

Water Year 2024 Annual Report

Santa Ynez Basin - EMA

Presented by Tim Nicely

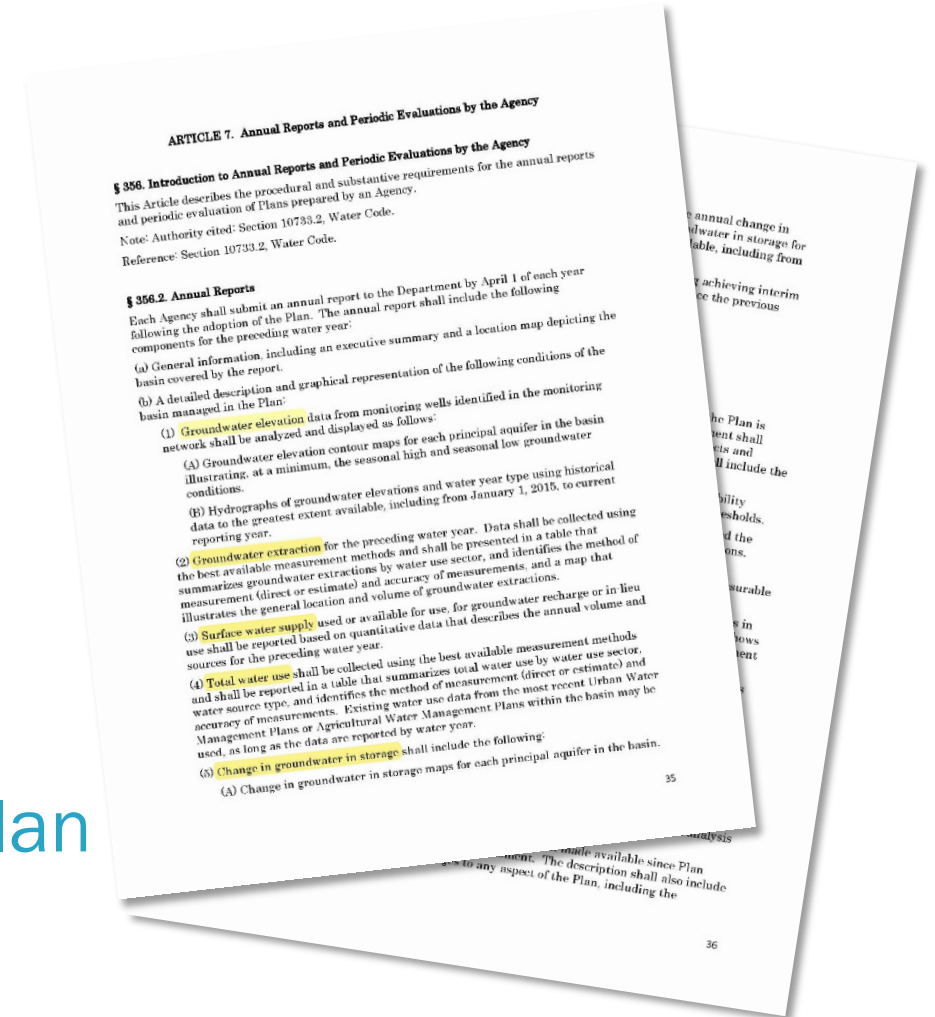
February 27, 2025



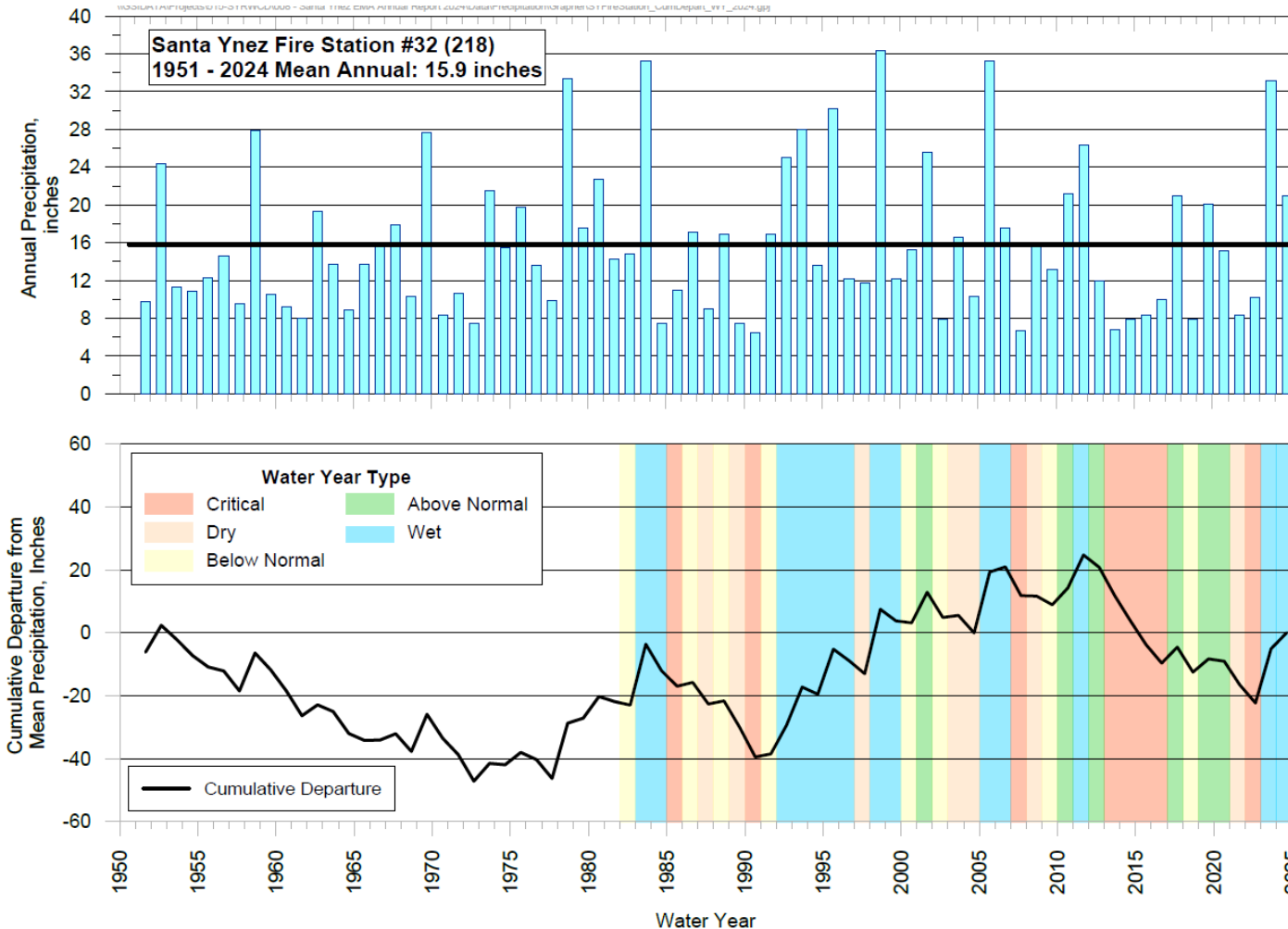
DWR Requirements

Description and presentation of:

1. Groundwater elevation
2. Groundwater extraction
3. Surface water supply
4. Total water use
5. Change in groundwater in storage
6. Progress towards implementing the Plan



