http://beta.snapmaps.snapplus.wisc.edu/index.aspx?refreshToken=62c9d0df-39d0-43ea-9cc7-5afe922356de_2015-08-20_18_01_15_493

SnapMaps

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Maps Identify Tools Drawing Tools Create PDF of Map

Active Tool: Navigation

yers

ayers Turn on/off all

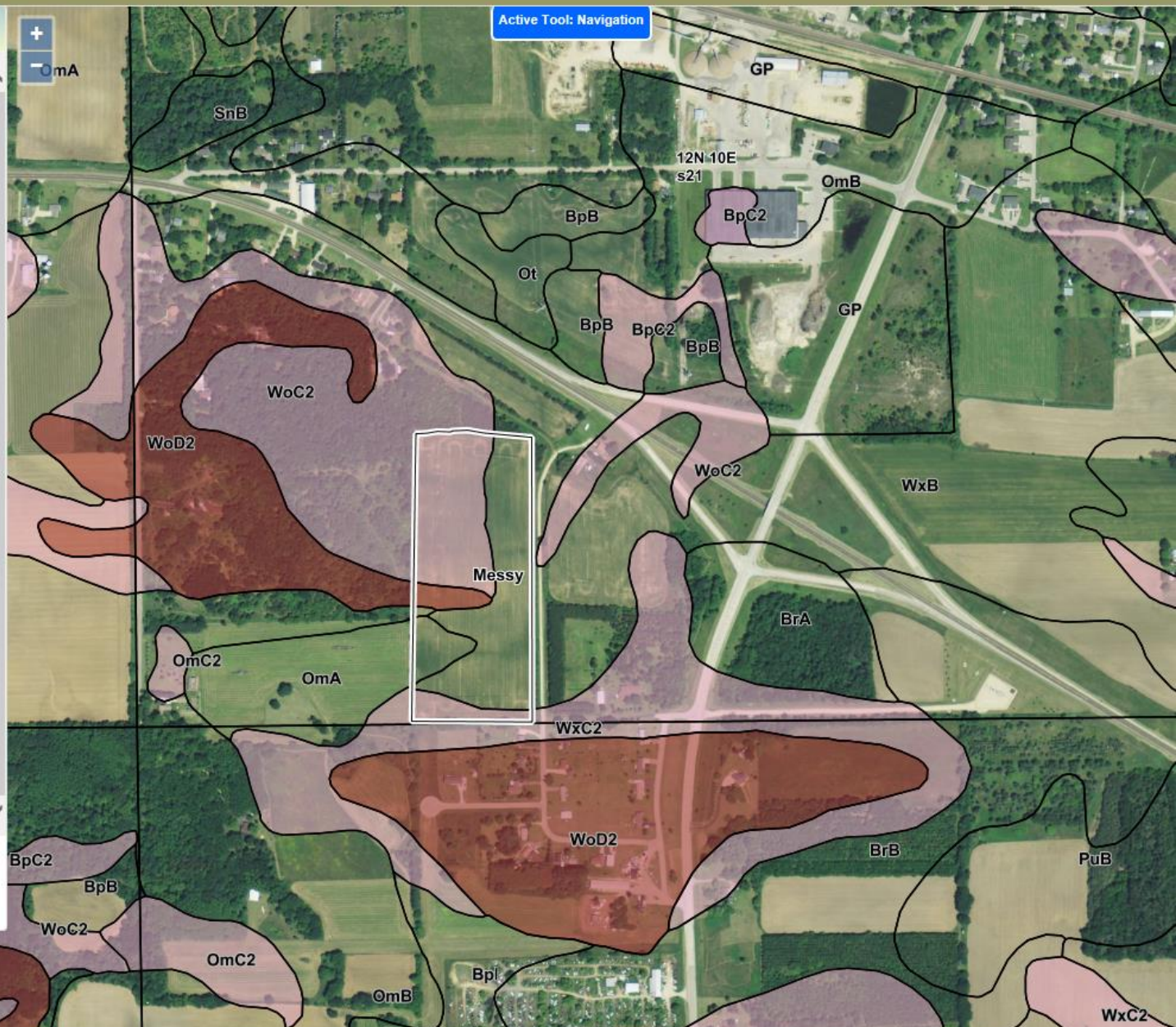
- Aerial (USGS)
- 5ft contours
- DNR Wetland
- Counties
- Township and Range
- Roads
- Soils

tion Layers Turn on/off all

- Winter Restriction if Slope > 9%
- No Winter App. Slope > 12%
- 590 SWQMA 300FT
- SWQMA 1000FT
- Fall N Restrictions
- Perennial Streams
- Intermittent Streams
- Waterbodies

ayers Turn on/off all

- Fields All Fields
- Point buffers
- Points
  - Well
  - Drinking well
  - Sinkhole
  - Non-metallic mine
  - Fractured bedrock at surface
  - Other direct conduit



SnapPlus Alpha 15.0 built on 2015-08-18 15:01 - Nutrient Management Support

File | Import/Export | Tools | View | Help | Save snapshot

Subfarm: Show all fields. * Field: Messy

Group: Show all fields.

