



King William County and the Town of West Point

Water Source Overview

Major water sources are groundwater wells.

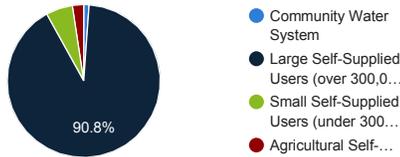
***Table 1:** Reported (2010) and projected (2040) water use by system type for King William County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	0.219	4.111
Large Self-Supplied Users (over 300,000 gal/month)	17.972	17.972
Small Self-Supplied Users (under 300,000 gal/month)	1.118	1.218
Agricultural Self-Supplied Users	0.477	0.477

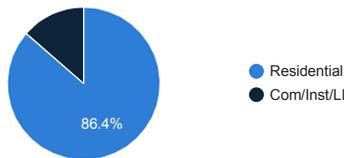
Water Use by System Type

Approximately 6,581 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 King William 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)
19.31	0.47	23.31	0.47

***Figure 3:** King William County highlighted in the Commonwealth of Virginia



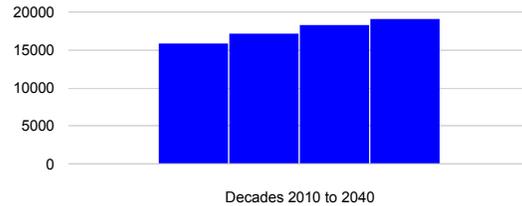
Projected Water Demand

Population and demand are projected to increase through the planning period. Rapid growth predicted for King William County and the Town of West Point result in projections that exceed current community water system supplies by 2020 for King William (deficit of 0.925 MGD) and 2030 for West Point (deficit of 0.036 MGD). New well development and an intake on the Pamunkey River are the County's preferred alternatives for source water. Alternative sources listed for the Town include system upgrades and groundwater permit modifications that allow for greater use of existing wells.

***Table 3:** King William County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/2013)

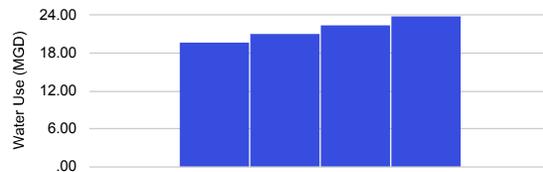
2010	2020	2030	2040	% Change (2010-2040)
15,935	17,308	18,316	19,191	26.7%

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



***Table 4 & Figure 5:** King William 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)
19.79	21.12	22.45	23.78	20.2%



Drought Management Practices

The County and Town each adopted a "water supply emergency ordinance" for the implementation and enforcement of the Drought Response and Contingency Plan. (Middle Peninsula Regional WSP)