,094
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2005	11,190
Year 2	2006	11,158
Year 3	2007	11,126
Year 4	2008	11,094
Year 5	2009	11,062
NOTES: Casitas Retail System.		

SB X7-7 Table 4: Annual Gross Water Use *

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Acre Feet
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	Annual Gross Water Use
10 to 15 Year Baseline - Gross Water Use							
Year 1	1999	20,121	7,528	-	7,529	-	5,064
Year 2	2000	21,588	7,054	-	7,611	-	6,923
Year 3	2001	17,879	6,951	-	5,957	-	4,971
Year 4	2002	22,116	8,822	-	8,718	-	4,576
Year 5	2003	16,809	6,119	-	7,139	-	3,550
Year 6	2004	20,477	9,214	-	8,033	-	3,230
Year 7	2005	17,778	7,679	-	6,036	-	4,063
Year 8	2006	17,457	6,267	-	6,917	-	4,273
Year 9	2007	21,598	8,150	-	8,646	-	4,802
Year 10	2008	18,471	6,307	-	7,144	-	5,020
Year 11	0	-	-	-	-	-	-
Year 12	0	-	-	-	-	-	-
Year 13	0	-	-	-	-	-	-
Year 14	0	-	-	-	-	-	-
Year 15	0	-	-	-	-	-	-
10 - 15 year baseline average gross water use							4,647
5 Year Baseline - Gross Water Use							
Year 1	2005	17,778	7,679	-	6,036	-	4,063
Year 2	2006	17,457	6,267	-	6,917	-	4,273
Year 3	2007	21,598	8,150	-	8,646	-	4,802
Year 4	2008	18,471	6,307	-	7,144	-	5,020
Year 5	2009	17,259	6,277	-	6,996	-	3,986
5 year baseline average gross water use							4,429
* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.							
NOTES: Casitas Retail System. Exported Water reflects Resale Usage.							

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Marion Walker WTP

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	1999	20,121	20,121
Year 2	2000	21,506	21,506
Year 3	2001	17,809	17,809
Year 4	2002	22,092	22,092
Year 5	2003	16,571	16,571
Year 6	2004	20,214	20,214
Year 7	2005	17,673	17,673
Year 8	2006	17,253	17,253
Year 9	2007	21,326	21,326
Year 10	2008	18,325	18,325
Year 11	0		-
Year 12	0		-
Year 13	0		-
Year 14	0		-
Year 15	0		-

5 Year Baseline - Water into Distribution System

Year 1	2005	17,673	17,673
Year 2	2006	17,253	17,253
Year 3	2007	21,326	21,326
Year 4	2008	18,325	18,325
Year 5	2009	17,259	17,259

¹ **Units of measure** (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

² **Meter Error Adjustment** - See guidance in Methodology 1, Step 3 of Methodologies Document

NOTES: Casitas Retail System.

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Mira Monte Well

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	1999	0	0
Year 2	2000	82.44	82
Year 3	2001	69.94	70
Year 4	2002	24.03	24
Year 5	2003	237.93	238
Year 6	2004	262.8	263
Year 7	2005	104.99	105
Year 8	2006	204.21	204
Year 9	2007	272.09	272
Year 10	2008	145.61	146
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0

5 Year Baseline - Water into Distribution System

Year 1	2005	104.99	105
Year 2	2006	204.21	204
Year 3	2007	272.09	272
Year 4	2008	145.61	146
Year 5	2009	0	0

¹ **Units of measure** (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

² **Meter Error Adjustment** - See guidance in Methodology 1, Step 3 of Methodologies Document

NOTES: Casitas Retail System.

SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction (For use only by agencies that are deducting indirect recycled water)										
Baseline Year Fm SB X7-7 Table 3	Surface Reservoir Augmentation				Groundwater Recharge				Total Deductible Volume of Indirect Recycled Water Entering the Distribution System	
	Volume Discharged from Reservoir for Distribution System Delivery ¹	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/ Treatment Loss ¹	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility ^{1,2}	Transmission/ Treatment Losses ¹	Recycled Volume Entering Distribution System from Groundwater Recharge		
10-15 Year Baseline - Indirect Recycled Water Use										
Year 1	-	-	-	-	-	-	-	-	-	-
Year 2	-	-	-	-	-	-	-	-	-	-
Year 3	-	-	-	-	-	-	-	-	-	-
Year 4	-	-	-	-	-	-	-	-	-	-
Year 5	-	-	-	-	-	-	-	-	-	-
Year 6	-	-	-	-	-	-	-	-	-	-
Year 7	-	-	-	-	-	-	-	-	-	-
Year 8	-	-	-	-	-	-	-	-	-	-
Year 9	-	-	-	-	-	-	-	-	-	-
Year 10	-	-	-	-	-	-	-	-	-	-
Year 11	0	-	-	-	-	-	-	-	-	-
Year 12	0	-	-	-	-	-	-	-	-	-
Year 13	0	-	-	-	-	-	-	-	-	-
Year 14	0	-	-	-	-	-	-	-	-	-
Year 15	0	-	-	-	-	-	-	-	-	-
5 Year Baseline - Indirect Recycled Water Use										
Year 1	-	-	-	-	-	-	-	-	-	-
Year 2	-	-	-	-	-	-	-	-	-	-
Year 3	-	-	-	-	-	-	-	-	-	-
Year 4	-	-	-	-	-	-	-	-	-	-
Year 5	-	-	-	-	-	-	-	-	-	-

¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3. Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.

² NOTES: No recycled water use in Ojai Retail System

Data from this table will not be entered into WUEdata.
Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C: Process Water Deduction Eligibility

(For use only by agencies that are deducting process water) Choose Only One

<input type="checkbox"/>	Criteria 1 - Industrial water use is equal to or greater than 12% of gross water use. Complete SB X7-7 Table 4-C.1
<input type="checkbox"/>	Criteria 2 - Industrial water use is equal to or greater than 15 GPCD. Complete SB X7-7 Table 4-C.2
<input type="checkbox"/>	Criteria 3 - Non-industrial use is equal to or less than 120 GPCD. Complete SB X7-7 Table 4-C.3
<input type="checkbox"/>	Criteria 4 - Disadvantaged Community. Complete SB x7-7 Table 4-C.4

NOTES: No process water deductions

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.1: Process Water Deduction Eligibility					
Criteria 1					
Industrial water use is equal to or greater than 12% of gross water use					
Baseline Year <i>Fm SB X7-7 Table 3</i>		Gross Water Use Without Process Water Deduction	Industrial Water Use *	Percent Industrial Water	Eligible for Exclusion Y/N
10 to 15 Year Baseline - Process Water Deduction Eligibility					
Year 1	1999	5,064		0%	NO
Year 2	2000	6,923		0%	NO
Year 3	2001	4,971		0%	NO
Year 4	2002	4,576		0%	NO
Year 5	2003	3,550		0%	NO
Year 6	2004	3,230		0%	NO
Year 7	2005	4,063		0%	NO
Year 8	2006	4,273		0%	NO
Year 9	2007	4,802		0%	NO
Year 10	2008	5,020		0%	NO
<i>Year 11</i>	0	-			NO
<i>Year 12</i>	0	-			NO
<i>Year 13</i>	0	-			NO
<i>Year 14</i>	0	-			NO
<i>Year 15</i>	0	-			NO
5 Year Baseline - Process Water Deduction Eligibility					
Year 1	2005	4,063		0%	NO
Year 2	2006	4,273		0%	NO
Year 3	2007	4,802		0%	NO
Year 4	2008	5,020		0%	NO
Year 5	2009	3,986		0%	NO
* Units of Measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.					
NOTES:					

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel
 format.

SB X7-7 Table 4-C.2: Process Water Deduction Eligibility

Criteria 2

Industrial water use is equal to or greater than 15 GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Water Use *	Population	Industrial GPCD	Eligible for Exclusion Y/N
10 to 15 Year Baseline - Process Water Deduction Eligibility				
Year 1	1999		11,381	- NO
Year 2	2000		11,349	- NO
Year 3	2001		11,317	- NO
Year 4	2002		11,285	- NO
Year 5	2003		11,253	- NO
Year 6	2004		11,221	- NO
Year 7	2005		11,190	- NO
Year 8	2006		11,158	- NO
Year 9	2007		11,126	- NO
Year 10	2008		11,094	- NO
Year 11	0		-	NO
Year 12	0		-	NO
Year 13	0		-	NO
Year 14	0		-	NO
Year 15	0		-	NO
5 Year Baseline - Process Water Deduction Eligibility				
Year 1	2005		11,190	- NO
Year 2	2006		11,158	- NO
Year 3	2007		11,126	- NO
Year 4	2008		11,094	- NO
Year 5	2009		11,062	- NO
* Units of Measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.				
NOTES:				

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.3: Process Water Deduction Eligibility

Criteria 3

Non-industrial use is equal to or less than 120 GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>	Gross Water Use Without Process Water Deduction <i>Fm SB X7-7 Table 4</i>	Industrial Water Use *	Non-industrial Water Use	Population <i>Fm SB X7-7 Table 3</i>	Non-Industrial GPCD	Eligible for Exclusion Y/N	
10 to 15 Year Baseline - Process Water Deduction Eligibility							
Year 1	1999	5,064		5,064	11,381	397	NO
Year 2	2000	6,923		6,923	11,349	545	NO
Year 3	2001	4,971		4,971	11,317	392	NO
Year 4	2002	4,576		4,576	11,285	362	NO
Year 5	2003	3,550		3,550	11,253	282	NO
Year 6	2004	3,230		3,230	11,221	257	NO
Year 7	2005	4,063		4,063	11,190	324	NO
Year 8	2006	4,273		4,273	11,158	342	NO
Year 9	2007	4,802		4,802	11,126	385	NO
Year 10	2008	5,020		5,020	11,094	404	NO
Year 11	0	-		-	-	-	NO
Year 12	0	-		-	-	-	NO
Year 13	0	-		-	-	-	NO
Year 14	0	-		-	-	-	NO
Year 15	0	-		-	-	-	NO
5 Year Baseline - Process Water Deduction Eligibility							
Year 1	2005	4,063		4,063	11,190	324	NO
Year 2	2006	4,273		4,273	11,158	342	NO
Year 3	2007	4,802		4,802	11,126	385	NO
Year 4	2008	5,020		5,020	11,094	404	NO
Year 5	2009	3,986		3,986	11,062	322	NO
* Units of Measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.							
NOTES:							

Data from this table will not be entered into WUEdata. Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.4: Process Water Deduction Eligibility

Criteria 4

Disadvantaged Community. A “Disadvantaged Community” (DAC) is a community with a median household income less than 80 percent of the statewide average.

SELECT ONE

"Disadvantaged Community" status was determined using one of the methods listed below:

- 1. IRWM DAC Mapping tool**
<https://gis.water.ca.gov/app/dacs/>

If using the IRWM DAC Mapping Tool, include a screen shot from the tool showing that the service area is considered a DAC.

- 2. 2010 Median Income**

	California Median Household Income	Service Area Median Household Income	Percentage of Statewide Average	Eligible for Exclusion? Y/N
2010	\$60,883		0%	YES

NOTES:

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete

a separate table for each industrial customer with a process water exclusion

Name of Industrial Customer *Enter Name of Industrial Customer 1*

Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use *	Total Volume Supplied by Water Agency*	% of Water Supplied by Water Agency	Customer's Total Process Water Use*	Volume of Process Water Eligible for Exclusion for this Customer
--	---	--	-------------------------------------	-------------------------------------	--

10 to 15 Year Baseline - Process Water Deduction

Year 1	1999				-
Year 2	2000				-
Year 3	2001				-
Year 4	2002				-
Year 5	2003				-
Year 6	2004				-
Year 7	2005				-
Year 8	2006				-
Year 9	2007				-
Year 10	2008				-
<i>Year 11</i>	0				-
<i>Year 12</i>	0				-
<i>Year 13</i>	0				-
<i>Year 14</i>	0				-
<i>Year 15</i>	0				-

5 Year Baseline - Process Water Deduction

Year 1	2005				-
Year 2	2006				-
Year 3	2007				-
Year 4	2008				-
Year 5	2009				-

* **Units of Measure** (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

NOTES:

SB X7-7 Table 5: Baseline Gallons Per Capita Per Day (GPCD)

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	11,381	5,064	397
Year 2	2000	11,349	6,923	545
Year 3	2001	11,317	4,971	392
Year 4	2002	11,285	4,576	362
Year 5	2003	11,253	3,550	282
Year 6	2004	11,221	3,230	257
Year 7	2005	11,190	4,063	324
Year 8	2006	11,158	4,273	342
Year 9	2007	11,126	4,802	385
Year 10	2008	11,094	5,020	404
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	

10-15 Year Average Baseline GPCD **369**

5 Year Baseline GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2005	11,190	4,063	324
Year 2	2006	11,158	4,273	342
Year 3	2007	11,126	4,802	385
Year 4	2008	11,094	5,020	404
Year 5	2009	11,062	3,986	322

5 Year Average Baseline GPCD **355**

NOTES: Casitas Retail System.

SB X7-7 Table 6: Baseline GPCD *Summary*
From Table SB X7-7 Table 5

10-15 Year Baseline GPCD	369
5 Year Baseline GPCD	355

NOTES: Casitas Retail System.

SB X7-7 Table 7: 2020 Target Method*Select Only One*

Target Method		Supporting Tables
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator <i>Located in the WUE Data Portal at wuedata.water.ca.gov Resources button</i>

NOTES:

SB X7-7 Table 7-A: Target Method 1

20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
369	295

NOTES: Casitas Retail System.

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 7-B: Target Method 2 Target Landscape Water Use		Acre Feet
Units of Measure		
Reference Evapotranspiration Rate (ET0) ¹ for Service Area (inches/year)		
Acres of Irrigated Landscape and Applicable ETAF	Acres	Water Use³
Acres of landscape installed pre-2010 (ETAF 0.8) ²		-
Acres of landscape installed post-2010 (ETAF 0.7) ²		-
Acres of residential landscape installed post 2015 (ETAF .55)		-
Acres of CII landscape installed post 2015 (ETAF .45)		-
Acres of Special Landscape Area (ETAF 1.0) ²		-
Target Landscape Water Use for 2020		-

¹ ETo information can be found at <https://cimis.water.ca.gov>. If the water supplier's service area spans more than one ETo Zone, the supplier will use multiple versions of SB X7-7 Table 7B for each ETo zone that they serve.

² ETAF - Evapotranspiration Adjustment Factor. Refer to the Model Water Efficient Landscape Ordinance at <https://water.ca.gov/Programs/Water-Use-And-Efficiency/Model-Water-Efficient-Landscape-Ordinance>

³ Water Use Unit of Measure (AF, MG, CCF) is automatically converted to the units selected by the user in Table 0.

NOTES: TABLE NOT USED

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 7-C: Target Method 2

Target CII Water Use

Baseline Year <i>Fm SB X7-7 Table 3</i>	CII Water Use ^{1,2}	Process Water Exclusion (Optional) <i>Fm SB X7-7 Table 4</i>	CII Water Use Minus Process Water	Population <i>Fm SB X7-7 Table 3</i>	CII GPCD
Unit of Measure					Acre Feet
Year 1	1999	0	0	11,381	0
Year 2	2000	0	0	11,349	0
Year 3	2001	0	0	11,317	0
Year 4	2002	0	0	11,285	0
Year 5	2003	0	0	11,253	0
Year 6	2004	0	0	11,221	0
Year 7	2005	0	0	11,190	0
Year 8	2006	0	0	11,158	0
Year 9	2007	0	0	11,126	0
Year 10	2008	0	0	11,094	0
Year 11	0	0	0	-	
Year 12	0	0	0	-	
Year 13	0	0	0	-	
Year 14	0	0	0	-	
Year 15	0	0	0	-	
Average Annual 10 to 15 Year Baseline CII Water Use (GPCD)					0
10% Reduction					0.0
2020 Target CII Water Use					0
¹ CII water use for each year of the baseline period must be provided by the user.					
² Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.					
NOTES: TABLE NOT USED					

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in
 Excel format.

SB X7-7 Table 7-D: Target Method 2 Summary

2020 Population	Enter 2020 Population	
Sector	Volume	GPCD
	Acre Feet	
Target Indoor Residential Water Use		55
Target Landscape Water Use* <i>From SB X7-7 Table 7-B</i>	-	
Target CII Water Use <i>From SB X7-7 Table 7-C</i>		0
2020 Target	-	55
<i>*Additional rows may be added for Target Landscape Water Use if the service area spans more than one Eto Zone.</i>		
NOTES: TABLE NOT USED		

SB X7-7 Table 7-E: Target Method 3

Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
<input type="checkbox"/>		North Coast	137	130
<input type="checkbox"/>		North Lahontan	173	164
<input type="checkbox"/>		Sacramento River	176	167
<input type="checkbox"/>		San Francisco Bay	131	124
<input type="checkbox"/>		San Joaquin River	174	165
<input type="checkbox"/>		Central Coast	123	117
<input type="checkbox"/>		Tulare Lake	188	179
<input type="checkbox"/>		South Lahontan	170	162
<input type="checkbox"/>		South Coast	149	142
<input type="checkbox"/>		Colorado River	211	200
2020 Target <i>(If more than one region is selected, this value is calculated.)</i>				0
NOTES: TABLE NOT USED				

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target ¹	Calculated 2020 Target ²			Confirmed 2020 Target ⁴
		As calculated by supplier in this SB X7-7 Verification Form	Special Situations ³		
			Prorated 2020 Target	Population Weighted Average 2020 Target	
355	338	295			295

¹ **Maximum 2020 Target** is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD.

² **Calculated 2020 Target** is the target calculated by the Supplier based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target. Supplier may only enter one calculated target.

³ **Prorated targets and population weighted target** are allowed for special situations only. These situations are described in Appendix P, Section P.3

⁴ **Confirmed Target** is the lesser of the Calculated 2020 Target (C5, D5, or E5) or the Maximum 2020 Target (Cell B5)

NOTES: Casitas Retail System.

SB X7-7 Verification Form

The SB X7-7 Verification Form is for the calculation of baselines and targets. Most Suppliers will have completed this form with their 2015 UWMP and do not need to complete this form again in 2020. See Chapter 5 Section 5.3 of the UWMP Guidebook for more information regarding which Suppliers must, or may, complete this form for their 2020 UWMP. 2020 compliance calculations are done in the SB X7-7 2020 Compliance Form.

The SB X7-7 2020 Compliance Form is for the calculation of 2020 compliance and is a separate workbook from the SB X7-7 Verification Form. All retail suppliers must submit the SB X7-7 2020 Compliance Form. Baselines and targets are done in the SB X7-7 Verification Form.

WUE Data Portal Entry Exceptions

The data from the tables below will not be entered into WUE Data Portal tables. These tables will be submitted as separate uploads, in Excel, to WUE Data Portal.

Process Water Deduction

SB X7-7 tables 4-C, 4-C.1, 4-C.2, 4-C.3, 4-C.4 and 4-D

A supplier that will use the process water deduction will complete the appropriate tables in Excel, submit them as a separate upload to the WUE Data Portal, and include them in its UWMP.

Target Method 2

SB X7-7 Tables 7-B, 7-C, and 7-D

A supplier using Target Method 2 will complete these tables in Excel and submit them as a separate upload to the WUE Data Portal and include them in its UWMP.

Target Method 4

These tables are not in the SB X7-7 Verification Form, but are found in WUE Data Portal using the *Resources* button. A supplier using Target Method 4 will complete these tables in Excel and submit them as a separate upload to the WUE Data Portal and include them in its UWMP.

Where to Submit?

Suppliers submit the completed table data and UWMPs (including the Water Shortage Contingency Plan) electronically through the WUE Data Portal (<https://wuedata.water.ca.gov/>). The portal will be updated in Spring 2021 and will be announced to the urban listserv, DWR webpage and WUE Data Portal opening page when it is available for plan and table submittals.

Unlocking Templates (use with caution)

The templates provided in this workbook are formatted to mirror the structure of information that is submitted through the WUE Data Portal for the electronic submission of Submittal Tables in the UWMP. The tables are offered in a protected (locked) version to maintain the structure of the templates. However, for those needing to adjust the tables for their own planning needs beyond the Submittal Tables, the password to 'unprotect' each worksheet is 'dwr' (no quotes). To unprotect the worksheet, go to the Review tab, select Unprotect Sheet, and enter the password 'dwr' in the pop-up (no quotes). Preparers will still need to submit the information using the original template structure provided. To redownload the templates in their original format, visit <https://wuedata.water.ca.gov> in the Resources button of the Urban Water Management Plan section (no login necessary).

SB X7-7 Table 0: Units of Measure Used in UWMP* *(select one from the drop down list)*

Acre Feet

**The unit of measure must be consistent with Submittal Table 2-3*

NOTES: Ojai Retail System

SB X7-7 Table-1: Baseline Period Ranges

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	2,400	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0%	See Note 1
	Number of years in baseline period ^{1,2}	10	Years
	Year beginning baseline period range	1999	
	Year ending baseline period range ³	2008	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2004	
	Year ending baseline period range ⁴	2008	

¹ If the 2008 recycled water delivery is less than 10 percent of total water deliveries, then the 10-15year baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater of total deliveries, the 10-15 year baseline period is a continuous 10- to 15-year period.

² The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.

³ The ending year for the 10-15 year baseline period must be between December 31, 2004 and December 31, 2010.

⁴ The ending year for the 5 year baseline period must be between December 31, 2007 and December 31, 2010.

NOTES: Ojai Retail System.

Total water deliveries represent Ojai Groundwater Well production and deliveries from Casitas System.

SB X7-7 Table 2: Method for Population Estimates

Method Used to Determine Population (may check more than one)	
<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input type="checkbox"/>	2. Persons-per-Connection Method
<input checked="" type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES: Ojai Retail System.	

SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	1999	7,053
Year 2	2000	7,023
Year 3	2001	6,993
Year 4	2002	6,962
Year 5	2003	6,932
Year 6	2004	6,902
Year 7	2005	6,872
Year 8	2006	6,841
Year 9	2007	6,811
Year 10	2008	6,781
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2004	6,902
Year 2	2005	6,872
Year 3	2006	6,841
Year 4	2007	6,811
Year 5	2008	6,781
NOTES: Ojai Retail System.		

SB X7-7 Table 4: Annual Gross Water Use *

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Acre Feet
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	Annual Gross Water Use
10 to 15 Year Baseline - Gross Water Use							
Year 1	1999	2,552			-	-	2,552
Year 2	2000	2,631			-	-	2,631
Year 3	2001	2,462			-	-	2,462
Year 4	2002	2,760			-	-	2,760
Year 5	2003	2,442			-	-	2,442
Year 6	2004	2,488			-	-	2,488
Year 7	2005	2,239			-	-	2,239
Year 8	2006	2,314			-	-	2,314
Year 9	2007	2,649			-	-	2,649
Year 10	2008	2,400			-	-	2,400
Year 11	0	-			-	-	-
Year 12	0	-			-	-	-
Year 13	0	-			-	-	-
Year 14	0	-			-	-	-
Year 15	0	-			-	-	-
10 - 15 year baseline average gross water use							2,494
5 Year Baseline - Gross Water Use							
Year 1	2004	2,488			-	-	2,488
Year 2	2005	2,239			-	-	2,239
Year 3	2006	2,314			-	-	2,314
Year 4	2007	2,649			-	-	2,649
Year 5	2008	2,400			-	-	2,400
5 year baseline average gross water use							2,418
* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.							
NOTES: Ojai Retail System.							

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Ojai Basin Groundwater Wells

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	1999	2,181	2,181
Year 2	2000	2,080	2,080
Year 3	2001	2,258	2,258
Year 4	2002	2,220	2,220
Year 5	2003	2,066	2,066
Year 6	2004	1,824	1,824
Year 7	2005	1,955	1,955
Year 8	2006	1,818	1,818
Year 9	2007	1,963	1,963
Year 10	2008	1,736	1,736
Year 11	0		-
Year 12	0		-
Year 13	0		-
Year 14	0		-
Year 15	0		-

5 Year Baseline - Water into Distribution System

Year 1	2004	1,824	1,824
Year 2	2005	1,955	1,955
Year 3	2006	1,818	1,818
Year 4	2007	1,963	1,963
Year 5	2008	1,736	1,736

¹ **Units of measure** (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

² **Meter Error Adjustment** - See guidance in Methodology 1, Step 3 of Methodologies Document

NOTES: Ojai Retail System.