Farm name: Nutrient Managment Support.snapDb

Location: C:\SnapPlus2Alpha\MySnapPlusData

Farm | Fields | Soil Tests | Nutrients | Cropping | Daily Log | Reports

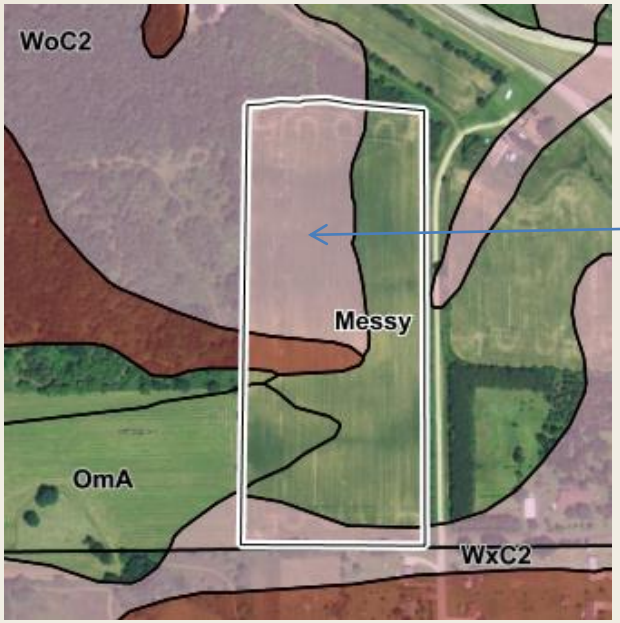
Fields | Subfarms | Groups | SnapMaps

1. Upload | 2. Website | Geometry exists for all 1 fields. | 3. Download

Critical soil for calculating soil loss

SnapMap Fields | SnapMap Soils | SnapMap Restrictions | SnapMap Features

Exists	Subfarm	Field Name	Field County	Field Acres	Soil Map Symbol (critical)	Soil Map Symbol (predominant)	Slope	Slope Length	Notes	Field Borders
Yes		Messy	Columbia	17.92	WoC2	WxB	9	150		POLYGON ((-



Critical soil

WHY ?

Alpha 15.0 built on 2015-08-18 15:01 - Nutrient Management Support

port/Export Tools View Help Save snapshot

farm: Show all fields. * Field: Messy Farm name: Nutrient Managment Support.snapDb

Group: Show all fields. Location: C:\SnapPlus2Alpha\MySnapPlusData

ields Soil Tests Nutrients Cropping Daily Log Reports

Subfarms Groups SnapMaps

Upload 2. Website Geometry exists for all 1 fields. 3. Download

p Fields SnapMap Soils SnapMap Restrictions SnapMap Features

Subfarm Name	County	Field Name	Map Symbol	Slope	Slope Length	% of field	Soil Group	Yield Potential	K	T	ES	Fall N Restriction
	Columbia	Messy	WxB	4	200	46.5	L	H	0.20	4	0.026	
	Columbia	Messy	WoC2	9	150	33.9	S	S	0.10	4	0.036	
	Columbia	Messy	OmA	1	250	7.4	S	S	0.10	5	0.003	
	Columbia	Messy	WxC2	9	150	7.0	L	H	0.24	4	0.086	
	Columbia	Messy	WoD2	16	100	4.6	S	S	0.10	4	0.071	
	Columbia	Messy	OmB	4	200	0.5	S	S	0.10	5	0.011	

Critical Soil Map Unit = highest ES map unit that makes up at least 10% of the field

What is ES?

Erosion Sensitivity = (K x LS) / T

e	Map Symbol	Slope	Slope Length	% of field	Soil Group	Yield Potential	K	T	ES
	WxB	4	200	46.5	L	H	0.20	4	0.026
	WoC2	9	150	33.9	S	S	0.10	4	0.036

T is tolerable soil loss in tons/acre/year

K is soil erodibility factor for USLE

LS is slope and length factor for USLE

$$LS = (sl/72.6)^m ((430 (\sin \theta)^2 + 30 (\sin\theta) + 0.43)/6.613)$$

SnapPlus Alpha 15.0 built on 2015-08-18 15:01 - Nutrient Management Support

File Import/Export Tools View Help Save snapshot

Subfarm: Show all fields. * Field: Messy Farm name: Nutrient Managment Support.snapDb

