

Drought Update

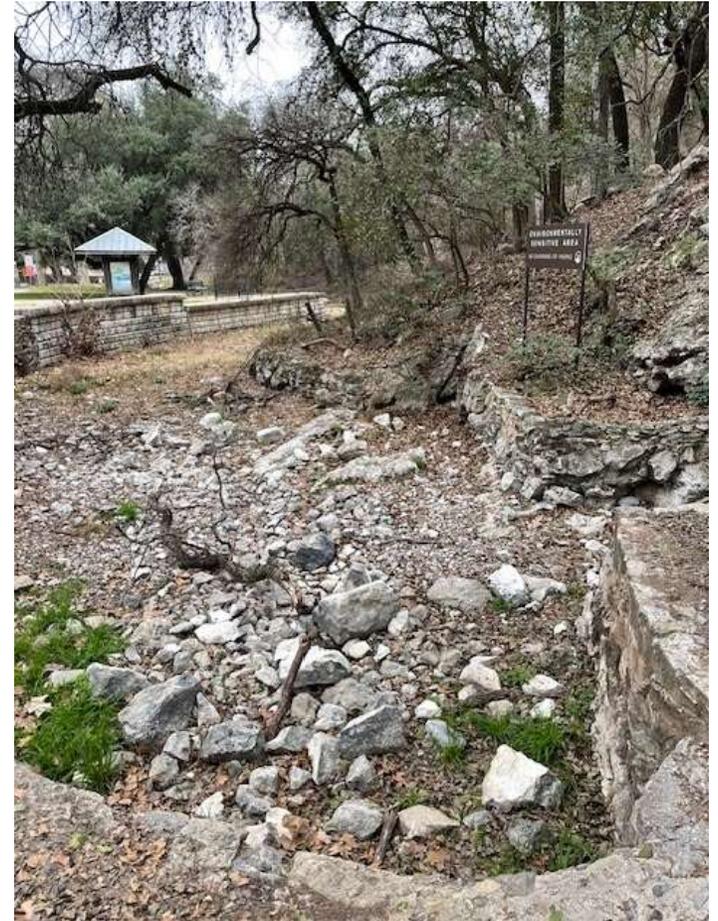
A photograph showing the silhouettes of residential buildings and a water tower against a sunset sky with scattered clouds. The sun is low on the horizon, creating a warm glow.

Andrew Cummings, Conservation and Customer Services Manager

- February 27, 2025

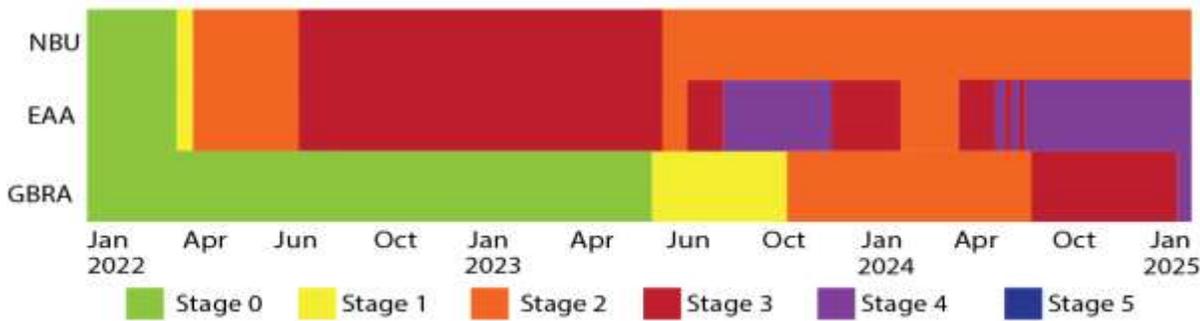
NBU Drought Timeline

Date Entered	Stage	Days in Stage
March 10, 2022	Stage 1	34
April 13, 2022	Stage 2	69
June 21, 2022	Stage 3	342 days
May 29, 2023	Stage 2	623 days <i>as of 2/10/25</i>



Landa Park
Main Spring Run
February 10, 2025

2024 EAA and GBRA Drought Comparisons



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Strengthening our community by providing resilient essential services

