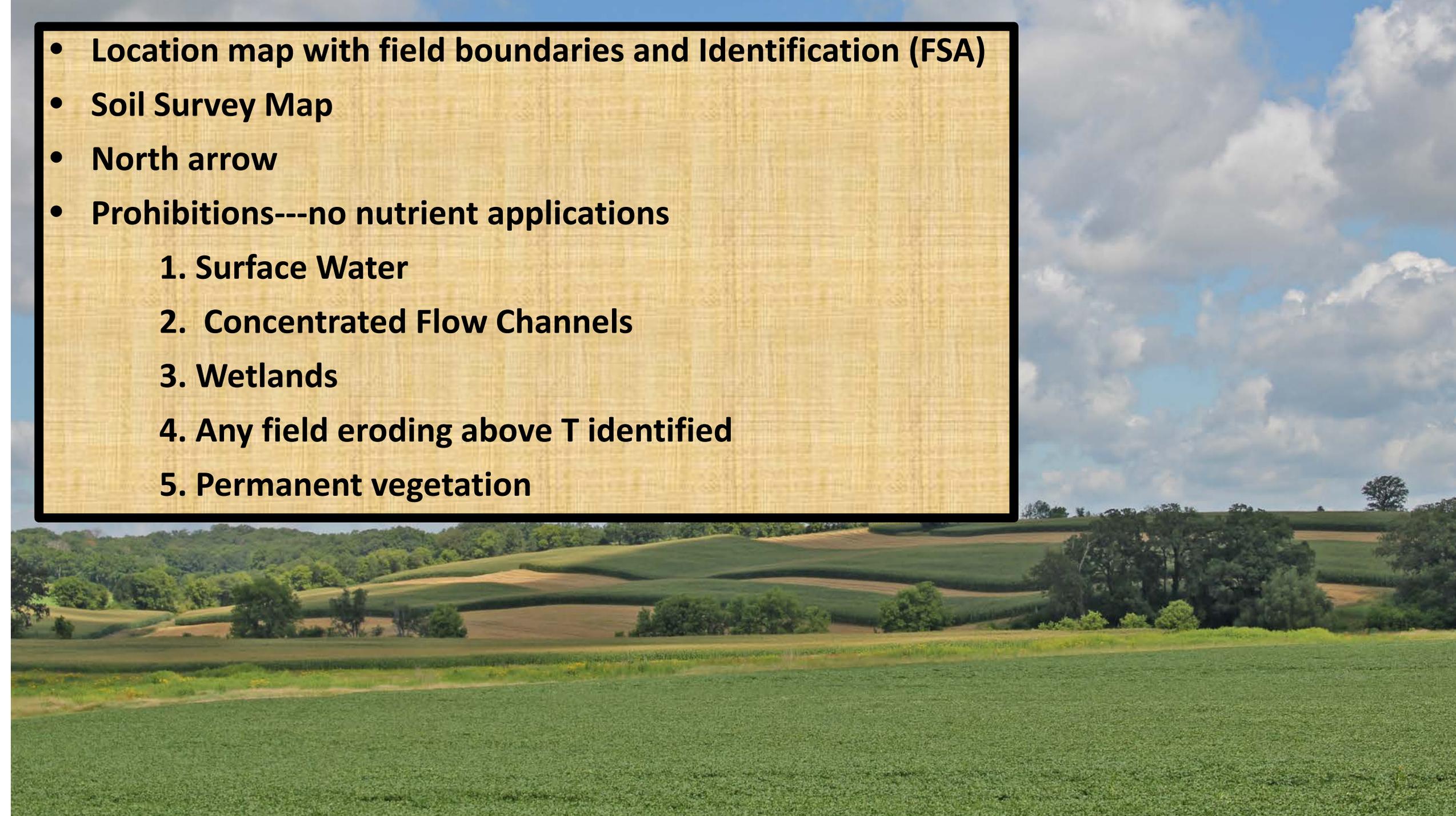


# WHAT HAS TO BE INCLUDED IN THE “NEW” 590 PLAN?



- **Location map with field boundaries and Identification (FSA)**
- **Soil Survey Map**
- **North arrow**
- **Prohibitions---no nutrient applications**
  - 1. Surface Water**
  - 2. Concentrated Flow Channels**
  - 3. Wetlands**
  - 4. Any field eroding above T identified**
  - 5. Permanent vegetation**



## Conduits to ground water

1. Wells—Regulated Potable Water Wells, Community wells, Non-Community Wells
2. Sinkholes
3. Swallets
4. Fractured Bedrock (surface indicators)
5. Mine Shafts & Mines & Quarries
6. Tile inlets
7. Ground water Recharge



# WINTER SPREADING RESTRICTIONS:

- Over 6% Slope
- SWQMA
- DNR Well Compensation Funds (Contaminated Wells)
- Silurian Dolomite Soils
- Areas identified as contributing runoff to surface or groundwater



# Winter Spreading Details:

- Reflect all manure anticipated during frozen or snow covered period or a minimum of 14 days of manure whichever is greater
- Document storage capacity for each manure type
- Stacking Capacity for 16% DM manure (site stacking locations)
- Manure spreading plan for Winter Implementation matching restrictions
- May not spread on slopes greater than 6% or Document the required Mitigation plan practices specific to each field