Group: Show all fields. Location: C:\SnapPlus2Alpha\MySnapPlusData

Farm | Fields | Soil Tests | Nutrients | Cropping | Daily Log | Reports

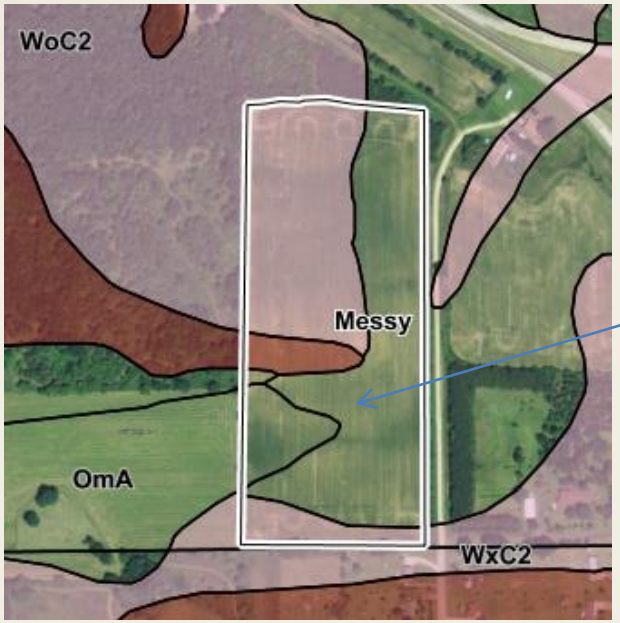
Fields | Subfarms | Groups | SnapMaps

1. Upload | 2. Website | Geometry exists for all 1 fields. | 3. Download

SnapMap Fields | SnapMap Soils | SnapMap Restrictions | SnapMap Features

Predominant soil is used for nutrient recommendations

Exists	Subfarm	Field Name	Field County	Field Acres	Soil Map Symbol (critical)	Soil Map Symbol (predominant)	Slope	Slope Length	Notes	Field Borders
Yes		Messy	Columbia	17.92	WoC2	WxB	9	150		POLYGON ((-...



Predominant soil

WHY ?

Goal: Pick soil map unit that is representative of the field for nutrient recommendations

When no soil makes up more than 50% of the field, look for the largest soil area with the major soil group and yield potential

Map Symbol	Slope	Slope Length	% of field	Soil Group	Yield Potential
WxB	4	200	46.5	L	H
WoC2	9	150	33.9	S	S
OmA	1	250	7.4	S	S
WxC2	9	150	7.0	L	H
WoD2	16	100	4.6	S	S
OmB	4	200	0.5	S	S

Soil Group: Loamy, Sandy, or Organic
Used for N, P, K recommendations

Yield potential: High, Moderate, Sandy
Used for Corn N recommendations

Important

You can change SnapMaps selected soils on the Fields tab if they don't match field conditions

unty	Field Name	Map Symbol	Slope	Slope Length	% of field	Soil Group	Yield Potential	K	T	ES
nbia	Messy	WxB	4	200	46.5	L	H	0.20	4	0.026
nbia	Messy	WoC2	9	150	33.9	S	S	0.10	4	0.036

ad | 2. Website | Geometry exists for all 1 fields. | 3. Download

elds | SnapMap Soils | **SnapMap Restrictions** | SnapMap Features

Subfarm	Field Name	Field County	Field Acres	Soil Map Symbol (critical)	Soil Map Symbol (predominant)	Slope	Slope Length	Notes	Fie Bord
	Messy	Columbia	17.92	***WoC2***	WxB	***9***	***150***	field verified slope 5%	POLYG

