

Field Crops Research Protocols

Tile water monitoring

Objective: To monitor the tile water coming from multiple fields under multiple forms of management across the state of Iowa in 2015.

Farmer-cooperator will:

- Collect bi-weekly (2x per month) grab samples during periods of tile flow from **April 2015–October 31, 2015** for a maximum of **14** samples.
- Agree to send samples within 48 hours of collecting grab samples to the Iowa Soybean Association (ISA) water lab in order for them to determine, among other things, NO₃-N concentrations.
- Provide to Practical Farmers of Iowa staff the results of tile water analysis provided by ISA.
- Provide field management and yield information.
- Allow use of data by PFI, ISA and partners.

Practical Farmers of Iowa will:

- Make sure farmer-cooperator receives sampling kits throughout the year.
- Cover all costs of shipping sampling kits (provided by ISA) to farmer-cooperator and from farmer-cooperator to ISA.
- Cover the cost of an ice pack that is to accompany grab samples in Styrofoam cooler when being shipped from farmer-cooperator to ISA.
- Monitor progress of project and provide support when needed.
- Publish results in a PFI research report, on PFI website, and potentially other outlets.