



City of Chesapeake

Water Source Overview

Major sources in the City include purchased water, the Northwest River, groundwater wells, and the Elizabeth River.

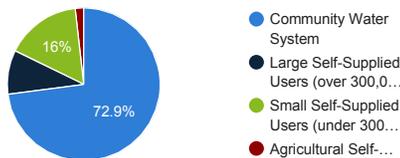
***Table 1:** Reported (2010) and projected (2040) water use by system type for Chesapeake in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	11.643	19.268
Large Self-Supplied Users (over 300,000 gal/month)	1.491	1.491
Small Self-Supplied Users (under 300,000 gal/month)	2.552	2.472
Agricultural Self-Supplied Users	0.285	0.471

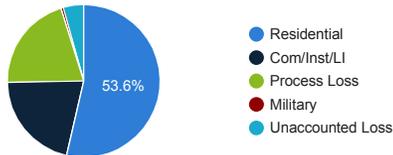
Water Use by System Type

Approximately 33,600 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 Chesapeake in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
11.48	4.49	17.20	6.50

***Figure 3:** Chesapeake highlighted in the Commonwealth of Virginia



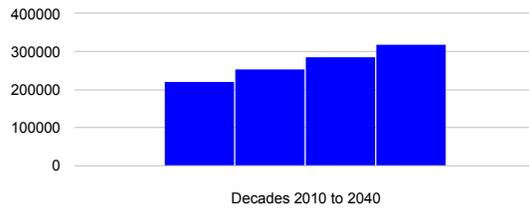
Projected Water Demand

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

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

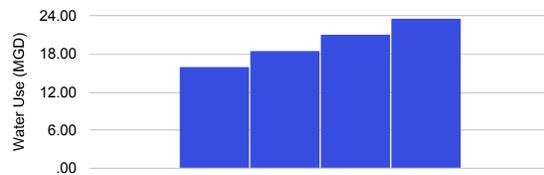
2010	2020	2030	2040	% Change (2010-2040)
222,209	253,813	285,153	318,488	43.2%

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



***Table 4 & Figure 5:** Chesapeake 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)
15.97	18.55	21.12	23.70	48.4%



Drought Management Practices

The City adopted an ordinance for implementation and enforcement of the Drought Response and Contingency Plan. [Hampton Roads Regional WSP]