# N Restricted Soil

- Soil depth of 5 feet or less over bedrock
- Within 1000 feet draining to community potable water wells



# P (High Permeability) Restricted Soils

1. Hydrology A group soils
2. Permeability of 6 inches/hour or more in upper 20 inches
3. Permeability of 0.6 inches/hour or more in upper 40 inches

# W (Wet Soils)

- Apparent Water Table within 12 inches of the surface
  - Continuous saturated zone depth of at least 6 feet & no unsaturated zone below it
    1. Saturated
    2. Flooded or ponded (anaerobic conditions)
- Look at low areas of landscape.  
May include non-hydric soils---  
focus on mottling



# R (Rock Soils)

- Less than 20 inches to bedrock  
(solid or unconsolidated material)
- Must field verify depth (pictures)  
to determine more than 20 inches



# Erosion Control Documented

- Concentrated Flow Areas Treated  
No reoccurring Gullies
- Tolerable Soil Loss on all Cropland  
RUSLE2 Calculations (SNAP+)  
No Ephemeral Erosion



# Test Reports

- Soil Test.....NRCS Programs October 1, 2015 (current on the front end) & retest for “applied 590” at the end of the contract
- Tissue Test as appropriate
- Manure Sample Tests as appropriate

Department of Soil Science      Soil & Plant Analysis Lab, 8452 Mineral Point Rd, Verona, WI 53593  
 College of Agricultural and Life Sciences      Soil & Forage Analysis Lab, 2611 Yellowstone Dr, Marshfield, WI 54449  
 Univ. of Wisconsin - Madison/Extension      http://uwlab.soils.wisc.edu

### Soil Submission Sheet for Field, Vegetable and Fruit Crops

For Lab Use Only:      Please check how you would like to receive your results:      Method of Payment:

Date:       U.S. Mail       Email:      Account ID

Lab No:      Name:      OR Amount Paid \$

Address:      City:      State:      Zip:      Phone:       Cash       Check No.

TOTAL #      PLOW      COUNTY OF SOIL       Credit Card

SAMPLES:      DEPTH:      ORIGIN (required):      Write call for number

FIELD ID	SAMPLE NO.	Crop (Use only if different from field)	Soil Name (required)	Area in Field	Slope %	4-YEAR CROP ROTATION		FERTILIZER CREDIT INFORMATION						
						Sequence to be Crown (crop code)	Yield Goal	Previous Legume Crop	Manure Applied to Field Since Last Crop	Application Rate Tls (lb/acre)	Time to Incorporate (Days)	Compost Years of Application (years)		
								Legume Crop (crop code)	Legume Forage % used (none)	Check if more than 6" regrowth in fall	Manure Code (See below)	Application Rate Tls (lb/acre)	Time to Incorporate (Days)	Compost Years of Application (years)
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		
								< 30				>72 hrs	1	
								30-70				1-72 hrs	2	3+
								> 70				< 1 hr		

Tests include: pH, lime requirement, organic matter, available phosphorus (P) and available potassium (K).

Special Soil Tests (for an additional fee) (List field or sample number)

Calcium/Magnesium	Zinc
Boron	Sulfate
Manganese	Other

Soil tests recommended if:

growing corn (field or sweet)	Zn and $SO_4^{2-}$	growing potato or apple (with pH < 5.5)	Ca/Mg
growing legume forage	B and $SO_4^{2-}$	growing specialty or vegetable crops	B, Zn, and Mn
growing small grain or soybean (with soil pH > 7.5)	Mn	acid or sandy soil with high amounts of applied N	Ca/Mg

Manure Code List

Solid	Liquid
1 Dairy: semi	11 Dairy: liquid
2 Dairy: solid	12 Dairy: slurry
3 Beef	13 Veal calf
4 Swine	14 Beef
5 Duck	15 Swine, indoor pit
6 Chicken	16 Swine, outdoor pit
7 Turkey	17 Swine, farrow-nursery
8 Sheep	18 Poultry
9 Horse	19 Goat
10 Goat	

1/13

# Nutrient Balance



- Current Realistic Crop Yield...soil based not farm based
- Recommendations to balance N (Rate, Form, Timing, Method)
- R2 Runs to include crop rotation, tillage, management
- Supplemental N---Photos to document weather, soil condition, crop growth stage

\*\*\*\*\*

- PPM P and P balance Calculation
- P Index (not for NRCS Program 590)
- \*\*\*\*\*
- N, P, K application rates shall closely match individual field recommendations to make implementation feasible.



# RECORDS

- Guidance for what records are required
- Maintaining Records---sample sheets
- Other management activities relating to Regulation, Program Requirements, Producer Goals or other Implementation Details
- Tile inlets, outlets, lines (as practical) where nutrients are applied
- Emergency Action Plan

An aerial photograph of a farm with terraced fields. The fields are arranged in wavy, curved patterns, showing different stages of crop growth or soil conservation. In the center, there are several farm buildings, including barns and silos. The background features rolling hills covered in dense green forest, with a layer of mist or fog hanging over the top of the hills. The overall scene is lush and green, suggesting a healthy and productive agricultural environment.

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