

Lincoln University Carver Farm Wetland Monitoring Station

Description/Location

- Cole County, Missouri
- Research farm operated by Lincoln University's Department of Agriculture and Environmental Sciences
- Wetland is a constructed restoration site positioned on an alluvial terrace along the Moreau River. Water is cycled through the wetland from an aquaculture research center.
- Period of record – March 1, 2016 to present

Monitoring Station

- Data are recorded and transmitted using a Sutron Satlink 2 datalogger.
- Data are transmitted hourly to give near real-time conditions.
- Station is powered by a 12 volt deep cycle battery recharged by solar panel (photovoltaic).
- Monitoring instruments mounted on a 7 ft. steel platform.

Weather Instrumentation

- Tipping bucket rain gauge
- Air temperature/relative humidity sensor
- Pyranometer (solar radiation)
- Barometer
- Wind speed/direction sensor

Hydrologic Monitoring

- The groundwater monitoring well is installed to a depth of 28 feet. Fluctuations in groundwater are measured with a submersible pressure transducer housed inside a drive-point well. The well casing is 1 ¼" galvanized steel pipe with the bottom 4 ft. containing the screened opening.