



Louisa County and the Towns of Louisa and Mineral

Water Source Overview

Major sources include Lake Anna, groundwater wells, an irrigation lake on Spring Branch, and the Northeast Creek Reservoir.

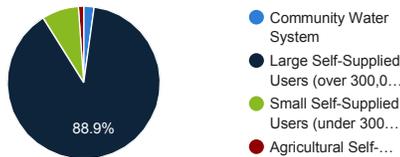
***Table 1:** Reported (2010) and projected (2040) water use by system type for Louisa County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	0.618	1.918
Large Self-Supplied Users (over 300,000 gal/month)	25.276	40.264
Small Self-Supplied Users (under 300,000 gal/month)	2.231	3.149
Agricultural Self-Supplied Users	0.312	0.312

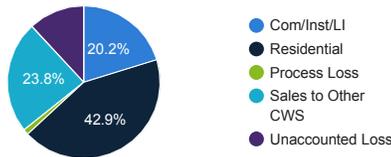
Water Use by System Type

Approximately 25,590 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

***Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



***Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



***Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Louisa County in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
2.90	25.54	4.77	40.87

***Figure 3:** Louisa County highlighted in the Commonwealth of Virginia



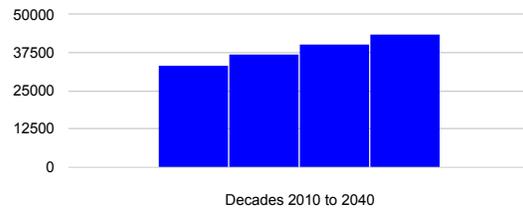
Projected Water Demand

Population and demand are projected to increase through the planning period. Future water demands in the County may exceed current supply by the year 2025. Louisa County partnered with Fluvanna County to create the James River Water Authority, which has a Virginia Water Protection (VWP) permit for a withdrawal from the James River.

***Table 3:** Louisa County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

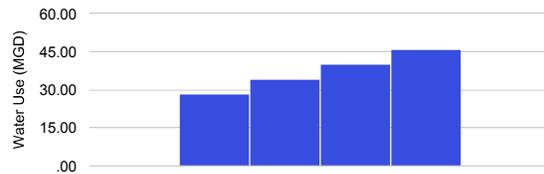
2010	2020	2030	2040	% Change (2010-2040)
33,153	37,092	40,338	43,436	30.3%

***Figure 4:** Louisa County population projections by decade for 2010, 2020, 2030 & 2040



***Table 4 & Figure 5:** Louisa County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
28.44	34.17	39.91	45.64	60.5%



Drought Management Practices

The County and Towns adopted ordinances for the implementation and enforcement of the regional Drought Response and Contingency Plan. (Louisa County and Towns Regional WSP)