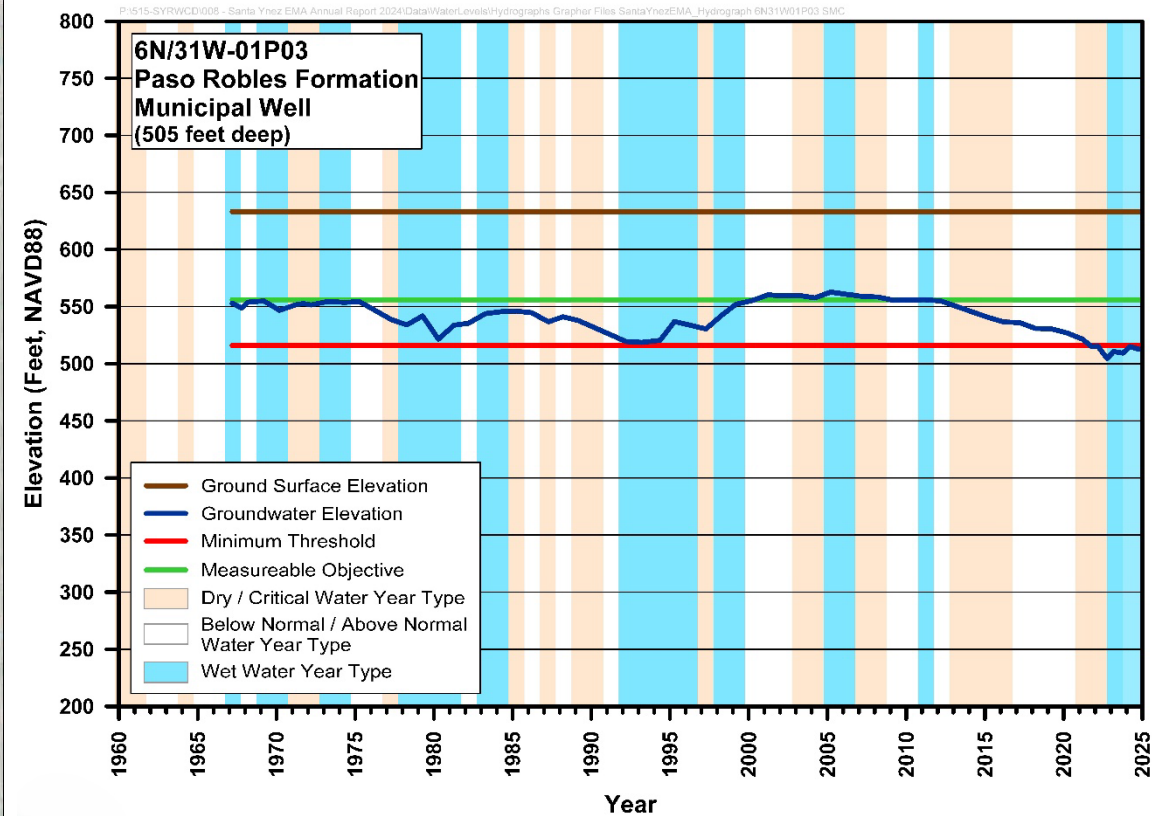
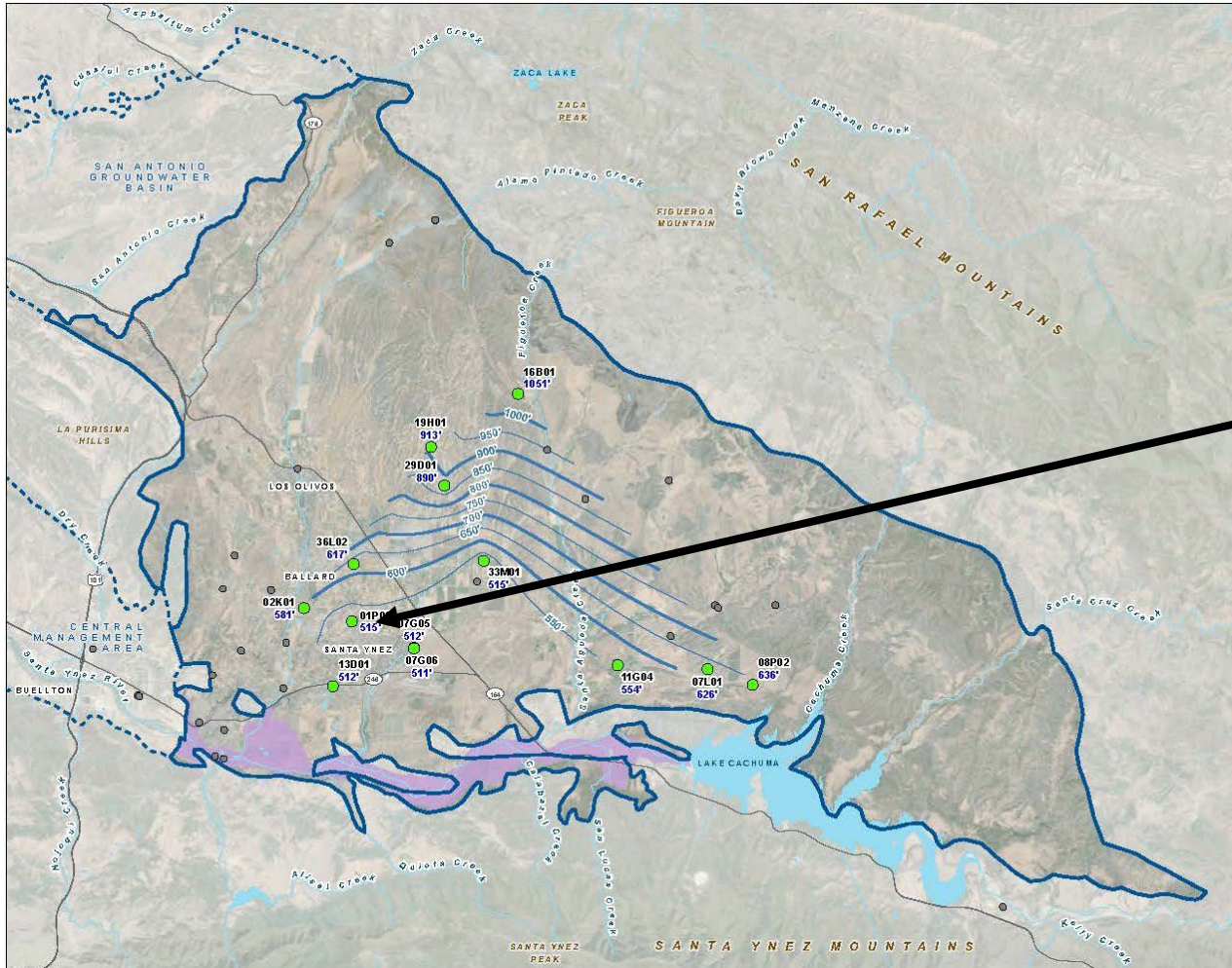
Water Year Types Since 2019



