Sierra Valley Groundwater Management District

Board of Directors Meeting

February 19, 2024

LARRY WALKER ASSOCIATES
science | policy | solutions

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Photo: Gus Tolley

GSP Annual Reports (23 CCR §356.2)

- Due to DWR April 1 every year
- Summarizes hydrologic conditions and storage changes over the preceding water year
- Describes progress towards plan implementation

Annual Report WY 2023: Oct 1, 2022 - Sep 30, 2023

WY 2023 GSP Annual Report Conditions Summary

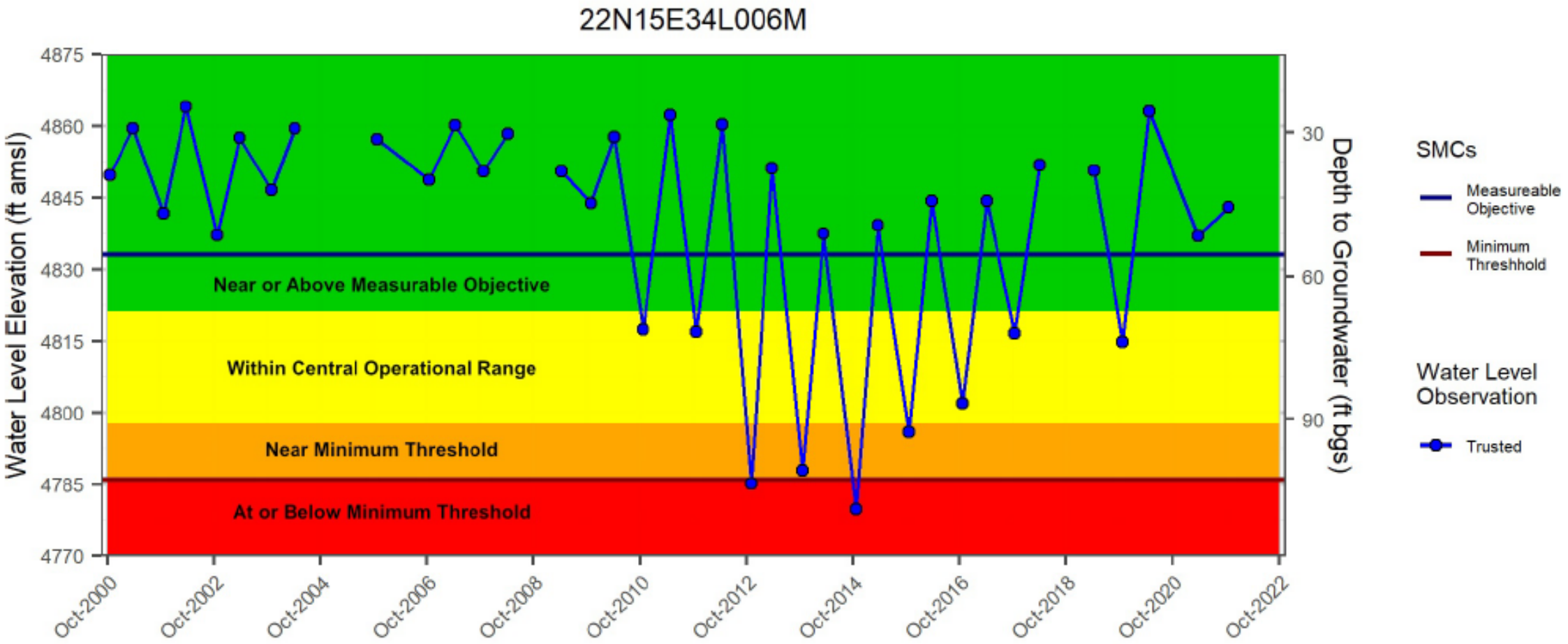
Average change in water levels (upper aquifer):
+19.06 ft

