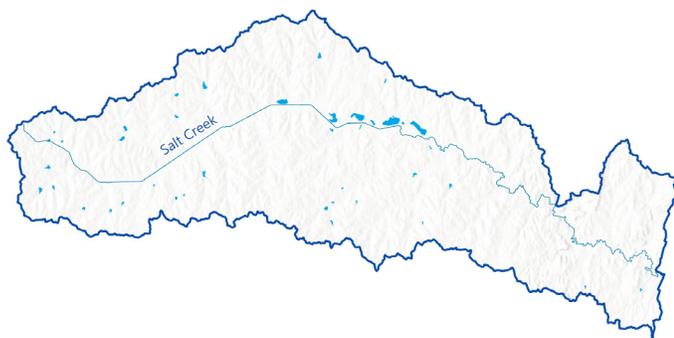


BASIN 61

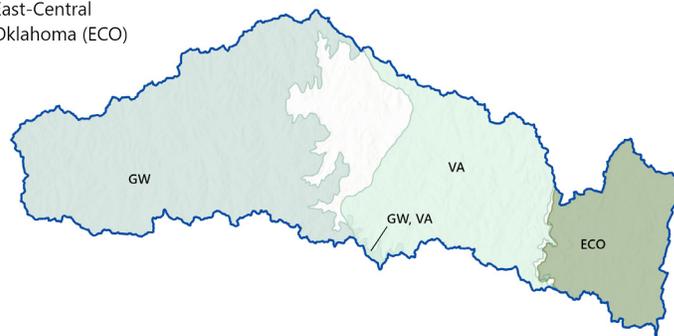
Little River - 1 / Central Region



- Surface Water Legend**
- Planning Basin
 - OWRB Major Streams
 - OWRB Lakes



- Groundwater Legend**
- Planning Basin
 - Major Bedrock Aquifer
 - Garber-Wellington (GW)
 - Vamoosa-Ada (VA)
 - Minor Bedrock Aquifer
 - East-Central Oklahoma (ECO)



Interactive maps can be viewed through the OCWP dashboards, accessible at oklahoma.gov/owrb/water-planning

SUMMARY

- Basin 61 - Little River - 1 demands are supplied by a combination of surface water and groundwater.
- Water demand (withdrawal) is projected to increase by 54 acre-feet per year (3%) between 2020 and 2075.
- Physical surface water gaps are projected in Basin 61 as early as 2030 and will continue through 2075.
- There are no alluvial groundwater demands in this basin.
- Physical bedrock groundwater depletions are projected in Basin 61 as early as 2030 and will continue through 2075.
- Basin 61 is projected to have surface water available for appropriation through 2075.
- Basin 61 is projected to have groundwater available for appropriation through 2075.
- To mitigate projected water supply shortages in this basin, the following strategies will typically be most effective:
 - Reduce water demand through conservation, water loss reduction, and other activities (PS, SSI, OG, TE). **WSS**
 - Reduce water demands through agricultural water saving options (CI, LS). **WSS**
 - Continue/increase reliance on in-basin surface water (all sectors). **WSS WDI**
 - Continue/increase reliance on in-basin groundwater (all sectors). **WSS WDI**



OWRB Water
Planning Page
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Refer to the “**Guide to Region and Basin Fact Sheets**” for a description of the types of information detailed in this fact sheet.

Water Demand Sectors: PS = Public Supply, SSI = Self-supplied Industrial, OG = Oil & Gas, TE = Thermoelectric Power, CI = Crop Irrigation, LS = Livestock, SSD = Self-supplied Domestic

OCWP Statewide Recommendations are designed to address current and anticipated water supply challenges and are noted throughout this fact sheet with the following icons: **WIW** Water Infrastructure & Workforce, **WM** Water Management, **WSS** Water Supplies & Storage, and **WDI** Water Data & Information

Population

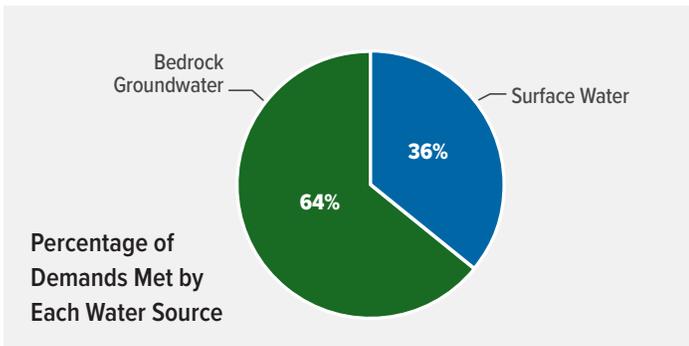
How is the population expected to change in the future?

2020	2030	2035	2045	2060	2075
19,773	20,220	20,186	20,187	20,276	20,320

Water Demand Projections

How much water is needed to meet Oklahomans' needs?

Basin 61 accounts for approximately less than 1% of the overall water demands of the Central Region.



Total Demand by Sector (AFY)

	2020	2030	2035	2045	2060	2075
Self-supplied Domestic	885	905	906	909	917	924
Self-supplied Industrial	-	-	-	-	-	-
Crop Irrigation	14	23	23	23	23	23
Livestock	279	273	273	267	260	254
Oil & Gas	86	86	86	86	86	86
Public Supply	492	504	505	509	516	523
Thermoelectric Power	-	-	-	-	-	-
Total	1,755	1,791	1,792	1,794	1,802	1,809

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	3	4	6	11	15	17%
Alluvial Groundwater Depletion	-	-	-	-	-	No AGW Demand
Bedrock Groundwater Depletion	12	13	12	12	12	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)
178,700	No	No	325,720

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

2. 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 61 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.