590 Nutrient Application
Restriction Maps:
An Overview and Demonstration

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590 GeoPDFs

- “590” Spreading Restriction Maps Online
- Statewide, county, section level
- Contain all 590 mapable restrictions and setbacks
- Editable
- GIS-like layers
- Consistent product
Specifications

• Adobe Reader 8.1 or later is preferred
• Internet Browser
  – Internet Explorer 7, or
  – Mozilla Firefox 2 or 3
• 512K or greater RAM
• 14.5MB hard disk space
• Pentium III processor or equivalent
• DSL or cable internet connection recommended
To access currently available Nutrient and Manure Application Restriction Maps, click here.

To access an example Nutrient and Manure Application Restriction Map, click here (PDF). To view an example Restriction Map with features created by the GeoPDF Toolbar, click here (PDF).

Restrictions Map Specifications:
- Each individual map covers one section (one square mile).
- Contains in GeoPDF file format that allows user editing, query, and printing options.
- For more information about GeoPDFs and their features, click here.
- Maps contain an ortho-photo, major land features, soil survey mapping unit boundaries, and
- Managed resources.
Choosing your Map

NRCS 590
Nutrient Application Restriction Maps

**Select your preferred search method by clicking your county on the map, or by clicking the "Select by Township/Range/Section" tab.**

Click your County or Select by Township/Range/Section

Click on your county in the map below to view a county map displaying the civil townships; navigate to the township and section of interest to download a map. (system requirements)

The maps provided through this website contain many of the features required for a compliant NRCS 590 nutrient management plan under ATCP 50. Several required landscape features are not included in these maps, such as wells and locally identified features that serve as direct conduits to groundwater. Field verification of all landscape features is required!

Back to...
- Home Page (this site)
- DATCP Nutrient Management
- DATCP MMAS Page

Information & Supporting Materials
- Soil Descriptions by County
- Restrictions Guidance
- System Requirements
- Contact Information

How Tos
- Use GeoPDFs
- Identify PLLS sections
Choosing your Map

Several County LCD offices provide mapping services and will often customize the maps for the landowner/planner.

Also, LCD maps may include features such as wells, sinkholes, etc that the NRCS/DATCP maps do not!!!

See Handout for those counties!
The Legend

Tells you where you are

White Space for adding custom legend/notes/title, etc

Tells you when the map was made

Wisconsin 590 Nutrient Management Application Restrictions

This map has been developed utilizing the nutrient application restrictions from the September 2005 Wisconsin NRCS 590 Nutrient Management Practice Standard. This map is an initial inventory of nutrient spreading risks which must be field verified to identify other risk areas such as concentrated flow channels, wetlands, and conduits to groundwater. See the “Considerations” section of the 590 practice standard for additional planning suggestions.


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Working with the Layers

**You Can:**
- Turn each on/off
- Print the map with layers on/off

**Why??**
- Helps to see the aerial underneath
- Differentiate between colors/restrictions
- Makes an easier to read map for the producer
SWQMAss

Intermittent Stream = No Buffer

Lake/pond = 1000ft buffer

Perennial Stream = 300ft Buffer
Fall N Restriction

Source: N restricted soils listed in the April 2007 WI 590 Tech Note Appendix 1.

Soils were added/removed from the December 2006 list. Maps from other sources may not contain all of the N restricted soils or may have restrictions on soils that are no longer valid.
Slope Restrictions
Overlapping Restrictions

Yellow + Red = Orange
(N Restriction) + (Slope > 12%) = Orange
There’s more than one restriction to follow!
Object Data Tool

- Lets you highlight a soil type to see the name, description, N restriction
GeoToolbar

Let’s you customize the maps:

- Draw, fill polygons with various colors,
- Measure Area, Length
- Add notes,
- Obtain more detailed information from the map

GeoToolbar Download

- The 1st time you open a map, the site will prompt you to download the free GeoToolbar.
- SAVE the .exe file, then run it from your computer.
GeoToolbar

GeoPDF Toolbar:
- Select a coordinate to Google Map
- Click a point to see exact coordinates
- Measure length/area
- Import/export data

GeoMark Toolbar:
- Draw field boundaries/concentrated flow channels
- Add comments in sticky note style
GeoToolbar

- Draw Field Boundaries
- GeoPolygon
Change GeoPolygon Color

• Hover over line
• Right click to get options
• Choose “Properties”
Change GeoPolygon Color

- Choose colors to distinguish:
  - Crop type
  - Spreading Rate
  - Restrictions effecting field
Adding Text

Typewriter or Text Box Tool

Click outside of the field boundary to insert text, then move the new text to where you want it to go.
Customized Map

Map Title

Wells added

Fields Delineated and Color Coded

Field Names Added

Map Legend
Known Issues

- 2005 aerial for most counties
- Color/restriction overlap
- Some flat screens – must tilt screen to see colors
- 24K Hydrography – Perennial vs. Intermittent; tiled areas
- No Topo map – some parts of a D slope may be <12%
- Can't print imported layers or GeoStamps
- Trouble downloading maps

All of these we hope to address in some way for future versions of the maps.
Status
I can’t stress enough…

You **must field verify** all landscape features and restricted areas to **ensure map accuracy** and to **identify other risk areas** such as concentrated flow channels, sinkholes, karst areas, wells!!
Contact Us

This is an evolving project and we want your input!

Questions and problems with the maps should be directed to:

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