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Casitas System Interconnections

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	1999	370.5064813	371
Year 2	2000	550.9547376	551
Year 3	2001	204.345916	204
Year 4	2002	539.869677	540
Year 5	2003	376.0184005	376
Year 6	2004	664.246527	664
Year 7	2005	284.3526447	284
Year 8	2006	496.0478067	496
Year 9	2007	685.9734793	686
Year 10	2008	664.277876	664
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0

5 Year Baseline - Water into Distribution System

Year 1	2004	664.246527	664
Year 2	2005	284.3526447	284
Year 3	2006	496.0478067	496
Year 4	2007	685.9734793	686
Year 5	2008	664.277876	664

¹ **Units of measure** (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

² **Meter Error Adjustment** - See guidance in Methodology 1, Step 3 of Methodologies Document

NOTES: Casitas acquired the Ojai System from Golden State Water Company in 2017. When GSWC owned the Ojai System, they purchased water from Casitas.

SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction (For use only by agencies that are deducting indirect recycled water)

Baseline Year Fm SB X7-7 Table 3	Surface Reservoir Augmentation				Groundwater Recharge			Total Deductible Volume of Indirect Recycled Water Entering the Distribution System	
	Volume Discharged from Reservoir for Distribution System Delivery ¹	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/ Treatment Loss ¹	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility ^{1, 2}	Transmission/ Treatment Losses ¹		Recycled Volume Entering Distribution System from Groundwater Recharge
10-15 Year Baseline - Indirect Recycled Water Use									
Year 1			-					-	-
Year 2			-					-	-
Year 3			-					-	-
Year 4			-					-	-
Year 5			-					-	-
Year 6			-					-	-
Year 7			-					-	-
Year 8			-					-	-
Year 9			-					-	-
Year 10			-					-	-
Year 11			-					-	-
Year 12			-					-	-
Year 13			-					-	-
Year 14			-					-	-
Year 15			-					-	-
5 Year Baseline - Indirect Recycled Water Use									
Year 1			-					-	-
Year 2			-					-	-
Year 3			-					-	-
Year 4			-					-	-
Year 5			-					-	-

¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.

NOTES:

Data from this table will not be entered into WUEdata.
Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C: Process Water Deduction Eligibility

(For use only by agencies that are deducting process water) Choose Only One

<input type="checkbox"/>	Criteria 1 - Industrial water use is equal to or greater than 12% of gross water use. Complete SB X7-7 Table 4-C.1
<input type="checkbox"/>	Criteria 2 - Industrial water use is equal to or greater than 15 GPCD. Complete SB X7-7 Table 4-C.2
<input type="checkbox"/>	Criteria 3 - Non-industrial use is equal to or less than 120 GPCD. Complete SB X7-7 Table 4-C.3
<input type="checkbox"/>	Criteria 4 - Disadvantaged Community. Complete SB x7-7 Table 4-C.4

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.1: Process Water Deduction Eligibility					
Criteria 1					
Industrial water use is equal to or greater than 12% of gross water use					
Baseline Year <i>Fm SB X7-7 Table 3</i>	Gross Water Use Without Process Water Deduction	Industrial Water Use *	Percent Industrial Water	Eligible for Exclusion Y/N	
10 to 15 Year Baseline - Process Water Deduction Eligibility					
Year 1	1999	2,552		0%	NO
Year 2	2000	2,631		0%	NO
Year 3	2001	2,462		0%	NO
Year 4	2002	2,760		0%	NO
Year 5	2003	2,442		0%	NO
Year 6	2004	2,488		0%	NO
Year 7	2005	2,239		0%	NO
Year 8	2006	2,314		0%	NO
Year 9	2007	2,649		0%	NO
Year 10	2008	2,400		0%	NO
<i>Year 11</i>	0	-			NO
<i>Year 12</i>	0	-			NO
<i>Year 13</i>	0	-			NO
<i>Year 14</i>	0	-			NO
<i>Year 15</i>	0	-			NO
5 Year Baseline - Process Water Deduction Eligibility					
Year 1	2004	2,488		0%	NO
Year 2	2005	2,239		0%	NO
Year 3	2006	2,314		0%	NO
Year 4	2007	2,649		0%	NO
Year 5	2008	2,400		0%	NO
* Units of Measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.					
NOTES:					

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel
 format.

SB X7-7 Table 4-C.2: Process Water Deduction Eligibility

Criteria 2

Industrial water use is equal to or greater than 15 GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Water Use *	Population	Industrial GPCD	Eligible for Exclusion Y/N
10 to 15 Year Baseline - Process Water Deduction Eligibility				
Year 1	1999		7,053	- NO
Year 2	2000		7,023	- NO
Year 3	2001		6,993	- NO
Year 4	2002		6,962	- NO
Year 5	2003		6,932	- NO
Year 6	2004		6,902	- NO
Year 7	2005		6,872	- NO
Year 8	2006		6,841	- NO
Year 9	2007		6,811	- NO
Year 10	2008		6,781	- NO
<i>Year 11</i>	0		-	NO
<i>Year 12</i>	0		-	NO
<i>Year 13</i>	0		-	NO
<i>Year 14</i>	0		-	NO
<i>Year 15</i>	0		-	NO
5 Year Baseline - Process Water Deduction Eligibility				
Year 1	2004		6,902	- NO
Year 2	2005		6,872	- NO
Year 3	2006		6,841	- NO
Year 4	2007		6,811	- NO
Year 5	2008		6,781	- NO
* Units of Measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.				
NOTES:				

Data from this table will not be entered into WUEdata.

Instead,

the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.3: Process Water Deduction Eligibility

Criteria 3

Non-industrial use is equal to or less than 120 GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>	Gross Water Use Without Process Water Deduction <i>Fm SB X7-7 Table 4</i>	Industrial Water Use *	Non-industrial Water Use	Population <i>Fm SB X7-7 Table 3</i>	Non-Industrial GPCD	Eligible for Exclusion Y/N
10 to 15 Year Baseline - Process Water Deduction Eligibility						
Year 1	1999	2,552	2,552	7,053	323	NO
Year 2	2000	2,631	2,631	7,023	334	NO
Year 3	2001	2,462	2,462	6,993	314	NO
Year 4	2002	2,760	2,760	6,962	354	NO
Year 5	2003	2,442	2,442	6,932	314	NO
Year 6	2004	2,488	2,488	6,902	322	NO
Year 7	2005	2,239	2,239	6,872	291	NO
Year 8	2006	2,314	2,314	6,841	302	NO
Year 9	2007	2,649	2,649	6,811	347	NO
Year 10	2008	2,400	2,400	6,781	316	NO
<i>Year 11</i>	0	-	-	-	-	NO
<i>Year 12</i>	0	-	-	-	-	NO
<i>Year 13</i>	0	-	-	-	-	NO
<i>Year 14</i>	0	-	-	-	-	NO
<i>Year 15</i>	0	-	-	-	-	NO
5 Year Baseline - Process Water Deduction Eligibility						
Year 1	2004	2,488	2,488	6,902	322	NO
Year 2	2005	2,239	2,239	6,872	291	NO
Year 3	2006	2,314	2,314	6,841	302	NO
Year 4	2007	2,649	2,649	6,811	347	NO
Year 5	2008	2,400	2,400	6,781	316	NO
* Units of Measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.						
NOTES:						

Data from this table will not be entered into WUEdata. Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.4: Process Water Deduction Eligibility

Criteria 4

Disadvantaged Community. A “Disadvantaged Community” (DAC) is a community with a median household income less than 80 percent of the statewide average.

SELECT ONE

"Disadvantaged Community" status was determined using one of the methods listed below:

- 1. IRWM DAC Mapping tool**
<https://gis.water.ca.gov/app/dacs/>

If using the IRWM DAC Mapping Tool, include a screen shot from the tool showing that the service area is considered a DAC.

- 2. 2010 Median Income**

	California Median Household Income	Service Area Median Household Income	Percentage of Statewide Average	Eligible for Exclusion? Y/N
2010	\$60,883		0%	YES

NOTES:

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete

a separate table for each industrial customer with a process water exclusion

Name of Industrial Customer *Enter Name of Industrial Customer 1*

Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use *	Total Volume Supplied by Water Agency*	% of Water Supplied by Water Agency	Customer's Total Process Water Use*	Volume of Process Water Eligible for Exclusion for this Customer
--	---	--	-------------------------------------	-------------------------------------	--

10 to 15 Year Baseline - Process Water Deduction

Year 1	1999				-
Year 2	2000				-
Year 3	2001				-
Year 4	2002				-
Year 5	2003				-
Year 6	2004				-
Year 7	2005				-
Year 8	2006				-
Year 9	2007				-
Year 10	2008				-
<i>Year 11</i>	0				-
<i>Year 12</i>	0				-
<i>Year 13</i>	0				-
<i>Year 14</i>	0				-
<i>Year 15</i>	0				-

5 Year Baseline - Process Water Deduction

Year 1	2004				-
Year 2	2005				-
Year 3	2006				-
Year 4	2007				-
Year 5	2008				-

* **Units of Measure** (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

NOTES:

SB X7-7 Table 5: Baseline Gallons Per Capita Per Day (GPCD)

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	7,053	2,552	323
Year 2	2000	7,023	2,631	334
Year 3	2001	6,993	2,462	314
Year 4	2002	6,962	2,760	354
Year 5	2003	6,932	2,442	314
Year 6	2004	6,902	2,488	322
Year 7	2005	6,872	2,239	291
Year 8	2006	6,841	2,314	302
Year 9	2007	6,811	2,649	347
Year 10	2008	6,781	2,400	316
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	

10-15 Year Average Baseline GPCD **322**

5 Year Baseline GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2004	6,902	2,488	322
Year 2	2005	6,872	2,239	291
Year 3	2006	6,841	2,314	302
Year 4	2007	6,811	2,649	347
Year 5	2008	6,781	2,400	316

5 Year Average Baseline GPCD **316**

NOTES: Ojai Retail System.

SB X7-7 Table 6: Baseline GPCD *Summary*
From Table SB X7-7 Table 5

10-15 Year Baseline GPCD	322
5 Year Baseline GPCD	316

NOTES: Ojai Retail System.

SB X7-7 Table 7: 2020 Target Method*Select Only One*

Target Method		Supporting Tables
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator <i>Located in the WUE Data Portal at wuedata.water.ca.gov Resources button</i>

NOTES:

SB X7-7 Table 7-A: Target Method 1

20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
322	257

NOTES: Ojai Retail System.

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 7-B: Target Method 2

Target Landscape Water Use

Units of Measure		Acre Feet
Reference Evapotranspiration Rate (ET0) ¹ for Service Area (inches/year)		
Acres of Irrigated Landscape and Applicable ETAF		Water Use ³
	Acres	
Acres of landscape installed pre-2010 (ETAF 0.8) ²		-
Acres of landscape installed post-2010 (ETAF 0.7) ²		-
Acres of residential landscape installed post 2015 (ETAF .55)		-
Acres of CII landscape installed post 2015 (ETAF .45)		-
Acres of Special Landscape Area (ETAF 1.0) ²		-
Target Landscape Water Use for 2020		-

¹ ET0 information can be found at <https://cimis.water.ca.gov>. If the water supplier's service area spans more than one ETo Zone, the supplier will use multiple versions of SB X7-7 Table 7B for each ETo zone that they serve.

² ETAF - Evapotranspiration Adjustment Factor. Refer to the Model Water Efficient Landscape Ordinance at <https://water.ca.gov/Programs/Water-Use-And-Efficiency/Model-Water-Efficient-Landscape-Ordinance>

³ Water Use Unit of Measure (AF, MG, CCF) is automatically converted to the units selected by the user in Table 0.

NOTES: TABLE NOT USED

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 7-C: Target Method 2

Target CII Water Use

Baseline Year <i>Fm SB X7-7 Table 3</i>		CII Water Use ^{1,2}	Process Water Exclusion (Optional) <i>Fm SB X7-7 Table 4</i>	CII Water Use Minus Process Water	Population <i>Fm SB X7-7 Table 3</i>	CII GPCD
Unit of Measure						Acre Feet
Year 1	1999		0	0	7,053	0
Year 2	2000		0	0	7,023	0
Year 3	2001		0	0	6,993	0
Year 4	2002		0	0	6,962	0
Year 5	2003		0	0	6,932	0
Year 6	2004		0	0	6,902	0
Year 7	2005		0	0	6,872	0
Year 8	2006		0	0	6,841	0
Year 9	2007		0	0	6,811	0
Year 10	2008		0	0	6,781	0
Year 11	0		0	0	-	
Year 12	0		0	0	-	
Year 13	0		0	0	-	
Year 14	0		0	0	-	
Year 15	0		0	0	-	
Average Annual 10 to 15 Year Baseline CII Water Use (GPCD)						0
10% Reduction						0.0
2020 Target CII Water Use						0
¹ CII water use for each year of the baseline period must be provided by the user.						
² Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.						
NOTES: TABLE NOT USED						

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in
 Excel format.

SB X7-7 Table 7-D: Target Method 2 Summary

2020 Population	Enter 2020 Population	
Sector	Volume	GPCD
	Acre Feet	
Target Indoor Residential Water Use		55
Target Landscape Water Use* <i>From SB X7-7 Table 7-B</i>	-	
Target CII Water Use <i>From SB X7-7 Table 7-C</i>		0
2020 Target	-	55
<i>*Additional rows may be added for Target Landscape Water Use if the service area spans more than one Eto Zone.</i>		
NOTES: TABLE NOT USED		

SB X7-7 Table 7-E: Target Method 3

Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
<input type="checkbox"/>		North Coast	137	130
<input type="checkbox"/>		North Lahontan	173	164
<input type="checkbox"/>		Sacramento River	176	167
<input type="checkbox"/>		San Francisco Bay	131	124
<input type="checkbox"/>		San Joaquin River	174	165
<input type="checkbox"/>		Central Coast	123	117
<input type="checkbox"/>		Tulare Lake	188	179
<input type="checkbox"/>		South Lahontan	170	162
<input type="checkbox"/>		South Coast	149	142
<input type="checkbox"/>		Colorado River	211	200
2020 Target <i>(If more than one region is selected, this value is calculated.)</i>				0
NOTES: TABLE NOT USED				

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target ¹	Calculated 2020 Target ²			Confirmed 2020 Target ⁴
		As calculated by supplier in this SB X7-7 Verification Form	Special Situations ³		
			Prorated 2020 Target	Population Weighted Average 2020 Target	
316	300	257			257

¹ **Maximum 2020 Target** is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD.

² **Calculated 2020 Target** is the target calculated by the Supplier based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target. Supplier may only enter one calculated target.

³ **Prorated targets and population weighted target** are allowed for special situations only. These situations are described in Appendix P, Section P.3

⁴ **Confirmed Target** is the lesser of the Calculated 2020 Target (C5, D5, or E5) or the Maximum 2020 Target (Cell B5)

NOTES: Ojai Retail System.

SB X7-7 2020 Compliance Form

The SB X7-7 2020 Compliance Form is for the calculation of 2020 compliance only. All retail suppliers must complete the SB X7-7 Compliance Form. Baseline and target calculations are done in the SB X 7-7 Verification Form.

The SB X7-7 Verification Form is for the calculation of baselines and targets and is a separate workbook from the SB X7-7 2020 Compliance Form. Most Suppliers will have completed the SB X7-7 Verification Form with their 2015 UWMP and do not need to complete this form again in 2020. See Chapter 5 Section 5.3 of the UWMP Guidebook for more information regarding which Suppliers must, or may, complete the SB X7-7 Verification Form for their 2020 UWMP. 2020 compliance calculations are done in the SB X7-7 2020 Compliance Form.

Process Water Deduction tables will not be entered into WUE Data Portal tables.

SB X7-7 tables 4-C, 4-C.1, 4-C.2, 4-C.3, 4-C.4 and 4-D

A supplier that will use the process water deduction will complete the appropriate tables in Excel, submit them as a separate upload to the WUE Data Portal, and include them in its UWMP.

Where to submit? Suppliers submit the completed table data and UWMPs (including the Water Shortage Contingency Plan) electronically through the WUE Data Portal (<https://wuedata.water.ca.gov/>). The portal will be updated in Spring 2021 and will be announced to the urban listserv, DWR webpage and WUE Data Portal opening page when it is available for plan and table submittals.

Unlocking templates (use with caution): The templates provided in this workbook are formatted to mirror the structure of information that is submitted through the WUE Data Portal for the electronic submission of Submittal Tables in the UWMP. The tables are offered in a protected (locked) version to maintain the structure of the templates. However, for those needing to adjust the tables for their own planning needs beyond the Submittal Tables, the password to 'unprotect' each worksheet is 'dwr' (no quotes). To unprotect the worksheet, go to the Review tab, select Unprotect Sheet, and enter the password 'dwr' in the pop-up (no quotes). Preparers will still need to submit the information using the original template structure provided. To redownload the templates in their original format, visit <https://wuedata.water.ca.gov> in the Resources button of the Urban Water Management Plan section (no login necessary).

SB X7-7 Table 0: Units of Measure Used in 2020 UWMP*

(select one from the drop down list)

Acre Feet

**The unit of measure must be consistent throughout the UWMP, as reported in Submittal Table 2-3.*

NOTES: Casitas Retail System.

SB X7-7 Table 1 pertains to baselines and targets and is not used in the SB X7-7 2020 Compliance Form.

SB X7-7 Table 2: Method for 2020 Population Estimate

Method Used to Determine 2020 Population
(may check more than one)

<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review

NOTES: 2020 Census data not yet available.

SB X7-7 Table 3: 2020 Service Area Population

2020 Compliance Year Population

2020	11,042
-------------	--------

NOTES: Casitas Retail System.

SB X7-7 Table 4: 2020 Gross Water Use

Compliance Year 2020	2020 Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	2020 Deductions				2020 Gross Water Use	
		Exported Water *	Change in Dist. System Storage* (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use*		Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>
	10,626	3,095		-	5,115	-	2,416

* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES: Casitas Retail System.
Exported water reflects Resale usage.

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source		Marion Walker WTP	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	10,447	-	10,447
¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES Casitas Retail System.			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s) Meter Error Adjustment

Complete one table for each source.

Name of Source		Mira Monte Groundwater Well	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	179		179
¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES: Casitas Retail System.			

SB X7-7 Table 4-B: 2020 Indirect Recycled Water Use Deduction (For use only by agencies that are deducting indirect recycled water)									
2020 Compliance Year	2020 Surface Reservoir Augmentation					2020 Groundwater Recharge			Total Deductible Volume of Indirect Recycled Water Entering the Distribution System
	Volume Discharged from Reservoir for Distribution System Delivery ¹	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/Treatment Loss ¹	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility ^{1,2}	Transmission/Treatment Losses ¹	Recycled Volume Entering Distribution System from Groundwater Recharge	
	-	0%	-		-	-	-	-	-

¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.

No Indirect Recycled Water use in the Casitas retail system

Data from this table will not be entered into WUEdata.
Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

**SB X7-7 Table 4-C: 2020 Process Water Deduction Eligibility
(For use only by agencies that are deducting process water) Choose Only One**

<input type="checkbox"/>	Criteria 1- Industrial water use is equal to or greater than 12% of gross water use. Complete SB X7-7 Table 4-C.1
<input type="checkbox"/>	Criteria 2 - Industrial water use is equal to or greater than 15 GPCD. Complete SB X7-7 Table 4-C.2
<input type="checkbox"/>	Criteria 3 - Non-industrial use is equal to or less than 120 GPCD. Complete SB X7-7 Table 4-C.3
<input type="checkbox"/>	Criteria 4 - Disadvantaged Community. Complete SB x7-7 Table 4-C.4

NOTES: No Process water Deductions

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in
 Excel format.

SB X7-7 Table 4-C.1: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 1)*

Criteria 1
 Industrial water use is equal to or greater than 12% of gross water use

2020 Compliance Year	2020 Gross Water Use Without Process Water Deduction	2020 Industrial Water Use	Percent Industrial Water	Eligible for Exclusion Y/N
	2,416	12	0%	NO

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel
 format.

SB X7-7 Table 4-C.2: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 2)*

Criteria 2
 Industrial water use is equal to or greater than 15 GPCD

2020 Compliance Year	2020 Industrial Water Use	2020 Population	2020 Industrial GPCD	Eligible for Exclusion Y/N
	12	11,042	1	NO

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.3: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 3)*

Criteria 3
 Non-industrial use is equal to or less than 120 GPCD

2020 Compliance Year	2020 Gross Water Use Without Process Water Deduction <i>Fm SB X7-7 Table 4</i>	2020 Industrial Water Use	2020 Non-industrial Water Use	2020 Population <i>Fm SB X7-7 Table 3</i>	Non-Industrial GPCD	Eligible for Exclusion Y/N
	2,416	12	2,404	11,042	194	NO

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in
 Excel format.

SB X7-7 Table 4-C.4: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 4)*

Criteria 4

Disadvantaged Community. A "Disadvantaged Community" (DAC) is a community with a median household income less than 80 percent of the statewide average.

SELECT ONE

"Disadvantaged Community" status was determined using one of the methods listed below:

1. IRWM DAC Mapping tool <https://gis.water.ca.gov/app/dacs/>

If using the IRWM DAC Mapping Tool, include a screen shot from the tool showing that the service area is considered a DAC.

2. 2020 Median Income

	California Median Household Income*		Service Area Median Household Income	Percentage of Statewide Average	Eligible for Exclusion? Y/N
	2020	\$75,235			
<input type="checkbox"/>	2020	\$75,235	\$87,277	116%	NO
*California median household income 2015 -2019 as reported in US Census Bureau QuickFacts.					

NOTES

Data from these tables will not be entered into WUEdata.

Instead,

the entire tables will be uploaded to WUEdata as a separate upload in Excel format.

This table(s) is only for Suppliers that deduct process water from their 2020 gross water use.

SB X7-7 Table 4-D: 2020 Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer

Enter Name of Industrial Customer 1

Compliance Year 2020	Industrial Customer's Total Water Use *	Total Volume Provided by Supplier*	% of Water Provided by Supplier	Customer's Total Process Water Use*	Volume of Process Water Eligible for Exclusion for this Customer
	-	-		-	-

* **Units of measure (AF, MG , or CCF)** must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES:

SB X7-7 Table 5: 2020 Gallons Per Capita Per Day (GPCD)

2020 Gross Water <i>Fm SB X7-7 Table 4</i>	2020 Population <i>Fm</i> <i>SB X7-7 Table 3</i>	2020 GPCD
2,416	11,042	195

NOTES: Casitas Retail System.

SB X 7-7 Table 6 pertains to baselines and targets and is not used in the SB X7-7 2020 Compliance Form.

SB X7-7 Table 7 applies to baseline and target calculations and is not included in the SB X7-7 2020 Compliance Form.

SB X7-7 Table 8 was used for the 2015 Interim Target and is not used in the 2020 UWMP.

SB X7-7 Table 9: 2020 Compliance

Actual 2020 GPCD ¹	Optional Adjustments to 2020 GPCD					2020 Confirmed Target GPCD ^{1,2}	Did Supplier Achieve Targeted Reduction for 2020?
	Enter "0" if Adjustment Not Used			TOTAL Adjustments ¹	Adjusted 2020 GPCD ¹ <i>(Adjusted if applicable)</i>		
	Extraordinary Events ¹	Weather Normalization ¹	Economic Adjustment ¹				
195	-	-	-	-	195	295	YES

¹ All values are reported in GPCD

² **2020 Confirmed Target GPCD** is taken from the Supplier's SB X7-7 Verification Form Table SB X7-7, 7-F.

NOTES: Casitas Retail System.

SB X7-7 2020 Compliance Form

The SB X7-7 2020 Compliance Form is for the calculation of 2020 compliance only. All retail suppliers must complete the SB X7-7 Compliance Form. Baseline and target calculations are done in the SB X 7-7 Verification Form.

The SB X7-7 Verification Form is for the calculation of baselines and targets and is a separate workbook from the SB X7-7 2020 Compliance Form. Most Suppliers will have completed the SB X7-7 Verification Form with their 2015 UWMP and do not need to complete this form again in 2020. See Chapter 5 Section 5.3 of the UWMP Guidebook for more information regarding which Suppliers must, or may, complete the SB X7-7 Verification Form for their 2020 UWMP. 2020 compliance calculations are done in the SB X7-7 2020 Compliance Form.

Process Water Deduction tables will not be entered into WUE Data Portal tables.