Average change in water levels (lower aquifer):
+17.84 ft

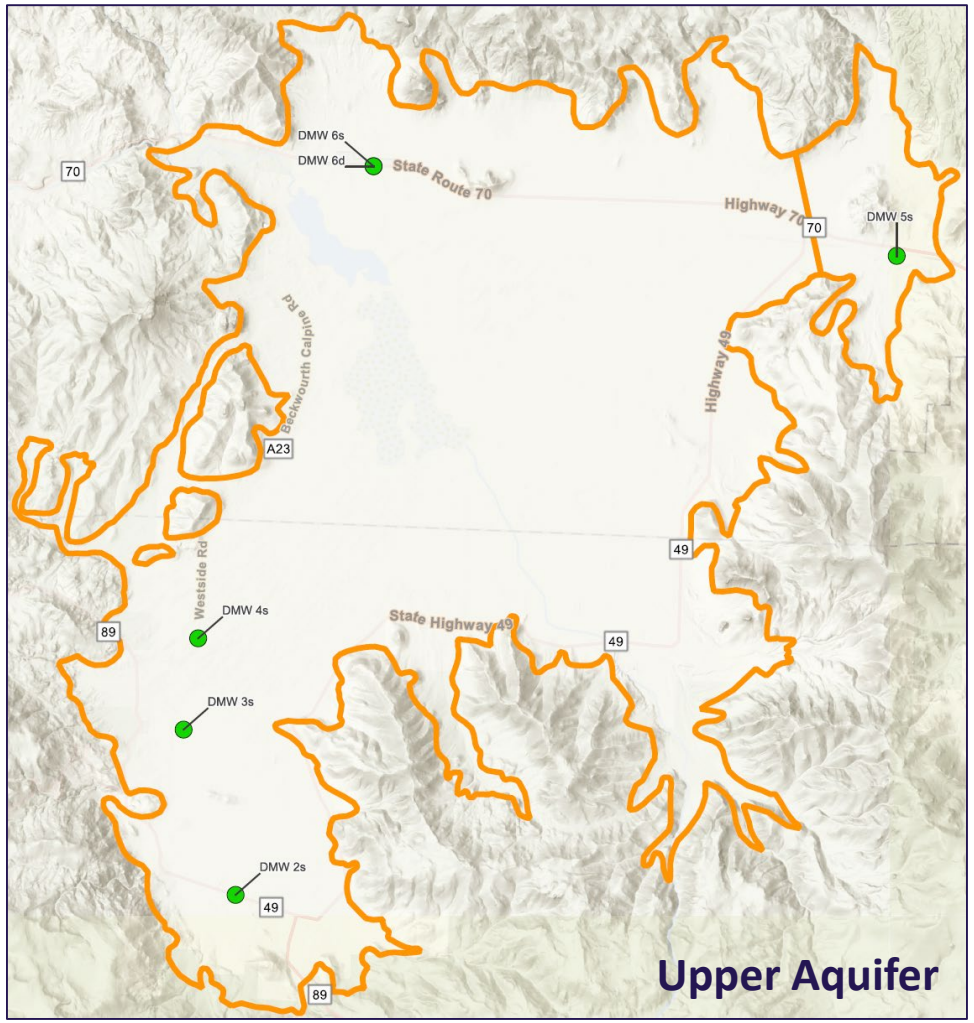
Total groundwater extractions:
6,172 AF

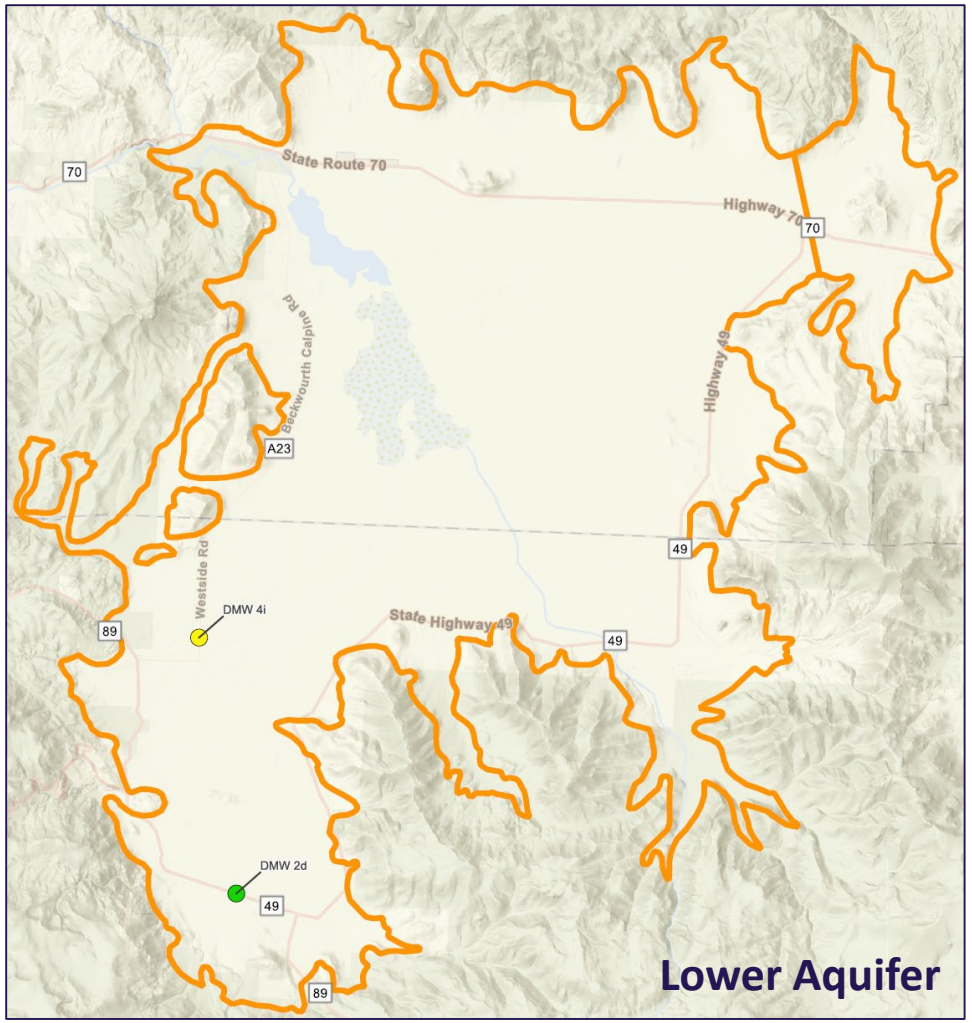
Estimated Change in Storage:
+24,245 AF

SMC Status Example



Spring 2023 SMC Status





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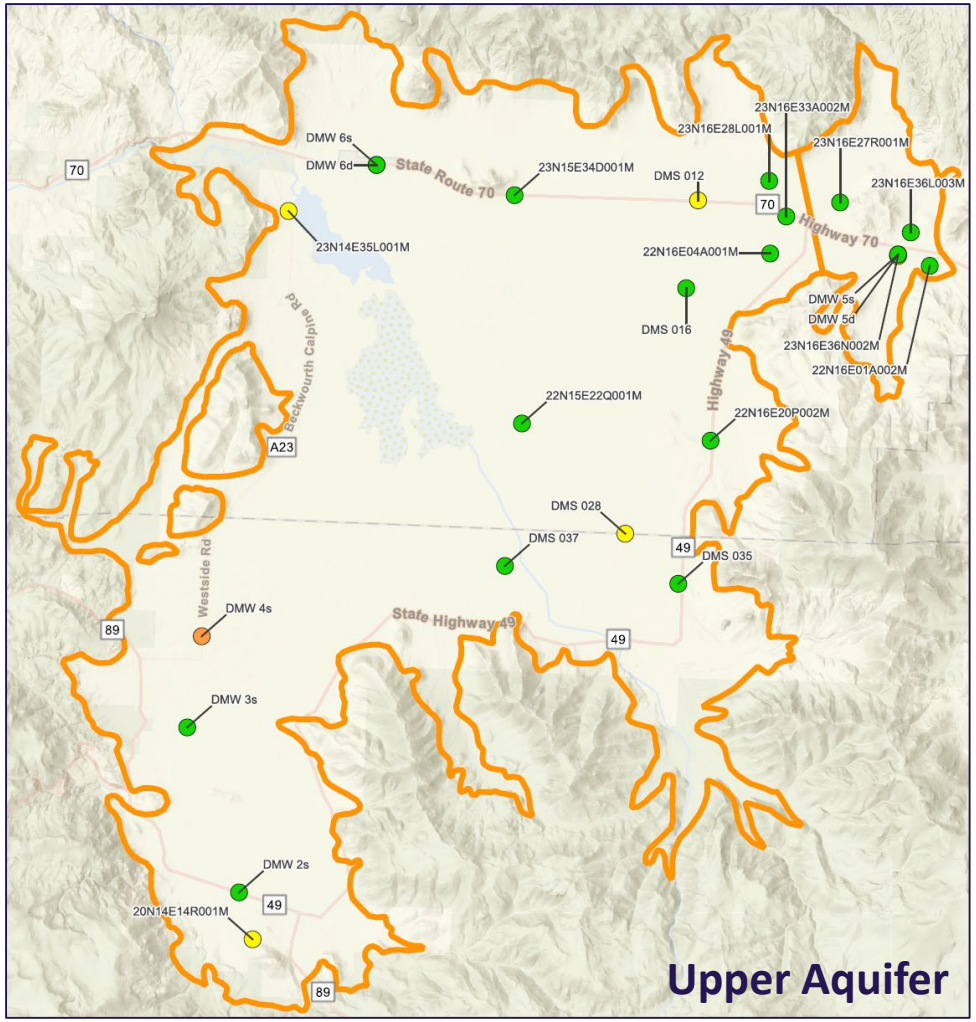
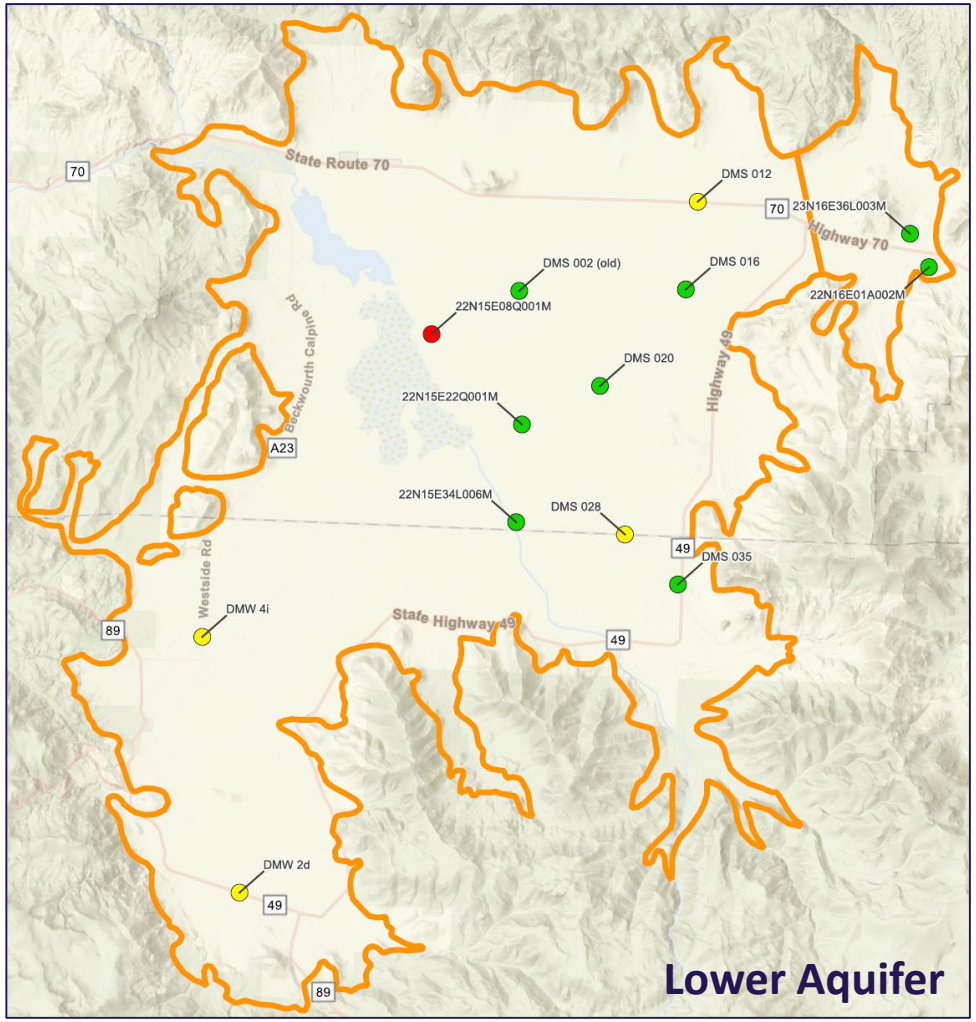
Fall 2023 SMC Status