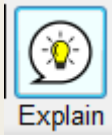
Can put explanation in Notes

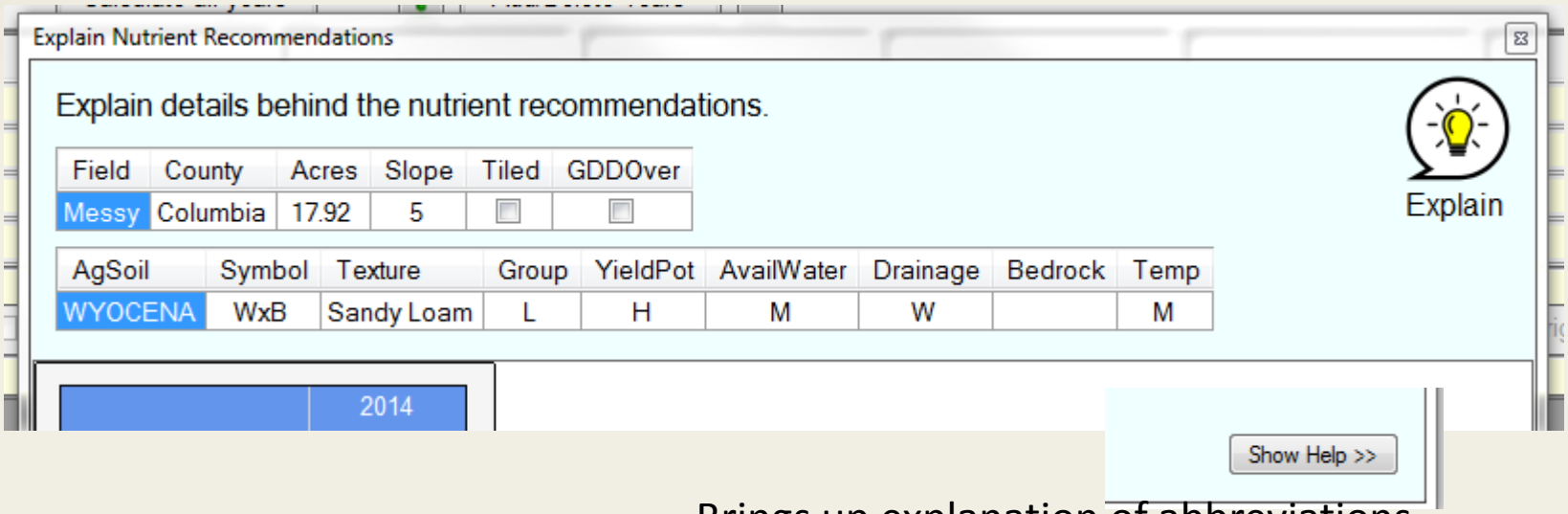
Recommendations may be different

Soil group and yield potential may have changed:

- Based on soil properties
- NRCS soils database updates

Info on Soil Group and Yield Potential available from Cropping screen





Brings up explanation of abbreviations

SnapPlus website has Soil information

isc.edu/planning/soil-info

SnapMaps | Soil Series and Soil Map Uni...

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  - NM Resources
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  - Soils Details
  - Matching SnapPlus Tillages
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Soil Series and Soil Map Units Details

Select a County from the dropdown below to view a table of soil properties for that county. For each soil map unit, the table displays the default slope (%); default slope length (ft); soil group for UW-Extension nutrient recommendations; corn yield potential; and the soil properties used to evaluate corn yield potential: drainage class, available water capacity, bedrock depth, and soil temperature regime. Also included are application restrictions for 590 and CAFO nutrient management planning.

More information on the soil properties used for nutrient recommendations is in **Soil Series and Soil Map Unit Interpretations.**

Select County to view Soils data (based on A2809 published in November 2012) and Restriction codes

County: Brown

◉ 590 Only ○ 590 + CAFO

Click to view the key for soil properties abbreviations

County	Soil MU	Soil Series	Default Slope	Default Slope Length	Soil Group	Yield Potential	Drainage Class	AWCCode	BedRock Depth	Soil Temp Regime	Restriction
Brown	AdA	ALLENDALE	1.5	250	S	S	Somewhat poorly drained	VL		frigid	w
Brown	AeA	ALLENDALE	1.5	250	S	S	Somewhat poorly drained	VL		frigid	w
Brown	Ax	ANGELICA	1	250	L	M	Poorly drained	H		frigid	w
Brown	Bc	BELLEVUE	1	250	L	H	Moderately well drained	H		mesic	
Brown	Bd	BELLEVUE VARIANT	1	250	L	H	Somewhat poorly drained	H		mesic	w
							Somewhat				

Important News

March 4th - SnapPlus 14.1 update is now available. Go to **Downloads > Download 14.1.**