SB X7-7 tables 4-C, 4-C.1, 4-C.2, 4-C.3, 4-C.4 and 4-D

A supplier that will use the process water deduction will complete the appropriate tables in Excel, submit them as a separate upload to the WUE Data Portal, and include them in its UWMP.

Where to submit? Suppliers submit the completed table data and UWMPs (including the Water Shortage Contingency Plan) electronically through the WUE Data Portal (<https://wuedata.water.ca.gov/>). The portal will be updated in Spring 2021 and will be announced to the urban listserv, DWR webpage and WUE Data Portal opening page when it is available for plan and table submittals.

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SB X7-7 Table 0: Units of Measure Used in 2020 UWMP*

(select one from the drop down list)

Acre Feet

**The unit of measure must be consistent throughout the UWMP, as reported in Submittal Table 2-3.*

NOTES: Ojai Retail System.

SB X7-7 Table 1 pertains to baselines and targets and is not used in the SB X7-7 2020 Compliance Form.

SB X7-7 Table 2: Method for 2020 Population Estimate

Method Used to Determine 2020 Population
(may check more than one)

<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review

NOTES: 2020 Census data not yet available.

SB X7-7 Table 3: 2020 Service Area Population

2020 Compliance Year Population

2020	6,712
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NOTES: Ojai Retail System.

SB X7-7 Table 4: 2020 Gross Water Use

Compliance Year 2020	2020 Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	2020 Deductions				2020 Gross Water Use	
		Exported Water *	Change in Dist. System Storage* (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use*		Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>
	1,669			-	100	-	1,569

* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES: Ojai Retail System.

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source		Ojai Basin Groundwater Wells	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	1,300	-	1,300
¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES Ojai Retail System.			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s) Meter Error Adjustment

Complete one table for each source.

Name of Source		Casitas System Interconnections	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	369		369
¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES: Casitas acquired the Ojai System from Golden State Water Company in 2017. When GSWC owned the Ojai System, they purchased water from Casitas.			

SB X7-7 Table 4-B: 2020 Indirect Recycled Water Use Deduction (For use only by agencies that are deducting indirect recycled water)									
2020 Compliance Year	2020 Surface Reservoir Augmentation					2020 Groundwater Recharge			Total Deductible Volume of Indirect Recycled Water Entering the Distribution System
	Volume Discharged from Reservoir for Distribution System Delivery ¹	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/Treatment Loss ¹	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility ^{1,2}	Transmission/Treatment Losses ¹	Recycled Volume Entering Distribution System from Groundwater Recharge	
	-		-		-	-		-	-

¹ Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.

2

Data from this table will not be entered into WUEdata.
Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C: 2020 Process Water Deduction Eligibility

(For use only by agencies that are deducting process water) Choose Only One

<input type="checkbox"/>	Criteria 1- Industrial water use is equal to or greater than 12% of gross water use. Complete SB X7-7 Table 4-C.1
<input type="checkbox"/>	Criteria 2 - Industrial water use is equal to or greater than 15 GPCD. Complete SB X7-7 Table 4-C.2
<input type="checkbox"/>	Criteria 3 - Non-industrial use is equal to or less than 120 GPCD. Complete SB X7-7 Table 4-C.3
<input type="checkbox"/>	Criteria 4 - Disadvantaged Community. Complete SB x7-7 Table 4-C.4

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in
 Excel format.

SB X7-7 Table 4-C.1: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 1)*

Criteria 1
 Industrial water use is equal to or greater than 12% of gross water use

2020 Compliance Year	2020 Gross Water Use Without Process Water Deduction	2020 Industrial Water Use	Percent Industrial Water	Eligible for Exclusion Y/N
	1,569	3	0%	NO

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel
 format.

SB X7-7 Table 4-C.2: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 2)*

Criteria 2
 Industrial water use is equal to or greater than 15 GPCD

2020 Compliance Year	2020 Industrial Water Use	2020 Population	2020 Industrial GPCD	Eligible for Exclusion Y/N
	3	6,712	0	NO

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in Excel format.

SB X7-7 Table 4-C.3: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 3)*

Criteria 3
 Non-industrial use is equal to or less than 120 GPCD

2020 Compliance Year	2020 Gross Water Use Without Process Water Deduction <i>Fm SB X7-7 Table 4</i>	2020 Industrial Water Use	2020 Non-industrial Water Use	2020 Population <i>Fm SB X7-7 Table 3</i>	Non-Industrial GPCD	Eligible for Exclusion Y/N
	1,569	3	1,566	6,712	208	NO

NOTES:

Data from this table will not be entered into WUEdata.
 Instead, the entire table will be uploaded to WUEdata as a separate upload in
 Excel format.

SB X7-7 Table 4-C.4: 2020 Process Water Deduction Eligibility *(For use only by agencies that are deducting process water using Criteria 4)*

Criteria 4

Disadvantaged Community. A "Disadvantaged Community" (DAC) is a community with a median household income less than 80 percent of the statewide average.

SELECT ONE

"Disadvantaged Community" status was determined using one of the methods listed below:

1. IRWM DAC Mapping tool <https://gis.water.ca.gov/app/dacs/>

If using the IRWM DAC Mapping Tool, include a screen shot from the tool showing that the service area is considered a DAC.

2. 2020 Median Income

	California Median Household Income*		Service Area Median Household Income	Percentage of Statewide Average	Eligible for Exclusion? Y/N
	2020	\$75,235	\$82,823	110%	NO
<input type="checkbox"/>	*California median household income 2015 -2019 as reported in US Census Bureau QuickFacts.				

NOTES

Data from these tables will not be entered into WUEdata. Instead, the entire tables will be uploaded to WUEdata as a separate upload in Excel format.

This table(s) is only for Suppliers that deduct process water from their 2020 gross water use.

SB X7-7 Table 4-D: 2020 Process Water Deduction - Volume *Complete a separate table for each industrial customer with a process water exclusion*

Name of Industrial Customer *Enter Name of Industrial Customer 1*

Compliance Year 2020	Industrial Customer's Total Water Use *	Total Volume Provided by Supplier*	% of Water Provided by Supplier	Customer's Total Process Water Use*	Volume of Process Water Eligible for Exclusion for this Customer
					-

* **Units of measure (AF, MG , or CCF)** must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES:

SB X7-7 Table 5: 2020 Gallons Per Capita Per Day (GPCD)

2020 Gross Water <i>Fm SB X7-7 Table 4</i>	2020 Population <i>Fm</i> <i>SB X7-7 Table 3</i>	2020 GPCD
1,569	6,712	209

NOTES: Ojai Retail System.

SB X 7-7 Table 6 pertains to baselines and targets and is not used in the SB X7-7 2020 Compliance Form.

SB X7-7 Table 7 applies to baseline and target calculations and is not included in the SB X7-7 2020 Compliance Form.

SB X7-7 Table 8 was used for the 2015 Interim Target and is not used in the 2020 UWMP.

SB X7-7 Table 9: 2020 Compliance

Actual 2020 GPCD ¹	Optional Adjustments to 2020 GPCD				Adjusted 2020 GPCD ¹ <i>(Adjusted if applicable)</i>	2020 Confirmed Target GPCD ^{1,2}	Did Supplier Achieve Targeted Reduction for 2020?
	Enter "0" if Adjustment Not Used			TOTAL Adjustments ¹			
	Extraordinary Events ¹	Weather Normalization ¹	Economic Adjustment ¹				
209	-	-	-	-	209	257	YES

¹ All values are reported in GPCD

² **2020 Confirmed Target GPCD** is taken from the Supplier's SB X7-7 Verification Form Table SB X7-7, 7-F.

NOTES: Ojai Retail System.

Water Efficiency Allocation Program (WEAP)

WATER EFFICIENCY AND ALLOCATION PROGRAM

Casitas Municipal Water District

May 12, 2021

SECTION 1: INTRODUCTION

In 1992 the Casitas Municipal Water District (Casitas) adopted a series of ordinances, resolutions, and a Water Efficiency and Allocation Program (WEAP) in response to the increasing water demands and declining water storage in Lake Casitas experienced during the 1987-1991 drought period. The collective work in 1992 set the starting point for a system of water allocation assignments and demand response criteria that are based on the level of water storage in Lake Casitas. Since 1992, there has been a significant outreach by Casitas to raise the public's awareness on the importance to conserve local water supplies, changes in the water supply and demand, regulatory compliance directives pursuant to the Endangered Species Act (ESA), and system outage events that temporarily activated Casitas' emergency response plan. All of these factors, including the responses and experiences of the current drought, are considered in the update of the Water Efficiency and Allocation Program.

1.1 Purpose and Principles of the Plan.

The purpose of this update of the WEAP is to provide guidance on water supply and demand strategies that (1) conserve the water supply of the Ventura River Project, Lake Casitas and other water resources that are in the direct control of Casitas, for the greatest public benefit, (2) mitigate the effects of a water shortage on public health and safety and economic activity, (3) allocate water use so that a reliable and sustainable supply of water will be available for the most essential purposes under all water storage conditions of Lake Casitas, and (4) adapt to changing conditions of water supply demand and constraints.

The WEAP describes the water demand reduction strategies and measures to address future water shortage conditions, promote water conservation and the efficient use of water, and the application of a conservation penalty to customers who waste water.

1.2 Relationship between this Document, Water Codes, and Other Plans.

This WEAP shall be guided by State regulations and planning requirements as provided by the California Water Code that provides Casitas with broad powers to implement and enforce regulations and restrictions for managing a water shortage (§71640-71644), to implement water conservation programs (§375--378), to implement allocation-based conservation water pricing (§370-374), and to declare a water shortage emergency (§350-359).

As required by Water Code Section 10632, this WEAP shall be integrated as a part of the Casitas Urban Water Management Plan (UWMP), as amended or updated every five years. The Casitas 2010 UWMP has been accepted and approved by the State Department of Water Resources. The UWMP provides an in-depth description of the Casitas water system, water resources and demands, and water supply reliability. For the purposes of integration and lessening the conflicts due to the replication of information, the WEAP shall rely on the updates of the Water Code Sections provided in the attached Appendices and UWMP, as amended or updated every five years.

SECTION 2: WATER SUPPLY AND DEMAND CONDITIONS

2.1 Water Supply.

The water supply for Casitas is derived from (1) the watersheds that flow directly and indirectly by diversion from the Ventura River of water during wet years to carryover storage in Lake Casitas for use during dry years, and (2) groundwater to the extent that Casitas has its own groundwater supply. The watersheds of the Ventura River region are subject to an extreme variation in the weather patterns, ranging from multiple years of drought to sometimes significant wet year events that are associated with El Nino conditions that add to the uncertainty of available local water supplies.

2.1.1 Surface Water.

The primary goal of Casitas is to provide a safe and reliable water supply. Due to the uncertainty of weather conditions that provide water to the local watersheds, a safe yield modeling has been implemented to provide guidance on water supply availability. The safe yield modeling criteria for the Casitas surface water supply provides a theoretical rate of decline in available water supply during a critical drought period, that if given a specific annual extraction rate from storage, that would reduce Lake Casitas to an exhausted minimum pool.

The sizing of Lake Casitas storage volume and the determination of the annual safe yield of water from Lake Casitas was originally determined by the Bureau of Reclamation in 1954, based on the hydrologic modeling for the critical drought period that started in 1919 and continued through 1936. The storage volume of the off stream reservoir, Lake Casitas, was set to be 254,000 acre-feet and the annual safe yield was determined to be 28,000 acre-feet. In 2004, Casitas recalculated the annual safe yield of Lake Casitas for the drought period of 1944 to 1965 based on newer knowledge of the diminished value of Matilija Reservoir and its impending removal, and the change in Robles Diversion operations resulting from the 2003 Biological Opinion established by the National Marine Fisheries Service pursuant to the federal Endangered Species Act. The recalculated annual safe yield of Lake Casitas was determined to be 20,840 acre-feet per year.

The safe yield trend for the 1944-1965 critical drought period is illustrated in Figure 1, with the assumption that the critical drought period begins with a full reservoir. The modeling applies the hydrology, river diversions operations, and lake evaporation for the period (1944-1965) that contribute to the Lake Casitas storage. The safe yield is a constant extraction rate from lake storage that contribute to the decline in Lake Casitas storage during the critical drought period, taking lake storage from full capacity to a minimum pool condition. Based on the safe yield model with a continuous and steady extraction rate, or safe yield, of water at 20,840 acre-feet each year, Lake Casitas would decline from full storage to minimum pool in approximately twenty years.

Also included in Figure 1 is the Recovery Period of Lake Casitas, which illustrates the actual filling rate experienced at Lake Casitas during the 1959 to 1978 period. The recovery of the Lake Casitas volume during the Recovery Period that is illustrated in Figure 1 cannot be assumed as the normal or common sequence given the variability of the rainfall amounts in the Ventura River watershed, constraints, and other influences to Lake Casitas inflow and storage. Casitas may experience elevated water supply risks that could be associated with a delay in the start of the recovery period while at minimum pool in Lake Casitas, or there could be a condition where the critical drought period begins with a partially recovered storage level in Lake Casitas.

The availability of the Lake Casitas supply can be influenced or impacted by long-term droughts, changes to lake water quality, and/or changes to diversion and storage conditions. The safe yield of Lake Casitas and annual water availability may need to be reconsidered in the future as a result of changing conditions or new information that differs from the present conditions.

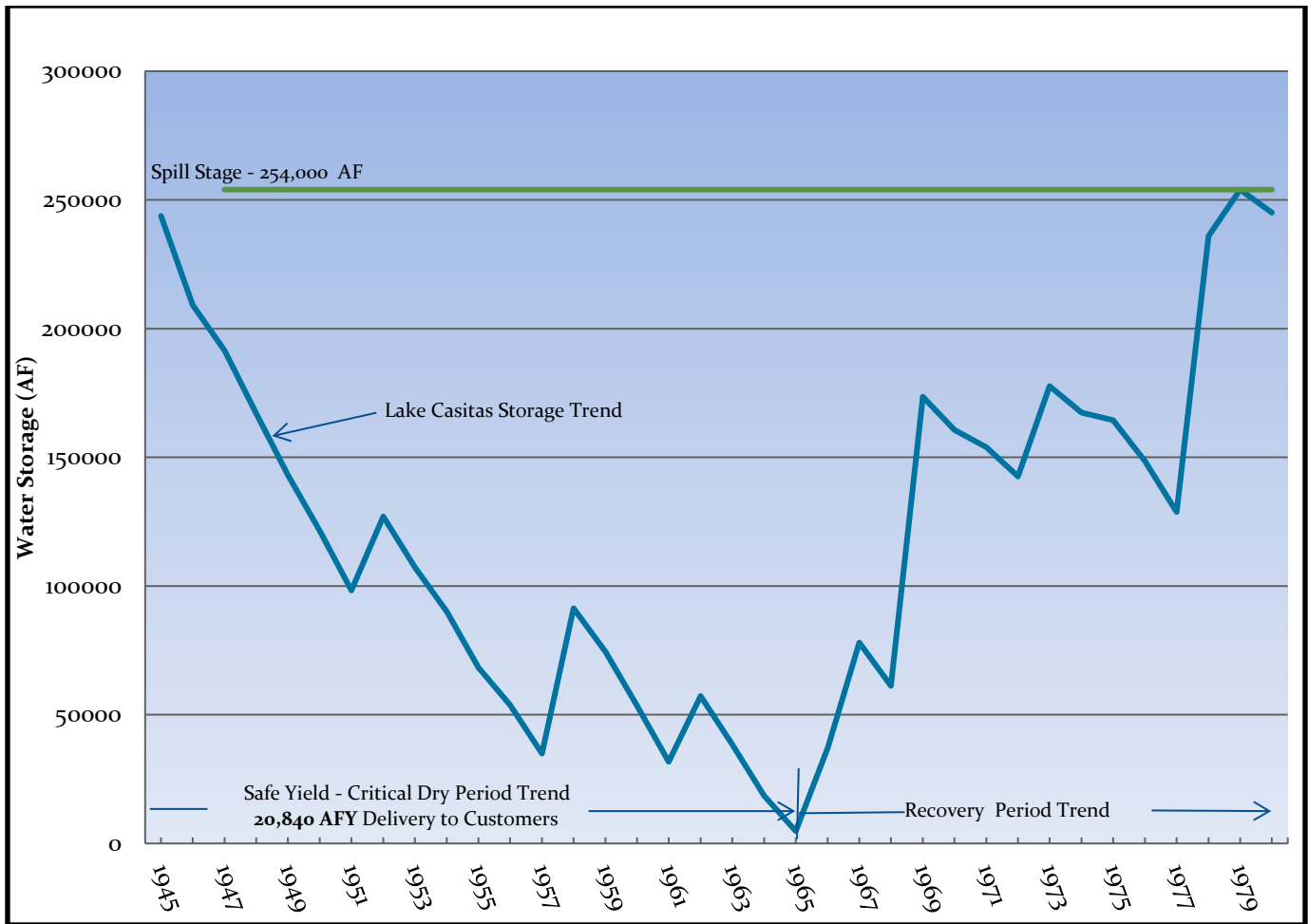


Figure 1 – Lake Casitas Safe Yield Storage and Recovery Period Trends

2.1.2 Groundwater.

Within Casitas’ district boundaries, there are several local groundwater basins that are primary and critical sources of water supply for other local water purveyors (public, mutual and private), individual residential use and agriculture. During extended periods of drought with several years of less than average rainfall (20-inches) the local groundwater basins can become depleted due to pumping, natural drainage and evapotranspiration. The Lake Casitas surface water supply serves as a back-up water supply to the groundwater supply during times of extended drought.

Table 1 – Groundwater Basins of the Ventura River Watershed

Groundwater Basin	Acres	Max. Capacity (AF)	Approx. Safe Yield (AF/Yr.)
Upper Ojai	2,840	5,681	Unavailable
Ojai Valley	6,471	85,000	5,026

Upper Ventura River	9,360	35,118	9,482
Lower Ventura River	6,090	8,743	2,130

Source: Ventura River Watershed Council

The groundwater basins have demonstrated an ability to recharge rapidly in any one year with sufficient rainfall events, upon which time groundwater becomes the preferred source for those with well pumping access to the groundwater basins.

2.2 Water Demand.

The Casitas Board of Directors has established that the average long-term demand upon Lake Casitas must not exceed the annual safe yield of Lake Casitas supply. As a result of the 1987-1991, multi-year drought that resulted in water demands exceeding the annual safe yield, Casitas implemented specific actions in 1992 to limit water demands. The actions included the declaration of a voluntary twenty percent reduction in water demand, the assignment of water allocations based on 80 percent of FY1989-90 water usage that reflects a reduction in demand that comports more closely to safe yield of the Lake Casitas Supply, the implementation of water conservation measures to assist water users in adapting to less water consumption, and the limiting of new water service connections and expansions of agricultural plantings. Table 2 provides a comparison of classification water use, from prior to the action being taken by Casitas, to the level of water use during the recent drought. The FY 1989-90 water demand is recognized as being a high extreme water demand year at the end of the four year drought period.

Table 2 – Water Use Comparison by Customer Classification

Classification	No. of Service Connections		Water Demand – Lake Casitas (AF)		
	FY 1989-90	FY 2013-14	FY 1989-90	FY 2012-13	FY 2013-14
Residential	2424	2700	1603	1678	1738
Business	93	108	821	663	724
Industrial	12	9	155	23	22
Other	33	41	530	244	255
Resale Gravity	8	8	7724	4642	5614
Resale Pumped	15	15	1027	551	1182
Irrigation	253	251	11706	7978	9385
Interdepartmental	21	21	343	120	119
Temporary			11	13	55
Total	2,859	3,153	23,909	15,899	19,094

The local groundwater resources of the Ojai Valley and Ventura River provide on average 7,385 acre-feet per year (Daniel B. Stephens, 2010) to municipal, residential and agricultural pumpers. During multiple dry years, the groundwater basins become depleted and groundwater demands are met by supplementing groundwater supply from the Lake Casitas supply. In most cases, groundwater pumpers have a water service connection to Casitas as a backup supply of water. During any year or multiple dry year sequence of less than average rainfall, Casitas can anticipate that a portion of the 7,385 acre-feet of groundwater demand may be supplemented by the Lake Casitas supply. When groundwater basins are restored by rainfall events, groundwater pumpers convert back to the less expensive groundwater supply. The demand shifts are illustrated in Table 2 and Figure 2 for various classifications of water consumers. The FY 1989-90 and FY 2013-14 water demands occurred at the end of a three-year drought sequence.

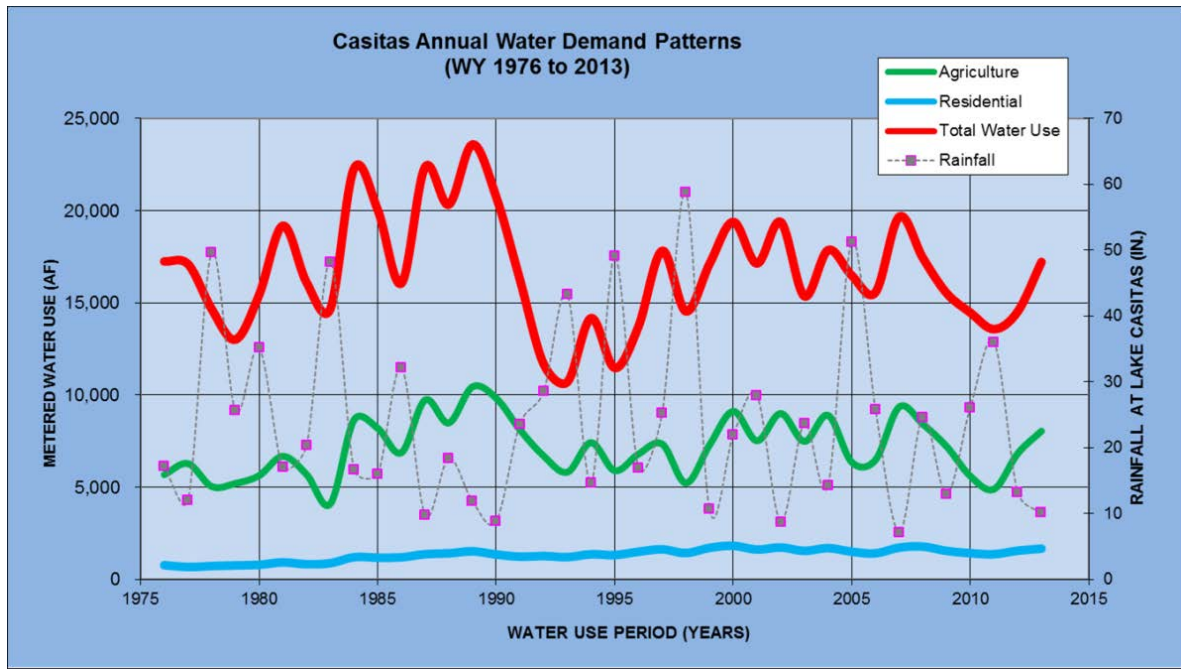


Figure 2 – Casitas Annual Demand Patterns

2.3 Priorities of Water Use.

Casitas recognizes the following priorities for potable water:

- 1) Public safety, health and sanitation;
- 2) Economic sustainability; and
- 3) Quality of life for the district’s customers.

Within each of the customer classifications there may be water uses that are considered non-essential to public health and sanitation and may have no significant impact to the economic productivity of the western Ventura County. The non-essential water uses may be asked at any time to be curtailed during times of extreme water shortages.

Casitas recognizes that the agricultural crops in western Ventura County are primarily tree orchards that require a substantial period of time before becoming productive, and if fallowed will experience several years of non-production. To maintain water supplies into the future that will meet the local water demands, Casitas and the public may be faced with additional decisions on water use reductions that may impact the agricultural classification.

SECTION 3: WATER SHORTAGE EMERGENCY ACTIONS

3.1 Urban Water Contingency Analysis.

Water Code 10632 requires that the agency’s Urban Water Management Plan provide an urban water shortage contingency analysis that includes specific elements that are within the authority of the urban water supplier. The required water shortage analysis is performed in the Casitas 2010 Urban Water Management Plan, and is further supported by this WEAP and the Casitas Emergency Response Plan, as amended.

