

Scenario 6.2 Shallow Well Impact Results

Agenda Item 3bi



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Scenario 6 Recap

➤ Scenario 6 Objectives:

- Create an allocation and management plan based on 2010-2014 pumping history and the highest beneficial uses of groundwater
- Maintain a similar cumulative loss of groundwater in storage as in Scenario 4 (Water Buyout) by replicating the total pumping volume used in Scenario 4
- Provide pumping “blocks” to non-domestic pumpers (Ag and Industria) approximately equivalent to total non-domestic pumping in Scenario 4
 - More practical and feasible than the “ramp-down” in Scenario 4
- Optimize pumping locations to minimize future large drawdowns



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Scenario 6 Recap

Domestic Group

➤ Starting in February 2020, allocation equal to lowest annual pumping from 2010-2014

➤ Modeled pumping for 2020-2070 is equal to allocation, except for allowing for small growth in IWWWD

➤ 2020 Domestic Group Starting Pumping: 10,338 AFY

Non-domestic group

➤ Pumpers have no allocations but are allowed to pump up to an assigned portion of a non-domestic pool/block volume.

➤ Total non-domestic pool/block volume approximately equal to total non-domestic pumping in Scenario 4 over 8 years (2 years of current pumping and 6 years of “ramp-down” pumping)

➤ Agricultural pumpers: assigned portion of the pool volume is distributed proportionate to existing information on irrigated acres from 2010-2014

➤ SVM (industrial): assigned portion of the pool volume is distributed proportionate to SVM’s lowest pumping in 2010-2014

➤ All pumping from the non-domestic pool is required to cease by **2040**

➤ Non-Domestic Group Pool Volume: 63,836 AF

Domestic Group	Non-Domestic Group
Kern County	Meadowbrook
City of Ridgecrest	Mojave
IWWWD	SVM (industrial)
Inyokern CSD	Other small ag. (Quist, Sierra Shadows, Amberglow, Terese, Hickie, Bellino)
SVM (Trona only)	
Mutuals and domestic/private wells	
Navy	



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Shallow Well Impacts Summary Table

	Cumulative Well Impact				
	GA#3	GA#4	GA#5	GA#6.1	GA#6.2
2025	21	19	12	19	19
2030	50	26	13	22	22
2040	72	31	13	22	22
2070	73	36	15	22	22

Note: Historically (1984-2018), an estimated 91 shallow wells were impacted.



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