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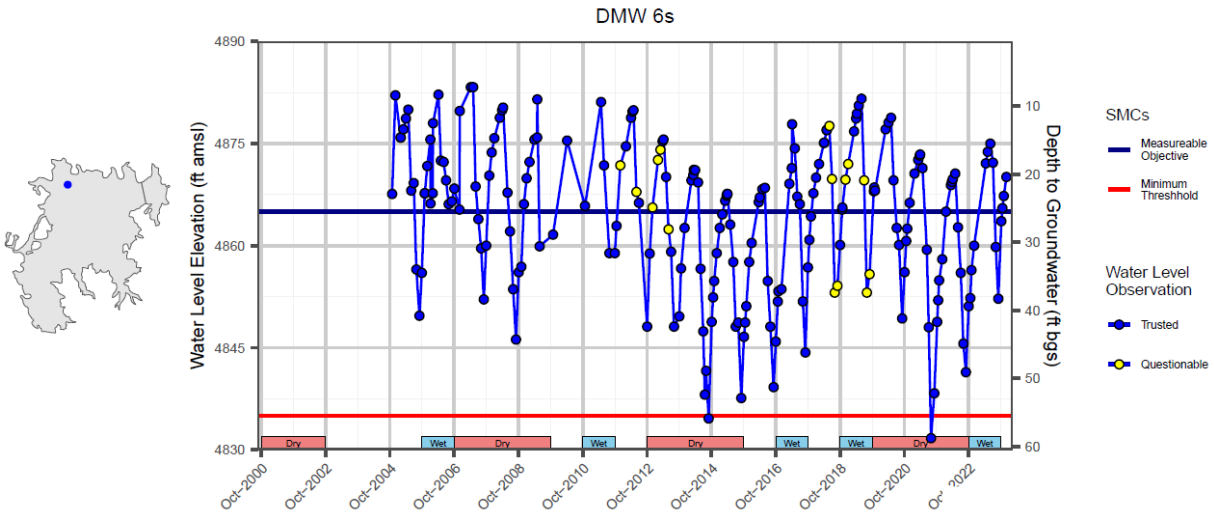
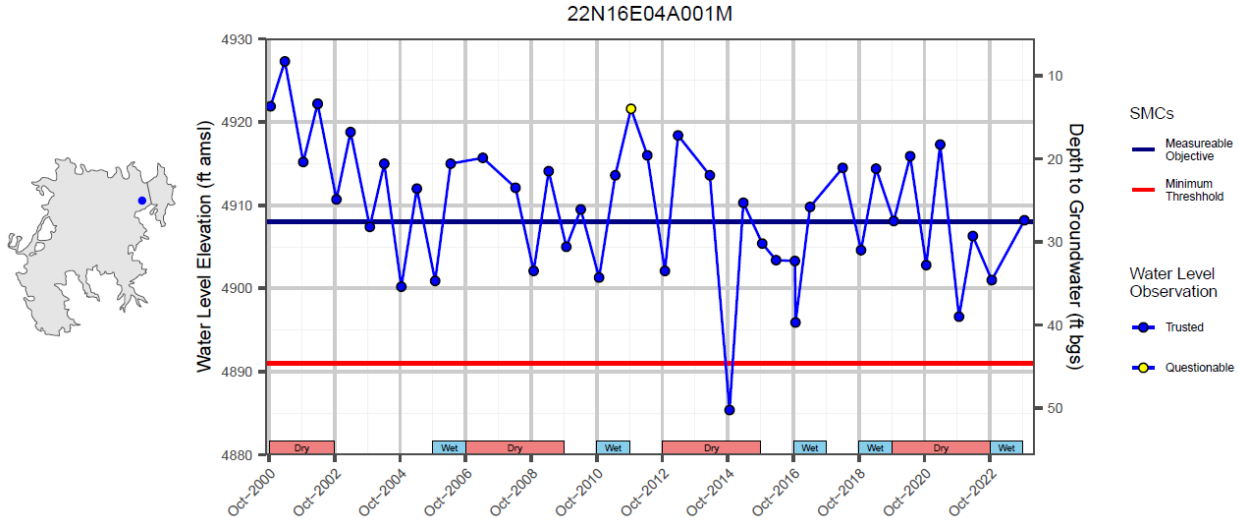
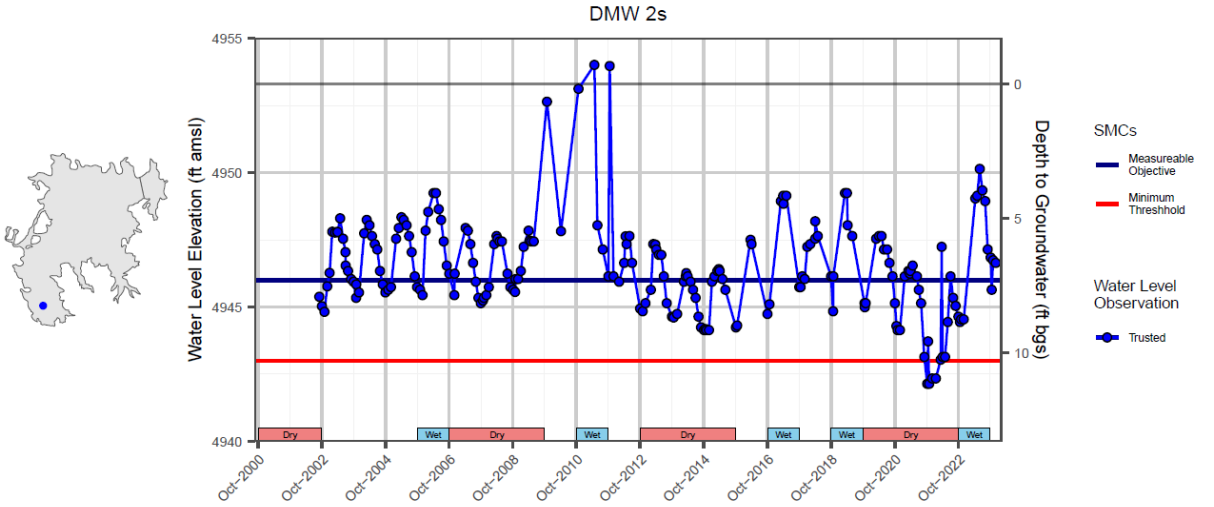
Example Hydrographs







