



**Spotsylvania County**

**Water Source Overview**

Major water supply sources include the Rappahannock and Rapidan rivers, Motts Run and Ni River reservoirs, and groundwater wells.

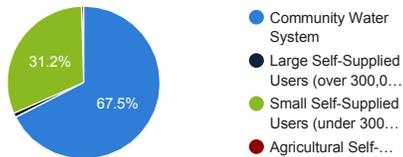
**\*Table 1:** Reported (2010) and projected (2040) water use by system type for Spotsylvania County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	10.482	29.166
Large Self-Supplied Users (over 300,000 gal/month)	0.145	0.362
Small Self-Supplied Users (under 300,000 gal/month)	4.841	13.669
Agricultural Self-Supplied Users	0.070	0.070

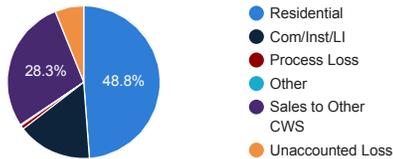
**Water Use by System Type**

Approximately 38,881 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 Spotsylvania 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)
5.23	10.31	14.23	29.03

**\*Figure 3:** Spotsylvania County highlighted in the Commonwealth of Virginia



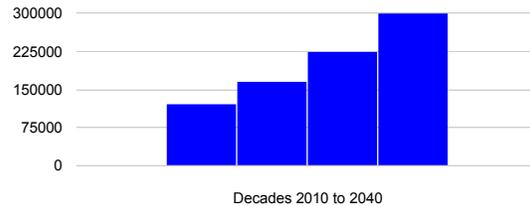
**Projected Water Demand**

Population and demand are projected to increase through the planning period. Existing water sources are expected to meet projected demands.

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

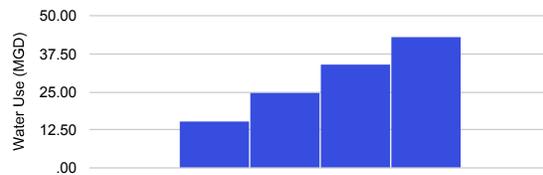
2010	2020	2030	2040	% Change (2010-2040)
122,397	166,236	223,917	299,632	145.1%

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



**\*Table 4 & Figure 5:** Spotsylvania 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)
15.54	24.78	34.02	43.27	178.5%



**Drought Management Practices**

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