

5.5 Total Sustainable Water Supply

Total Sustainable Water Supply is the sum of the previously discussed sources and includes: the sustainable groundwater yield from the Main Basin, the State Water Project future average delivery, Lake Del Valle future average yield, recycled water use, 2,000 acre-feet annually of BBID water per year and, in drought years, the ability to withdraw from banked supplies in Semitropic and Cawelo. Note that since the overall banking supply is “0” (amount banked during wet years and withdrawn during dry years), these values are not included in Sustainable Yield calculations (see Chapter 7.2, below).

These sustainable water supply quantities are long-term average quantities and in dry years the supply from surface water sources will be greatly reduced. Zone 7 Water Agency stores water from our surface water sources in wet years when the SWP and LDV supplies are above average. Then in dry years, Zone 7 pumps more of the stored water out of the Main Basin or from Zone 7’s Semitropic Water Storage District or Cawelo accounts. Zone 7 is capable of providing 100% of its contracted water obligations even in the event of the worst case multi-year drought. Doing so requires drawdown of the groundwater basin and pumpback from the Semitropic Water Storage District (see Section 7.2). To the extent that conservation can reduce demand during a drought, the groundwater basin and pumpback from Semitropic, can sustain the Valley for even longer periods than it could under a 100% demand scenario.

Table 4. Zone 7 Total Annual Average Supply & Current Sustainable Supply

Source: Zone 7 Annual Review of the Sustainable Water Supply – July Update

SOURCE	Acre-Feet Annually						
	Year	CURRENT SUSTAINABLE SUPPLY	2010	2015	2020	2025	2030 ²
Groundwater Supply		13,400	13,250	13,300	13,400	13,600	13,750
State Water Project ¹		60,900	63,700	62,900	60,900	60,900	60,900
Lake Del Valle ³		9,300	8,400	8,900	9,300	9,900	12,500
Recycled Water		2,800	3,500	4,050	4,500	4,500	4,500
Byron Bethany Irrigation District (BBID) ⁴		2,000	2,000	2,000	2,000	2,000	2,000
TOTAL ACRE-FEET SUPPLY		88,400	90,850	91,150	90,100	90,900	93,650

¹ Zone 7 submits annual delivery requests to State Water Project.

² Chain of Lakes becomes available in 2030, adding approximately 3,000 acre-feet of run-off.

³ Locally conserved water from the Del Valle Watershed

⁴ Byron Bethany Irrigation District represents a long-term water transfer (see Section 7.2)

5.6 Wholesale Water

Zone 7 is the area water wholesaler. There are currently no opportunities for Zone 7 to purchase wholesale water from other water wholesalers as a potential source of supply.