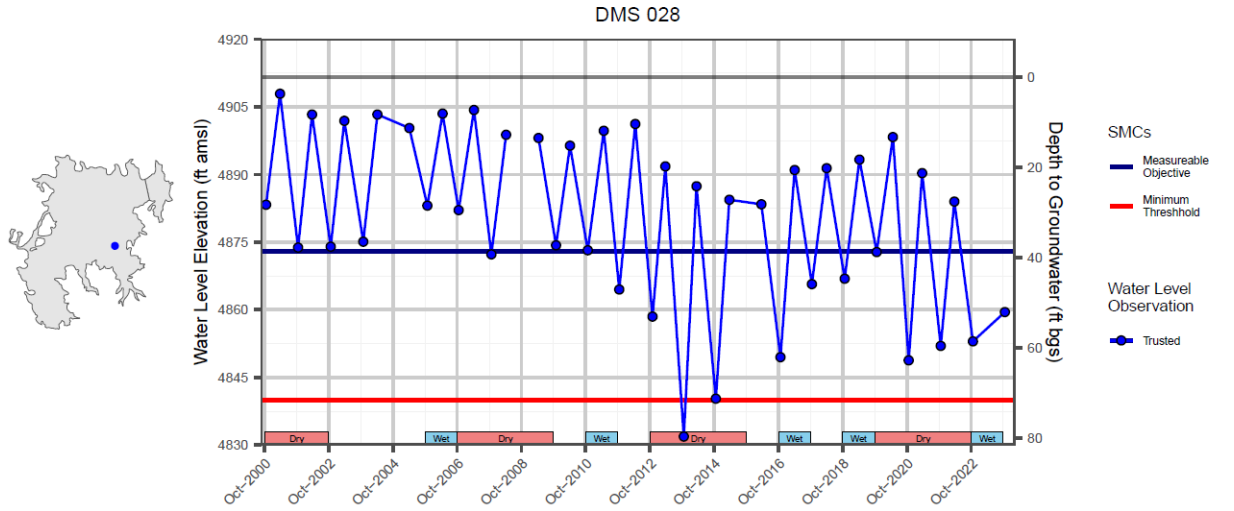


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Table 1. Groundwater Extractions

Sector	Method	GW Extraction Volume (AF)	Accuracy (%)	Range (AF)
Agriculture	Totalizer	5,526	± 5	5,250 - 5,803
Municipal and Industrial	Totalizer	646	± 5	613 - 678
Total		**6,172**		**5,863 - 6,481**