3.2 Water Shortage Emergencies.

Water Code §350-359 provides that the governing body of a distributor of a public water supply may declare a water shortage emergency condition to prevail within the service area whenever it finds and determines that the ordinary demands cannot be satisfied without depleting water supplies to the extent that there would be insufficient water for human consumption. When deemed as a water shortage emergency in accordance with Water Code 350, Casitas shall follow the procedures provided by the Water Code in the implementation of the water shortage declaration and actions.

The State of California, through its authority under the Water Code and Government Code, may declare a water shortage emergency and require curtailment of water use that is above and beyond the requirements of the Casitas WEAP. Customers of Casitas must respond and comply with the orders of the State in a timely manner. A failure to comply may cause the State to impose fines and penalties that will be redistributed to the customers of Casitas in a manner determined by the Casitas Board of Directors.

3.3 Water Shortage Contingency Plan.

The District has prepared a Water Shortage Contingency Plan (Resolution 92-11), and further defined in the Casitas Urban Water Management Plan, that addresses emergencies under short-term, catastrophic events, and long-term water shortages that may occur as a result of a prolonged drought.

A water shortage emergency may be determined to exist in the event of a short-term interruption of water supply or as a result of long-term diminishment of the Lake Casitas water supply. A short-term interruption of water supply can be the result of earthquakes, regional power outages, landslides, or other major and minor events that impact Casitas water facilities or supply. These events are more often a short term interruption of water supplies until the water system can be restored to the customers. A long-term or district-wide condition may be the result of drought conditions or a reduction in local water supplies that will require long-term water supply-demand management.

The Casitas response to a short-term interruption of water supply may cause the implementation of the Casitas Emergency Action Plan that is structured under the State's Standardized Emergency Management System (SEMS), in coordination with federal, state and county emergency response planning that provides the framework for an organized response to catastrophic events.

3.4 Water Waste Prohibitions on Certain Uses.

Water Code § 71640 provides the District the authority to restrict the use of district water during any emergency caused by drought, or other threatened or existing water shortage, and the district may prohibit the wastage of district water or the use of district water during such periods for any purpose other than household uses or such other restricted uses as the district determines to be necessary. The District may also prohibit use of district water during such periods for specific uses which it finds to be nonessential.

SECTION 4: STRATEGY FOR MANAGED WATER SUPPLY AND DEMAND

4.1 Strategy Principles.

The communities and rural agricultural areas of western Ventura County recognize that there is a reliance on limited local groundwater and surface water supply to serve all of the beneficial uses within the District, and there is a local responsibility required to sustain those supplies during

extended drought periods. The continuous implementation of water conservation education and measures (Best Management Practices) has had a significant influence on the beneficial use and sustainability of local water supplies. Ongoing water conservation efforts can ease the impact on normal activities during drought periods, but may not completely eliminate the need for reductions in water use during periods when Lake Casitas water supplies are severely impacted by extended drought. The main mechanism to respond to water supply conditions is to rely on informed customers working in partnership with Casitas to limit water use to no more than the assigned water allocation and support the water use limitations with appropriate conservation penalties for water use in excess of the assigned, or adjusted, allocation.

To address the water shortage risk that may occur during an extended drought, the Casitas Board established in the Casitas Urban Water Management Plan of 1995 a series of five storage levels of Lake Casitas at which the Board could take actions to restrict the annual water extractions from Lake Casitas. The safe yield trend and the five stages of restrictive actions are illustrated in Figure 3.

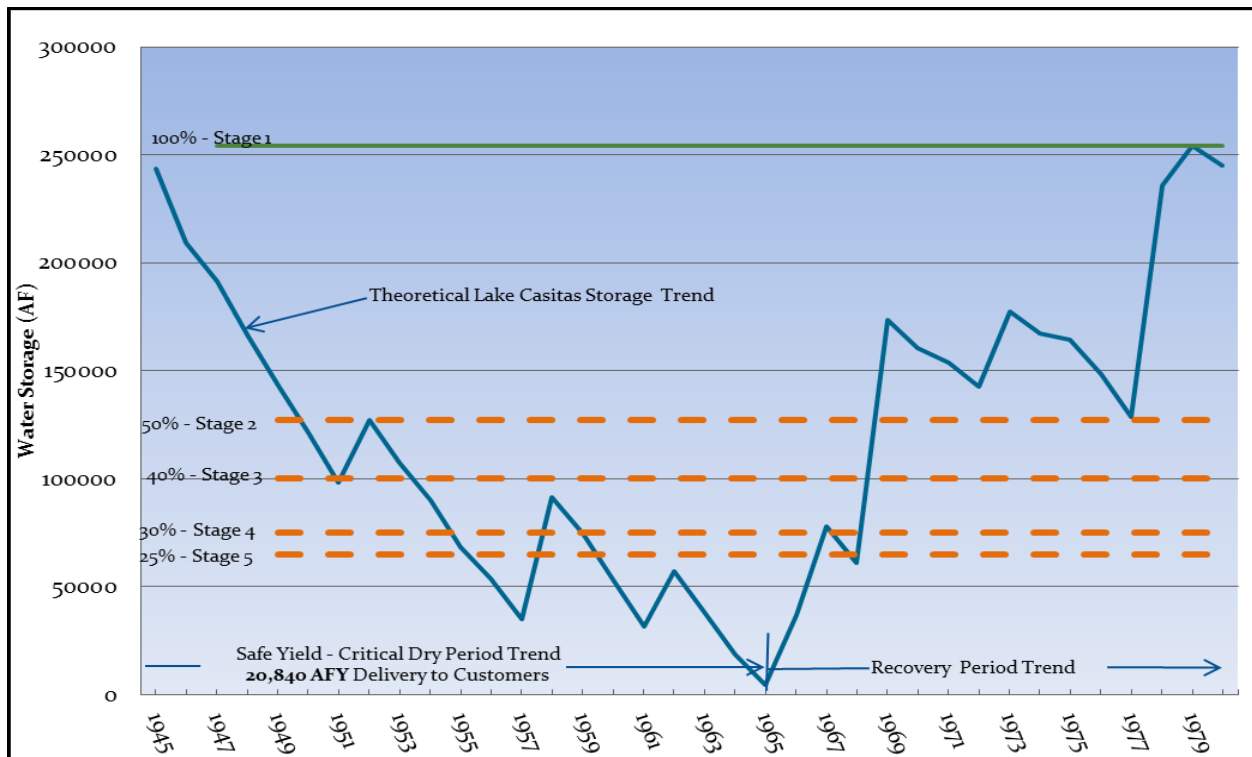


Figure 3 – Lake Casitas Safe Yield Storage Trend and Stages for Demand Reduction

4.2 Water Allocation Principles.

Each and every water service provided by Casitas is metered and a basic water use allocation is established for each customer account that provides a reasonable amount of water for the customer’s needs and property characteristics (WC § 372). The following principles are to be followed for the Casitas water allocations:

- 1) Each Casitas water service shall be assigned either a monthly water allocation in the terms of Units or an annual water allocation in terms of Units and Acre-feet.
- 2) Allocation shall not mean an entitlement or imply water rights in favor of the customer.

- 3) The assignment of allocations shall be based on reasonable and necessary water use, the application of water conservation practices and standards, and other relevant factors associated with water use during Stage 1 conditions at Lake Casitas.
- 4) The Casitas Board of Directors reserve the right to make individual allocation assignments and to change water allocations at any time within each classification based on the changes to the availability of water stored in Lake Casitas, changes in water use that appears to compromise the reliability of the Lake Casitas water supply, and changes in water conservation practices and standards.
- 5) Water allocations provided by Casitas are assigned to property or water purveyors and are not transferrable from one property or water purveyor to another.
- 6) Casitas' water allocations shall not be sold, exported, bartered or traded by or between Casitas' customers.
- 7) Casitas water allocated shall not be transported from the property or by any agency served to any other property or agency without prior written agreement with Casitas.

4.3 Allocation Assignments to Water Service Classifications.

Casitas has established the definitions of water customer classifications as provided by the Casitas Rates and Regulations for Water Service and has made specific allocation assignments to each and every water account by either (1) written agreement, or (2) the application of historical water use data, or (3) the application of documented water use standards. Where deemed necessary by Casitas, Casitas may perform site specific water use audits and survey to determine the appropriate level of allocation to be assigned to any one service connection or customer. Water allocations may change by action of the Casitas Board of Directors based on the Lake Casitas storage level or trend, water use trends, and the performance by customer classification in meeting water consumption reduction goals.

The following subsections describe the method used to assign the water allocation for each classification of water service at **Stage 1** condition:

Business

- 1) Water allocation shall be specified as an **annual** allocation based on a fiscal year (July 1st to June 30th).
- 2) Allocation assigned by recorded agreement; or
- 3) Where not defined by recorded agreement, the lesser of the historical water consumption recorded for either the 80% of the 1989-90 water use or the Fiscal Year 2012-13 water use.

Fire

There is no water allocation for the Fire classification. This water use is for emergency only, and not a part of a continuing annual water use.

Industrial

- 1) Water allocation shall be specified as an **annual** allocation based on a fiscal year (July 1st to June 30th).
- 2) Allocation assigned by recorded agreement; or
- 3) Where not defined by recorded agreement, the lesser of historical water consumption recorded for either the 80% of the 1989-90 water use or the Fiscal Year 2012-13 water use.

Interdepartmental

- 1) Water allocation shall be specified as an annual allocation based on a fiscal year (July 1st to June 30th).
- 2) The **annual** allocations for individual Interdepartmental classification services shall be based on the Fiscal Year 2012-13 water use.

Irrigation (Commercial Agriculture)

- 1) Water allocation shall be specified as an **annual** allocation based on a fiscal year (July 1st to June 30th).
- 2) Qualifying acreage for each Irrigation account shall be limited to acreage that can be identified as under irrigation prior to March 1, 1992. There will be no allocation for irrigation acreage that has been expanded after March 1, 1992, except as otherwise approved in written and recorded agreement between Casitas and the property owner. Casitas' records and mapping will be the standard for the identification of lands in irrigation prior to March 1, 1992.
- 3) Allocation assignments to lands served by multiple meter services shall consider the proportion of the allocation that each meter is intended to serve. The aggregation of meter readings and allocations from multiple meters shall not be allowed except under the terms and conditions of an approved addendum to the Application for Water Service to provide an aggregation variance. The customer may apply for the aggregation of allocations and water volume for accounts serving contiguous parcels under a single ownership, subject to the conditions of the Casitas addendum to the Application for Water Service. The aggregation variance must be approved and on file for the current year during which the variance is applicable. The issuance of the aggregation variance is subject to the discretion of the General Manager.
- 4) The Stage 1 water allocation assigned to each Irrigation water account is the greater volume of either (1) the water use recorded at each meter service during fiscal year 2012-13 or (2) eighty (80) percent of recorded water volume metered to the account in fiscal year 1989-90, neither of which shall exceed a water volume of 3 acre-feet per acre applied to the qualifying acreage.
- 5) The residential water use for Agricultural/Domestic classification that is directly associated with the Irrigation shall be considered as Irrigation for purpose of allocation assignments and meeting the demand reduction requirements for Irrigation.

Multi-Family Residential

- 1) Stage 1 water allocations are assigned to each existing Multi-Family Residential account by either a recorded agreement or based on the standards set in 1992 by Casitas.
- 2) The Multi-Family Residential water allocation for each account shall be distributed by either a monthly or bi-monthly scheduling of the allocation.
- 3) A part of the Multi-Family Residential allocation is provided for health and sanitation and shall be set at **84 units per year per dwelling**, distributed evenly each month as 7 units per month for each dwelling.
- 4) The essential water use portion of the allocation is not subject to adjustment by the Staged Demand Reduction Program, unless otherwise deemed by the Board to be a necessity during extreme water supply conditions or during emergencies.
- 5) The part of the Multi-Family Residential allocation that is in excess of the essential allocation shall be specified as a monthly allocation and distributed proportionally to reflect varying seasonal water use, as follows:

Month	July	August	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
% of Total Annual Allocation	.12	.11	.11	.11	.08	.08	.04	.06	.05	.05	.09	.10

The part of the Multi-Family Residential allocation that is in excess of the essential allocation is subject to adjustment by the Staged Demand Reduction Program.

- 6) Where not previously assigned a residential allocation, a residential allocation shall be based on the following:
 - a. The essential health and sanitation portion of the residential allocation shall be set at **84 units per year per year per dwelling**, and be constant for each month of the year;
 - b. Non-essential portion of the annual residential allocation shall be based on a maximum limit of 1.99 acres (86,684 square feet) of irrigated landscape area and set as follows:
 - i. For the first 5,000 square feet of landscape area, 15 gallons per square foot;
 - ii. For the next 10,000 square feet of landscape area, 10 gallons per square foot
 - iii. For the next increment up to 71,684 square feet of landscape area, 3 gallons per square foot;

Other

- 1) Water allocation shall be specified as an **annual** allocation based on a fiscal year (July 1st to June 30th).
- 2) Allocation assigned by recorded agreement; or
- 3) Where not defined by recorded agreement, the lesser of historical water consumption of either the 80% of the 1989-90 water use or the Fiscal Year 2012-13 water use.

Resale

- 1) Water allocation shall be specified as an **annual** allocation based on a fiscal year (July 1st to June 30th).
- 2) The Stage 1 allocation for each individual Resale customer shall be mutually agreed to by each water agency and Casitas, be incorporated into a memorandum of understanding (MOU), and assigned to provide water to supplement the Resale agency’s primary source of water supply. An annual adjustment to the allocation assignment may be a condition of the MOU.
- 3) An objective of a MOU is to achieve parity between the Resale agency customers and Casitas customers in applying similar overall water use restrictions and financial penalties in each Stage.
- 4) The Resale agency shall determine the reliability of its water sources and ensure that the annual water requirements from Casitas do not exceed their annual water allocation from Casitas.
- 5) The allocation assignment from Casitas shall not be used by the Resale agency for growth within the Resale service area, unless additional allocation for growth is authorized by written agreement with Casitas.
- 6) The Resale agency shall implement water conservation measures in accordance with the State’s or California Urban Water Conservation Council’s Best Management Practices, responsibly maintain water system metering and pipeline systems to reduce water losses, and when necessary or when asked to do so, implement water demand reduction measures similar to or more restrictive than those imposed by Casitas to assure the continued availability of water for health and safety purposes.

Residential

- 1) Stage 1 water allocations are assigned to each existing Residential account by either a recorded agreement or based on the standards set in 1992 by Casitas.

- 2) The Residential water allocation for each account shall be distributed by either a monthly or bi-monthly scheduling of the allocation.
- 3) A part of the Residential Allocation is provided for health and sanitation and shall be set at **120 units per year**, distributed evenly each month as 10 units per month for each dwelling.
- 4) The essential water use portion of the allocation is not subject to adjustment by the Staged Demand Reduction Program, unless otherwise deemed by the Board to be a necessity during extreme water supply conditions or during emergencies.
- 5) The part of the Residential Allocation that is in excess of the essential allocation shall be specified as a monthly allocation and distributed proportionally to reflect varying seasonal water use, as follows:

Month	July	August	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
% of Total Annual Allocation	.12	.11	.11	.11	.08	.08	.04	.06	.05	.05	.09	.10

The part of the Residential Allocation that is in excess of the essential allocation is subject to adjustment by the Staged Demand Reduction Program.

- 6) Where not previously assigned a residential allocation, a residential allocation shall be based on the following:
 - a. The essential health and sanitation portion of the residential allocation shall be set at **120 units per year**, and be constant for each month of the year;
 - b. Non-essential portion of the annual residential allocation shall be based on actual irrigated landscape area of the parcel with a maximum limit to 1.99 acres (86,684 square feet) of irrigated landscape area and set as follows:
 - i. For the first 5,000 square feet of irrigated landscape area, 15 gallons per square foot;
 - ii. For the next 10,000 square feet of irrigated landscape area, 10 gallons per square foot
 - iii. For the next increment up to 71,684 square feet of irrigated landscape area, 3 gallons per square foot;

Temporary

- 1) There is no water allocation assigned for the Temporary classification. Temporary water service is not property related on a permanent basis.
- 2) Temporary water use is limited for a short-term of six months or less, for such purposes as construction projects, or short-term water supply emergencies, or temporary backup water to non-metered agricultural parcels.
- 3) Temporary meters that are issued to serve supplemental commercial irrigation shall be temporarily allocated water based on the allocation assignment provided at the time of the application for the Temporary service based on the same water use standards as provided for the Irrigation classification, and reduced by Stage conditions,. The allocation does not extend beyond the period of the temporary water service application of six (6) months, unless the Casitas Board of Directors approves a limited continuance of the temporary service.

4.4 Allocation Adjustments.

A Casitas customer may request the reconsideration of their initial assigned Stage 1 water allocation within 60 days of the adoption of the WEAP where the request does not include a consideration for either an expansion in the area of use or new construction. The customer shall submit a water allocation adjustment application in order to have their request considered by the General Manager of

the District. The information contained on the application may be subject to an audit and, if necessary, additional documentation may be required in order to substantiate the requested adjustment.

Adjustments to water allocations that have been assigned through a recorded Water Service Agreement between the property owner, or prior property owner, and Casitas must proceed through an amendatory agreement, will be subject to the capital facility charges for the amount of water provided as the allocation adjustment, and subject to the availability of water allocations.

Adjustments to water allocations will not be granted in amounts that exceed 80 percent of the FY 1989-90 metered usage of water by the meter service account without prior Board approval.

4.5 Standards for a Water Allocation Adjustment.

Water allocation adjustments may be considered by Casitas during initiation of the WEAP that appropriately assigns a Stage 1 allocation, to ensure that the needs of the water customer are reasonably balanced against the purpose of this Plan.

Water allocations may be considered for adjustment for:

- a. Correction of irrigable area square footage;
- b. Correction of number of dwelling units (Multi-family accounts only);
- c. Exemption granted for a licensed in-home childcare or elderly care facility;

Water allocations will not be adjusted to accommodate:

- a. Pools, ponds, spas, or hot tubs;
- b. In-home businesses or hobbies that use an increased amount of water;
- c. Gardens and orchards;
- d. Homeowner's Association requirements for turf areas in excess of that water allocation specified by Casitas for a Residential classification;
- e. Where an allocation has been assigned through a recorded agreement.

Agricultural Irrigation Allocation Adjustment Standards:

- a. Limited to acreage planted in commercial agricultural production prior to March 1, 1992. Casitas shall also consider the assignment of an appropriate allocation to lands that are verified as being in a crop rotation status, or temporarily in a fallowed state, having been in a planted status prior to March 1, 1992.
- b. Comparative (same crop type and average use of various parcels) crop usage in FY2012-13 for full irrigation, not to exceed 3 AF/AC/YR, which is located within a 1-mile circumference of the parcel seeking the appeal for a change in water allocation.

4.6 Appeals Process.

Customers that are denied an adjustment of water allocation may request a review of the request by submitting a written appeal to the Casitas Water Resources Manager stating the nature of the appeal. The appeal shall be reviewed by the Casitas Water Resources Manager and a recommendation shall be reported to the General Manager. The decision of the General Manager shall be reported to the customer in written form. If the customer is not satisfied with the General Manager's decision, the customer must request within 10 days that the appeal be placed on the agenda of the Casitas Board of Directors. The determination by the Board of Directors shall be final.

4.7 Availability of Allocations.

The determination of supplies being available for issuance of new allocations of water shall be made upon staff recommendation at a regular Board of Directors meeting. The determination that water is or is not available shall be within the determination of the Board of Directors. The determination that a supply is available shall be based upon more detailed information about existing supplies, the availability of new supplies, new water supply projects, or contracts or proposed contracts for additional supplies where, in the opinion of the Board of Directors, the supply of water is definite enough to provide the assurance to the County of Ventura that there is a forty year supply.

4.8 Allocation for New or Expanded Water Uses.

A customer may request a change to a water allocation assignment for the purposes of obtaining new or expanded use of water that is associated with a new building permit, new or existing conditional use permit, or agricultural irrigation acreage expansion. The approval of an addition or change to the water allocation for new and/or expanded water allocation is subject to Casitas' discretion on the limits of available water allocation and subject to the charges for new and/or expanded water allocation.

When the Board of Directors determine that additional new water supplies are available, either from the safe yield of the existing CMWD project supply or additional new supplies, supplies shall be allocated in accordance with the following criteria:

- a) No single property owner or applicant for the given type of service (municipal, industrial or agricultural) shall receive a new water allocation greater than 10 percent of the total new available supply or the minimum standard residential allocation, whichever is greater. If the applicant's allocation requirements are not fully met, the applicant may maintain a position of priority until more water is available.
- b) All applicants seeking an allocation shall provide Casitas with a detailed description of the project, the use of water for which the water is sought, and information on peak flow and annual water requirements. Casitas shall determine meter size and amount of allocation based upon reasonable and necessary needs and Casitas' Rates and Regulations.
- c) The amount of water to be allocated shall be at Casitas' sole discretion. The assignment of an allocation shall be limited to the availability of water from the Lake Casitas safe yield, and be based on current water demand factors as adopted by the District and as amended. The amount of water required for the project may be calculated and submitted for the consideration of Casitas by a civil engineer, registered in the State of California, representing the project proponent.

SECTION 5: STAGED DEMAND REDUCTION IMPLEMENTATION

5.1 Staged Demand Reduction Principles.

The primary source of water that is available to the Casitas Municipal Water District is the amount of water stored behind Casitas Dam, forming Lake Casitas. The quantity of water stored in Lake Casitas is dependent upon the local hydrology, watershed conditions, diversions from the Ventura River, and the outflow from lake evaporation and water deliveries to beneficial uses. There may be times during which Casitas must consider implementing staged water demand reductions to ensure a sustainable water supply and prevent a complete depletion of water supply in Lake Casitas.

The District has assigned five stages of water storage in Lake Casitas that serve as a guidance to triggering the implementation of water use reduction goals and measures. The overarching goals of the Staged Demand Reduction Program are:

- 1) conserving the water supply for the greatest priority and public benefit; and
- 2) mitigating the effects of a water shortage on public health, safety, and economic activity.

5.2 Water Resource Conditions and Actions.

The General Manager shall report to the Board of Directors each year (*April*) with an assessment of the current water storage in Lake Casitas and local groundwater basins, current water use trends, predicted weather conditions, and an evaluation of current water use reduction goals. The time of the reporting can be each April, as the rainfall season is ending and water resources can be evaluated at the maximum for the year, or as Lake Casitas storage reaches a change in Stage action level. The Board of Directors may, at their sole discretion, declare that a Stage condition of water supply in Lake Casitas exists and implement the appropriate demand reduction goals and measures in response to current and/or predicted water availability conditions. Casitas shall make such determinations public and follow with appropriate and timely notification of all customers. Casitas has established the implementation of various Stages of action based on the amount of water in storage in Lake Casitas, as shown in Table 3. An action to declare and implement a Stage may be by either an action by Casitas Board of Directors based on unanticipated changing lake supply conditions or by the following schedule in Table 4.

Table 3 – Stage Conditions

Stage	Stage Title	Lake Casitas Storage - %	Lake Casitas Storage Action Level (acre-feet)
1	Water Conservation	100% - 50%	237,761 to 118,880
2	Water Shortage Warning	50% - 40%	118,880 to 95,104
3	Water Shortage Eminent	40% - 30%	95,104 to 71,328
4	Severe Water Shortage	30% - 25%	71,328 to 59,440
5	Critical Water Shortage	25% - 0%	59,440 to 3,000

Table 4 - Stage Action Schedule

<u>Target Dates</u>	<u>Action</u>
June - April	Monitor water demands, rainfall, reservoir level trend, groundwater trends, and diversion and runoff amounts.
Early April	Staff presents water status report and a recommendation to the Casitas Board of Directors. Publish a notice of a public hearing if changes are recommended.
Late April	Casitas Board of Directors formally declares a Stage, and/or water shortage emergency, adopts recommendations for demand reduction actions.
May	Customer Notification of change in Stage, allocation, and conservation surcharge.
June	Stage demand reduction actions are effective and are implemented.

