

Population

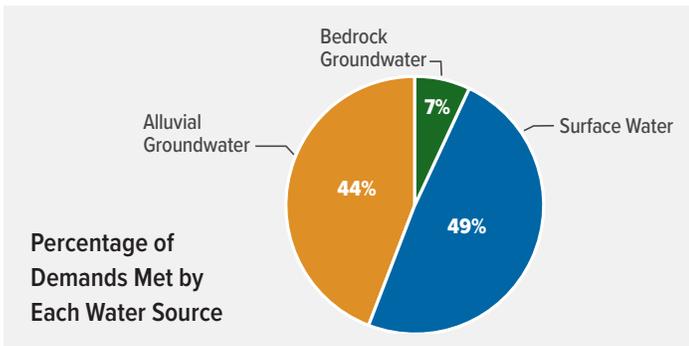
How is the population expected to change in the future?

2020	2030	2035	2045	2060	2075
7,599	7,046	6,676	6,035	5,099	4,128

Water Demand Projections

How much water is needed to meet Oklahomans' needs?

Basin 33 accounts for approximately 14% of the overall water demands of the Southwest Region.



Total Demand by Sector (AFY)

	2020	2030	2035	2045	2060	2075
Self-supplied Domestic	16	15	15	14	12	11
Self-supplied Industrial	-	-	-	-	-	-
Crop Irrigation	32,297	32,969	33,016	33,071	33,076	33,076
Livestock	269	261	260	253	243	234
Oil & Gas	18	18	18	18	18	18
Public Supply	5,023	4,554	4,266	3,794	3,072	2,324
Thermoelectric Power	-	-	-	-	-	-
Total	37,623	37,816	37,575	37,149	36,421	35,663

AFY = acre-feet per year; Small differences may result due to rounding.

Physical Water Shortages

Will there be enough "wet water" physically available to meet anticipated needs?

WIW WM WSS

	Magnitude (AFY)					Frequency ¹
	2030	2035	2045	2060	2075	2075
Surface Water Gap	2	2	1	-	-	0%
Alluvial Groundwater Depletion	226	248	125	56	3	1%
Bedrock Groundwater Depletion	2,556	2,560	2,562	2,556	2,548	N/A

1. Probability of a water shortage occurring in at least one month of the year.

Legal Water Availability

Will there be water available for permitting after meeting 2075 demands?

WM WSS

Estimated Surface Water available for appropriation in 2075 (AFY)	Inside 2016 Water Settlement Area? ¹	Is there a downstream mainstem restriction? ²	Estimated Groundwater available for appropriation in 2075 (AFY)
62,700	No	No	419,010

1. Yes – basin wholly or partially subject to the provisions of the 2016 Water Settlement Agreement.

2. Yes – mainstem restriction may impact water available for appropriation within the basin.

Water Management Strategies

What approaches are most viable for meeting future needs and mitigating shortages?

WSS WDI WIW WM

Water Management Category	Demand Sector	Basin 33 Evaluation
Demand Management	PS, SSI, OG, TE	Partially Effective - Shortages Remain
Agriculture Options	CI, LS	Partially Effective - Shortages Remain
Increase Reliance on In-Basin Surface Water	All sectors	Effective at Meeting Future Demands
Increase Reliance on In-Basin Groundwater	All sectors	May Increase Shortages - Use with Other Strategies
Stormwater Capture & Use	PS, SSI	Potentially Effective with Local Variability
Reuse	PS, SSI	Partially Effective - Shortages Remain
Water Transfers	All sectors	Effective at Meeting Future Demands

In addition to the water management strategies, water users need:

- Options to address water quality concerns, which could include expanding source water protection programs and expanding water quality studies.
- Ways to address infrastructure limitations, which could include additional water funding from the State, Federal, and/or public-private partnerships, and by providers setting water rates that fully fund system operation and maintenance.