



Fairfax County and the Towns of Clifton, Herndon, and Vienna

Water Source Overview

Major water sources include the Potomac River, the Occoquan Reservoir, and groundwater wells.

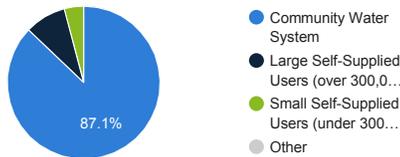
***Table 1:** Reported (2010) and projected (2040) water use by system type for Fairfax County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	173.768	206.391
Large Self-Supplied Users (over 300,000 gal/month)	17.456	20.772
Small Self-Supplied Users (under 300,000 gal/month)	8.158	8.159
Agricultural Self-Supplied Users	0.066	0.066

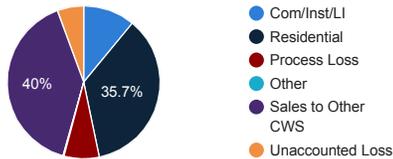
Water Use by System Type

Approximately 108,652 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 Fairfax 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)
22.83	176.62	25.61	209.78

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



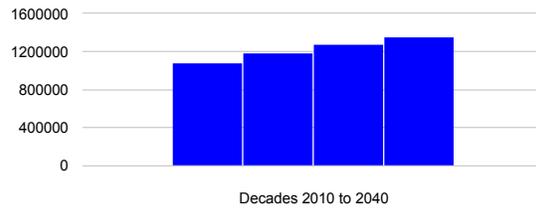
Projected Water Demand

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

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

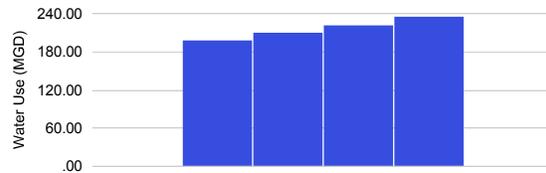
2010	2020	2030	2040	% Change (2010-2040)
1,081,726	1,182,609	1,271,995	1,350,245	0.0%

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



***Table 4 & Figure 5:** Fairfax 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)
199.45	211.43	223.41	235.39	18.0%



Drought Management Practices

The County and Towns follow the declarations of the Metropolitan Washington Water Supply and Drought Awareness Response Plan. Drought enforcement is addressed through ordinances adopted by the County and Towns. (Northern Virginia Regional WSP)