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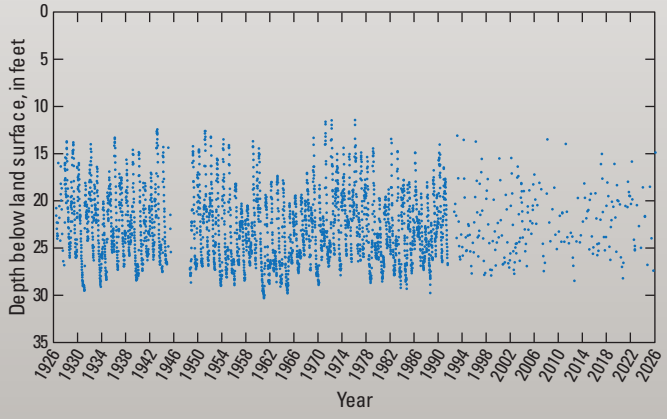
U.S. Geological Survey Monitoring Milestones—Oe-151 at Woodgate, NY

On July 9, 1926, monitoring well Oe-151 at Woodgate, New York (U.S. Geological Survey [USGS] station number 433112075091501) recorded its first groundwater measurement. Since then, it has reached a 100-year milestone for data collection. Well Oe-151 is the first well in the Climate Response Network (CRN) to reach a Centennial milestone. The well is part of the USGS CRN, which is a National network of wells selected to monitor natural groundwater conditions.

Observation well Oe-151 is 31 feet deep and was dug by hand in 1926 in Oneida County, New York. The well measures water levels from a shallow sand and gravel aquifer. From 1926 through 1991, groundwater levels were measured weekly by a local observer, with the only interruption occurring between 1945 and 1948. Beginning in 1991, continuous groundwater-level measurements were made using electronic water-level sensors. Starting in 1992, the USGS supplemented these records with manual measurements that were collected either monthly or quarterly.

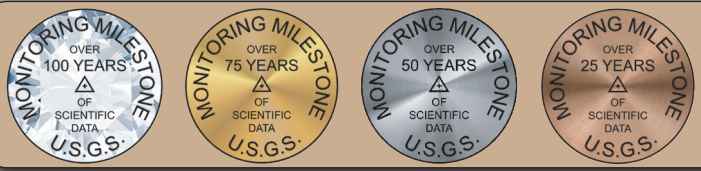
Well Oe-151 is one of 186 CRN wells Nationwide that are federally funded by the SECURE Water Act of 2009 (https://www.congress.gov/bill/111th-congress/house-bill/146) and through the USGS Groundwater and Streamflow Information Program (https://www.usgs.gov/programs/groundwater-and-streamflow-information-program). Data from CRN wells, and other USGS wells, are available online from the https://waterdata.usgs.gov/.



Manual field measurements for observation well Oe-151 at Woodgate, New York (USGS station 433112075091501). Graph generated from data available at USGS Water Data for the Nation.

In 1928, the well was under a windmill tower. As of 2026, the windmill tower in the 1928 photograph is still in place. Photograph courtesy of Woodgate Library, photograph taken in 1928, image found on April 20, 2026.

By 2026, the well was protected in a USGS shelter with electronic-measuring sensors and data-transmission equipment powered by solar energy. USGS instrumentation provides near real-time groundwater data. Photograph taken on June 15, 2026, by the U.S. Geological Survey.



USGS Monitoring Milestones—Recognizing monitoring locations for their valuable longevity at 100, 75, 50, and 25 years.

For more information about U.S. Geological Survey Centennial streamgages, contact the Climate Response Network Coordinator (waternetwork@usgs.gov) or visit https://www.usgs.gov/mission-areas/water-resources/science/centennial-streamgages and https://www.usgs.gov/mission-areas/water-resources/science/climate-response-network.

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