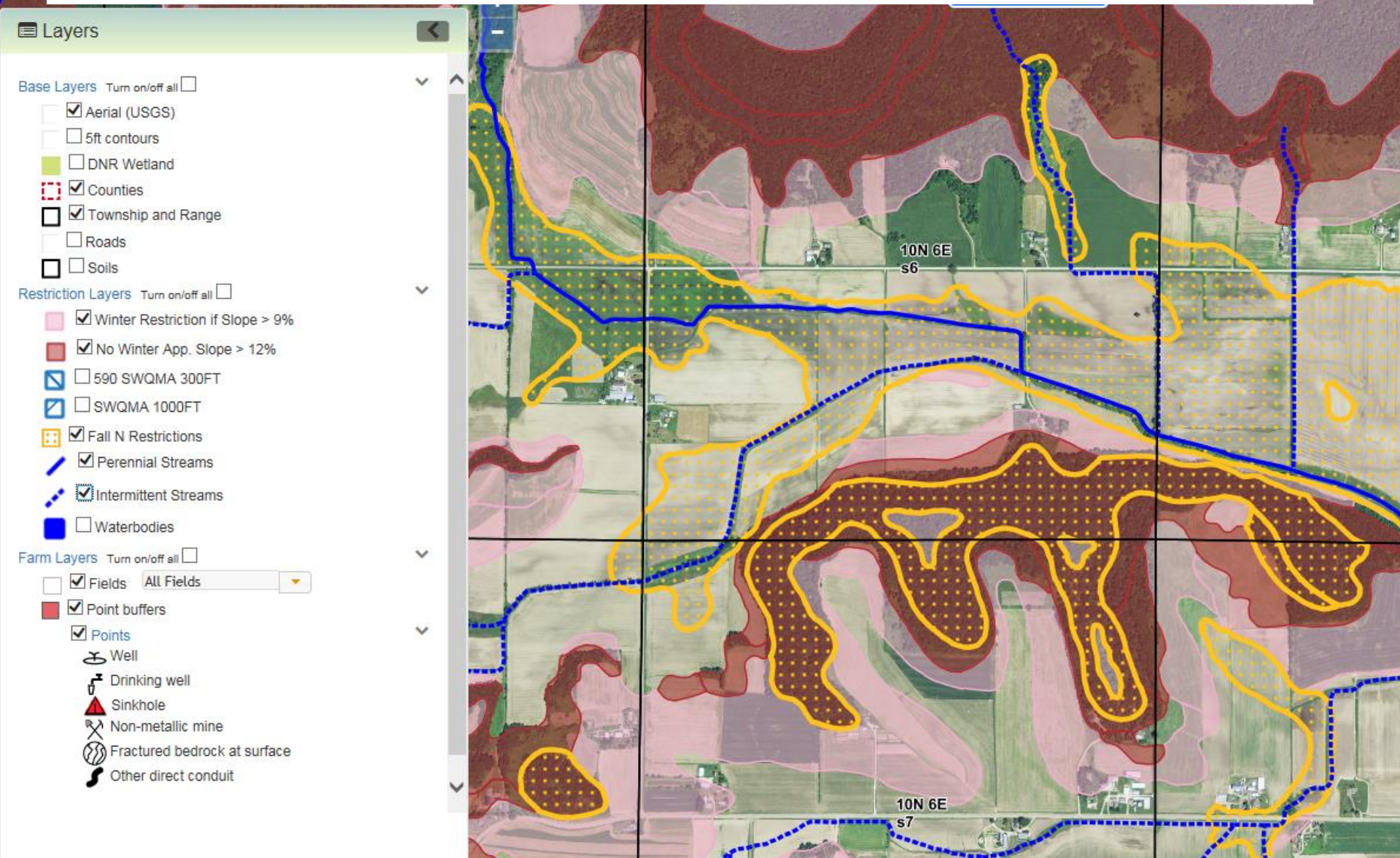
Training Opportunities

There are no upcoming events.