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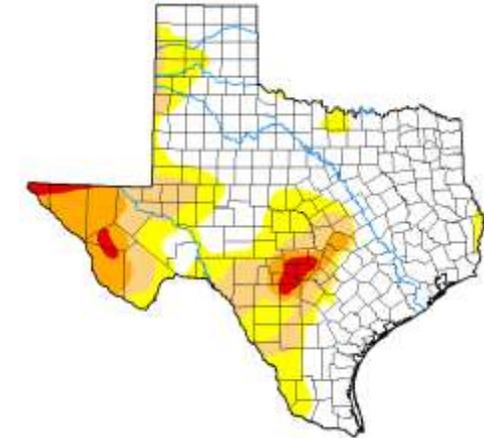
Safety, Team, Integrity, Culture, and Stewardship

Drought Synopsis: 2023 - Present

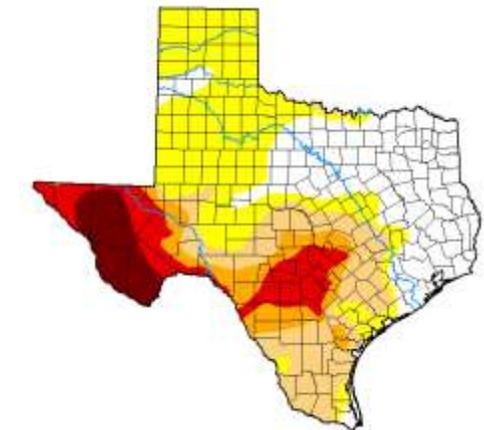
	2023*	2024*	2025	Average
Climatological Monitoring (as of 2/10/2025)				
Rainfall Cumulative Total (inches)	18.14"	23.68"	3.46"	~31"
Max Temperature (°F)	106°F	106°F	88°F	102°F
Water Level Monitoring (as of 2/10/2025)				
EAA J17 Level ('msl)	635.7'	633.9'	629.6'	Mid-660's
Comal Springs (cfs)	115	115	75	298
San Marcos Springs (cfs)	87	113	83	178
Canyon Lake ('msl)	894'	885'	880'	909'

*Annual Average/Max

February 2024



February 2025



Abnormally Dry Moderate Severe Extreme Exceptional

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Drought Restrictions in the Area (as of 2/10/25)

	<p>Stage 2</p>
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Regulatory Agencies	
	<p>Stage 4</p>
	<p>Stage 4</p>

Comparable Utilities			
	<p>Stage 3</p>		<p>Stage 4</p>
	<p>Stage 3</p>		<p>Stage 3</p>
	<p>Stage 2</p>		<p>Stage 4</p>

Large Utilities	
	<p>Stage 3</p>
	<p>Stage 2</p>

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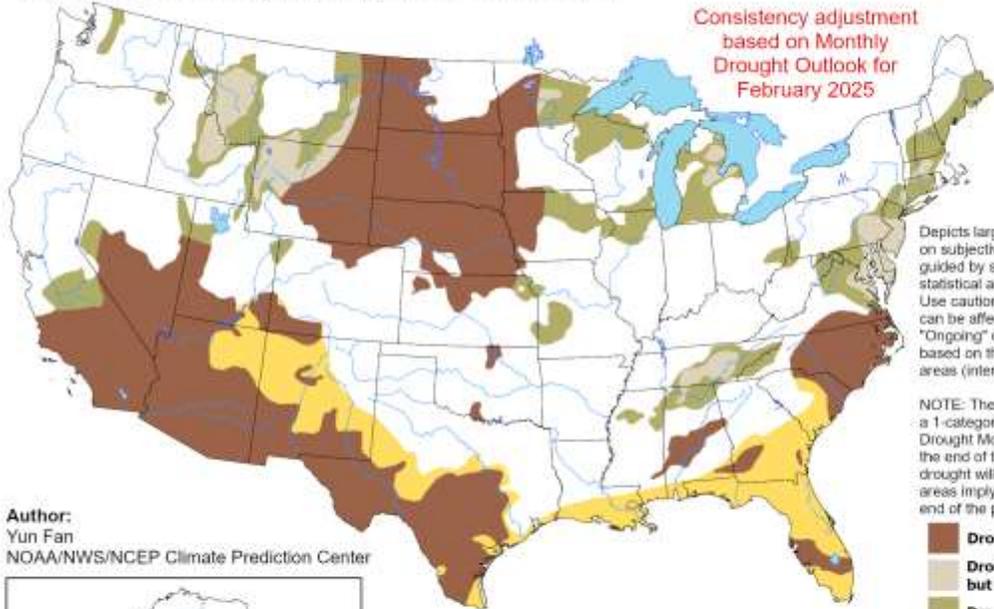
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Drought to Persist

