

Groundwater In Storage

Source	Year	Useable Storage	Assumptions
Kunkel and Chase	1969	720,000 AF	<i>Estimated Ground-Water Storage Capacity</i> 100 feet below 1954 GWL underlying 64,000 acres
Dutcher and Moyle	1973	2,200,000 AF	<i>Estimated Usable Ground-Water Storage Capacity</i> 200 feet of saturated thickness
USBR	1993	2,370,000 AF	<i>Extractable Groundwater Volumes</i> 200 feet of dewatering

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Groundwater In Storage (Additional Information)

1. No new technical studies have been performed to estimate the “Ground-water Storage Capacity” or the “Extractable Groundwater Volumes”.
2. USBR, “realistic” dewatering depth is about 200 feet and available dewatering volume is about 2,370,000 AF in 1993.
3. If we assume “minimal” net natural replenishment and annual overdraft from 1993 to 2018 (26 years) of about 25,000 AFY, then the extracted volume is about 650,000 AF, and the 2019 estimated available “dewatering volume” (200 feet) in 2019 is about 1,700,000 AF (2,370,000 – 650,000).
4. This estimated 2019 available “dewatering volume” could be off by several 100,000 AF, high or low.
5. Baseline Model Run showed that in approximately 50 years, at uncontrolled pumping, existing wells will be affected by reduced water levels and reduced water in storage (a dewatering volume of about 1,500,000 AF).