Water Year	Annual Precipitation (inches)	Water Year Type
2019	20.1	Above Normal
2020	15.1	Above Normal
2021	8.3	Dry
2022	10.2	Critical
2023	33.1	Wet
2024	21.0	Wet

- Calculated using latest DWR guidelines (2021)
- Each water year ranked against preceding 29 years
- Factors in precipitation from current and previous water year

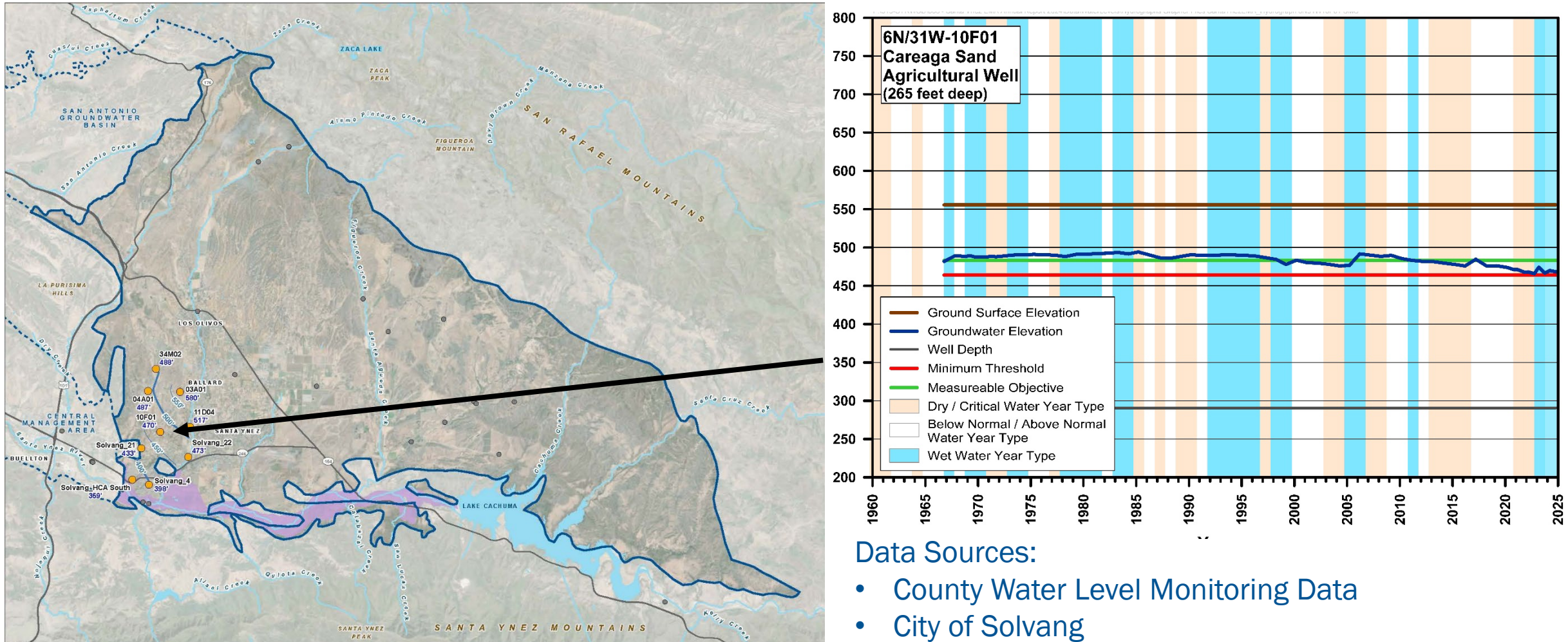
1. Groundwater Elevation – Paso Robles



Data Sources:

- County Water Level Monitoring Data
- ID No. 1

1. Groundwater Elevation – Careaga Sand



Data Sources:

- County Water Level Monitoring Data
- City of Solvang

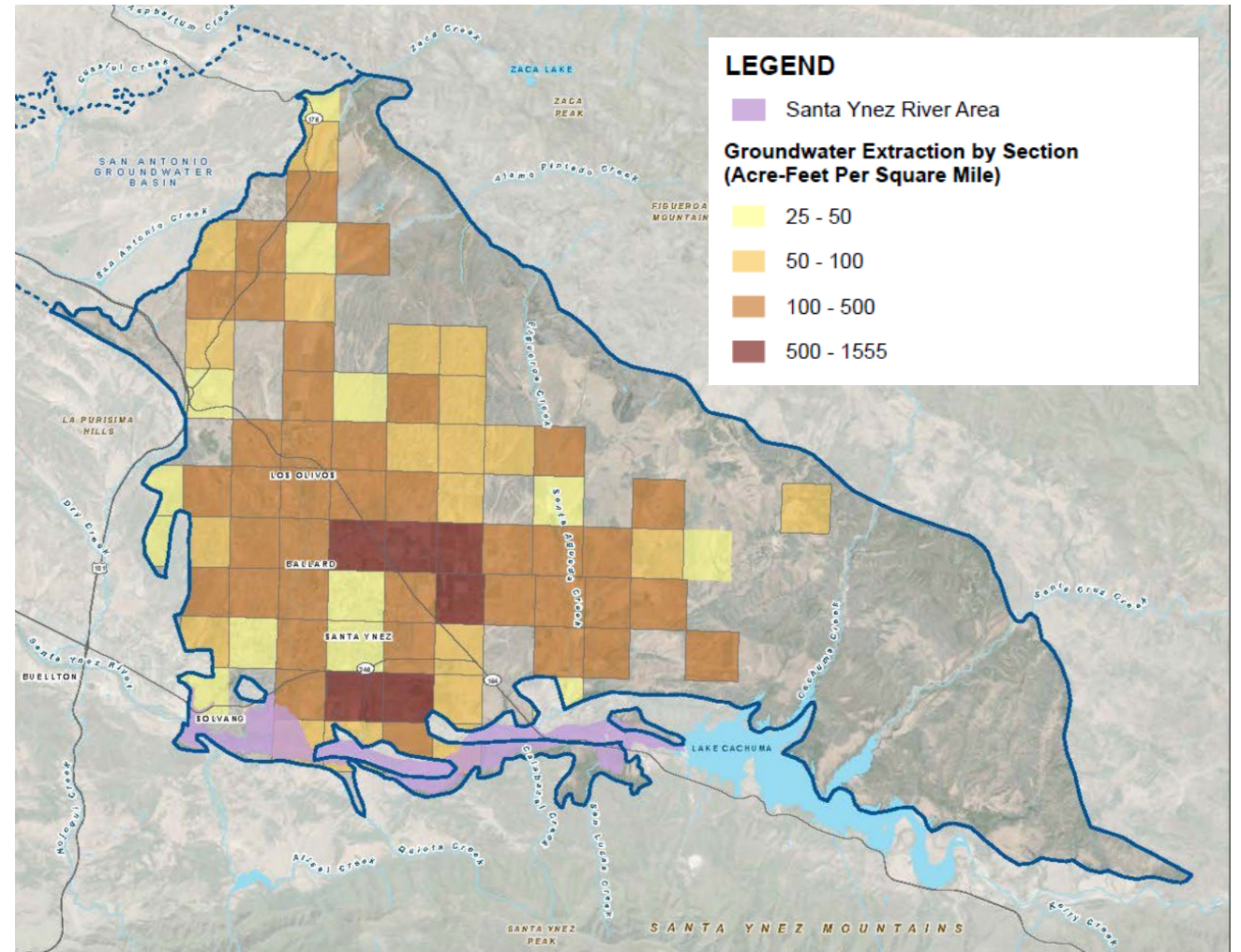
2. Groundwater Extraction

Water Year	Groundwater Extractions by Water Use Sector				Total (AF)
	Municipal / Reported Domestic	Small Public Water Systems	Rural Domestic	Agriculture	
2019	1,431	951	305	12,278	15,000
2020	1,880	957	307	11,812	15,000
2021	2,320	963	309	13,379	17,000
2022	2,516	969	311	13,264	17,060
2023	2,516	975	313	9,099	12,903
2024	2,076	981	315	9,436	12,808
Method of Measure	Provided by ID No.1 (metered), City of Solvang (metered), and SYRWCD (user reported)	Estimated based on population data	Estimated based on population data	Within SYRWCD: Reported Outside District: Estimated based on agricultural land use surveys, crop duty factor, and OpenET	