5.3 Demand Reduction Goals and Measures.

The demand reduction goals and measures begin with Stage 1, where reasonable and appropriate water allocation assignments are made to each Casitas service connection and the end water users are

Demand Reduction Stage	1	2	3	4	5
Volume Range of Lake Casitas	254,000 to 127,000	127,000 to 100,000	100,000 to 75,000	75,000 to 65,000	65,000 to 3,000
% Lake Storage	100% - 50%	50% - 40%	40% - 30%	30% - 25%	25% - 0%
Water Use Reduction Response Goal	20%	20%	30%	40%	50%
Residential & Multi-Family Residential Essential Use	0%	0%	0%	0%	0%
Non-essential Use	20%	20%	30%	40%	50%
Business	20%	20%	30%	40%	50%
Industrial	20%	20%	30%	40%	50%
Other	20%	20%	30%	40%	50%
Resale	20%	20%	30%	40%	50%
Irrigation	20%	20%	30%	40%	50%
Interdepartmental	20%	20%	30%	40%	50%

implementing the Best Management Practices that conform to State requirements for water conservation and water use efficiency measures. Upon determination of a Stage 2 condition and continuing through Stage 5 conditions, the primary actions to achieve the demand reduction goal is the adjustment of allocations that were made available for each classification during Stage 1 by a reduction of the allocation during the duration of the declared Stage condition.

5.4 Stage Adjustments to Allocations.

The five stages of storage in Lake Casitas and the initial guideline for water allocation adjustments for each classification at each Stage are presented in Table 5. Upon recommendation of the General Manager and approval of the Board of Directors at the onset of a specific Stage, the District shall apply appropriate demand reduction factors to the allocations for each customer classification, as deemed necessary. The Board of Directors retain the sole discretion to make allocation changes as a result of declaring a change in Stage, or during any Stage, that are more or less severe than that provided in Table 5. Examples of applying this discretion may include, but not be limited to, the change in any water resource conditions or the demand reduction goals are not being attained by the customer classification.

Table 5 – Staged Water Demand Reductions for Water Classifications

Note: Initial Stage 1 Allocations include a 20% reduction from the 1989-90 demands.

Essential Use Allocations will remain the same and not adjusted, except as otherwise determined by the Board to be a necessity to preserve water supply during extreme conditions. The measures to

achieve the demand reduction goal may be selected from a menu of options as provided in Table 6, or should water supply conditions become worse than anticipated the Casitas Board may adopt more stringent requirements as deemed necessary.

5.5 Customer Notification.

The customers of each and every classification shall be notified in a timely and appropriate manner of any and all actions to declare and implement Demand Reduction Stage. The methods of communication to the customer shall be through direct mailings, public meetings, and billing information that provides the customer the comparison of water use with allocation.

5.6 Water Rates and Conservation Penalty.

- a. The Casitas Board of Directors shall annually consider the setting or adjustment of water rates that reflect the cost of water service, consistent with State law.
 1. Casitas has implemented a tiered inclining rate structure for the Residential and Multi-family Residential classifications that represents the proportional cost of service that is attributable to the parcel that is served water.
- b. The Casitas Board of Directors shall annually set the Conservation Penalty for each classification that will be applied to each individual customer billing for each unit of water that is in excess of the customer's allocation, or the adjusted allocation pursuant to a change in Stage. The Conservation Penalty is imposed to curtail the potential for adverse effects of excessive water consumption.
- c. Upon determination of a change in the Demand Reduction Stage, or at such time the Board deems that the customer response does not appear to attain the desired demand reduction goals, the Board may consider the modification of the Conservation Penalty.
- d. Revenues recovered from the Conservation Penalty will supplement Casitas' water conservation costs, provide revenue for water shortage related projects, and cover costs associated with implementing changes to the WEAP as directed by the Board.

5.7 Appeals for Exception to Staged Adjustments of Allocation or Conservation Penalty Assessment.

- a. A Casitas customer may file an appeal for:
 1. An Exception to Staged Adjustment of Allocation, as provided in Section 5.4 above; or
 2. The assessment of a Conservation Penalty, as provided in Section 5.6 aboveby submitting a written appeal, on a form provided by Casitas, directly to the General Manager or his/her designee.
- b. The following paragraphs provide the criteria or reasons for an appeal for an Exception to Staged Adjustments of Allocation and an appeal for an Exception to Staged Adjustments of Allocation may be granted for one or more of the following reasons:

1. The staged adjustment would cause a condition affecting the health, sanitation, fire protection, or safety of the customer or the public;
 2. Strict application of the water allocation adjustment provisions imposes a severe or undue hardship on a particular business, or renders it infeasible for a business or class of business to remain in operation;
 3. The customer is a hospital or health care facility using industry best management practices;
 4. The business has already implemented environmental sustainability measures and water conservation measures reducing water consumption to the maximum extent possible.
- c. The customer must support their reason for an appeal for an Exception to Staged Adjustments of Allocation with supporting documentation or substantial evidence demonstrating the need for an exception. A failure to provide supporting documentation or evidence shall result in a denial of the appeal.
- d. The appeal for an Exception to Staged Adjustments of Allocation will be first reviewed, approved or denied, by the General Manager or his/her designee. The decision of the General Manager or his/her designee shall be reported to the customer/appellant in written form. If the customer is not satisfied with the General Manager or his/her designee's decision, the customer/appellant must request, within 10 days of the date of the General Manager or his/her designee's decision, that the appeal be placed on the agenda of the Casitas Board of Directors for their review and determination based on the criteria set forth in Section 5.7(b)(1)-(4). The determination by the Casitas Board of Directors shall be final.
- e. The following paragraphs provide the criteria and process for an appeal from a Conservation Penalty:
1. An appeal for relief of a Conservation Penalty may only be considered when a natural disaster such as a wildfire, earthquake, flood or landslide or other naturally occurring phenomenon which directly causes a leakage or leakage event.
 2. The customer must file their appeal to the Casitas Municipal Water District Board of Directors' Appeals Panel.¹ A request for review and an evidentiary hearing must be made in writing and submitted to the District within thirty (30) days of date the Casitas bill with the Conservation Penalty was issued by the District. Upon receipt by the District, a review and evidentiary hearing will be placed on the next agenda of the Appeals Panel.
 3. The appeal of a Conservation Penalty must explain why the leakage or leakage event was caused by a naturally occurring event such as wildfire, earthquake, flood or landslide.
 4. The customer/appellant must support their reason for an appeal from a Conservation Penalty with supporting documentation or substantial evidence demonstrating the circumstances for the appeal. A failure to provide supporting documentation or evidence shall result in a denial of the appeal.

¹ The Appeals Panel is a Board-appointed committee composed of three (3) Board members who are authorized to conduct evidentiary hearings, make findings and render decisions in accordance with this section of the Water Efficiency and Allocation Program. This is in accordance with California Water Code Sections 71300, 71301 and 71305.

5. The General Manager or his/her designee will review the appeal and the documentation or evidence provided by the customer supporting the appeal. The General Manager or his/her designee may request additional information from the customer. Following a review of the appeal, the General Manager shall make a recommendation to the Appeals Panel. A copy of the General Manager's recommendation will be provided to the customer/appellant.
6. If a review and evidentiary appeal hearing is properly requested before the Appeals Panel, the customer/appellant shall have an opportunity to state their case and present evidence supporting their appeal. Following the customer's presentation of the grounds for appeal, the Appeals Panel shall review the General Manager's recommendation on the conservation penalty appeal and determine whether to grant the appeal in full, apportion the penalty, or deny the appeal based on the following:
 - A. The documentation and/or evidence provided by the customer in their initial written appeal;
 - B. The basis of the General Manager's recommendation as provided in the General Manager's written explanation of the grounds for the recommendation; and
 - C. Any additional circumstances the Appeals Panel determines to be relevant during the evidentiary hearing.
7. In order to approve an appeal of a Conservation Penalty, the Appeals Panel must make the following findings:
 - A. The customer provided documentation or substantial evidence that the Conservation Penalty could not be avoided by circumstances within the customer's reasonable control;
 - B. The General Manager's written recommendation is valid or invalid in light of the customer's documentation or evidence provided; and
 - C. The reason for the appeal is not to accommodate for leakage or a leakage event within the control of the customer.
8. If the appeal for a Conservation Penalty is approved by the Appeals Panel, the Appeal Panel shall determine if the Conservation Penalty is denied in whole or in part.
9. Following the review and the evidentiary hearing, the Appeals Panel shall provide a written determination with findings to the customer within thirty (30) days of the hearing either approving, denying or apportioning the appeal. The Appeals Panel's determination is final and binding on the customer.

SECTION 6: EXPORT OF CASITAS WATER

Water Code Section 71611 authorizes Casitas to sell water under its control for use only within the jurisdictional boundaries of the Casitas Municipal Water District. The unauthorized export and use of Casitas water beyond the Casitas district boundaries can have significant negative impacts on the Casitas water supply reliability, and therefore shall be prohibited unless specifically authorized in writing by the Casitas Board of Directors. All customers receiving Casitas water into water

conveyance systems which cross Casitas boundaries shall meet the following requirements as a condition of service:

- 1) Customers shall submit to Casitas a certified report on the last day of each month that demonstrates that no Casitas water was transported or used outside Casitas boundaries during the prior month without written approval by Casitas.
- 2) Customer shall install and maintain approved metering devices and shall be required to account for all Casitas water delivered in the customer's system.
- 3) In the event Casitas water is exported during any month, the customer shall be billed for exported water at five (5) times the Casitas rate for the Temporary Service classification.
- 4) In the event the customer fails to comply with the conditions of service stated in the above (1) and/or (2), all water purchased in excess of the allocation shall be considered exported water and shall be billed in accordance with the foregoing.
- 5) This Section, Export of Casitas Water, is in effect at all times.
- 6) The exceptions to the export are during a declaration by the Board of Directors of surplus water, and limited to the surplus water or exchange agreement between the Board of Directors and other party.

Continuing or reoccurring violations of this section by any Casitas customer may result in the restriction or disconnection of water service to the customer.

Table 6 – Stage Actions and Water Demand Reduction Measures

Water Shortage Condition	Key Casitas Communications and Actions	Customer Demand Reduction Measures	Penalties And Rates
<p>Stage 1</p> <p>Supply Range 100% - 50%</p> <p>Voluntary Demand Reduction To Stage 1 Allocation</p>	<ul style="list-style-type: none"> • Initiate public information and advertising campaign. • Publicize ways to reduce water consumption. • Coordinate conservation actions with other water purveyors and cities. • Perform water audits and promote water efficient use/conversions. • Conduct water workshops. • Temporary staffing for public inquiries, as needed. 	<ul style="list-style-type: none"> • Water conservation practices requested of all customer classifications. • Adhere to Water Waste Prohibition Ordinance and State of California laws and regulations regarding water waste • Adhere to assigned water allocation or less. 	<ul style="list-style-type: none"> • Consider and implement Conservation Penalty for water use in excess of allocation. • Consider rates for revenue stabilization and cost of service.
<p>Stage 2</p> <p>Supply Range 50% - 40%</p> <p>Mandatory Demand Reduction to Stage 1 Allocation</p>	<ul style="list-style-type: none"> • Declare Stage 2 • Implement demand reductions for each customer classification. • Intensify public information campaign. • Optimize existing water resources. • Intensify leak detection. • Develop appeals staffing. • Consult with major customers to develop conservation plans and water use audits. 	<ul style="list-style-type: none"> • Continue all Stage 1 measures. • Landscape watering advised to two (2) watering days per week. • Require water audits for large water users; implement recommendations of the water audits. • Businesses display “save water” signage. • Increase public information. 	<ul style="list-style-type: none"> • Consider and implement Conservation Penalty for water use in excess of allocation – response to reduced allocation. • Consider rates for revenue stabilization and cost of service.
<p>Stage 3</p> <p>Supply Range 40% - 30%</p> <p>Demand Reduction From Stage 1 Allocation 10%</p>	<ul style="list-style-type: none"> • Declare Stage 3 • Implement demand reductions for each customer classification. • Expand and intensify public information campaign. • Provide regular briefings, publish monthly consumption report. • Hire additional temporary staff in customer service and conservation. Water waste enforcement. 	<ul style="list-style-type: none"> • Continue with Stage 1 and 2 measures. • Reduced water allocations. • Landscape watering advised to one (1) watering day per week. 	<ul style="list-style-type: none"> • Consider and implement Conservation Penalty for water use in excess of allocation – response to reduced allocation. • Consider rates for revenue stabilization and cost of service.
<p>Stage 4</p> <p>Supply Range 30% - 25%</p> <p>Demand Reduction From Stage 1 Allocation 20%</p>	<ul style="list-style-type: none"> • Declare Stage 4 • Implement demand reductions for each customer classification. • Continue to provide regular media briefings. • Open drought information center. 	<ul style="list-style-type: none"> • Continue with Stage 1 through 3 measures. • Reduced water allocations. • Landscape watering advised to one (1) watering day per week. • Consider prohibition of filling swimming pools and fountains. 	<ul style="list-style-type: none"> • Consider and implement Conservation Penalty for water use in excess of allocation – response to reduced allocation. • Consider rates for revenue stabilization and cost of service.
<p>Stage 5</p> <p>Supply Range 25% - 0%</p> <p>Demand Reduction From Stage 1 Allocation 30%</p>	<ul style="list-style-type: none"> • Declare Stage 5 • Implement demand reductions for each customer classification. • Minimize outdoor water use and non-essential uses. • Implement aggressive public outreach and education program. • Implement crisis communications plan. • Coordinate with State and local agencies to address enforcement challenges. • Water Shortage Emergency declaration to be considered. • Consider further Staged reductions and other future Board actions 	<ul style="list-style-type: none"> • Continue with Stage 1 through 4 measures. • Reduced water allocations. • Rescind Temporary meters issued. 	<ul style="list-style-type: none"> • Consider and implement Conservation Penalty for water use in excess of allocation – response to reduced allocation. • Consider rates for revenue stabilization and cost of service.

CASITAS MUNICIPAL WATER DISTRICT

ORDINANCE NO. 15-02

AN ORDINANCE OF THE CASITAS MUNICIPAL WATER DISTRICT
ESTABLISHING WATER WASTE PROHIBITIONS

THIS ORDINANCE is adopted in light of the following facts and circumstances, which are hereby found and declared by the Casitas Municipal Water District (Casitas) Board of Directors:

WHEREAS, Article X, Section 2 of the California Constitution and Section 100 of the California Water Code declare that the general welfare requires water resources be put to beneficial use, therefore, waste or unreasonable use or unreasonable method of use of water be prevented, and conservation of water be fully exercised with a view to the reasonable and beneficial use thereof.

WHEREAS, the adoption and enforcement of this Ordinance is necessary to help manage Casitas' potable water supply and to avoid or minimize the effects of drought within the Casitas service area.

WHEREAS, Casitas has the power to perform all acts necessary to fully carry out the provisions of this Ordinance consistent with Section 71640 and Sections 10608 through 10656 of the California Water Code.

WHEREAS, this Ordinance rescinds and replaces Casitas Municipal Water District Resolution No. 08-09, Resolution Approving a Water Waste Prohibition Regulation.

BE IT ORDAINED by the Board of Directors of the Casitas Municipal Water District as follows:

1. TITLE.

This Ordinance shall be known as the Water Waste Prohibition Ordinance.

2. APPLICABILITY.

The provisions of this Ordinance shall apply to all persons, corporations, public or private entities, governmental agencies or institutions, or any other direct water customers of the Casitas Municipal Water District. The water customers of other water purveyors shall be governed by the prohibitions that are adopted by the other water purveyors.

3. PROHIBITED USES.

A. The following uses of water are permanently prohibited and are in effect year round:

- a. **General Waste:** Indiscriminate running of water or washing with water which is wasteful and without reason or purpose.
- b. **Washing of Exterior Surfaces:** The washing of hard or paved surfaces, including but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys, except when necessary to alleviate safety or sanitary hazards or when

broom or other waterless device will not suffice. If necessary, washing may only be done with a bucket or similar container, a hose equipped with a positive shut-off nozzle, a pressure washer, a low-volume high pressure water efficient water broom, or a cleaning machine equipped to recycle the water used.

- c. **Cleaning of Structures and Vehicles:** The washing of building exteriors, mobile homes, cars, boats or recreational vehicles without the use of a positive shut-off nozzle on either the hose or pressure washer.
- d. **Watering/Irrigation Runoff Control:** The watering of grass, lawn, groundcover, shrubbery, open ground, crops and trees, including agricultural irrigation, in a manner or to an extent which allows water to run off the area being watered. Every water user is deemed to have under their control, at all times, their water distribution lines and facilities, and to know the manner and extent of their water use and run off.
- e. **Limits on Watering Hours:** The watering or irrigating of outdoor ornamental landscapes and turf areas between the hours of 10:00 a.m. and 6:00 p.m. Pacific Standard Time on any day. (Does not apply to irrigation systems that use drip-irrigation and weather-based controllers or stream rotor sprinklers that meet a 70% efficiency standard. Exceptions may be authorized by the General Manager where there is no ability to not water between 10:00 a.m. to 6:00 p.m.).
- f. **Watering During Rainfall:** The watering of grass, lawn, groundcover, shrubbery, open ground, crops and trees, including agricultural irrigation, at any time while it is raining.
- g. **Drought Restrictions:** Watering/irrigating during publicly declared curtailment period in a manner that is not compliant with drought restrictions.
- h. **Plumbing Leaks:** The escape of water through leaks, breaks, or malfunctions within the water user's plumbing or distribution system, for a substantial period of time within which such break or leak should reasonably have been discovered and corrected.
- i. **Fountains and Decorative Water Features:** The operation of any ornamental fountain using water from the District's domestic water system unless water for such use is re-circulated.
- j. **Cooling:** The use of water in mechanical equipment purchased and installed after the adoption of this Ordinance that utilizes a single pass cooling system. Water used for all cooling purposes shall be re-circulated.
- k. **Drinking Water Served Upon Request Only:** Eating and drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, clubs or other public places where food or drinks are sold or served, are prohibited from providing drinking water to customers unless expressly requested. Affected establishments must prominently display notice informing their customers of this requirement using clear and easily understood language.
- l. **Restaurant Non-water Conserving Dish Wash Spray Valves:** Food preparation establishments, such as restaurants or cafes, are prohibited from using non-water conserving dish wash spray valves.
- m. **Providing Option to Not Launder Linen and Towels Daily:** Hotels, motels, vacation rentals and other commercial lodging establishments must provide customers the option of not having towels and linen laundered daily. Commercial lodging establishments must prominently display notice of this option in each bathroom using clear and easily understood language.

- n. **Commercial Car Wash Systems:** Installation of non-recirculating water systems is prohibited in new or renovations of commercial conveyor car washes systems.
- o. **Turf Irrigation Restrictions:** Irrigating turf or ornamental landscapes during and 48 hours following measurable precipitation.

4. EXEMPTED WATER USES.

- A. All water use associated with the operation and maintenance of fire suppression equipment or employed by the District for water quality flushing and sanitation purposes shall be exempt from the provisions of this Ordinance.
- B. Use of water supplied by gray water or rainwater collection system is also exempt; however, use of water from these systems is not exempt from the applicable regulations of the State and local jurisdictions governing the use of such water.
- C. Supervised testing, adjusting, or repairing of irrigation systems is allowed any time for no more than five (5) minutes per station.

5. VIOLATIONS AND PENALTIES.

- A. Any person, who uses, causes to be used, or permits the use of water in violation of this Ordinance is guilty of an offense punishable as provided herein.
- B. **Enforcement of Violation.** Complaints of water waste will be investigated and enforced by the District in the form of a notice of violation. The following officers and employees of the Casitas Municipal Water district are hereby designated and authorized to issue citations for enforcement of this Ordinance:
 - Operations and Maintenance Manager
 - Public Affairs/Resource Manager
 - Water Conservation Coordinator
 - Utility Workers
 - Water employees designated by the General Manager
- C. **Notice of Violation.** The notice to the District water customer of a violation of this Ordinance will be issued by either a telephone call, mail, hand-delivery, or posting at the entrance of the violator's premises. The District will issue a written notice that state the time, place, and general description of the violation or repeat of violation, as well as a time frame in which the violation must be corrected. District staff may use discretion when determining the correction time.
- D. **Consequence of Violation.** Administrative fines and water service actions may be levied and applied for each violation of a provision of this Ordinance as follows:
 - 1. **Penalties:** Penalties for failure to comply with any provision of the ordinance are as follows:
 - a. **First Violation:** The District will issue a written notice to the water customer and attach a copy of this Ordinance.
 - b. **Second Violation:** If the first violation is not corrected within the time frame specified by the District, or if a second violation occurs within the following twelve (12) months after the first violation notice, a second notice of violation will be issued and an administrative fine of one hundred dollars (\$100.00) shall be levied for the second violation of this Ordinance.

- c. **Third Violation:** A third violation within the following twelve (12) months after the date of issuance of the second notice of violation is punishable by an administrative fine of two hundred fifty dollars (\$250.00).
- d. **Fourth and Subsequent Violations:** Each day that a violation of this Ordinance occurs beyond the remedy allowance provided in the third notice of violation is a separate offense, subject to any or all of the following penalties:
1. Water service may be turned off or flow may be restricted. Where water service is turned off or flow restricted, it shall be turned on or unrestricted upon correction of the violation and the payment of the reestablishment charges, staff time, and District material purchases per the District's Rates and Regulations for Water Service in effect at the time.
 2. A fine of not more than \$600 or imprisonment in the county jail for not more than 30 days, or both the fine and imprisonment, may be imposed upon conviction under Section 71644 of the California Water Code, or fines/ penalties as defined and allowable under Section 53069.4 of the Government Code may be imposed.
- e. **Payment of Administrative Fines:** The water customer is responsible for the full payment of administrative fines. Each administrative fine shall be applied in the customer's regular water billing. Payment of the administrative fine will be the final responsibility of the individual named on the water account. Non-payment of fines will be subject to the same remedies as non-payment of basic water rates, in accordance with the Casitas Rates and Regulations for Water Service.
3. **Appeal:** Any customer against whom a penalty is levied pursuant to this Ordinance shall have the right to appeal as follows:
- a. The customer request for an appeal consideration must be in writing, legible, and received by the General Manager within ten (10) calendar days of the issuance of the notice of violation to the customer. Any determination not timely appealed shall be deemed final. The written request for appeal consideration shall include:
 - i. A description of the issue,
 - ii. Evidence supporting the appeal, and
 - iii. A request for resolution of the dispute.
 - b. The General Manager will review the material submitted and make an independent determination of the issue, which shall be mailed to the customer within fifteen (15) calendar days of receipt of the request for appeal.
 - c. The General Manager's determination may be appealed in writing within ten (10) calendar days of the mailing of the notice of determination. The appeal of the General Manager's determination shall be heard and considered by the Board of Directors at an upcoming regular meeting of the Board. Notice of the hearing shall be mailed to the customer at least ten (10) calendar days prior to the date of the appeal hearing. The Board may, in its discretion affirm, reverse, or modify the determination. The Board's determination is final.

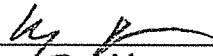
6. **SEVERABILITY.** If any competent court shall find any portion of this Ordinance unconstitutional, such decision shall not affect the validity of any other portion thereof.

7. **EFFECTIVE DATE.** This Ordinance becomes effective this 22nd day of April, 2015.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Casitas Municipal Water District held on April 22, 2015 by the following vote:

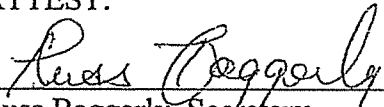
AYES: Word, Baggerly, Kaiser, Bergen
NOES: None
ABSENT: Hicks
ABSTAIN: None

APPROVED:



Mary Bergen, President
Casitas Municipal Water District

ATTEST:



Russ Baggerly, Secretary
Casitas Municipal Water District

Resolution No. 21-XX Adoption of Water Shortage Contingency Plan an Resolution of Adoption of 2020
Urban Water Management Plan

CASITAS MUNICIPAL WATER DISTRICT

Resolution No. 2021-14

RESOLUTION ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN

AND THE 2020 URBAN WATER MANAGEMENT PLAN

WHEREAS, the California Legislature in its 1983-1984 Regular Session adopted the Urban Water Management Planning Act; and

WHEREAS, said Act requires all urban water purveyors with greater than 3,000 service connections or water use of more than 3,000 acre-feet per year served directly to consumers to prepare and submit an urban water management plan to the California Department of Water Resources every five years; and

WHEREAS, the plan shall be reviewed periodically, at least every five years, and Casitas shall make any amendments or changes to its plan which are indicated by the reviews; and

WHEREAS, the original plan was adopted and sent to the California Department of Water Resources in March 1996; and

WHEREAS, the review plan must be filed with the California Department of Water Resources within thirty days of adoption; and

WHEREAS, Casitas' Water Shortage Contingency Plan is included within the 2020 Urban Water Management Plan; and


WHEREAS, the 2020 Urban Water Management Plan addresses all state requirements for such a plan; and

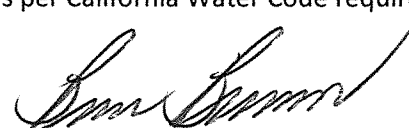
NOW, THEREFORE BE IT RESOLVED by the Board of Directors of the Casitas Municipal Water District as follows:

1. The Water Shortage Contingency Plan for Casitas Municipal Water District has been reviewed, modified, and is included in the 2020 Urban Water Management Plan and is hereby adopted.
2. The 2020 Urban Water Management Plan for Casitas Municipal Water District has been reviewed, modified, and is on file in Casitas' office and is hereby adopted.
3. A copy of the Final 2020 Urban Water Management Plan is to be forwarded to the California Department of Water Resources and other entities per California Water Code requirements.

