



City of Portsmouth

Water Source Overview

Major sources are groundwater wells and four interconnected reservoirs (Speights Run and Lakes Meade, Cahoon, and Kilby).

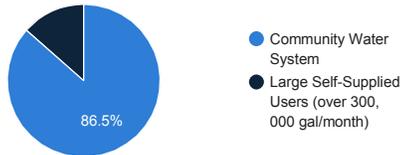
***Table 1:** Reported (2010) and projected (2040) water use by system type for Portsmouth in MGD

| Type | Reported Use 2010 MGD | Projected Use 2040 MGD |
|---|-----------------------|------------------------|
| Community Water System | 13.969 | 14.833 |
| Large Self-Supplied Users (over 300,000 gal/month) | 2.185 | 2.185 |
| Small Self-Supplied Users (under 300,000 gal/month) | 0.000 | 0.000 |

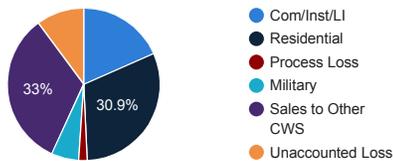
Water Use by System Type

Three 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 Portsmouth in MGD

| Reported 2010 Groundwater Use (MGD) | Reported 2010 Surface Water Use (MGD) | Projected 2040 Groundwater Use (MGD) | Projected 2040 Surface Water Use (MGD) |
|-------------------------------------|---------------------------------------|--------------------------------------|--|
| 4.93 | 11.22 | 5.10 | 11.92 |

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



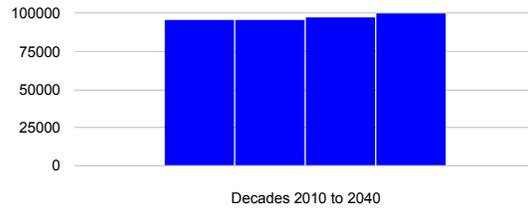
Projected Water Demand

Population and demand are projected to increase through the planning period. Existing supplies are expected to meet projected demands in the HRPDC region.

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

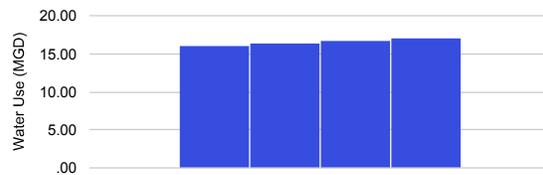
| 2010 | 2020 | 2030 | 2040 | % Change (2010-2040) |
|--------|--------|--------|--------|----------------------|
| 95,535 | 95,717 | 97,826 | 99,916 | 4.2% |

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



***Table 4 & Figure 5:** Portsmouth 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) |
|-----------------------|------------------------|------------------------|------------------------|----------------------------|
| 16.15 | 16.44 | 16.73 | 17.02 | 5.3% |



Drought Management Practices

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