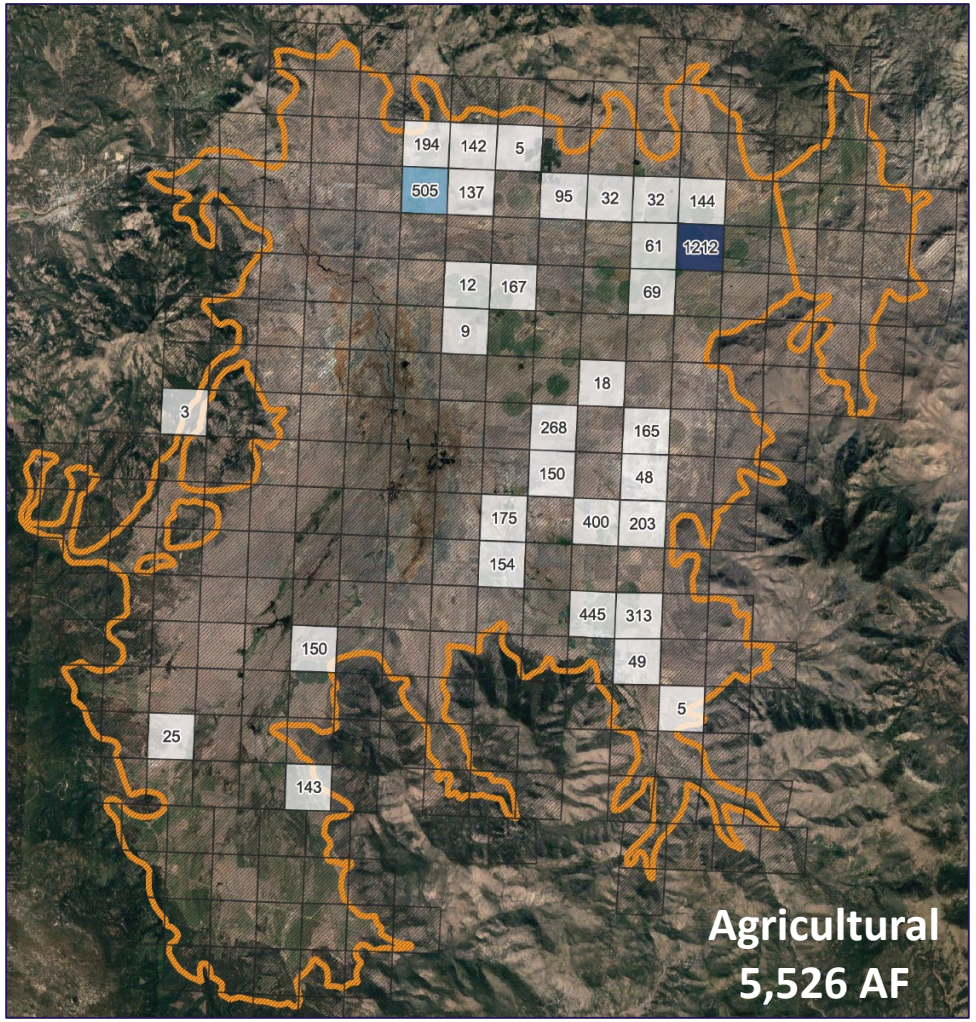
Table 2. Surface Water Use

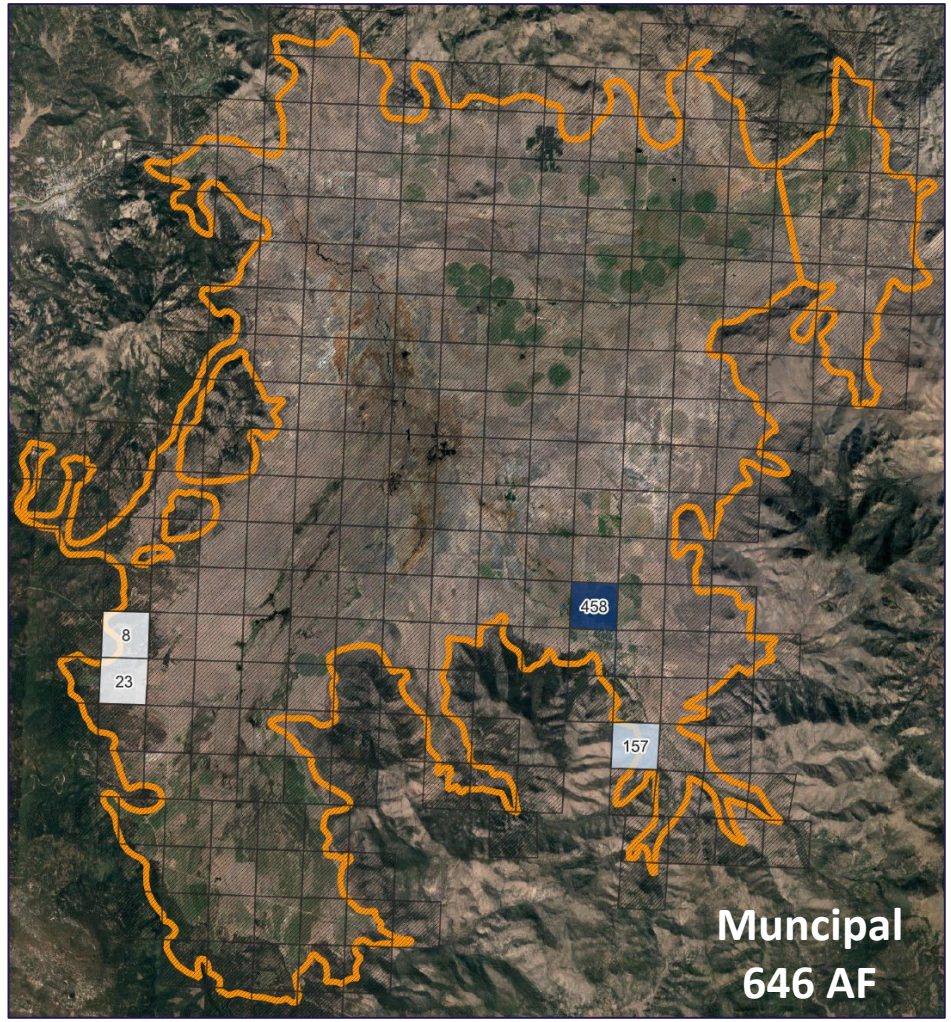
Surface Water Source	Method	Annual Volume Used (AF)	Accuracy (%)	Range (AF)
Local Imported Supplies	Weir	1,527	± 5	1,450 - 1,603
Local Supplies	Weir	8,448	± 5	8,025 - 8,870
	Estimated from model results and reported diversion data[1]	35,405	± 20	28,324 - 42,486
	Estimated from previously reported diversions	800	± 33	536 - 800[a]
Total		**46,180**		**38,335 - 53,759**

