

# Transforming Drainage Data Visualization Tool

<https://transformingdrainage.org/tools/data-visualization/>

## Overview

This interactive tool provides high-resolution visualization interfaces for users to explore data from 39 research sites studying conservation drainage practices. These sites have controlled drainage, saturated buffers, or drainage water recycling infrastructure installed in comparison to free (non-managed) drainage. Drain flow and water quality were measured on a daily basis and can be visualized at different time scales including daily, monthly, and annual. In addition, agronomic and soil parameters were measured to illustrate how the agricultural system changes with differing conservation drainage practices.

Visualization tools like this aid in user comprehension of differences across sites and years in terms of variability across and within seasons. The tool allows users to download their custom figures for use in presentations or publications.

## What the tool provides

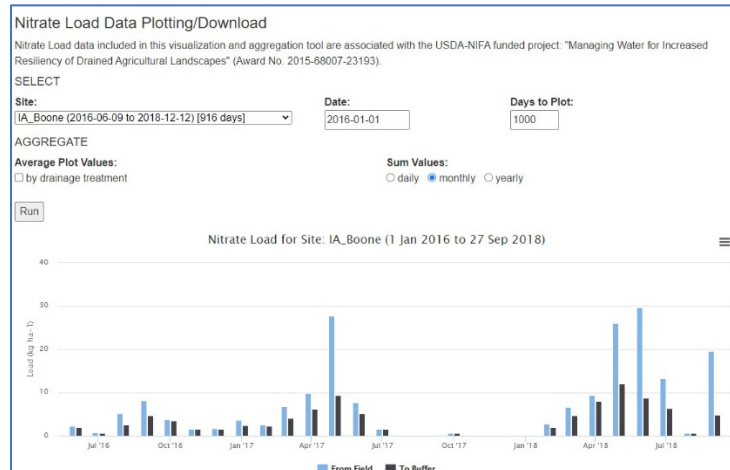
Dynamic and interactive tool allowing users to select the practice, site, year, and measurement of interest.

Download customized figures for:

- Drain Flow
- Nitrate Load
- Water Table Depth
- Water Quality
- Soil Moisture

Two-page research site summaries as supplementary information.

Access research data via hyperlink to Transforming Drainage research data website.



User interface of the Transforming Drainage Data Visualization Tool. Users can explore data from 42 research sites studying conservation drainage practices.

## How the tool can be used

The tool can be used to address questions and explore opportunities by many users, for example:



**Drainage researchers** can use it to understand and visualize variation across sites and years in water quality measurements. Data can be downloaded through a linked interface for regional or watershed analyses.



**Conservation professionals and drainage engineers** can use this tool to establish benchmarks for suitability of conservation practices.



**Educators** can use the interface with students or workshop participants to highlight the challenges and opportunities when managing agricultural systems for improved water quality.

## For More Information

The tool is freely available at <http://drainagedata.org/>.

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