Values in acre-feet

2. Groundwater Extraction

Location and Volume of Groundwater Extraction (2024)



3. Surface Water Supply

Water Year	Imported Surface Water – State Water Project			River Well Sources	Total (AF)
	City of Solvang	ID No. 1	ID No. 1 Exchange		
2019	759	50	2,213	2,557	5,600
2020	745	315	1,740	2,281	5,100
2021	612	0	1,439	3,157	5,200
2022	590	0	544	3,380	4,500
2023	495	189	615	3,500	4,800
2024	808	0	1,753	3,457	6,000

Values in acre-feet

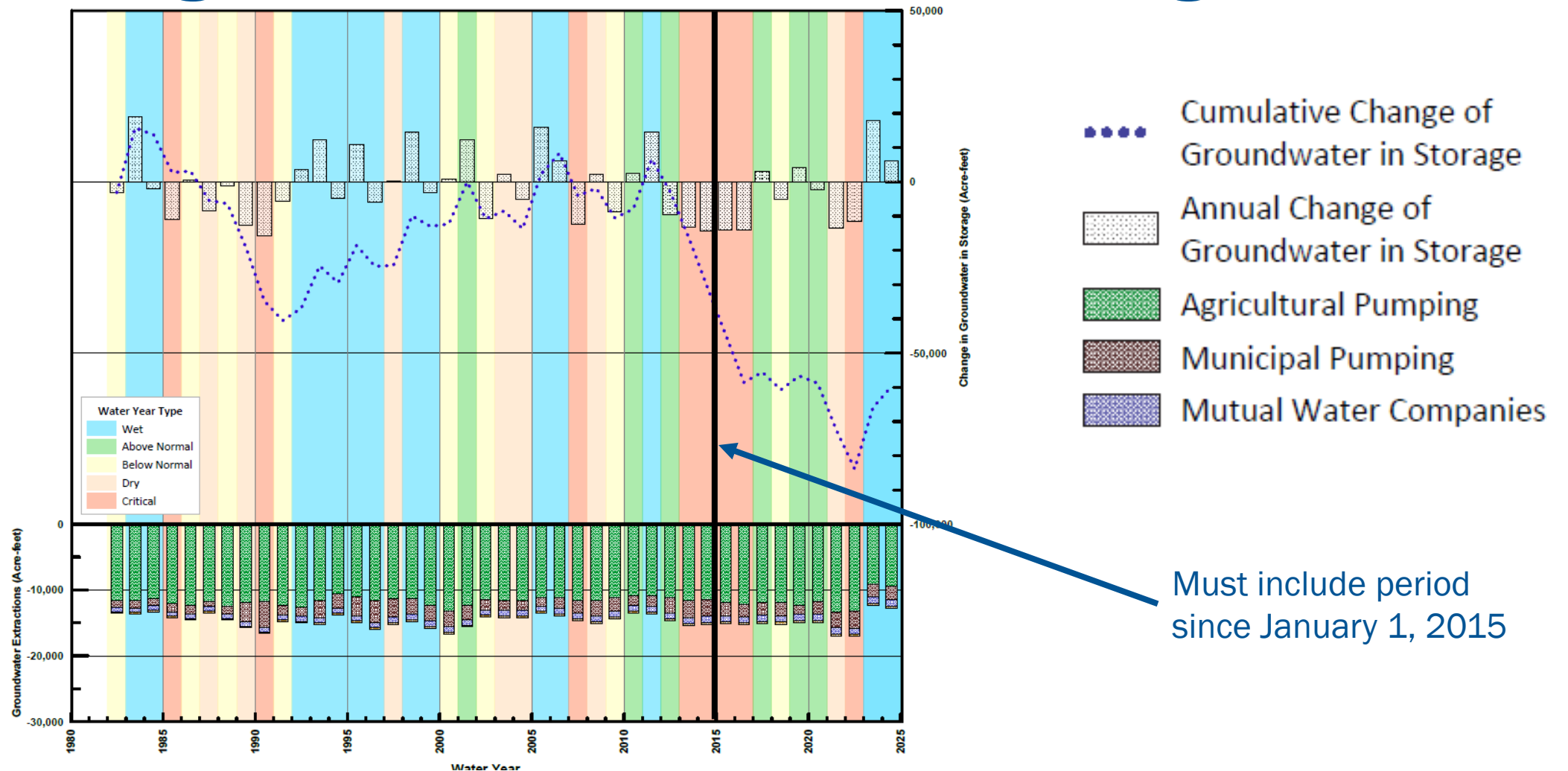
Surface water supply serves areas within the entire EMA including Santa Ynez Uplands (SGMA jurisdiction) and Santa Ynez River Area (SYRWCD jurisdiction)