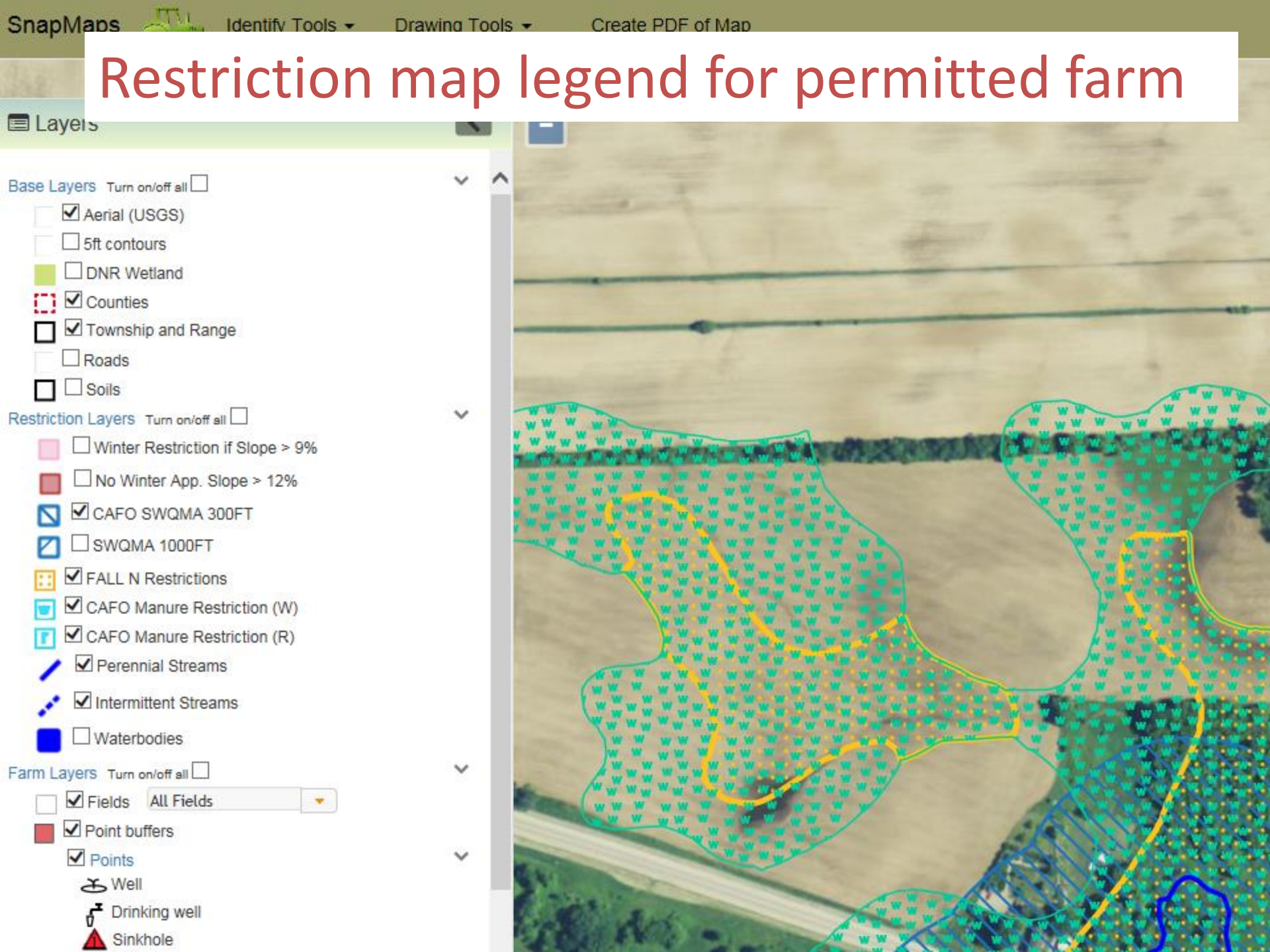
View Calendar →

Will add links to tables of changes to K, T, Soil Group, and Yield Potential

Restriction map legend for 590 restrictions: Not a permitted farm



