

IWVGA Sustainable Management Actions Modeling Scenario Matrix

	Scenario 1^{1, 2}	Scenario 2¹	Scenario 3: White Paper¹	Scenario 4: Water Buyout^{1, 2}	Scenario 5: Immediate Halt¹	Scenario 6.1^{1, 2, 3, 4}	Scenario 6.2^{1, 2, 3}
<u>Parameter</u>							
Pumping Summary	20-year annual ramp down to 2040. “Cliff” pumping for selected agriculture. Pumping at 7,691 AFY after 2040.	Current pumping is maintained until 2025. Step-downs in pumping in 2025 and 2030. Pumping at 10,505 after 2030.	Current pumping to 2030. 10-year annual ramp down from 2030 to 2040. Pumping at 7,650 AFY after 2040.	Current pumping is maintained until 2022. In 2022, six-year pumping ramp down to 12,000 AFY begins. Pumping at 12,000 AFY after 2028.	Current pumping is maintained until 2022. In 2022, zero pumping by agriculture and industry. Pumping at 10,019 AFY after 2022.	Domestic/Municipal/Navy pumping continues. Eligible Agriculture and Industry allocated portion of a pool of water to be pumped prior to 2040. Pumping at 11,252 AF in 2040.	Domestic/Municipal/Navy pumping continues. Eligible Agriculture and Industry allocated portion of a pool of water to be pumped prior to 2040. Pumping at 11,252 AF in 2040.
Imported Water	Storage and recovery project in El Paso begins in 2030.	Recharge begins in 2030 in primary basin. Additional direct use project replaces some pumping.	Direct use of imported water could increase supplies.	Recharge begins in 2035 near Inyokern.	Recharge begins in 2035 near Inyokern.	Recharge begins in 2035 near Inyokern.	Recharge begins in 2035 near Inyokern.
<u>Results</u>							
Loss of Storage ⁵	225,000 AF	250,000 AF	395,000 AF	214,000 AF	162,000 AF	126,000	213,500
Shallow Well Impacts (2020 to 2040) ⁶	32	33	72	31	13	To Be Determined ⁷	To Be Determined ⁷
Mitigation Costs (\$75,000 per well)	\$2,400,000	\$2,475,000	\$5,400,000	\$2,325,000	\$975,000	To Be Determined	To Be Determined

Notes

- 1. Recycled water used for both recharge and direct use in all scenarios with the exception of Scenario 3 which did not have recycled water recharge.
- 2. Lease market assumed.
- 3. Pumping gradually increases from 2040 to 2070 to allow for growth in the water district.
- 4. Losses due to evapotranspiration addressed in this scenario by increasing the volume of imported water recharge.
- 5. Approximate value.
- 6. Additional well impacts could be associated with degraded water quality.
- 7. Expected to be similar to, or less than, Scenario 4 impacts.