



Groundwater Study Frequently Asked Questions (FAQs)

Q.7 Have the Loudoun or USGS water level monitoring wells shown changes over time?

A: Some wells have shown changes over time due to either nearby pumping at other wells, nearby development and regional earthquake (at one well). Overall, there does not appear to be a pattern of widespread nonreversible "water bankruptcy." There are two County wells showing water level declines of several feet from nearby pumping. Most County wells are showing a slight increase, but these are relatively newer wells with a shorter period of record. Two of the three USGS wells in Loudoun have been steadily declining for several decades. A USGS well in Fauquier County displayed a 25-foot decline last year from pumping 300 feet away after many years of no interference.

Read more about these repeat measurements at:

[https://loudoungroundwater.org/wp-content/uploads/2026/01/Appendix Loudoun County Monitoring Wells.pdf](https://loudoungroundwater.org/wp-content/uploads/2026/01/Appendix_Loudoun_County_Monitoring_Wells.pdf)

[https://loudoungroundwater.org/wp-content/uploads/2026/01/Appendix USGS Monitoring Wells.pdf](https://loudoungroundwater.org/wp-content/uploads/2026/01/Appendix_USGS_Monitoring_Wells.pdf)