APPROVED this 23rd day of June 2021

ATTEST


Neil Cole, Secretary
Casitas Municipal Water District


Brian Brennan, President
Casitas Municipal Water District

Submittal Table 2-1 Retail Only: Public Water Systems

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020 *
<i>Add additional rows as needed</i>			
5610024	Casitas Municipal Water District	3,187	7,122
TOTAL		3,187	7,122

** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

NOTES: Does not include resale customers. Includes ag and ag-domestic. Casitas acquired the Ojai Water System in June 2017.

Submittal Table 2-2: Plan Identification

Select Only One	Type of Plan		Name of RUWMP or Regional Alliance <i>if applicable</i> (select from drop down list)
<input checked="" type="checkbox"/>	Individual UWMP		
	<input type="checkbox"/>	Water Supplier is also a member of a RUWMP	
	<input type="checkbox"/>	Water Supplier is also a member of a Regional Alliance	
<input type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)		
NOTES:			

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input checked="" type="checkbox"/>	Supplier is a wholesaler
<input checked="" type="checkbox"/>	Supplier is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years
<input type="checkbox"/>	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP * (select from drop down)	
Unit	AF
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.	
NOTES:	

Submittal Table 2-4 Retail: Water Supplier Information Exchange , Casitas Retail

The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.

Wholesale Water Supplier Name

Add additional rows as needed

Not applicable

NOTES: Casitas serves as the 'wholesaler' to Casitas retail customers so notifications are not necessary. Casitas does not purchase water from any other wholesalers.

Submittal Table 2-4 Wholesale: Water Supplier Information Exchange (select one)

<input checked="" type="checkbox"/>	Supplier has informed more than 10 other water suppliers of water supplies available in accordance with Water Code Section 10631. Completion of the table below is optional. If not completed, include a list of the water suppliers that were informed.
	Provide page number for location of the list.
<input type="checkbox"/>	Supplier has informed 10 or fewer other water suppliers of water supplies available in accordance with Water Code Section 10631. Complete the table below.

Water Supplier Name
<i>Add additional rows as needed</i>
Casitas Mutual Water Company
City of Ventura
Del Vasco Mutual Water Company
Hermitage Mutual Water Company
Meiners Oaks Water District
Old Creek Road Water Company
Rancho del Cielo Mutual Water Company
Rincon Road and Water Works
Senior Canyon Mutual Water Company
Siete Robles Mutual Water Company
Sisar Mutual Water Company
Sulphur Mountain Road Water Association
Tico Mutual Water Company
Ventura River Water District
NOTES:

Submittal Table 3-1 Retail: Population - Current and Projected

Population Served	2020	2025	2030	2035	2040	2045(opt)
	11,042	11,101	11,161	11,221	11,281	

NOTES: Casitas Retail System

Submittal Table 3-1 Wholesale: Population - Current and Projected

Population Served	2020	2025	2030	2035	2040	2045(opt)
	45,964	46,828	47,709	48,606	49,520	

NOTES: Casitas Wholesale System

Submittal Table 4-1 Retail: Demands for Potable and Non-Potable¹ Water - Actual CASITAS

Use Type	2020 Actual		
<p>Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool</p>	Additional Description (as needed)	Level of Treatment When Delivered Drop down list	Volume ²
Add additional rows as needed			
Single Family		Drinking Water	1,045
Multi-Family		Drinking Water	210
Commercial		Drinking Water	465
Industrial		Drinking Water	12
Institutional/Governmental		Drinking Water	134
Landscape		Drinking Water	0
Agricultural irrigation	Ag + Ag Domestic	Drinking Water	5,116
Wetlands or wildlife habitat		Drinking Water	0
Sales/Transfers/Exchanges to other Suppliers		Drinking Water	0
Losses	See note below	Drinking Water	325
Other Potable	Other, Fire Service, Temporary	Drinking Water	141
Other Potable	Ojai Retail Demands	Drinking Water	369
TOTAL			7,817

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4.

² Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: Casitas System. System losses are difficult to separate among the three systems (Casitas Wholesale, Casitas Retail, and Ojai Retail). Total losses are calculated using the AWWA Water Audit Software (v5) and apportioned to the Casitas Retail and Ojai Retail systems based on the proportional length of pipeline in each system (Casitas Retail 72% and Ojai Retail 28%).

Submittal Table 4-1 Wholesale: Demands for Potable and Non-Potable¹ Water - Actual

Use Type	2020 Actual		
<p>Drop down list May select each use multiple times These are the only use types that will be recognized by the WUE data online submittal tool</p>	<p>Additional Description (as needed)</p>	<p>Level of Treatment When Delivered Drop down list</p>	<p>Volume²</p>
Add additional rows as needed			
Sales to other agencies	Resale customers	Drinking Water	3,095
TOTAL			3,095

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4. ²
 Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: The 2020 bonafide exchange with San Gorgonio Pass Water Agency is discussed in Section 6.2.7. Losses for Casitas' system cannot be separated between wholesale and retail; they are reported in Table 4-1 Casitas Retail and Table 4-1 Ojai Retail.

Submittal Table 4-2 Retail: Use for Potable and Non-Potable¹ Water - Projected, Casitas System

Use Type	Additional Description (as needed)	Projected Water Use ² <i>Report To the Extent that Records are Available</i>				
		2025	2030	2035	2040	2045 (opt)
<p>Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUedata online submittal tool</p>						
Add additional rows as needed						
Single Family		1,157	1,157	1,157	1,157	
Multi-Family		202	202	202	202	
Commercial		574	574	574	574	
Industrial		23	23	23	23	
Institutional/Governmental		101	101	101	101	
Landscape		0	0	0	0	
Groundwater recharge		0	0	0	0	
Saline water intrusion barrier		0	0	0	0	
Agricultural irrigation	Ag + Ag Domestic	6,496	6,496	6,496	6,496	
Wetlands or wildlife habitat		0	0	0	0	
Sales/Transfers/Exchanges to other Suppliers		0	0	0	0	
Losses		954	954	954	954	
Other Potable	Other + Fire Service + Temporary	201	201	201	201	
Other Potable	Ojai Retail Demands	461	461	461	461	
TOTAL		10,169	10,169	10,169	10,169	0

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4. measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

² Units of

NOTES: Casitas System

Submittal Table 4-2 Wholesale: Use for Potable and Raw Water¹ - Projected

Use Type	Additional Description (as needed)	Projected Water Use ²				
		Report To the Extent that Records are Available				
Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool.		2025	2030	2035	2040	2045 (opt)
Add additional rows as needed						
Sales to other agencies		4,356	4,356	4,356	4,356	
Transfers to other agencies		0	0	0	0	
Exchanges to other agencies		0	0	0	0	
Groundwater recharge		0	0	0	0	
Saline water intrusion barrier		0	0	0	0	
Agricultural irrigation		0	0	0	0	
Wetlands or wildlife habitat		0	0	0	0	
Retail demand for use by suppliers that are primarily wholesalers with a small volume of retail sales		0	0	0	0	
Losses		0	0	0	0	
Other Potable		0	0	0	0	
Other Non-Potable		0	0	0	0	
Other		0	0	0	0	
TOTAL		4,356	4,356	4,356	4,356	0

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4.
 Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES:

Submittal Table 4-3 Retail: Total Water Use (Potable and Non-Potable), Casitas Retail

	2020	2025	2030	2035	2040	2045 (opt)
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	7,817	10,169	10,169	10,169	10,169	0
Recycled Water Demand ¹ <i>From Table 6-4</i>	0	0	0	0	0	0
Optional Deduction of Recycled Water Put Into Long-Term Storage ²						
TOTAL WATER USE	7,817	10,169	10,169	10,169	10,169	0

¹ Recycled water demand fields will be blank until Table 6-4 is complete ²
 Long term storage means water placed into groundwater or surface storage that is not removed from storage in the same year. Supplier *may* deduct recycled water placed in long-term storage from their reported demand. This value is manually entered into Table 4-3.

NOTES: Casitas System

Submittal Table 4-3 Wholesale: Total Water Use (Potable and Non-Potable)

	2020	2025	2030	2035	2040	2045 (opt)
Potable and Raw Water From Tables 4-1W and 4-2W	3,095	4,356	4,356	4,356	4,356	0
Recycled Water Demand* From Table 6-4W	0	0	0	0	0	0
TOTAL WATER DEMAND	3,095	4,356	4,356	4,356	4,356	0

**Recycled water demand fields will be blank until Table 6-4 is complete.*

NOTES:

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting , Casitas Retail

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ^{1,2}
01/2016	1288
01/2017	891
01/2018	724
01/2019	609
01/2020	325

¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet. ²

Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: Losses are shown proportional to pipeline length of Casitas Retail (72%) and Ojai Retail (28%). For 2016, 100% is Casitas Retail as the Ojai System was acquired in 2017.

OPTIONAL Table 4-4 Wholesale: Last Five Years of Water Loss Audit Reporting

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ^{1,2}

¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet. ² **Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections, Casitas and Ojai Retail Systems

<p>Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i></p>	<p>Yes</p>
<p>If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found.</p>	<p>Section 4.2.3</p>
<p>Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i></p>	<p>Yes</p>

NOTES:

Submittal Table 5-1 Baselines and Targets Summary, Casitas Retail
From SB X7-7 Verification Form
Retail Supplier or Regional Alliance Only

Baseline Period	Start Year *	End Year *	Average Baseline GPCD*	Confirmed 2020 Target*
10-15 year	1999	2008	369	295
5 Year	2005	2009	355	

**All cells in this table should be populated manually from the supplier's SBX7-7 Verification Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 5-2: 2020 Compliance, Casitas Retail System
From SB X7-7 2020 Compliance Form
Retail Supplier or Regional Alliance Only

2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
195	0	195	295	Yes

**All cells in this table should be populated manually from the supplier's SBX7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 6-1 Retail: Groundwater Volume Pumped

Supplier does not pump groundwater.
The supplier will not complete the table below.

All or part of the groundwater described below is desalinated.

Groundwater Type Drop Down List <i>May use each category multiple times</i>	Location or Basin Name	2016*	2017*	2018*	2019*	2020*
--	------------------------	-------	-------	-------	-------	-------

Add additional rows as needed

Alluvial Basin	Upper Ventura River	24	111	106	87	125
TOTAL		24	111	106	87	125

*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Mira Monte Well

Submittal Table 6-1 Wholesale: Groundwater Volume Pumped

<input type="checkbox"/>	Supplier does not pump groundwater. The supplier will not complete the table below.
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<input type="checkbox"/>	All or part of the groundwater described below is desalinated.
--------------------------	--

Groundwater Type	Location or Basin Name	2016*	2017*	2018*	2019*	2020*
<i>Add additional rows as needed</i>						
Alluvial Basin	Upper Ventura River	11	48	45	37	54
TOTAL		11	48	45	37	54

*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020

There is no wastewater collection system. The supplier will not complete the table below.

Percentage of 2020 service area covered by wastewater collection system *(optional)*

Percentage of 2020 service area population covered by wastewater collection system *(optional)*

Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected from UWMP Service Area 2020 *	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i> <i>Drop Down List</i>
City of Ventura	Metered	66	City of Ventura	City of Ventura	No	No
Total Wastewater Collected from Service Area in 2020:		66				

*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3 .**

NOTES: There are two agencies who provide wastewater collection and treatment within the Casitas service area, Ojai Valley Sanitary District and the City of Ventura. The boundaries for these agencies do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail.

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area

Recycled water is not used and is not planned for use within the service area of the supplier.
The supplier will not complete the table below.

Name of Supplier Producing (Treating) the Recycled Water:

Name of Supplier Operating the Recycled Water Distribution System:

Supplemental Water Added in 2020 (volume) *include units*

Source of 2020 Supplemental Water

Beneficial Use Type <i>additional rows if needed.</i>	<i>Insert</i> Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity) <i>Include volume units ¹</i>	General Description of 2020 Uses	Level of Treatment <i>Drop down list</i>	2020 ¹	2025 ¹	2030 ¹	2035 ¹	2040 ¹	2045 ¹ (opt)
Agricultural irrigation		0			0	0	0	0	0	0
Landscape irrigation <i>(exc golf courses)</i>		0			0	0	0	0	0	0
Golf course irrigation		0			0	0	0	0	0	0
Commercial use		0			0	0	0	0	0	0
Industrial use		0			0	0	0	0	0	0
Geothermal and other energy production		0			0	0	0	0	0	0
Seawater intrusion barrier		0			0	0	0	0	0	0
Recreational impoundment		0			0	0	0	0	0	0
Wetlands or wildlife habitat		0			0	0	0	0	0	0
Groundwater recharge (IPR)		0			0	0	0	0	0	0
Reservoir water augmentation (IPR)		0			0	0	0	0	0	0
Direct potable reuse		0			0	0	0	0	0	0
Other (Description Required)		0			0	0	0	0	0	0
Total:					0	0	0	0	0	0

2020 Internal Reuse

¹ **Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-4 Wholesale: Current and Projected Retailers Provided Recycled Water Within Service Area

<input checked="" type="checkbox"/>	Recycled water is not directly treated or distributed by the Supplier. Supplier will not complete the table below.	The
-------------------------------------	---	-----

Name of Receiving Supplier or Direct Use by Wholesaler	Level of Treatment <i>Drop down list</i>	2020*	2025*	2030*	2035*	2040*	2045* (opt)
<i>Add additional rows as needed</i>							
Total		0	0	0	0	0	0

*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual



Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table below. If recycled water was not used in 2020, and was not predicted to be in 2015, then check the box and do not complete the table.

Beneficial Use Type	2015 Projection for 2020 ¹	2020 Actual Use ¹
<i>Insert additional rows as needed.</i>		
Agricultural irrigation	0	0
Landscape irrigation (exc golf courses)	0	0
Golf course irrigation	0	0
Commercial use	0	0
Industrial use	0	0
Geothermal and other energy production	0	0
Seawater intrusion barrier	0	0
Recreational impoundment	0	0
Wetlands or wildlife habitat	0	0
Groundwater recharge (IPR)	0	0
Reservoir water augmentation (IPR)	0	0
Direct potable reuse	0	0
Other (Description Required)	0	0
Total	0	0

¹ Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTE:

Submittal Table 6-5 Wholesale: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual

<input checked="" type="checkbox"/>	Recycled water was not used or distributed by the supplier in 2015, nor projected for use or distribution in 2020. The wholesale supplier will not complete the table below.	
Name of Receiving Supplier or Direct Use by Wholesaler	2015 Projection for 2020*	2020 Actual Use*
<i>Add additional rows as needed</i>		
	0	0
Total	0	0
*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.		
NOTES:		

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use

<input checked="" type="checkbox"/>	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.
-------------------------------------	---

64	Provide page location of narrative in UWMP
----	--

Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use *
----------------	-------------	-----------------------------	---

Add additional rows as needed

--	--	--	--

--	--	--	--

--	--	--	--

Total			0
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***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List</i>	Expected Increase in Water Supply to Supplier* <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Supplier Name</i>				

Add additional rows as needed

Ventura-Casitas SWP Interconnection ¹	Yes	City of Ventura	7-mile pipeline	2025	Multi-Dry Year	Unknown
Ventura-Santa Barbara Counties Intertie ²	Yes	Carpinteria Valley Water District	Pipeline and two booster pump stations	2025	Multi-Dry Year	1,400
Matilija Formation Deep Bore	No		15,000 foot vertical bore in Matilija Formation	2030	Single-Dry and Multi-Dry Year	5,600
Robles Fish Screen	No		Fixed backspray	2025	All Year Types	Unknown

NOTES: Projects to be implemented benefit Casitas Wholesale and Retail customers, as well as Ojai Retail customers. Seventy percent of the projected supply is applied to the Retail system. 1) Ventura's SWP allocation is 10,000 AFY; this is a possible 'in-lieu' benefit to Casitas 2) Supply is based on available capacity in pipelines on Santa Barbara County side 3) Difficult to quantify the supply impact to improved fish screen operation as it is dependent on storm flows

Submittal Table 6-7 Wholesale: Expected Future Water Supply Projects or Programs

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type Drop Down list	Expected Increase in Water Supply to Supplier*
	Drop Down Menu	If Yes, Supplier Name				

Add additional rows as needed

Ventura-Casitas SWP Interconnection ¹	Yes	City of Ventura	7-mile pipeline	2025	Multi-Dry Year	Unknown
Ventura-Santa Barbara Counties Intertie ²	Yes	Carpinteria Valley Water District	Pipeline and two booster pump stations	2025	Multi-Dry Year	600
Matilija Formation Deep Bore	No		15,000 foot vertical bore in Matilija Formation	2030	Single-Dry and Multi-Dry Year	2,400
Robles Fish Screen Improvements ³	No		Fixed backspray cleaning system	2025	All Year Types	Unknown

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Projects to be implemented benefit Casitas Wholesale and Retail customers, as well as Ojai Retail customers. Thirty percent of the projected supply is applied to the Wholesale system.

1) Ventura's SWP allocation is 10,000 AFY; this is a possible 'in-lieu' benefit to Casitas

2) Supply is based on available capacity in pipelines on Santa Barbara County side

Submittal Table 6-8 Retail: Water Supplies — Actual, Casitas

Water Supply	Additional Detail on Water Supply	2020		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool		Actual Volume*	Water Quality Drop Down List	Total Right or Safe Yield* (optional)
Add additional rows as needed				
Surface water (not desalinated)	Lake Casitas	7,571	Drinking Water	
Groundwater (not desalinated)	Mira Monte Well	129	Drinking Water	

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

OPTIONAL Table 6-8ds: Source Water Desalination

<input checked="" type="checkbox"/> Neither groundwater nor surface water are reduced in salinity prior to distribution.										
Plant Name or Well ID	Plant Capacity	Intake Type <i>Drop down list</i>	Source Water Type <i>Drop down list</i>	Influent TDS	Brine Discharge <i>Drop down list</i>	Volume of Water Desalinated				
						2016	2017	2018	2019	2020
Total						0	0	0	0	0

**Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

Notes:

Submittal Table 6-9 Retail: Water Supplies — Projected

Water Supply	Additional Detail on Water Supply	Projected Water Supply * Report To the Extent Practicable									
		2025		2030		2035		2040		2045 (opt)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
Add additional rows as needed											
Surface water (not desalinated)	Lake Casitas	10,405		10,405		10,405		10,405			
Groundwater (not desalinated)	Mira Monte Well	102		102		102		102			
Purchased or Imported Water	Ventura-Santa Barbara Counties Interconnection	1,400		1,400		1,400		1,400			
	Total	11,907	0	11,907	0	11,907	0	11,907	0	0	0

*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: Casitas Retail System

Submittal Table 6-9 Wholesale: Water Supplies — Projected

Water Supply	Additional Detail on Water Supply	Projected Water Supply* Report To the Extent Practicable									
		2025		2030		2035		2040		2045 (opt)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
Add additional rows as needed											
Surface water (not desalinated)	Lake Casitas	4,460		4,460		4,460		4,460			
Groundwater (not desalinated)	Mira Monte Well	43		43		43		43			
Purchased or Imported Water	Ventura-Santa Barbara Intertie	600		600		600		600			
Total		5,103	0	5,103	0	5,103	0	5,103	0	0	0

*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES:

Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2019-2020, use 2020	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available *	% of Average Supply
Average Year	2003	11,907	100%
Single-Dry Year	2019	11907	100%
Consecutive Dry Years 1st Year	2011	11907	100%
Consecutive Dry Years 2nd Year	2012	11907	100%
Consecutive Dry Years 3rd Year	2013	11732	99%
Consecutive Dry Years 4th Year	2014	10682	90%
Consecutive Dry Years 5th Year	2015	11207	94%

Supplier may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table.

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Base volume available: Lake Casitas (10,060), Mira Monte Well (145) and Purchased/Imported (SWP) Water (1,400). SWP availability from 2011 to 2015 was factored into multiple dry years.

Submittal Table 7-1 Wholesale: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 1999-2000, use 2000	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available *	% of Average Supply
Average Year	2003	5103	100%
Single-Dry Year	2019	5103	100%
Consecutive Dry Years 1st Year	2011	5103	100%
Consecutive Dry Years 2nd Year	2012	5103	100%
Consecutive Dry Years 3rd Year	2013	5028	99%
Consecutive Dry Years 4th Year	2014	4578	90%
Consecutive Dry Years 5th Year	2015	4803	94%

Supplier may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a supplier uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table. Suppliers may create an additional worksheet for the additional tables.

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Base volume available: Lake Casitas (4,460), Mira Monte Well (43) and Purchased/Imported (SWP) Water (600). SWP availability from 2011 to 2015 was factored into multiple dry years.

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (Opt)
Supply totals (autofill from Table 6-9)	11,907	11,907	11,907	11,907	0
Demand totals (autofill from Table 4-3)	10,169	10,169	10,169	10,169	0
Difference	1,738	1,738	1,738	1,738	0

NOTES:

Submittal Table 7-2 Wholesale: Normal Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (Opt)
Supply totals <i>(autofill from Table 6-9)</i>	5,103	5,103	5,103	5,103	0
Demand totals <i>(autofill fm Table 4-3)</i>	4,356	4,356	4,356	4,356	0
Difference	747	747	747	747	0

NOTES:

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2025	2030	2035	2040	2045 (Opt)
Supply totals*	11,907	11,907	11,907	11,907	
Demand totals*	10,169	10169	10,169	10,169	
Difference	1,738	1,738	1,738	1,738	0
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>					
NOTES:					

Submittal Table 7-3 Wholesale: Single Dry Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (Opt)
Supply totals*	5,103	5,103	5,103	5,103	
Demand totals*	4,356	4,356	4,356	4,356	
Difference	747	747	747	747	0

**Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

NOTES:

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison

		2025*	2030*	2035*	2040*	2045* (Opt)
First year	Supply totals	11,907	11,907	11,907	11,907	
	Demand totals	10,169	10169	10,169	10,169	
	Difference	1,738	1,738	1,738	1,738	0
Second year	Supply totals	11,907	11,907	11,907	11,907	
	Demand totals	10,169	10169	10,169	10,169	
	Difference	1,738	1,738	1,738	1,738	0
Third year	Supply totals	11,732	11,732	11,732	11,732	
	Demand totals	10,169	10169	10,169	10,169	
	Difference	1,563	1,563	1,563	1,563	0
Fourth year	Supply totals	10,682	10,682	10,682	10,682	
	Demand totals	10,169	10169	10,169	10,169	
	Difference	513	513	513	513	0
Fifth year	Supply totals	11,207	11,207	11,207	11,207	
	Demand totals	8,135	8135	8,135	8,135	
	Difference	3,072	3,072	3,072	3,072	0
Sixth year <i>(optional)</i>	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0

****Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.***

NOTES:

Submittal Table 7-4 Wholesale: Multiple Dry Years Supply and Demand Comparison

		2025*	2030*	2035*	2040*	2045* (Opt)
First year	Supply totals	5,103	5,103	5,103	5,103	
	Demand totals	4,356	4,356	4,356	4,356	
	Difference	747	747	747	747	0
Second year	Supply totals	5,103	5,103	5,103	5,103	
	Demand totals	4,356	4,356	4,356	4,356	
	Difference	747	747	747	747	0
Third year	Supply totals	5,028	5,028	5,028	5,028	
	Demand totals	4,356	4,356	4,356	4,356	
	Difference	672	672	672	672	0
Fourth year	Supply totals	4,578	4,578	4,578	4,578	
	Demand totals	4,356	4,356	4,356	4,356	
	Difference	222	222	222	222	0
Fifth year	Supply totals	4,803	4,803	4,803	4,803	
	Demand totals	3,485	3,485	3,485	3,485	
	Difference	1,318	1,318	1,318	1,318	0
Sixth year <i>(optional)</i>	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b)

2021	Total
Total Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	0
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%

2022	Total
Total Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%

2023	Total
Total Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%

2024	Total
Total Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	3,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	27%

2025	Total
Total Water Use	14,525
Total Supplies	10,626
Surplus/Shortfall w/o WSCP Action	(3,899)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	2000
WSCP - use reduction savings benefit	1,899
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	13%

Submittal Table 8-1
Water Shortage Contingency Plan Levels

Shortage Level	Percent Shortage Range	Shortage Response Actions <i>(Narrative description)</i>
1	Up to 10%	Water Conservation: <u>Voluntary</u> conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
2	Up to 20%	Water Shortage Warning: <u>Mandatory</u> conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
3	Up to 30%	Water Shortage Eminent: <u>Mandatory</u> conservation measures to reduce water usage by up to 30%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
4	Up to 40%	Severe Water Shortage: <u>Mandatory</u> conservation measures to reduce water usage by up to 40%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
5	Up to 50%	Critical Water Shortage: <u>Mandatory</u> conservation measures to reduce water usage by up to 50%. Follow recommended response actions in most recently adopted WEAP. (Appendix F).
6	>50%	Catastrophic Water System Emergency: Limited to no water can be supplied due to infrastructure damage or failure. Follow recommended response actions in most recently adopted Emergency Response Plan.

