



City of Charlottesville

**Water Source Overview**

The major source is purchased water.

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

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	4.991	6.278

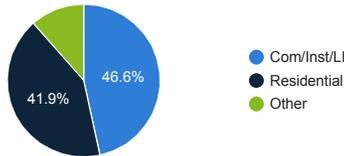
**Water Use by System Type**

There are no reported users of 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 Charlottesville in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
0.00	4.99	0.00	6.28

**\*Figure 3:** Charlottesville highlighted in the Commonwealth of Virginia



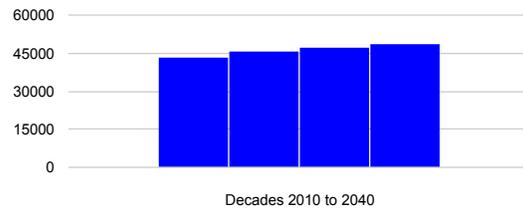
**Projected Water Demand**

Population and demand are projected to increase through the planning period. A deficit of 0.41 MGD is estimated by 2035 in the urban areas. To increase supply, the plan is a two-phase expansion of the existing Ragged Mountain Reservoir.

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

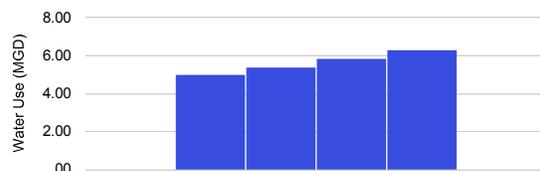
2010	2020	2030	2040	% Change (2010-2040)
43,475	45,636	47,252	48,545	11.6%

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



**\*Table 4 & Figure 5:** Charlottesville 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)
4.99	5.42	5.85	6.28	25.8%



**Drought Management Practices**

The City adopted an ordinance for implementation and enforcement of the Drought Response and Contingency Plan. [Albemarle County, City of Charlottesville and Town of Scottsville Regional WSP]