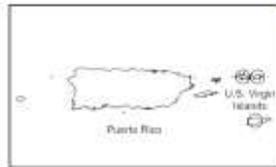
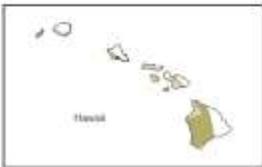
U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for February 1 - April 30, 2025
Released January 31, 2025

Consistency adjustment
based on Monthly
Drought Outlook for
February 2025



Author:
Yun Fan
NOAA/NWS/NCEP Climate Prediction Center



NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought



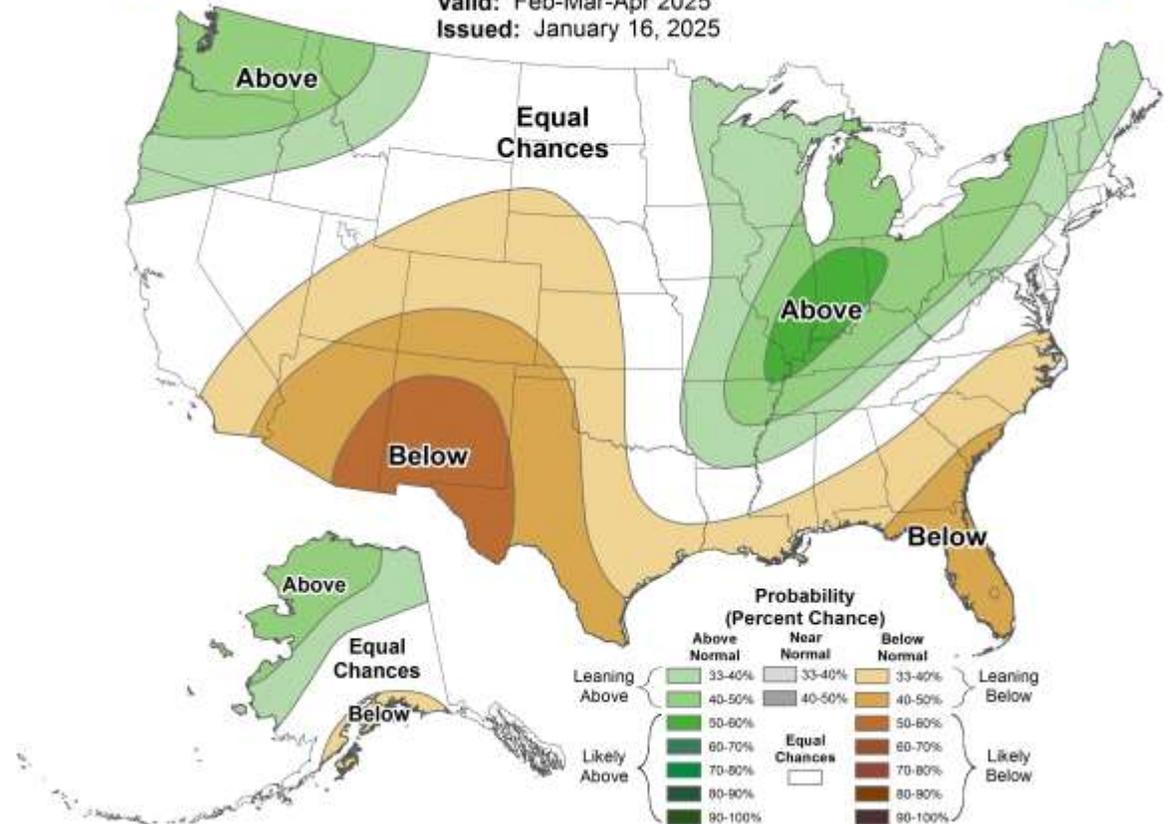
<https://go.usa.gov/3eZ73>



Seasonal Precipitation Outlook



Valid: Feb-Mar-Apr 2025
Issued: January 16, 2025



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What We're Monitoring

- Water Supply levels
 - EAA J 17 well and Canyon Lake
- Comal Springs flow and conditions
- Weather conditions and projections
- NBU water pumping levels

New Braunfels Drought Severity Evaluation Matrix					
Current NBU Stage	2				
Current EAA Stage	4				
Proposed Enhanced Triggers and Monitoring Matrix					
Triggers	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
EAA J17 Level 10-Day Average	<660'	<650'	<640'	<630'	<625'
Comal Flow - Daily	<225cfs	<200cfs	<150cfs	<100cfs	<45/40cfs
Comal Flow 10-Day Average	<225cfs	<200cfs	<150cfs	<100cfs	<45/40cfs
San Marcos Flow	<96cfs	<80cfs			
Canyon Lake - Level	<895	<890	<885	<880	<865
Run of River - Canyon Lake - Release Rate	<50cfs				
Weather-based Factors					
