



Nelson County

Water Source Overview

Major sources are the Tye River, Hat Creek, Lake Monacan, and groundwater wells.

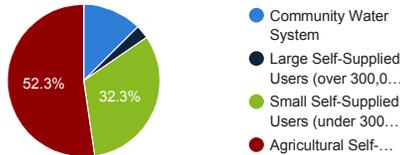
***Table 1:** Reported (2010) and projected (2040) water use by system type for Nelson County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	0.284	0.414
Large Self-Supplied Users (over 300,000 gal/month)	0.066	0.097
Small Self-Supplied Users (under 300,000 gal/month)	0.731	1.424
Agricultural Self-Supplied Users	1.185	1.185

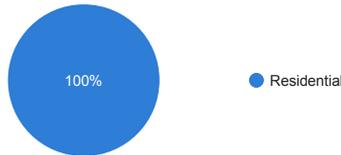
Water Use by System Type

Approximately 9,028 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 Nelson 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)
1.16	1.11	1.94	1.18

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



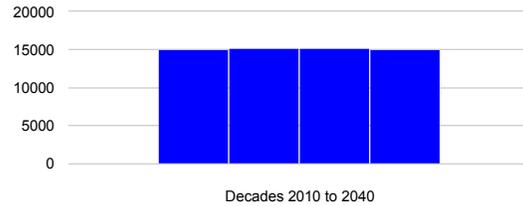
Projected Water Demand

Demand is projected to increase through the planning period. The highest rated alternative for municipal water supply is a Tye River withdrawal.

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

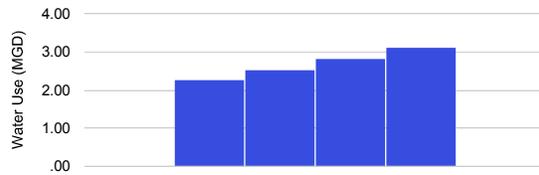
2010	2020	2030	2040	% Change (2010-2040)
15,020	15,091	15,044	14,976	-6.7%

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



***Table 4 & Figure 5:** Nelson 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)
2.27	2.55	2.84	3.12	37.7%



Drought Management Practices

The County adopted an ordinance for the implementation and enforcement of the Drought Response and Contingency Plan. (Region 2000 Regional WSP)