4. Total Water Use

Water Year	Groundwater Use	Surface Water Use	Total (AF)
2019	14,965	5,579	20,500
2020	14,956	5,081	20,000
2021	16,971	5,208	22,200
2022	17,060	4,514	21,600
2023	12,903	4,799	17,700
2024	12,808	6,018	18,800

Values in acre-feet

5. Change in Groundwater in Storage



5. Change in Groundwater in Storage

Water Year	Water Year Type	Change in Storage (Paso Robles Formation)	Change in Storage (Careaga Sand)	Total Annual Change in Storage (AF)
2019	Above Normal	3,047	996	4,043
2020	Above Normal	-1,662	-477	-2,139
2021	Dry	-12,737	-825	-13,562
2022	Critical	-10,983	-495	-11,478
2023	Wet	17,677	307	17,984
2024	Wet	6,737	-623	6,114

Values in acre-feet

6. Progress Towards Implementation

Where do we stand relative to our sustainable management criteria (SMCs)?

Note: Undesirable result could occur when 50 percent of water levels in representative wells fall below Minimum Threshold for 2 consecutive years of average and above-average precipitation

Percentage of Representative Wells with Water Levels Below the Minimum Threshold

Water Year	Period	Paso Robles Formation Wells	Careaga Sand Wells
2019	Spring	0 %	0 %
2020	Spring	20 %	0 %
	Fall	55 %	N/A
2021	Spring	13 %	11 %
	Fall	50 %	22 %
2022	Spring	46 %	11 %
	Fall	62 %	33 %
2023	Spring	62 %	0 %
	Fall	50 %	22 %
2024	Spring	31 %	11 %
	Fall	38 %	11 %

6. Progress Towards Basin Sustainability

What is our progress towards implementing Projects and Management Actions?

- In progress:
 - Annual Reporting
 - Rate Study
 - 5-Year Update
 - Water Use Efficiency Strategic Plan
 - Enhanced survey for potential GDEs
 - Filling identified data gaps
 - Registering and metering wells
 - Reporting metered production
 - Implementing a revenue-generating fee program
 - Developing new and expanding existing water use efficiency programs for implementation within the EMA

6. Progress Towards Basin Sustainability

Implementation Schedule

- Tonight's meeting introduces the EMA portion of the joint annual report
- March 7, 2025: Joint meeting to approve joint annual report
- March 17–21, 2025: Submit annual report to DWR

Thank you!

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