Time drought conditions have persisted (months)	<6 mon	>6 mon	>12 mon	>18 mon	> 24 mon
10-day Rain %	<30%	<40%	<30%	<25%	<25%
10-day Avg Hi-Temp	≥95	>100	>102	>103	>103
Comal County Drought Monitor - D3 Extreme %	>10%	>25%	>50%	>75%	>90%
Comal County Drought Monitor - D4 Exceptional %	>10%	>25%	>50%	>75%	>75%
Seasonal Drought Outlook	Drought to Persist through the Next 3 Months				
Percentage of State in Drought	>50%	>75%	>80%	>90%	>90%
Total Rain YTD (Inches)	Annual Average 2000-2024, 30.64"				
Rainfall Deficit YOY (Inches)	2024 YTD	7.39	Actual YTD	1.14	1.14
	>2.5"	>5"	>7.5"	>10"	>12.5"
Rainfall Deficit vs Avg YTD (Inches)	Avg YTD	3.46	Actual YTD	1.14	1.14
	>2.5"	>5"	>7.5"	>10"	>12.5"
Comal County Burn Ban Duration	>30 days	>60 Days	>90 Days	>120 Days	>150 days
Comal County Fire Risk (KBDI)	300-399	400-499	500-599	600-699	700-800
Infrastructure-based Factors					
Maximum NBU Pumping Capacity (MGD)	36MGD				
Availability Water Supply Reduction Requirements					
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Edwards Aquifer Authority	20% Reduc	30% Reduc	35% Reduc	40% Reduc	44% Reduc
Canyon Lake	5% Reduc	10% Reduc	15 % Reduc	15% Reduc	30% Reduc
Trinity	No reduction requirements				
City of Seguin	Must Follow CoNB Drought Management Plan				
GVSUD	Must Follow CoNB Drought Management Plan				
Run of River	Not available below 50 cfs				

