Caldwell Co (Southeast)

2025

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled **PROVISIONAL** have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

1. System Information

Contact Information

Complete

Water System Name:	Caldwell Co (Southeast)	PWSID:	01-14-047
Mailing Address:	1385 Fairview Drive SW Lenoir, NC 28645	Ownership:	County
Contact Person:	Barry Calloway	Title:	Director
Phone:	828-757-5757	Cell/Mobile:	--
Secondary Contact:	Sierra Wade	Phone:	828-757-5758
Mailing Address:	PO Box 2200 Lenoir, NC 28645	Cell/Mobile:	--

Distribution System

Line Type	Size Range (Inches)	Estimated % of lines
Asbestos Cement	6-8	8.00 %
Ductile Iron	12	12.00 %
Polyvinyl Chloride	2-12	80.00 %

What are the estimated total miles of distribution system lines? 195 Miles

How many feet of distribution lines were replaced during 2025? 0 Feet

How many feet of new water mains were added during 2025? 0 Feet

How many meters were replaced in 2025? 39

How old are the oldest meters in this system? 12 Year(s)

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? 0

What is this system's finished water storage capacity? 0.6003 Million Gallons

Has water pressure been inadequate in any part of the system since last update? *Line breaks that were repaired quickly should not be included.* No

Programs

Does this system have a program to work or flush hydrants? Yes, Quarterly

Does this system have a valve exercise program? Yes, Annually

Does this system have a cross-connection program? Yes

Does this system have a program to replace meters? No

Does this system have a plumbing retrofit program? No

Does this system have an active water conservation public education program? No

Does this system have a leak detection program? No

Water Conservation

What type of rate structure is used? Increasing Block

How much reclaimed water does this system use? 0.0000 MGD For how many connections? 0

Does this system have an interconnection with another system capable of providing water in an emergency? Yes

2. Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
Catawba River (03-1)	95 %	Caldwell	100 %
Yadkin River (18-1)	5 %		

What was the year-round population served in 2025? 15,408

Has this system acquired another system since last report? No

The year-round population served in 2025 was estimated by multiplying the number of additional connections (156) by 2.57 (the average number of people per residential connection shown in the 2024 LWSP).

Water Use by Type

Type of Use	Metered Connections	Metered Average Use (MGD)	Non-Metered Connections	Non-Metered Estimated Use (MGD)
Residential	5,985	0.8750	0	0.0000
Commercial	127	0.0365	0	0.0000
Industrial	18	0.0100	0	0.0000
Institutional	55	0.0060	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? 0.0075 MGD

Due to system reporting errors pertaining to classification, the non-residential connection numbers were misreported in previous plans. To my knowledge, these are the most accurate representations of metered connections per classification.

Water Sales

Purchaser	PWSID	Average Daily Sold (MGD)	Days Used	Contract MGD	Contract Expiration	Contract Recurring	Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
GRANITE FALLS	01-14-030	0.0000	0			Yes	Yes	6-8	Regular
LENOIR	01-14-010	0.0000	365			Yes	No	6	Regular
Sawmills	01-14-040	0.0020	365	0.0000	2050	Yes	No	12	Regular

Granite Falls reports no water was purchased from Caldwell County's Southeast System during 2025. Caldwell County's Southeast System is providing water to Granite Falls residents within Granite Falls Town Limits with water that is purchased from Granite Falls.

3. Water Supply Sources

Monthly Withdrawals & Purchases

	Average Daily Use (MGD)	Max Day Use (MGD)		Average Daily Use (MGD)	Max Day Use (MGD)		Average Daily Use (MGD)	Max Day Use (MGD)
Jan	0.9270		May	1.1502		Sep	1.0276	
Feb	0.7592		Jun	1.2167		Oct	1.3419	
Mar	0.9203		Jul	1.0936		Nov	1.1099	
Apr	1.0833		Aug	1.2242		Dec	1.0233	

Due to staff turnover, the MGD reported for September 2025 has been estimated, which probably results in a slight discrepancy between the average monthly supply and the total purchased water as an average annual daily supply.

