

Wisconsin Department of Natural Resources

WI-2015 Cooperative Soil Survey Work Planning Workshop

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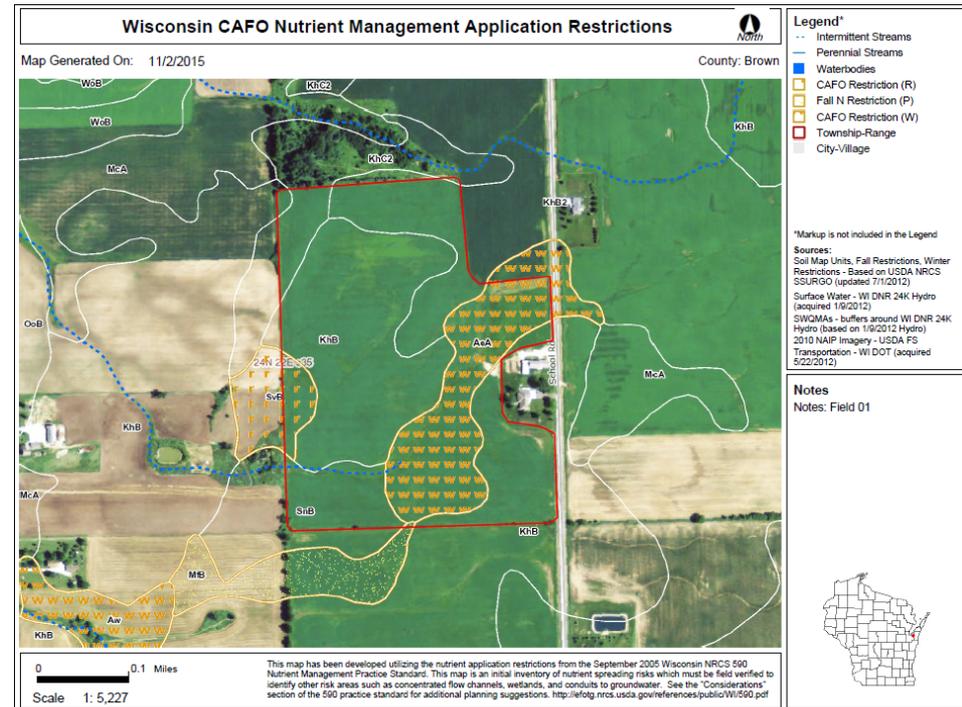
Soils Data Use & CAFO Permits

- CAFO Nutrient Management Plans
 - Soils data plays a crucial role in nutrient management plan development.
 - Soils data is best available information available to develop NMPs.
 - Allow farms and consultants to field verify and document certain soil properties ('R' & 'W').



Soils Data Use & CAFO Permits

- NR 243 Requirements
 - NR 243.14(2)(b)6., Manure or process wastewater may not be applied on areas of a field with a depth to groundwater or bedrock of less than 24 inches.



Soils Data Use & CAFO Permits

- NR 243 Requirements
 - NR 243.14(2)(b)10., On a field with soils that are 60 inches or less over fractured bedrock, manure or process wastewater may not be applied on frozen ground or where snow is present.



Soils Data Use & CAFO Permits

- NR 243 Requirements
 - Soil texture class determine maximum rates of unincorporated liquid manure and process wastewater applied within a SWQMA.

TABLE 3 Maximum Rates of Unincorporated Liquid Manure and Process Wastewater Applied Within a SWQMA	
Surface Texture Class ¹	Max Application Rate (gallons/acre)
Fine	5,000
Medium	7,500
Coarse	10,000

¹ Fine – clay, silty clay, silty clay loam, clay loam.

Medium – sandy clay, sandy clay loam, loam, silt loam, silt.

Coarse – loamy sand, sandy loam, sand. This category includes peat and muck based on their infiltration capacity.

Soils Data Use & CAFO Permits

- NR 243 Requirements
 - Slopes affect winter spreading requirements:
 - Solid Manure
 - 0-6% allowed with restrictions,
 - 6-9% allowed with greater restrictions,
 - >9% prohibited.
 - Liquid Manure (prohibited – emergency only)
 - 0-2% allowed with restrictions (max 7,000 gals/acre),
 - 2-6% allowed with greater restrictions (max 3,500 gals/acre),
 - >6% prohibited.

Soils Data Use & CAFO Permits

- NR 243 Requirements
 - NR 243.141 manure stacking / Table 9 NRCS Standard 313 (2005)
 - Hydrologic Soil Groups B, C, or D*
 - *NR 243.141(3)(b).
 - Depth to groundwater – 3ft
 - Depth to bedrock – 3-5ft
 - Land slope down gradient of stack - <6% or <3%

Soils Data Use & CAFO Permits

- NR 243 Requirements
 - Manure Irrigation
 - NR 214.14(1)(c), The ground surface of the system shall have a minimum separation distance to bedrock and groundwater of at least 5 feet.



QUESTIONS?

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<http://dnr.wi.gov/topic/AgBusiness/CAFO/NutrientManagementPlan.html>

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