NOTES:

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only</i> <i>Drop Down List</i>
----------------	--	---	--	---

Add additional rows as needed

1	Other	20% Voluntary	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	No
2	Other	20% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
3	Other	30% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
4	Other	40% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
5	Other	50% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
6	Other	>50% Mandatory	Catastrophic Emergency in which limited to no water is available. Response actions are outlined in Casitas' Emergency Response Plan.	Yes

NOTES:

Submittal Table 8-3: Supply Augmentation and Other Actions

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>
<i>Add additional rows as needed</i>			
Shortage Level 1	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 2	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 3	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 4	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 5	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 6	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.

NOTES: Action applies to Shortage levels 1 through 6 and is not cumulative

Table 8-4 is not applicable for the UWMP 2020.

Table 8-4 is not applicable for the UWMP 2020.

Submittal Table 10-1 Retail: Notification to Cities and Counties

City Name	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Ojai	Yes	Yes
County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Ventura County	Yes	Yes
NOTES:		

Submittal Table 10-1 Wholesale: Notification to Cities and Counties (select one)

<input type="checkbox"/>	Supplier has notified more than 10 cities or counties in accordance with Water Code Sections 10621 (b) and 10642. Completion of the table below is not required. Provide a separate list of the cities and counties that were notified.
	Provide the page or location of this list in the UWMP.

<input checked="" type="checkbox"/>	Supplier has notified 10 or fewer cities or counties. Complete the table below.
-------------------------------------	---

City Name	60 Day Notice	Notice of Public Hearing
-----------	---------------	--------------------------

Add additional rows as needed

Ventura	Yes	Yes

County Name <small>Drop Down List</small>	60 Day Notice	Notice of Public Hearing
--	---------------	--------------------------

Add additional rows as needed

Ventura County	Yes	Yes

NOTES:

Submittal Table 2-1 Retail Only: Public Water Systems

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020 *
<i>Add additional rows as needed</i>			
5610014	Ojai Water System	2,943	1,625
TOTAL		2,943	1,625

** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

NOTES: Includes ag and ag-domestic. Casitas acquired the Ojai Water System in June 2017.

Submittal Table 2-2: Plan Identification

Select Only One	Type of Plan		Name of RUWMP or Regional Alliance <i>if applicable</i> (select from drop down list)
<input checked="" type="checkbox"/>	Individual UWMP		
	<input type="checkbox"/>	Water Supplier is also a member of a RUWMP	
	<input type="checkbox"/>	Water Supplier is also a member of a Regional Alliance	
<input type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)		

NOTES:

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input type="checkbox"/>	Supplier is a wholesaler
<input checked="" type="checkbox"/>	Supplier is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years
<input type="checkbox"/>	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP * (select from drop down)	
Unit	AF
<i>* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>	
NOTES:	

Submittal Table 2-4 Retail: Water Supplier Information Exchange, Ojai Retail

The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.

Wholesale Water Supplier Name

Add additional rows as needed

Not applicable

NOTES: Casitas serves as the 'wholesaler' to Ojai retail customers so notifications are not necessary. Casitas does not purchase water from any other wholesalers.

Submittal Table 3-1 Retail: Population - Current and Projected

Population Served	2020	2025	2030	2035	2040	2045(opt)
	6,712	6,773	6,834	6,895	6,957	

NOTES: Ojai Retail System

Submittal Table 4-1 Retail: Demands for Potable and Non-Potable¹ Water - Actual OJAI

Use Type	2020 Actual		
Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool	Additional Description (as needed)	Level of Treatment When Delivered Drop down list	Volume ²
Add additional rows as needed			
Single Family		Drinking Water	1,095
Multi-Family		Drinking Water	88
Commercial		Drinking Water	274
Industrial		Drinking Water	3
Institutional/Governmental		Drinking Water	0
Landscape		Drinking Water	0
Agricultural irrigation		Drinking Water	100
Wetlands or wildlife habitat		Drinking Water	0
Sales/Transfers/Exchanges to other Suppliers		Drinking Water	0
Losses	See note below	Drinking Water	126
Other Potable	Other, Fire Service, Temporary	Drinking Water	65
TOTAL			1,751

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4. ²
 Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: Ojai System. System losses are difficult to separate among the three systems (Casitas Wholesale, Casitas Retail, and Ojai Retail). Total losses are calculated using the AWWA Water Audit Software (v5) and apportioned to the Casitas Retail and Ojai Retail systems based on the proportional length of pipeline in each system (Casitas Retail 72% and Ojai Retail 28%).

Submittal Table 4-2 Retail: Use for Potable and Non-Potable¹ Water - Projected, Ojai System

Use Type	Additional Description (as needed)	Projected Water Use ² <i>Report To the Extent that Records are Available</i>				
		2025	2030	2035	2040	2045 (opt)
<p>Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUedata online submittal tool</p>						
Add additional rows as needed						
Single Family		1,088	1,088	1,088	1,088	
Multi-Family		95	95	95	95	
Commercial		425	425	425	425	
Industrial		2	2	2	2	
Institutional/Governmental		20	20	20	20	
Landscape		0	0	0	0	
Groundwater recharge		0	0	0	0	
Saline water intrusion barrier		0	0	0	0	
Agricultural irrigation	Ag + Ag domestic	38	38	38	38	
Wetlands or wildlife habitat		0	0	0	0	
Sales/Transfers/Exchanges to other Suppliers		0	0	0	0	
Losses		130	130	130	130	
Other Potable	Other + Fire Service + Temporary	52	52	52	52	
TOTAL		1,850	1,850	1,850	1,850	0

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4. measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

² Units of

NOTES: Ojai System

Submittal Table 4-3 Retail: Total Water Use (Potable and Non-Potable), Ojai Retail

	2020	2025	2030	2035	2040	2045 (opt)
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	1,751	1,850	1,850	1,850	1,850	0
Recycled Water Demand ¹ <i>From Table 6-4</i>	0	0	0	0	0	0
Optional Deduction of Recycled Water Put Into Long-Term Storage ²						
TOTAL WATER USE	1,751	1,850	1,850	1,850	1,850	0

¹ Recycled water demand fields will be blank until Table 6-4 is complete ²
 Long term storage means water placed into groundwater or surface storage that is not removed from storage in the same year. Supplier *may* deduct recycled water placed in long-term storage from their reported demand. This value is manually entered into Table 4-3.

NOTES: Ojai System

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting, Ojai Retail

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ^{1,2}
01/2016	unknown
01/2017	347
01/2018	281
01/2019	237
01/2020	126

¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet. ²

Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: Losses are shown proportional to pipeline length of Casitas Retail (72%) and Ojai Retail (28%). Casitas did not own the Ojai System in 2016.

Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections, Casitas and Ojai Retail Systems

<p>Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i></p>	<p>Yes</p>
<p>If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found.</p>	<p>Section 4.2.3</p>
<p>Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i></p>	<p>Yes</p>

NOTES:

**Submittal Table 5-1 Baselines and Targets Summary, Ojai Retail
From SB X7-7 Verification Form**
Retail Supplier or Regional Alliance Only

Baseline Period	Start Year *	End Year *	Average Baseline GPCD*	Confirmed 2020 Target*
10-15 year	1999	2008	322	257
5 Year	2004	2008	316	

**All cells in this table should be populated manually from the supplier's SBX7-7 Verification Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 5-2: 2020 Compliance, Casitas Retail System
From SB X7-7 2020 Compliance Form
Retail Supplier or Regional Alliance Only

2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
209	0	209	257	Yes

**All cells in this table should be populated manually from the supplier's SBX7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 6-1 Retail: Groundwater Volume Pumped

Supplier does not pump groundwater.
The supplier will not complete the table below.

All or part of the groundwater described below is desalinated.

Groundwater Type <i>Drop Down List</i> May use each category multiple times	Location or Basin Name	2016*	2017*	2018*	2019*	2020*
--	------------------------	-------	-------	-------	-------	-------

Add additional rows as needed

Alluvial Basin	Ojai Basin	944	1381	1378	1548	1300
TOTAL		944	1,381	1,378	1,548	1,300

*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020

There is no wastewater collection system. The supplier will not complete the table below.

Percentage of 2020 service area covered by wastewater collection system *(optional)*

Percentage of 2020 service area population covered by wastewater collection system *(optional)*

Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected from UWMP Service Area 2020 *	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i> <i>Drop Down List</i>
Ojai Valley Sanitary District	Metered	1,826	Ojai Valley Sanitary District	Ojai Valley Sanitary District	Yes	No
Total Wastewater Collected from Service Area in 2020:		1,826				

*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3 .**

NOTES: There are two agencies who provide wastewater collection and treatment within the Casitas service area, Ojai Valley Sanitary District and the City of Ventura. The boundaries for these agencies do not readily correspond to Casitas' wholesale, retail, or Ojai water system boundaries, nor can the wastewater collected for these agencies be readily ascribed to wholesale or retail customers. To simplify reporting, the City of Ventura's wastewater information is provided in Table 6-2 Casitas Retail and OVSD's wastewater information is provided in Table 6-2 Ojai Retail.

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area

Recycled water is not used and is not planned for use within the service area of the supplier.
The supplier will not complete the table below.

Name of Supplier Producing (Treating) the Recycled Water:

Name of Supplier Operating the Recycled Water Distribution System:

Supplemental Water Added in 2020 (volume) *include units*

Source of 2020 Supplemental Water

Beneficial Use Type <i>additional rows if needed.</i>	<i>Insert</i> Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity) <i>Include volume units¹</i>	General Description of 2020 Uses	Level of Treatment <i>Drop down list</i>	2020 ¹	2025 ¹	2030 ¹	2035 ¹	2040 ¹	2045 ¹ (opt)
Agricultural irrigation		0			0	0	0	0	0	0
Landscape irrigation <i>(exc golf courses)</i>		0			0	0	0	0	0	0
Golf course irrigation		0			0	0	0	0	0	0
Commercial use		0			0	0	0	0	0	0
Industrial use		0			0	0	0	0	0	0
Geothermal and other energy production		0			0	0	0	0	0	0
Seawater intrusion barrier		0			0	0	0	0	0	0
Recreational impoundment		0			0	0	0	0	0	0
Wetlands or wildlife habitat		0			0	0	0	0	0	0
Groundwater recharge (IPR)		0			0	0	0	0	0	0
Reservoir water augmentation (IPR)		0			0	0	0	0	0	0
Direct potable reuse		0			0	0	0	0	0	0
Other (Description Required)		0			0	0	0	0	0	0
Total:					0	0	0	0	0	0

2020 Internal Reuse

¹ **Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual



Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table below. If recycled water was not used in 2020, and was not predicted to be in 2015, then check the box and do not complete the table.

Beneficial Use Type	2015 Projection for 2020 ¹	2020 Actual Use ¹
<i>Insert additional rows as needed.</i>		
Agricultural irrigation	0	0
Landscape irrigation (exc golf courses)	0	0
Golf course irrigation	0	0
Commercial use	0	0
Industrial use	0	0
Geothermal and other energy production	0	0
Seawater intrusion barrier	0	0
Recreational impoundment	0	0
Wetlands or wildlife habitat	0	0
Groundwater recharge (IPR)	0	0
Reservoir water augmentation (IPR)	0	0
Direct potable reuse	0	0
Other (Description Required)	0	0
Total	0	0

¹ Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTE:

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use

<input checked="" type="checkbox"/>	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.
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	Provide page location of narrative in UWMP
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Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use *
----------------	-------------	-----------------------------	---

Add additional rows as needed

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Total			0
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***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

Page 57 Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List</i>	Expected Increase in Water Supply to Supplier* <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Supplier Name</i>				

Add additional rows as needed

Groundwater Well	No			2025	Average and Single-Dry Year	500

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Supplies from the Ojai Groundwater Basin are only available to Ojai Retail customers. Supplies from the Ojai Groundwater Basin are only available to Ojai Retail customers. Normal, Single-Year Dry, and first 3 years of a multi-year drought period.

Submittal Table 6-8 Retail: Water Supplies — Actual, Ojai

Water Supply	Additional Detail on Water Supply	2020		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool		Actual Volume*	Water Quality Drop Down List	Total Right or Safe Yield* (optional)
Add additional rows as needed				
Surface water (not desalinated)	Lake Casitas	369	Drinking Water	
Groundwater (not desalinated)	Ojai Wellfield	1,300	Drinking Water	
Total		1,669		0

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Ojai Retail System

OPTIONAL Table 6-8ds: Source Water Desalination

<input type="checkbox"/> Neither groundwater nor surface water are reduced in salinity prior to distribution.										
Plant Name or Well ID	Plant Capacity	Intake Type <i>Drop down list</i>	Source Water Type <i>Drop down list</i>	Influent TDS	Brine Discharge <i>Drop down list</i>	Volume of Water Desalinated				
						2016	2017	2018	2019	2020
Total						0	0	0	0	0

**Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

Notes:

Submittal Table 6-9 Retail: Water Supplies — Projected, Ojai

Water Supply	Additional Detail on Water Supply	Projected Water Supply * Report To the Extent Practicable									
		2025		2030		2035		2040		2045 (opt)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
Add additional rows as needed											
Surface water (not desalinated)	Lake Casitas Supplement	461		461		461		461			
Groundwater (not desalinated)	Ojai Wellfield	2,300		2,300		2,300		2,300			
	Total	2,761	0	2,761	0	2,761	0	2,761	0	0	0

**Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

NOTES:

Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2019-2020, use 2020	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available *	% of Average Supply
Average Year	2003	2761	100%
Single-Dry Year	2019	2761	100%
Consecutive Dry Years 1st Year	2011	2761	100%
Consecutive Dry Years 2nd Year	2012	2761	100%
Consecutive Dry Years 3rd Year	2013	2761	100%
Consecutive Dry Years 4th Year	2014	2169	79%
Consecutive Dry Years 5th Year	2015	2169	79%

Supplier may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table.

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: Ojai Wellfield Capacity (2,300 AF) plus Lake Casitas Supplement (461 AF) in 1st three years; 1,800 AF and 369 AF, respectively in years 4 and 5.

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (Opt)
Supply totals (autofill from Table 6-9)	2,761	2,761	2,761	2,761	0
Demand totals (autofill from Table 4-3)	1,850	1,850	1,850	1,850	0
Difference	911	911	911	911	0

NOTES:

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (Opt)
Supply totals*	2,761	2,761	2,761	2,761	
Demand totals*	1,850	1850	1,850	1,850	
Difference	911	911	911	911	0

**Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.*

NOTES:

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison

		2025*	2030*	2035*	2040*	2045* (Opt)
First year	Supply totals	2,761	2,761	2,761	2,761	
	Demand totals	1,850	1,850	1,850	1,850	
	Difference	911	911	911	911	0
Second year	Supply totals	2,761	2,761	2,761	2,761	
	Demand totals	1,850	1,850	1,850	1,850	
	Difference	911	911	911	911	0
Third year	Supply totals	2,761	2,761	2,761	2,761	
	Demand totals	1,850	1,850	1,850	1,850	
	Difference	911	911	911	911	0
Fourth year	Supply totals	2,169	2,169	2,169	2,169	
	Demand totals	1,850	1,850	1,850	1,850	
	Difference	319	319	319	319	0
Fifth year	Supply totals	2,169	2,169	2,169	2,169	
	Demand totals	1,480	1,480	1,480	1,480	
	Difference	689	689	689	689	0
Sixth year (optional)	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0

***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b)

2021	Total
Total Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%

2022	Total
Total Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%

2023	Total
Total Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%

2024	Total
Total Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	187
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	10%

2025	Total
Total Water Use	1,850
Total Supplies	1,663
Surplus/Shortfall w/o WSCP Action	(187)
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	500
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	313
Resulting % Use Reduction from WSCP action	0%

Submittal Table 8-1
Water Shortage Contingency Plan Levels

Shortage Level	Percent Shortage Range	Shortage Response Actions <i>(Narrative description)</i>
1	Up to 10%	Water Conservation: <u>Voluntary</u> conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
2	Up to 20%	Water Shortage Warning: <u>Mandatory</u> conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
3	Up to 30%	Water Shortage Eminent: <u>Mandatory</u> conservation measures to reduce water usage by up to 30%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
4	Up to 40%	Severe Water Shortage: <u>Mandatory</u> conservation measures to reduce water usage by up to 40%. Follow recommended response actions in most recently adopted WEAP (Appendix F).
5	Up to 50%	Critical Water Shortage: <u>Mandatory</u> conservation measures to reduce water usage by up to 50%. Follow recommended response actions in most recently adopted WEAP. (Appendix F).
6	>50%	Catastrophic Water System Emergency: Limited to no water can be supplied due to infrastructure damage or failure. Follow recommended response actions in most recently adopted Emergency Response Plan.

NOTES:

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
<i>Add additional rows as needed</i>				
1	Other	20% Voluntary	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	No
2	Other	20% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
3	Other	30% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
4	Other	40% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
5	Other	50% Mandatory	Demand Reduction Actions are outlined in the Water Efficiency Allocation Program (Appendix F)	Yes
6	Other	>50% Mandatory	Catastrophic Emergency in which limited to no water is available. Response actions are outlined in Casitas' Emergency Response Plan.	Yes
NOTES:				

Submittal Table 8-3: Supply Augmentation and Other Actions

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>
<i>Add additional rows as needed</i>			
Shortage Level 1	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 2	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 3	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 4	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 5	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.
Shortage Level 6	Other Actions (describe)	2,000 AFY on average	Casitas is currently planning regional interconnection projects that would allow supply augmentation. These projects are further described in UWMP Section 6.2.8.

NOTES:

Table 8-4 is not applicable for the UWMP 2020.

Table 8-4 is not applicable for the UWMP 2020.

Submittal Table 10-1 Retail: Notification to Cities and Counties

City Name	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Ojai	Yes	Yes
County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Ventura County	Yes	Yes
NOTES:		



What is changing about your water service?

Casitas periodically must assess rates for various customer groups to insure that customers are being charged fairly for the cost of their water. This means that each customer group is responsible for paying for the costs of water that relate directly to them.

Casitas recently hired an independent rate firm to conduct a comprehensive cost of service study. The study has confirmed that Casitas must adjust its rates to continue providing safe, reliable water delivery and maintain financial stability.

How are my rates calculated?

Rates for water service charges are billed monthly, and are made of two components, a variable volumetric charge and a fixed service charge.

The volumetric charge is based on the amount of water served to a property in hundred cubic feet (HCF) or one unit of water billed. One HCF equals 748 gallons. There are three proposed residential tiered rates, which impose higher rates as water consumption increases. The purpose of increasing tiered rates is to encourage water conservation. The costs are designed to recover Casitas' fixed costs to store, treat, and deliver water. They are also meant to fund Casitas' water conservation efforts.

Rates for service charges are established on the basis of the size of the water meter serving a property, and use associated with the type of customer. These rates are calculated to recover the District's fixed costs of repairs and replacement of facilities, meter reading, billing, and customer service.

Together, the two rate components are made to proportionately allocate the costs of water service among Casitas' customers.



1055 Ventura Avenue
Oak View, California 93022
www.casitaswater.org
(805) 649-2251



PUBLIC HEARING

Date: May 10, 2017
Time: 3:00 p.m.
Location: Oak View Resource Center
Gymnasium
555 Mahoney Avenue
Oak View, California 93022

NOTICE OF PROPOSED RATE CHANGES

The Board of Directors for Casitas Municipal Water District will hold a public hearing at the time, date, and location specified above to consider a proposed five-year schedule of increases to the District's water charges.

If adopted, proposed rate increases and charges will become effective on July 1, 2017; July 1, 2018; July 1, 2019; July 1, 2020; July 1, 2021, respectively. The public hearing will be conducted per California Constitution Article XIII D, Section 6 (also known as "Proposition 218"). This notice is being sent to all property owners and customers whose parcels receive water service from Casitas, who would be impacted by imposed rates and charges.

All members of the public are invited to attend the public hearing. Additionally, under California State Law, all Casitas' property owners and customers of record may submit a written protest to the proposed rate changes. Only one protest per parcel is permitted. Please refer to the "How Can I Participate?" section of this document for instructions on submitting a formal written protest against the proposed action. You may also appear at the public hearing at the date and time specified above. More information, including a rate estimator, is available online at: www.casitaswater.org.

Este documento contiene información importante sobre sus tarifas de agua. Para más información ó traducción, visite www.casitaswater.org o llame al (805) 649-2251.

Why have I received this notice?

Casitas Municipal Water District is proposing changes to its water rates. District customers who may be impacted by these changes are receiving this notice. The District is dedicated to providing safe, reliable, cost-effective water deliveries at rates that do not exceed the cost of service. We are seeking feedback to help our Board of Directors make the right choice for the District and its ratepayers.

Why are rate increases needed?

According to the rate study, there are a few key issues that are dramatically impacting CMWD's financial outlook, forcing the District to consider rate increases to generate more revenue from water deliveries.



External Escalating Costs

Operating expenses, such as the electricity needed to pump water through the delivery system and chemicals to treat it, continue to rise.



Maintenance and repairs

As infrastructure ages, the system of pipelines and facilities needed to deliver water safely and reliably requires regular preventative maintenance and upgrades to keep it functioning and avoid more expensive emergency repairs.



Drought

Customers have done a great job of conserving water over the last five years of historic drought, but it is impacting finances. The hidden cost of drought is lost revenues, which is depleting Casitas' reserves.



Fiscal Responsibility

Current rates are near the lowest in Southern California, but unfortunately these rates are not sustainable. It has been four years since Casitas last had a rate increase. Casitas is committed to economical pricing and intends to maintain rates that are competitive with other regional water providers.

Did you know?

As a public agency, the district cannot earn a profit from the services it provides, and must charge no more than the actual costs associated with providing services to its customers.