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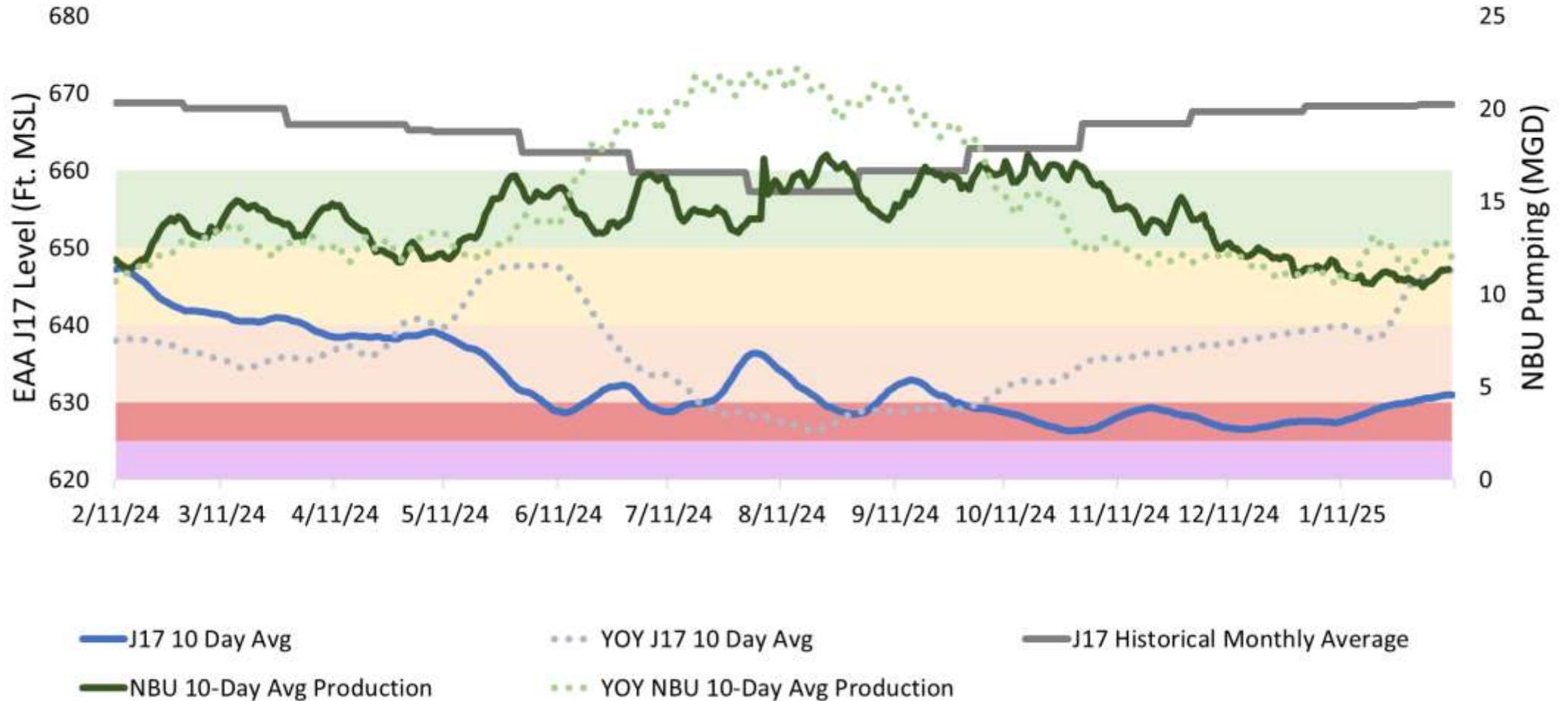
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EAA J17 Levels and NBU Pumping



