



Missouri
Department of
Natural Resources

Four Rivers Conservation Area Wetland Monitoring Station

Location/Description

- Vernon County, Missouri
- Area managed by Missouri Department of Conservation
- Little Osage River bottomland hardwood forest
- Period of record – March 17, 2010 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 20 feet. Fluctuations in groundwater are measured with a submersible pressure transducer housed inside a drive-point well. The well casing is 1 1/4" galvanized steel pipe with the bottom 4 ft. containing the screened opening.

Soil Moisture Probes

- Decagon Model 5TE probes are used to collect volumetric soil moisture content and soil temperature at 5, 10, 25, 50 and 100 centimeter depths.