Agricultural Water Quality Monitoring Program
*Measuring the effectiveness of voluntary soil and water conservation practices in Missouri.*

**Program Objectives and Outcomes**
1. Evaluate the effectiveness of conservation practices.
3. Document grower’s continual improvements.
4. Improve the performance of cropping systems in Missouri.

**Conservation Practices**

**Water Quality Data**
- Runoff flow/volume
- Sediment (TSS)
- Nitrate (NO2-N + NO3-N)
- Total Nitrogen (TKN)
- Total Phosphorus (TP)

**Real Time/Continual Climate Data**
- Wind speed and direction
- Precipitation
- Barometric pressure
- Temperature
- Relative humidity
- Solar radiation

17 monitoring stations in six counties
Case Studies

Livingston County Study
Crops: Continuous soybean
Practice: Cover crops and tile drain terraces
Control Area: No cover crop
Study Area: Annual cover crop

Cooper County Study
Crops: Corn / soybean
Practice: Terrace and grass waterway
Control Area: In field at terrace outlet
Study Area: In grass waterway

Marion County Study
Crops: Corn / soybean
Practice: Cover crops and grass waterway
Control Area: No soil conservation practice
Study Area: Cover crop and grass waterway

For more information please visit the Missouri Corn Growers Association website at mocorn.org/resources/water-quality.

Nothing in this document may be used to implement any enforcement action or levy any penalty unless promulgated by rule under chapter 536 or authorized by statute.

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