Restriction map legend for permitted farm



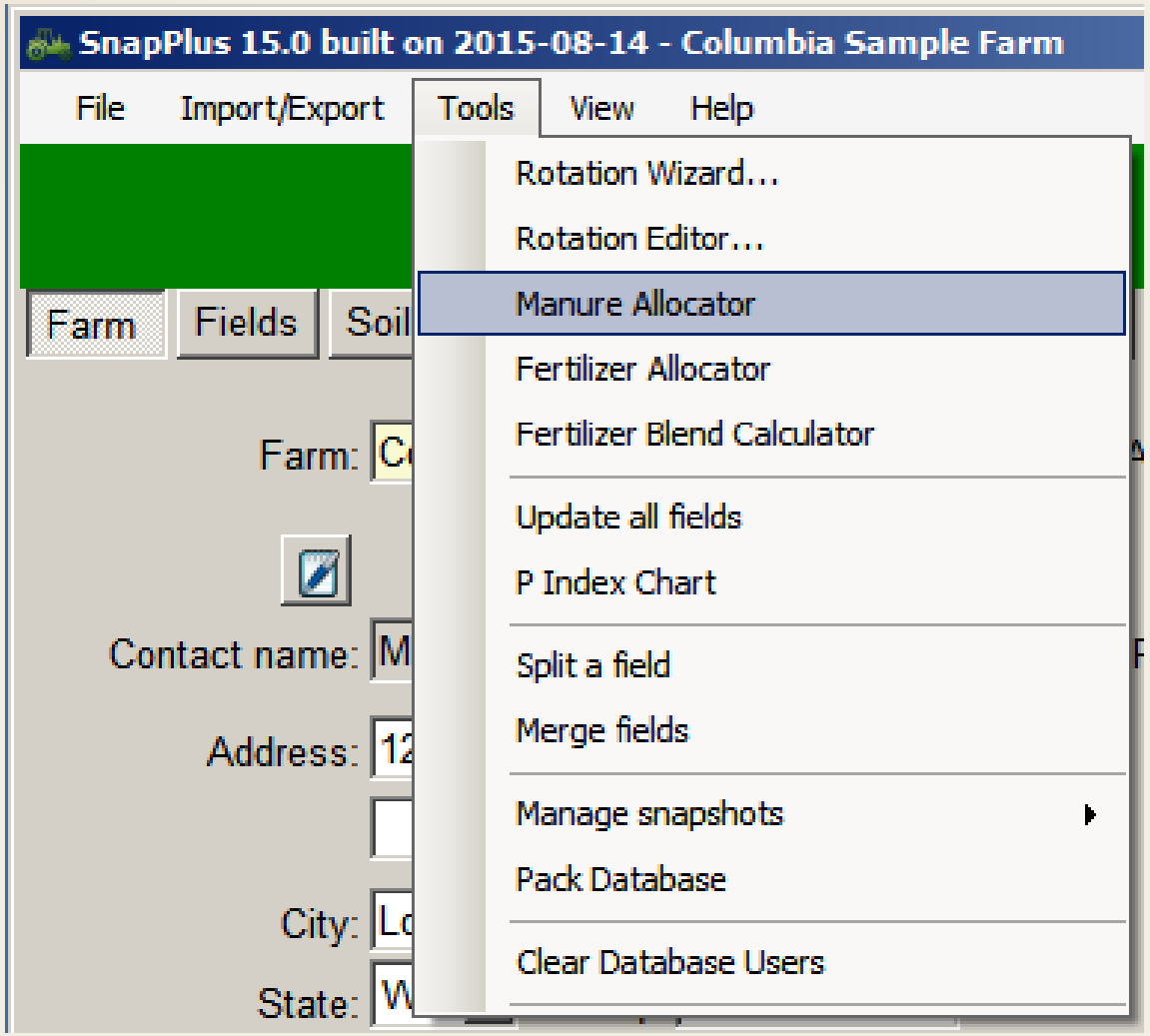
SnapPlus 2015

University of Wisconsin–Madison

support@snapplus.wisc.edu

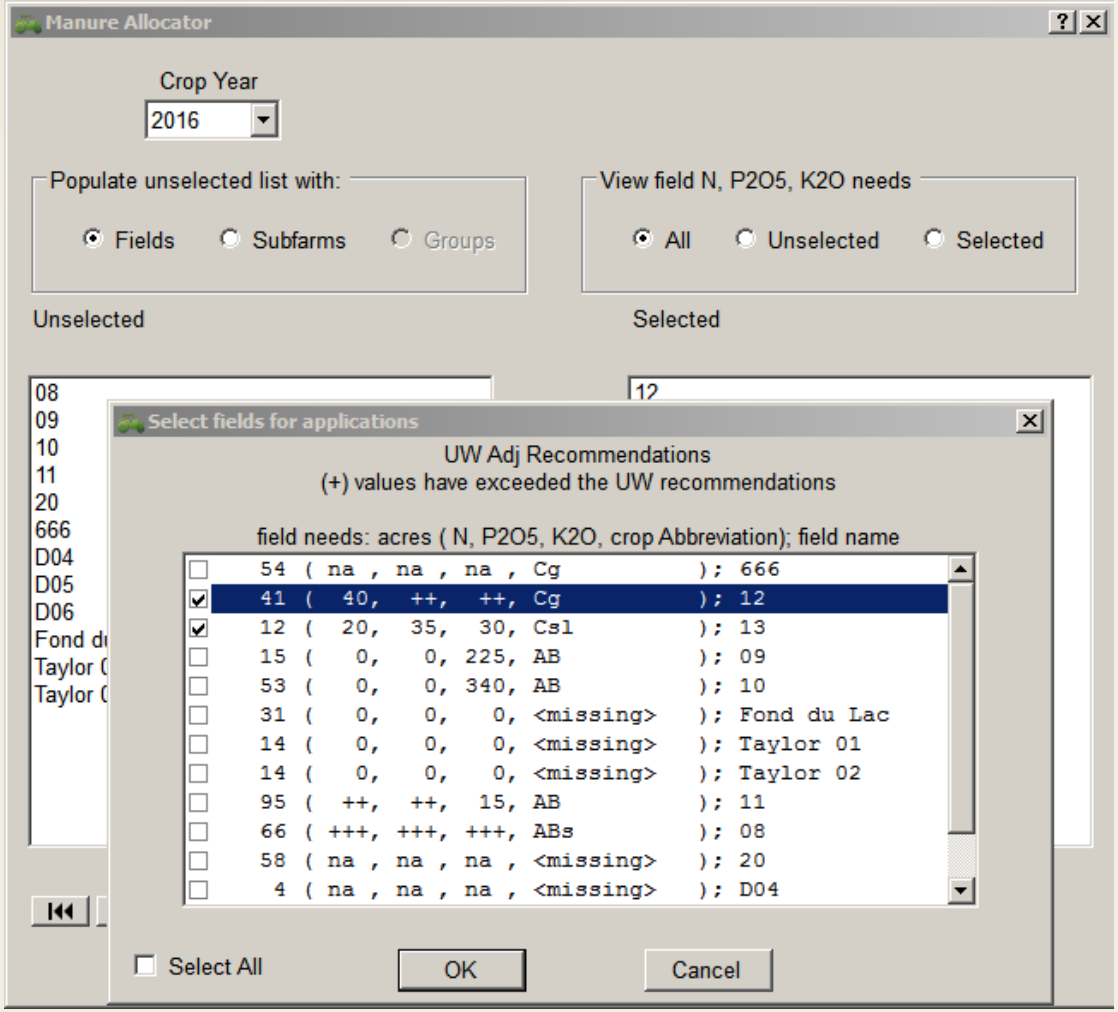
Tools Menu Items to Note