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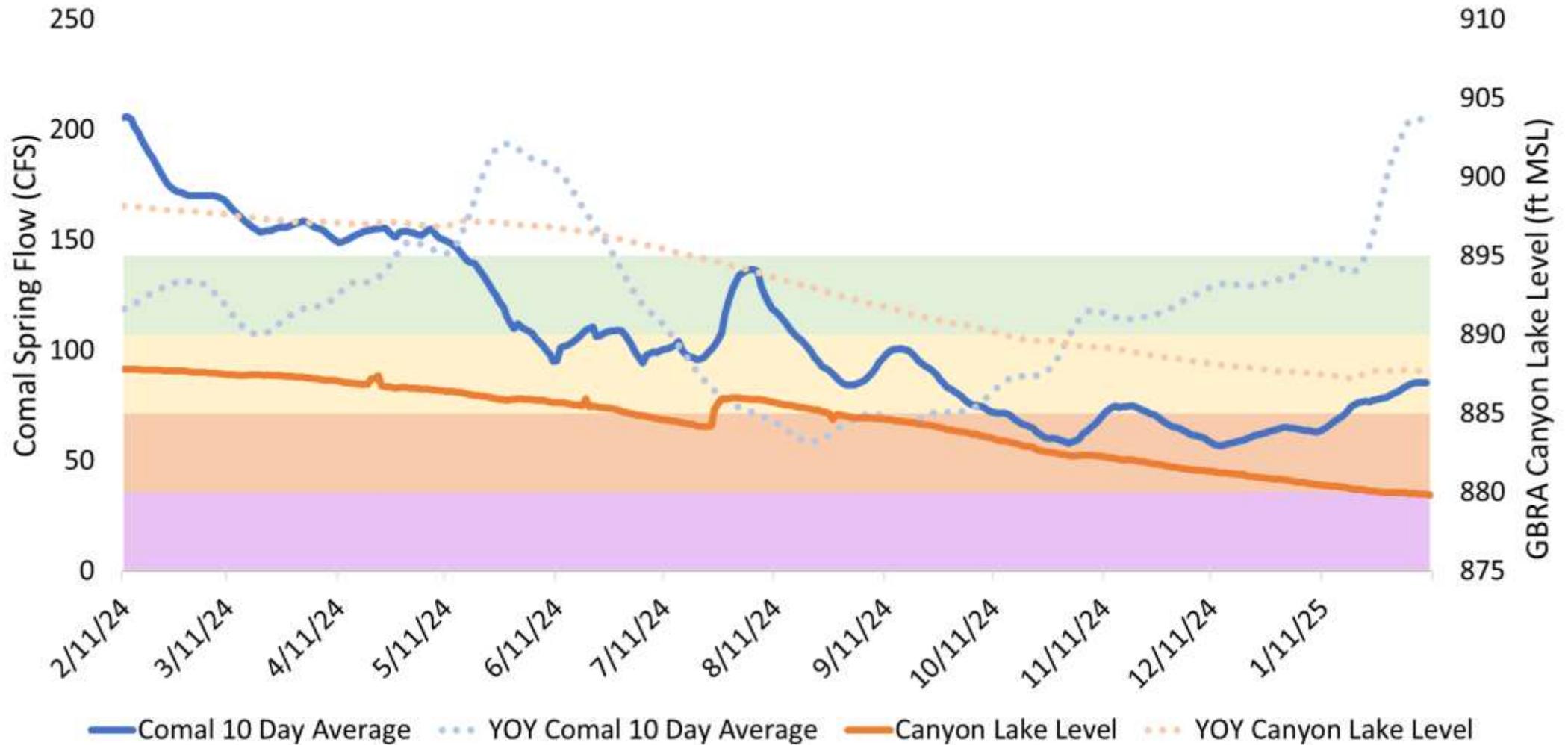
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Comal Spring Flow and Canyon Lake Level



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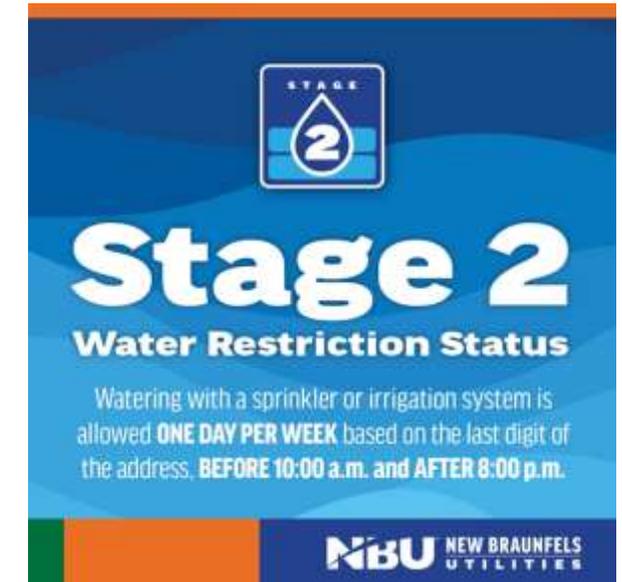
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What We're Doing

- Enhanced monitoring and reporting
- Increased communications
- Expedited violation processing
- Promotion of rebates and online resources
- Accelerated Drought Contingency Plan revision in preparation for Summer 2025



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Questions?

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