Table 3. Total Water Use

Sector	Method	Total Annual Volume (AF)	Accuracy (%)	Range (AF)
Agriculture	Totalizer	5,526	± 5	5,250 - 5,803
	Weir	9,975	± 5	9,475 - 10,473
	Estimated from model results and reported diversion data[1]	35,405	± 20	28,324 - 42,486
	Estimated from previously reported diversions	800	± 33	536 - 800[a]
Agriculture Subtotal	-	51,706	-	43,585 - 59,562
Municipal and Industrial	Totalizer	646	± 5	613 - 678
Total		**52,352**		**44,198 - 60,240**

WY 2023 Groundwater Extractions





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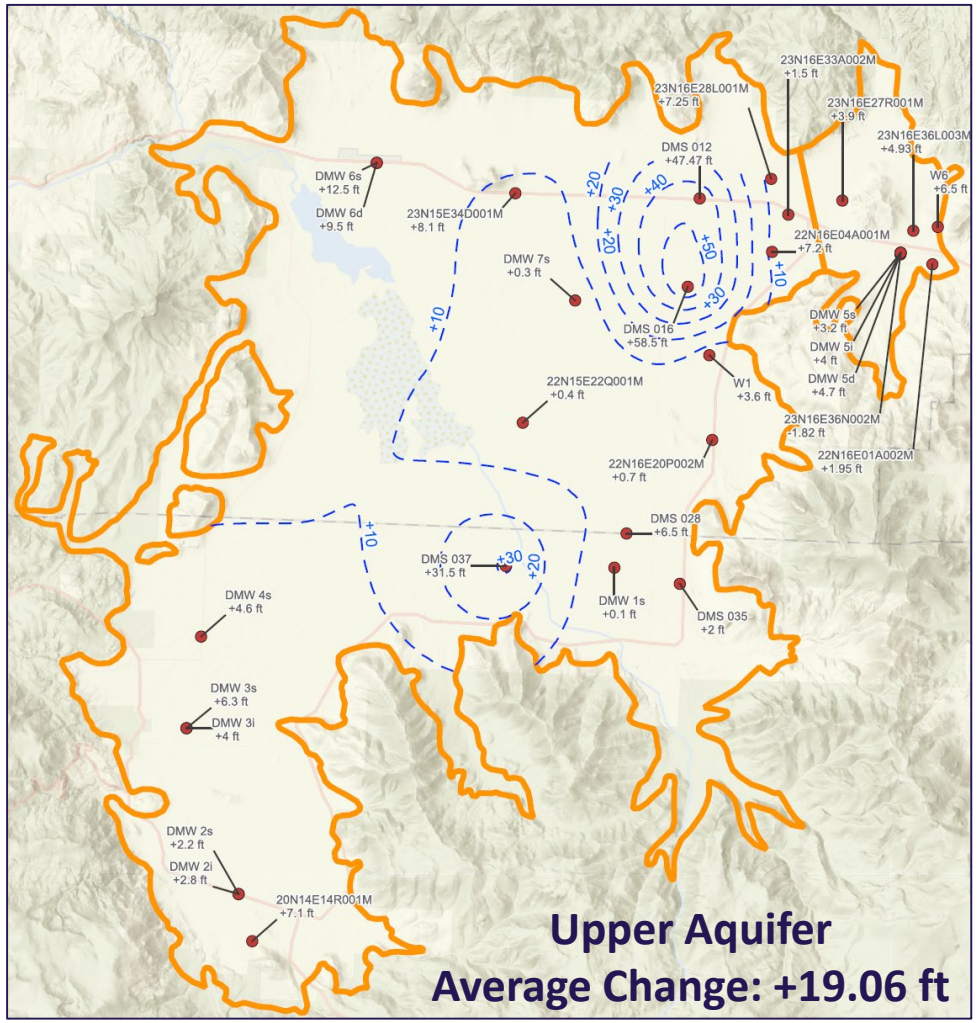
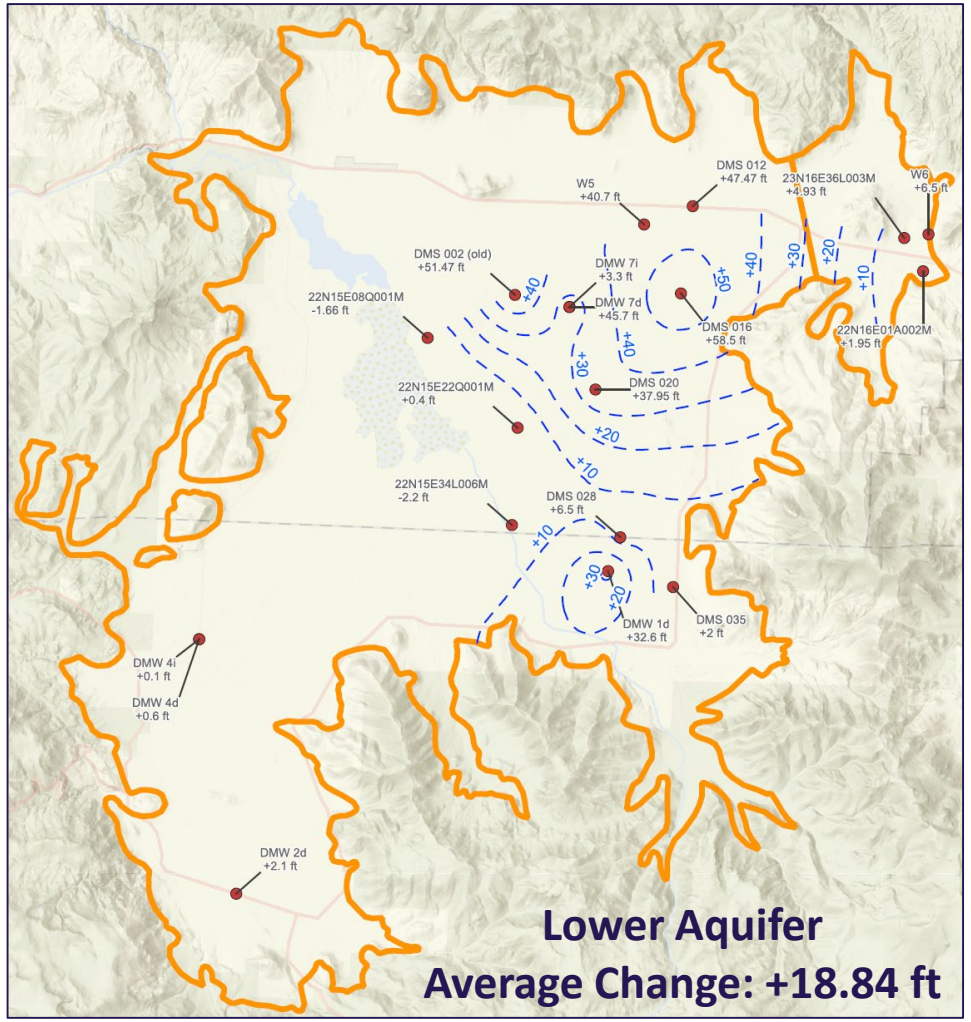
Fall 2022 - Fall 2023 Change in Water Levels





