OVERVIEW OF NUTRIENT MANAGEMENT

LCC Meeting – March 21, 2016

What is Nutrient Management?

- Manage the amount, source, placement, form and timing of the application of nutrient and soil amendments.
- Develop a plan to address the application and budgeting of nutrients for plant production.
- Intended to minimize nutrient entry into surface water, groundwater and atmospheric resources while maintaining and improving the physical, chemical and biological condition of the soil.

Nutrient Management State Standard

- Manure, commercial fertilizer and other nutrients applied in accordance with a nutrient management plan.
  - Addresses crop needs
  - Limit or reduce discharges to waters of the state
  - Proper timing of nutrient applications
  - Includes PI and T

NR 151.07, Wis. Adm. Code

When is a plan required?

- Cost-share offer is made to implement nutrient management ($28/acre).
- Causing a significant discharge (designated by DNR).
- Regulated by local manure storage ordinance (Chapter 30) or DNR WPDES permit.
- Accepting NM planning or manure storage cost share funds.
- Participating in Farmland Preservation Program.

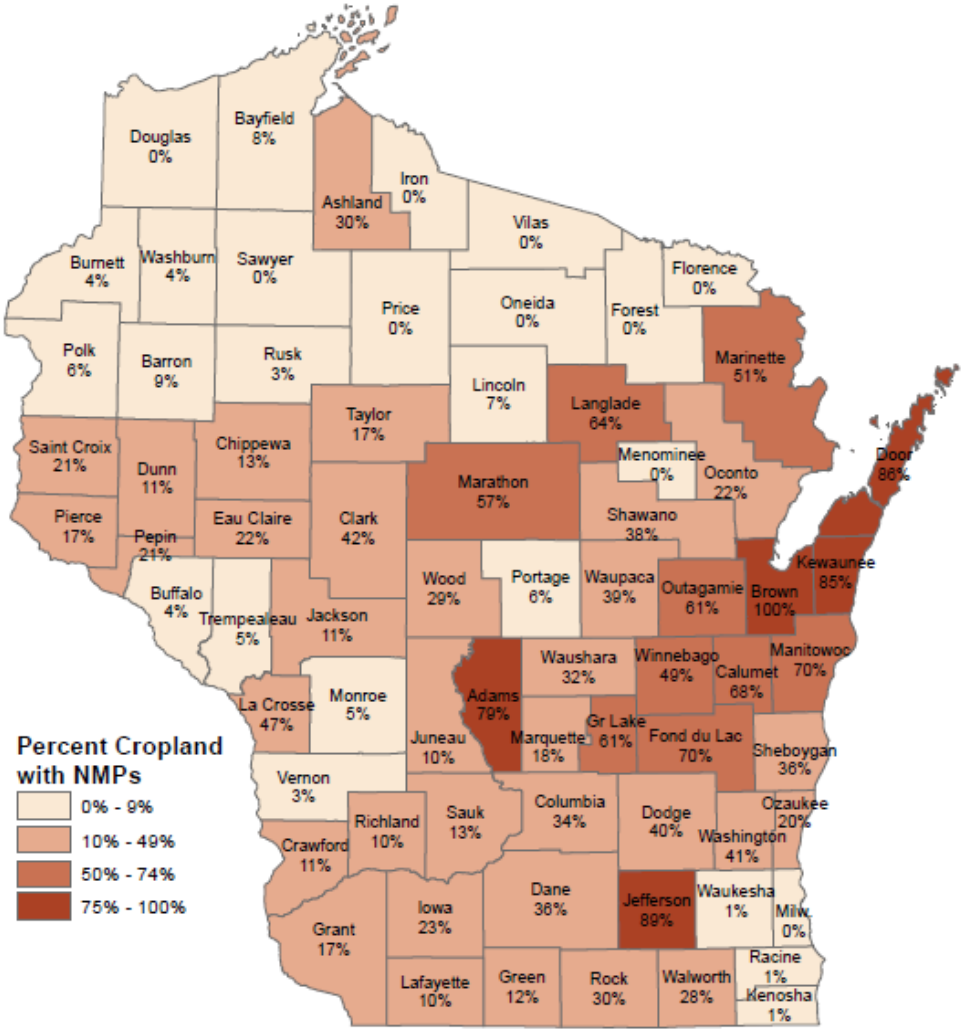
Dane County Statistics

Nutrient Management Reported by County

63 of 72 WI Counties Reported NM Plans in 2015

Most Acreage with NMPs

Brown (177K)	Dane (130K)	Manitowoc (122K)
Fond du Lac (173K)	Dodge (123K)	Kewaunee (114K)
Marathon (171K))	Outagamie (123K)	Rock (87K)
Jefferson (151K)	Clark (123K)	Calumet (80K)



Source: Wisconsin Nutrient Management Update, DATCP, 2015

What is SnapPlus?

SnapPlus is a nutrient management planning software program designed to help prepare plans that meet NRCS (WI) Technical Standard 590.

SnapPlus calculates

- Crop nutrient recommendations
- Tolerable soil loss
- Rotational Phosphorous Index (PI)
- Rotational Phosphorus balance

SnapPlus
Wisconsin's Nutrient Management Planning Software

SnapPlus Variables

- RUSLE2 Variables
  1. Soil Type
  2. Slope
  3. Slope Length
  4. Tillage
  5. Crop
  6. Residue
  7. Yield
  8. Average Rain Fall
- Additional Variables
  1. Distance to Surface Water
  2. Below Field Slope to Water
  3. Initial Soil Test P Values
  4. Nutrients

Example in SnapPlus