Water Purchases From Other Systems

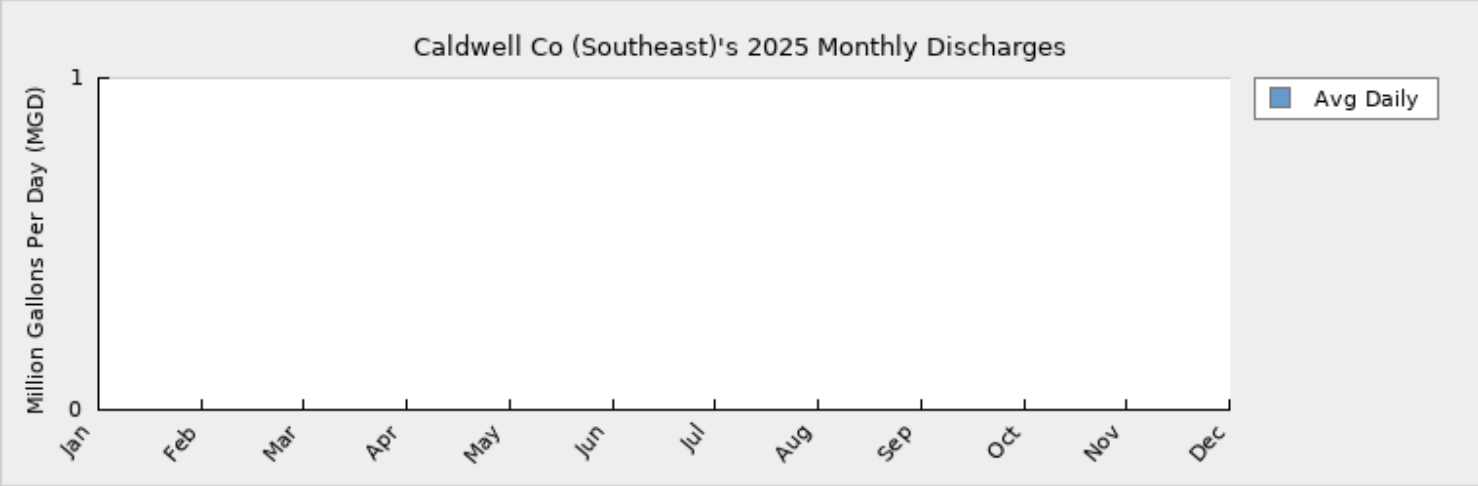
Seller	PWSID	Average Daily Purchased (MGD)	Days Used	Contract MGD	Contract Expiration	Contract Recurring	Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
Granite Falls	01-14-030	0.3510	365	0.5500	2036	Yes	Yes	12	Regular
Lenoir	01-14-010	0.7465	365	0.8500	2034	Yes	Yes	12	Regular

The contract from the City of Lenoir allows a maximum of 1.500 MGD to be distributed as needed between Caldwell County's Southeast, West, and North systems. However, the City of Lenoir indicates that there are allowances for the city to supply additional water above the 1.500 MGD maximum at a higher rate of cost. Accordingly, a cumulative maximum of 1.800 MGD is shown to be distributed among the three Caldwell County systems such that the demand to supply ratio does not exceed 80% at any system.

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.0000	May	0.0000	Sep	0.0000
Feb	0.0000	Jun	0.0000	Oct	0.0000
Mar	0.0000	Jul	0.0000	Nov	0.0000
Apr	0.0000	Aug	0.0000	Dec	0.0000



How many sewer connections does this system have? 145

How many water service connections with septic systems does this system have? 6,040

Are there plans to build or expand wastewater treatment facilities in the next 10 years? No

5. Planning

Projections

	2025	2030	2040	2050	2060	2070
Year-Round Population	15,408	15,010	15,015	15,020	15,025	15,030
Seasonal Population	0	0	0	0	0	0
Residential	0.8750	0.8755	0.8760	0.8765	0.8770	0.8775
Commercial	0.0365	0.0366	0.0367	0.0368	0.0369	0.0370
Industrial	0.0100	0.0101	0.0103	0.0106	0.0109	0.0110
Institutional	0.0060	0.0061	0.0062	0.0063	0.0064	0.0065
System Process	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075
Unaccounted-for	0.1605	0.1606	0.1608	0.1610	0.1611	0.1613

Demand v/s Percent of Supply

	2025	2030	2040	2050	2060	2070

Surface Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ground Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Purchases	1.4000	1.4000	1.4000	1.4000	1.4000	1.4000
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	1.4000	1.4000	1.4000	1.4000	1.4000	1.4000
Service Area Demand	1.0955	1.0964	1.0975	1.0987	1.0998	1.1008
Sales	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020
Future Sales		0.0000	0.0000	0.0000	0.0000	0.0000
Total Demand (MGD)	1.0975	1.0984	1.0995	1.1007	1.1018	1.1028
Demand as Percent of Supply	78%	78%	79%	79%	79%	79%



The purpose of the above chart is to show a general indication of how the long-term per capita water demand changes over time. The per capita water demand may actually be different than indicated due to seasonal populations and the accuracy of data submitted. Water systems that have calculated long-term per capita water demand based on a methodology that produces different results may submit their information in the notes field.

Your long-term water demand is 57 gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. conduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered elsewhere in your plan, indicate where the practices are discussed here. The County plans to implement demand management practices to reduce long-term water demand. These practices include maintaining accurate metering, monitoring system usage trends, evaluating unaccounted for water-losses, and increasing public education opportunities to inform citizens about the importance of conservation and leak repairs. These efforts are intended to improve system efficiency and reduce unnecessary water consumption over time.

Are there other demand management practices you will implement to reduce your future supply needs? We plan to impose consumption restrictions on activities including, but not limited to, irrigation, pool-filling, and residential car-washing during peak hours.

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs? The contract from the City of Lenoir allows a maximum of 1.500 MGD to be distributed as needed between Caldwell County's Southeast, West, and North systems. However, The City of Lenoir indicates there are allowances for the City to supply additional water above the 1.500 MGD maximum at a higher rate of cost. Accordingly, we are able to purchase more MGD from the City of Lenoir to reduce the demand to supply ratio.

How does the water system intend to implement the demand management and supply planning components above? he water system intends to implement the demand management and supply planning component above by establishing routine restrictions for peak hours and creating public education programming for our constituents. The water system also plans to do an audit of current meters and begin replacing meters older than 10-years to reduce inaccurate metering.

Additional Information

Has this system participated in regional water supply or water use planning? No

What major water supply reports or studies were used for planning?

Please describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ability to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance issues:

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