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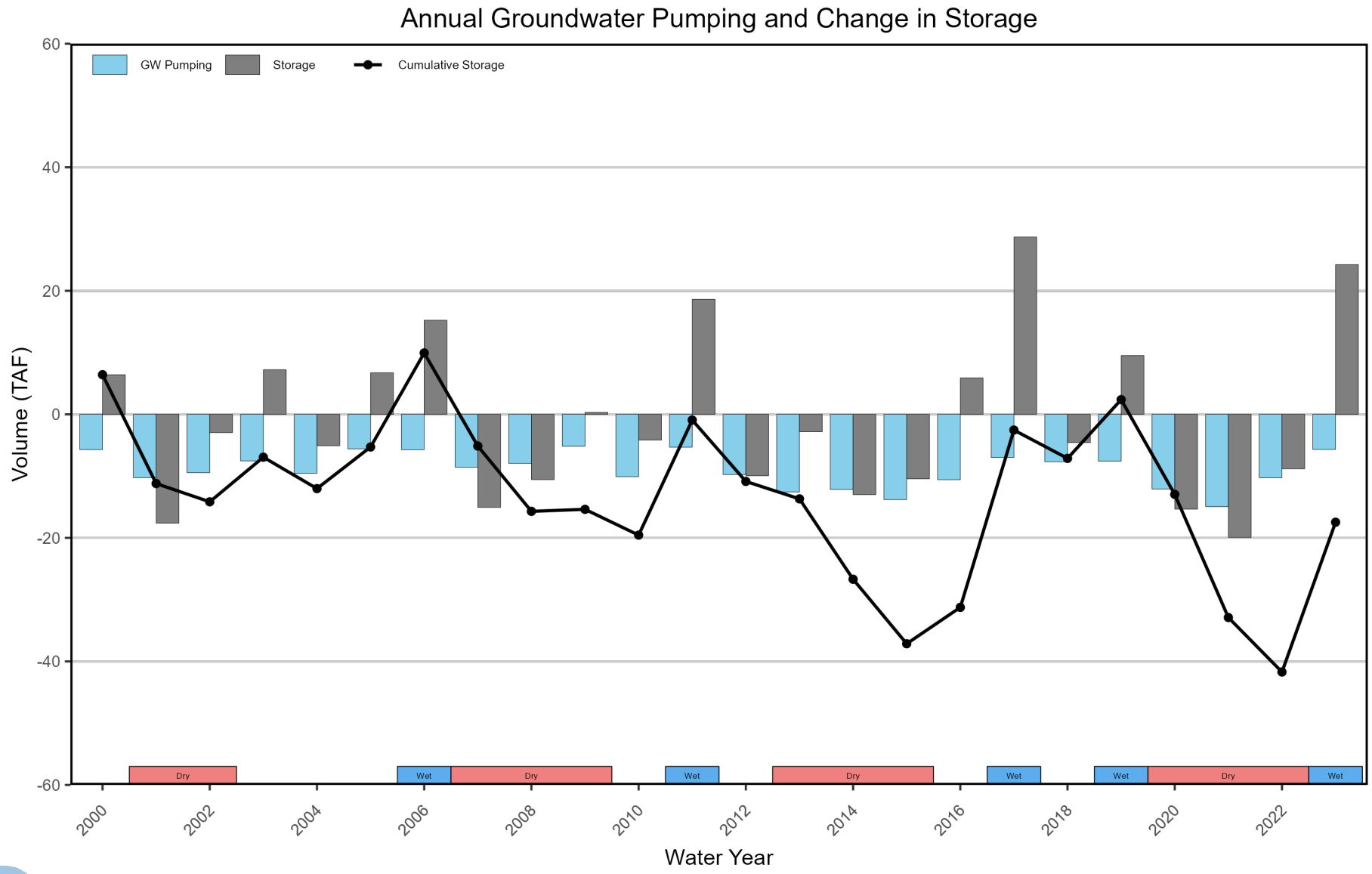

WY 2023 Estimated Change in Storage:
+24,245 AF

Storage Relative to Oct 1, 2000:
-17,468 AF

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