

Population

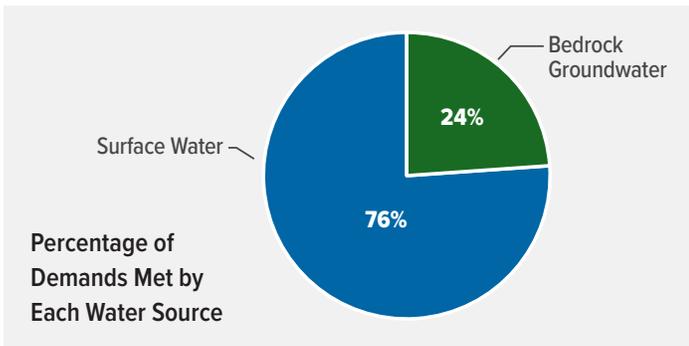
How is the population expected to change in the future?

2020	2030	2035	2045	2060	2075
42,504	45,300	44,672	43,852	43,348	42,910

Water Demand Projections

How much water is needed to meet Oklahomans' needs?

Basin 82 accounts for approximately 6% of the overall water demands of the Lower Arkansas Region.



Total Demand by Sector (AFY)

	2020	2030	2035	2045	2060	2075
Self-supplied Domestic	1,143	1,228	1,210	1,184	1,167	1,153
Self-supplied Industrial	12	12	11	11	10	9
Crop Irrigation	772	356	355	355	355	355
Livestock	1,647	1,682	1,701	1,684	1,653	1,630
Oil & Gas	-	-	-	-	-	-
Public Supply	2,919	3,154	3,086	2,962	2,826	2,718
Thermoelectric Power	-	-	-	-	-	-
Total	6,492	6,431	6,364	6,196	6,011	5,865

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	-	-	-	-	-	0%
Alluvial Groundwater Depletion	-	-	-	-	-	No AGW Demand
Bedrock Groundwater Depletion	17	17	16	16	15	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)
613,800	No	No	2,498,650

- If, yes – basin wholly or partially subject to the provisions of the 2016 Water Settlement Agreement.
- If, 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 82 Evaluation
Demand Management	PS, SSI, OG, TE	Effective at Meeting Future Demands
Agriculture Options	CI, LS	Effective at Meeting Future Demands
Increase Reliance on In-Basin Surface Water	All sectors	Effective at Meeting Future Demands
Increase Reliance on In-Basin Groundwater	All sectors	Effective at Meeting Future Demands
Stormwater Capture & Use	PS, SSI	No Shortage or Needs Met by Other Strategies
Reuse	PS, SSI	No Shortage or Needs Met by Other Strategies
Water Transfers	All sectors	No Shortage or Needs Met by Other Strategies

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.