Proposed Rates

Residential

SERVICE CHARGE						
Meter Size	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
5/8"-3/4"	\$23.34	\$28.75	\$32.20	\$36.06	\$40.39	\$45.24
1"	\$34.86	\$47.91	\$53.66	\$60.10	\$67.31	\$75.39
1-1/2"	\$63.66	\$95.82	\$107.32	\$120.20	\$134.62	\$150.77
2"	\$98.22	\$153.31	\$171.71	\$192.32	\$215.40	\$241.25
2-1/2"	\$150.05	\$255.52	\$286.18	\$320.52	\$358.98	\$402.06
3"	\$207.65	\$335.37	\$375.61	\$420.68	\$471.16	\$527.70
4"	\$368.92	\$603.67	\$676.11	\$757.24	\$848.11	\$949.88

VOLUMETRIC RATES (PUMPED)								
Tier	TIER WIDTH		Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
	Current	Proposed						
Tier 1	0-10	0-10	\$0.88	\$0.96	\$1.08	\$1.21	\$1.36	\$1.52
Tier 2	11-17	11-50	\$1.34	\$1.46	\$1.64	\$1.84	\$2.06	\$2.31
Tier 3	18-50	51+	\$1.77	\$2.36	\$2.64	\$2.96	\$3.32	\$3.72
Tier 4	51+		\$2.61	—	—	—	—	—

VOLUMETRIC RATES (GRAVITY)								
Tier	TIER WIDTH		Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
	Current	Proposed						
Tier 1	0-10	0-10	\$0.60	\$0.49	\$0.55	\$0.62	\$0.69	\$0.77
Tier 2	11-17	11-50	\$1.06	\$0.99	\$1.11	\$1.24	\$1.39	\$1.56
Tier 3	18-50	51+	\$1.49	\$1.89	\$2.12	\$2.37	\$2.65	\$2.97
Tier 4	51+		\$2.33	—	—	—	—	—

Other

SERVICE CHARGE						
Meter Size	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
5/8"-3/4"	\$23.34	\$20.54	\$23.00	\$25.76	\$28.85	\$32.31
1"	\$34.86	\$34.24	\$38.35	\$42.95	\$48.10	\$53.87
1-1/2"	\$63.66	\$68.47	\$76.69	\$85.89	\$96.20	\$107.74
2"	\$98.22	\$109.55	\$122.70	\$137.42	\$153.91	\$172.38
2-1/2"	\$150.05	\$182.59	\$204.50	\$229.04	\$256.52	\$287.30
3"	\$207.65	\$239.65	\$268.41	\$300.62	\$336.69	\$377.09
4"	\$368.92	\$431.36	\$483.12	\$541.09	\$606.02	\$678.74

VOLUMETRIC RATES (PUMPED)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$1.62	\$1.46	\$1.64	\$1.84	\$2.06	\$2.31

VOLUMETRIC RATES (GRAVITY)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$1.34	\$0.99	\$1.11	\$1.24	\$1.39	\$1.56

Agriculture Domestic

SERVICE CHARGE						
Meter Size	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
1"	\$34.86	\$34.78	\$38.95	\$43.62	\$48.85	\$54.71
1-1/2"	\$63.66	\$69.57	\$77.92	\$87.27	\$97.74	\$109.47
2"	\$98.22	\$111.30	\$124.66	\$139.62	\$156.37	\$175.13
2-1/2"	\$150.05	\$185.51	\$207.77	\$232.70	\$260.62	\$291.89
3"	\$207.65	\$243.48	\$272.70	\$305.42	\$342.07	\$383.12
4"	\$368.92	\$438.26	\$490.85	\$549.75	\$615.72	\$689.61

VOLUMETRIC RATES (PUMPED)								
Tier	TIER WIDTH		Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
	Current	Proposed						
Tier 1	0-10	0-10	\$0.88	\$0.96	\$1.08	\$1.21	\$1.36	\$1.52
Tier 2	11-17	11-50	\$1.34	\$1.46	\$1.64	\$1.84	\$2.06	\$2.31
Tier 3	18-50	51+	\$1.77	\$1.09	\$1.22	\$1.37	\$1.53	\$1.71
Tier 4	51+		\$0.90	—	—	—	—	—

VOLUMETRIC RATES (GRAVITY)								
Tier	TIER WIDTH		Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
	Current	Proposed						
Tier 1	0-10	0-10	\$0.60	\$0.49	\$0.55	\$0.62	\$0.69	\$0.77
Tier 2	11-17	11-50	\$1.06	\$0.99	\$1.11	\$1.24	\$1.39	\$1.56
Tier 3	18-50	51+	\$1.49	\$0.62	\$0.69	\$0.77	\$0.86	\$0.96
Tier 4	51+		\$0.62	—	—	—	—	—

Agriculture

SERVICE CHARGE						
Meter Size	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
1"	\$34.86	\$43.28	\$48.47	\$54.29	\$60.80	\$68.10
1-1/2"	\$63.66	\$86.56	\$96.95	\$108.58	\$121.61	\$136.20
2"	\$98.22	\$138.50	\$155.12	\$173.73	\$194.58	\$217.93
2-1/2"	\$150.05	\$230.84	\$258.54	\$289.56	\$324.31	\$363.23
3"	\$207.65	\$302.97	\$339.33	\$380.05	\$425.66	\$476.74
4"	\$368.92	\$545.35	\$610.79	\$684.08	\$766.17	\$858.11
6"	\$812.42	\$1,125.33	\$1,260.37	\$1,411.61	\$1,581.00	\$1,770.72

VOLUMETRIC RATES (PUMPED)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$0.90	\$1.09	\$1.22	\$1.37	\$1.53	\$1.71

VOLUMETRIC RATES (GRAVITY)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$0.62	\$0.62	\$0.69	\$0.77	\$0.86	\$0.96

Commercial

SERVICE CHARGE						
Meter Size	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
5/8"-3/4"	\$23.34	\$22.97	\$25.73	\$28.82	\$32.28	\$36.15
1"	\$34.86	\$38.28	\$42.87	\$48.01	\$53.77	\$60.22
1-1/2"	\$63.66	\$76.56	\$85.75	\$96.04	\$107.56	\$120.47
2"	\$98.22	\$122.50	\$137.20	\$153.66	\$172.10	\$192.75
2-1/2"	\$150.05	\$204.16	\$228.66	\$256.10	\$286.83	\$321.25
3"	\$207.65	\$267.96	\$300.12	\$336.13	\$376.47	\$421.65
4"	\$368.92	\$482.33	\$540.21	\$605.04	\$677.64	\$758.96
6"	\$812.42	\$995.29	\$1,114.72	\$1,248.49	\$1,398.31	\$1,566.11

VOLUMETRIC RATES (PUMPED)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$1.62	\$1.46	\$1.64	\$1.84	\$2.06	\$2.31

VOLUMETRIC RATES (GRAVITY)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$1.34	\$0.99	\$1.11	\$1.24	\$1.39	\$1.56

Resale

SERVICE CHARGE						
Meter Size	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
5/8"-3/4"	\$23.34	\$25.27	\$28.30	\$31.70	\$35.50	\$39.76
1"	\$34.86	\$42.12	\$47.17	\$52.83	\$59.17	\$66.27
1-1/2"	\$63.66	\$84.24	\$94.35	\$105.67	\$118.35	\$132.55
2"	\$98.22	\$134.78	\$150.95	\$169.06	\$189.35	\$212.07
2-1/2"	\$150.05	\$224.63	\$251.59	\$281.78	\$315.59	\$353.46
3"	\$207.65	\$294.83	\$330.21	\$369.84	\$414.22	\$463.93
4"	\$368.92	\$530.70	\$594.38	\$665.71	\$745.60	\$835.07
6"	\$812.42	\$1,095.09	\$1,226.50	\$1,373.68	\$1,538.52	\$1,723.14
12"	\$13,741.69	\$6,469.48	\$7,245.82	\$8,115.32	\$9,089.16	\$10,179.86
18"	\$23,561.61	\$12,026.38	\$13,469.55	\$15,085.90	\$16,896.21	\$18,923.76

VOLUMETRIC RATES (PUMPED)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$1.49	\$1.46	\$1.64	\$1.84	\$2.06	\$2.31

VOLUMETRIC RATES (GRAVITY)						
Rate	Current	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Uniform Rate	\$0.83	\$0.99	\$1.11	\$1.24	\$1.39	\$1.56

How can I participate?

We want you to join in the conversation and make your voice heard, as part of a collaborative process between the District and its water users to determine the best way forward.



Call or Visit. The Water Rate Study and other information on the proposed adjustments and increases are available for review at Casitas' office and on our website: www.casitaswater.org. If you have additional questions, please call the District office and ask for Ron Merckling, Public Affairs Manager at (805) 649-2251 Extension 118.

Write. Written protests may be mailed or delivered in-person to Casitas Municipal Water District, Attn: Clerk to the Board, 1055 Ventura Avenue, California 93022 using the form below:

First Name:	Last Name:	
Street Address:	City:	Zip Code:
Water Account #	Or, APN #	

Please check one:

I am the property owner I am the customer of record

I oppose Casitas Municipal Water District's proposed water rate/charge increase.

I declare under penalty of perjury under the laws of the State of California that the foregoing information is true and accurate and contains no omissions of materials or facts.

Signature:	Date:
Name (Printed—must be legible):	

Emailed or other electronically sent protests will not be classified as formal written protests. All written protests must be received prior to the conclusions of the public hearing. There will be only one protest per parcel allowed.



Attend the Public Hearing. Written protests may also be submitted at the Public Hearing **May 10, 2017**, at **3:00 p.m.** in the **gymnasium** at the **Oak View Resource Center** at **555 Mahoney Avenue, Oak View, California**. All members of the public will have an opportunity to speak and give testimony regarding the proposed water and rate adjustments at the Public Hearing; however, only written protests will count toward a majority protest. Written protests must be received before the conclusion of the Public Hearing.

Public Hearing Process. At the time of the Public Hearing, the Board will hear and consider all protests and objections to the proposed increases. **Protests submitted by email or other electronic means do not count as formal written protests; oral comments do not qualify as a formal protest unless accompanied by a written protest.** Upon conclusion of the hearing, the Board will evaluate the protests and consider the adoption of the proposed rates and charges. The Board is authorized to adopt proposed rates and charges if written protests against the proposed rates and charges, as outlined above, do not represent at least a majority of owners or customers of identified parcels impacted by proposed rates and charges. If adopted as proposed, the increased rates and charges become effective on **July 1, 2017, July 1, 2018, July 1, 2019, July 1, 2020 and July 1, 2021.**

Public Hearing Notification and Proof of Publication



NOTICE OF PUBLIC HEARING

Casitas Municipal Water District will hold a Public Hearing on Wednesday, June 23, 2021 at 5:00 p.m. via conference call and Zoom meeting on the Water Shortage Contingency Plan and 2020 Urban Water Management Plan. At the same meeting, the Board will also consider adoption of these two documents in compliance with Water Code Section 10642. Call-in information will be posted on the District's website for the Regular Board meeting at: <https://www.casitaswater.org/about-us/board-of-directors/-folder-125>

The Water Shortage Contingency Plan is included in Section 8 of the 2020 Urban Water Management Plan, which is available to review on the District's website at: <https://www.casitaswater.org/about-us/engineering/engineering-reports-and-master-plans>

Comments or questions may be directed to Julia Aranda, PE, Engineering Manager at jaranda@casitaswater.com or 805.649.2251 x107.

PROOF OF PUBLICATION
(SECTION 2015.5 CCP)

STATE OF CALIFORNIA
COUNTY OF VENTURA

I am a citizen of the United States and a resident of the aforesaid County; I am over the age of eighteen, and not interested in the above entitled matter. I am now, and at all times embraced in the publication herein mentioned, was a principal clerk of the printers and publishers of THE OJAI VALLEY NEWS, a newspaper of general circulation, printed and published every Friday at Ojai in the above-named County and State; that the Legal Advertisement

LEGAL NOTICE

of which the annexed clipping is a true printed copy, was published in the above-named newspaper, and not in any supplement thereof, on the following dates, to-wit:

June 4, 11, 2021

that said newspaper was duly and regularly ascertained and established newspaper of general circulation by Decree entered in the Superior Court of the County of Ventura, State of California, on February 14, 1958, under the provision of Chapter 1, Division 7, Title 1 of the California Code of the State of California. I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Tori Behar
Ojai Valley News



Dated this 11th Day of June
2021 at Ojai Valley News, Ventura County, California

OVN06-01-2021
Published Ojai Valley News
June 4, 11, 2021

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VENTURA COUNTY
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JUN 15 2021

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1055 N VENTURA AVE

OAK VIEW, CA 93022

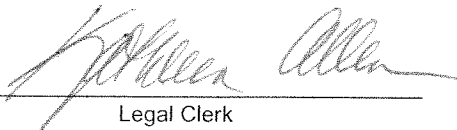
State of California)
))
County of Ventura)

I hereby certify that the Ventura County Star Newspaper has been adjudged a newspaper of general circulation by the Superior Court of California, County of Ventura within the provisions of the Government Code of the State of California, printed in the City of Camarillo, for circulation in the County of Ventura, State of California; that I am a clerk of the printer of said paper; that the annexed clipping is a true printed copy and publishing in said newspaper on the following dates to wit:

06/04/2021, 06/11/2021

I certify under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct.

Dated this June 11, 2021; in Green Bay, Wisconsin, County of Brown



Legal Clerk

NOTICE OF PUBLIC HEARING

Casitas Municipal Water District will hold a Public Hearing on Wednesday, June 23, 2021 at 5:00 p.m. via conference call and Zoom meeting on the Water Shortage Contingency Plan and 2020 Urban Water Management Plan. At the same meeting, the Board will also consider adoption of these two documents in compliance with Water Code Section 10642. Call-in information will be posted on the District's website for the Regular Board meeting at: <https://www.casitaswater.org/about-us/board-of-directors/-folder-125>

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Publication Cost: \$276.20
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PO #:

of Affidavits 1



Water Shortage Contingency Plan and Draft 2020 Urban Water Management Plan

**Board of Directors
June 23, 2021**

Agenda

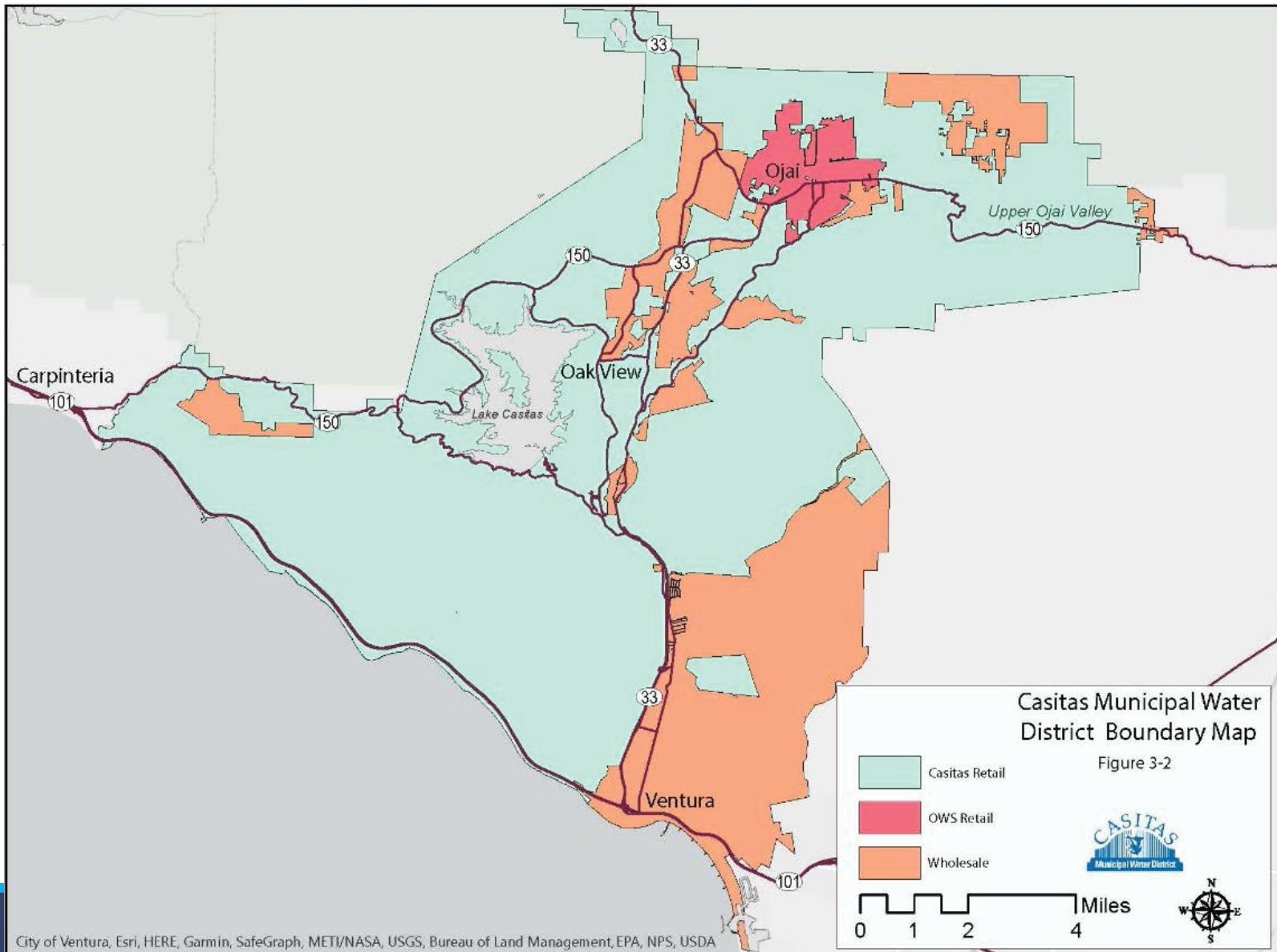
- Population
- 2020 Actual Demands
- Projected Supplies and Demands
- SB X7-7 Compliance
- Water Shortage Contingency Plan Levels





POPULATION





POPULATION

Population - Current and Projected					
	2020	2025	2030	2035	2040
Casitas Wholesale	45,964	46,828	47,709	48,606	49,520
Casitas Retail	11,042	11,101	11,161	11,221	11,281
Ojai Retail	6,712	6,773	6,834	6,895	6,957
TOTAL	63,718	64,702	65,704	66,722	67,758





2020 ACTUAL AND PROJECTED DEMANDS



SUMMARY OF DEMANDS

	2020 Actual	2025-2040 Projected
Casitas Wholesale	3,095	4,356
Casitas Retail	7,705	10,169
Ojai Retail	1,708	1,850
Ojai Demands from Casitas System	(369)	(461)
TOTAL	12,139	15,914





PROJECTED SUPPLIES



PROJECTED WATER SUPPLY – Casitas Wholesale and Retail

Description	Source	Reasonably Available Volume Casitas Wholesale	Reasonably Available Volume Casitas Retail	TOTAL
Surface water	Lake Casitas	4,460	10,405	14,865
Groundwater	Mira Monte Well	43	102	145
Purchased or Imported Water	Ven-SB County	600	1,400	2,000
	TOTAL	5,103	11,907	17,010



PROJECTED WATER SUPPLY – Ojai Retail

Description	Source	Reasonably Available Volume
Groundwater	Ojai Wellfield	2,300
Surface Water	Lake Casitas	461
	TOTAL	2,761



CASITAS WHOLESALÉ – Normal Year Supply and Demand

Submittal Table 7-2 Wholesale: Normal Year Supply and Demand Comparison, Casitas

	2025	2030	2035	2040
Supply totals	5,103	5,103	5,103	5,103
Demand totals	4,356	4,356	4,356	4,356
Difference	747	747	747	747



CASITAS WHOLESALE – Single Dry Year

Submittal Table 7-3 Wholesale: Single Dry Year Supply and Demand Comparison, Casitas

	2025	2030	2035	2040
Supply totals	5,103	5,103	5,103	5,103
Demand totals	4,356	4,356	4,356	4,356
Difference	747	747	747	747



CASITAS WHOLESALE – Multiple Dry Years

Submittal Table 7-4 Wholesale: Multiple Dry Years Supply and Demand Comparison

		2025	2030	2035	2040
First year	Supply totals	5,103	5,103	5,103	5,103
	Demand totals	4,356	4,356	4,356	4,356
	Difference	747	747	747	747
Second year	Supply totals	5,103	5,103	5,103	5,103
	Demand totals	4,356	4,356	4,356	4,356
	Difference	747	747	747	747
Third year	Supply totals	5,028	5,028	5,028	5,028
	Demand totals	4,356	4,356	4,356	4,356
	Difference	672	672	672	672
Fourth year	Supply totals	4,578	4,578	4,578	4,578
	Demand totals	4,356	4,356	4,356	4,356
	Difference	222	222	222	222
Fifth year	Supply totals	4,803	4,803	4,803	4,803
	Demand totals	3,485	3,485	3,485	3,485
	Difference	1,318	1,318	1,318	1,318



CASITAS RETAIL – Normal Year Supply and Demand

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison, Casitas Retail

	2025	2030	2035	2040
Supply totals	11,907	11,907	11,907	11,907
Demand totals	10,169	10,169	10,169	10,169
Difference	1,738	1,738	1,738	1,738



CASITAS RETAIL – Single Dry Year

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison, Casitas Retail

	2025	2030	2035	2040
Supply totals	11,907	11,907	11,907	11,907
Demand totals	10,169	10,169	10,169	10,169
Difference	1,738	1,738	1,738	1,738



CASITAS RETAIL – Multiple Dry Years

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison, Casitas Retail

		2025	2030	2035	2040
First year	Supply totals	11,907	11,907	11,907	11,907
	Demand totals	10,169	10,169	10,169	10,169
	Difference	1,738	1,738	1,738	1,738
Second year	Supply totals	11,907	11,907	11,907	11,907
	Demand totals	10,169	10,169	10,169	10,169
	Difference	1,738	1,738	1,738	1,738
Third year	Supply totals	11,732	11,732	11,732	11,732
	Demand totals	10,169	10,169	10,169	10,169
	Difference	1,563	1,563	1,563	1,563
Fourth year	Supply totals	10,682	10,682	10,682	10,682
	Demand totals	10,169	10,169	10,169	10,169
	Difference	513	513	513	513
Fifth year	Supply totals	11,207	11,207	11,207	11,207
	Demand totals	8,135	8,135	8,135	8,135
	Difference	3,072	3,072	3,072	3,072



OJAI RETAIL – Normal Year Supply and Demand

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison, Ojai Retail

	2025	2030	2035	2040
Supply totals	2,761	2,761	2,761	2,761
Demand totals	1,850	1,850	1,850	1,850
Difference	911	911	911	911



OJAI RETAIL – Single Dry Year

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison, Ojai Retail

	2025	2030	2035	2040
Supply totals	2,761	2,761	2,761	2,761
Demand totals	1,850	1,850	1,850	1,850
Difference	911	911	911	911



OJAI RETAIL – Multiple Dry Years

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison, Ojai Retail

		2025	2030	2035	2040
First year	Supply totals	2,761	2,761	2,761	2,761
	Demand totals	1,850	1,850	1,850	1,850
	Difference	911	911	911	911
Second year	Supply totals	2,761	2,761	2,761	2,761
	Demand totals	1,850	1,850	1,850	1,850
	Difference	911	911	911	911
Third year	Supply totals	2,761	2,761	2,761	2,761
	Demand totals	1,850	1,850	1,850	1,850
	Difference	911	911	911	911
Fourth year	Supply totals	2,169	2,169	2,169	2,169
	Demand totals	1,850	1,850	1,850	1,850
	Difference	319	319	319	319
Fifth year	Supply totals	2,169	2,169	2,169	2,169
	Demand totals	1,480	1,480	1,480	1,480
	Difference	689	689	689	689





SB X7-7 COMPLIANCE



SB X7-7 BASELINES

Casitas System				
Baseline Period	Start Year	End Year	Average baseline, GPCD	Confirmed Target, GPCD
10 year	1999	2008	369	295
5 year	2005	2009	355	
Ojai System				
Baseline Period	Start Year	End Year	Average baseline, GPCD	Confirmed Target, GPCD
10 year	1999	2008	322	257
5 year	2004	2008	316	



SB X7-7 COMPLIANCE

	2020 Confirmed Target GPCD	2020 Actual GPCD
Casitas System	295	195
Ojai System	257	209





WATER SHORTAGE CONTINGENCY PLAN (WSCP)



Submittal Table 8-1 Water Shortage Contingency Plan Levels

Shortage Level	Percent Shortage Range	Shortage Response Actions
1	Up to 10%	Water Conservation: Voluntary conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP
2	Up to 20%	Water Shortage Warning: Mandatory conservation measures to reduce water usage by up to 20%. Follow recommended response actions in most recently adopted WEAP
3	Up to 30%	Water Shortage Eminent: Mandatory conservation measures to reduce water usage by up to 30%. Follow recommended response actions in most recently adopted WEAP
4	Up to 40%	Severe Water Shortage: Mandatory conservation measures to reduce water usage by up to 40%. Follow recommended response actions in most recently adopted WEAP
5	Up to 50%	Critical Water Shortage: Mandatory conservation measures to reduce water usage by up to 50%. Follow recommended response actions in most recently adopted WEAP
6	>50%	Catastrophic Water System Emergency: Limited to no water can be supplied due to infrastructure damage or failure. Follow recommended response actions in most recently adopted Emergency Response Plan.

ACTION ITEMS

- Hold public hearing on WSCP and 2020 UWMP
- Adopt WSCP and 2020 UWMP (Resolution) (as prepared or as modified)
- Upload 2020 UWMP to DWR portal no later than 7/1/21
- Send hardcopies to Cities, County, and California State Library within 30 days of adoption
- Upload 2020 UWMP to District website



QUESTIONS?