- Manure Allocator
- Fertilizer Allocator
- Fertilizer Blend Calculator



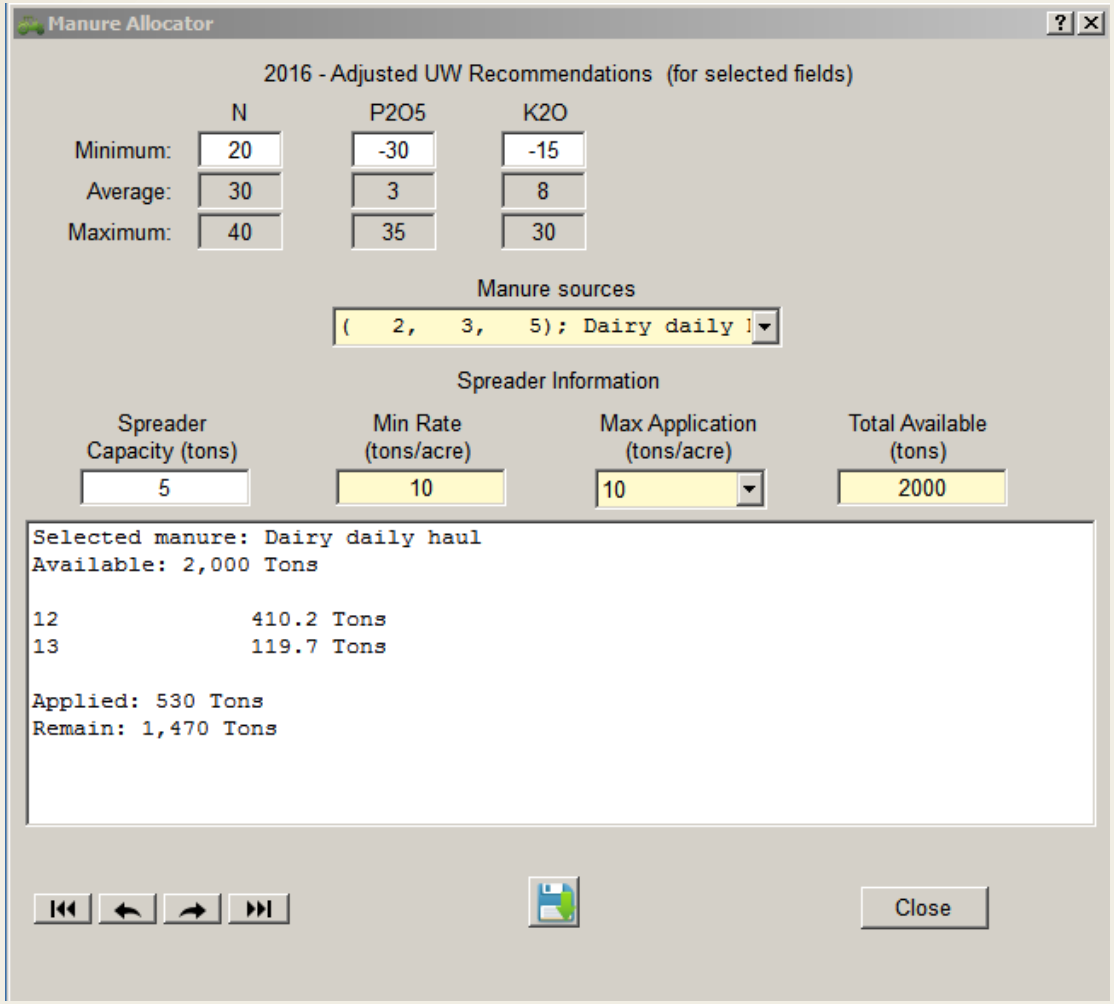
Manure Allocator

- Select Year
- View N, P2O5, K20 needs
- Select fields for allocation



Manure Allocator

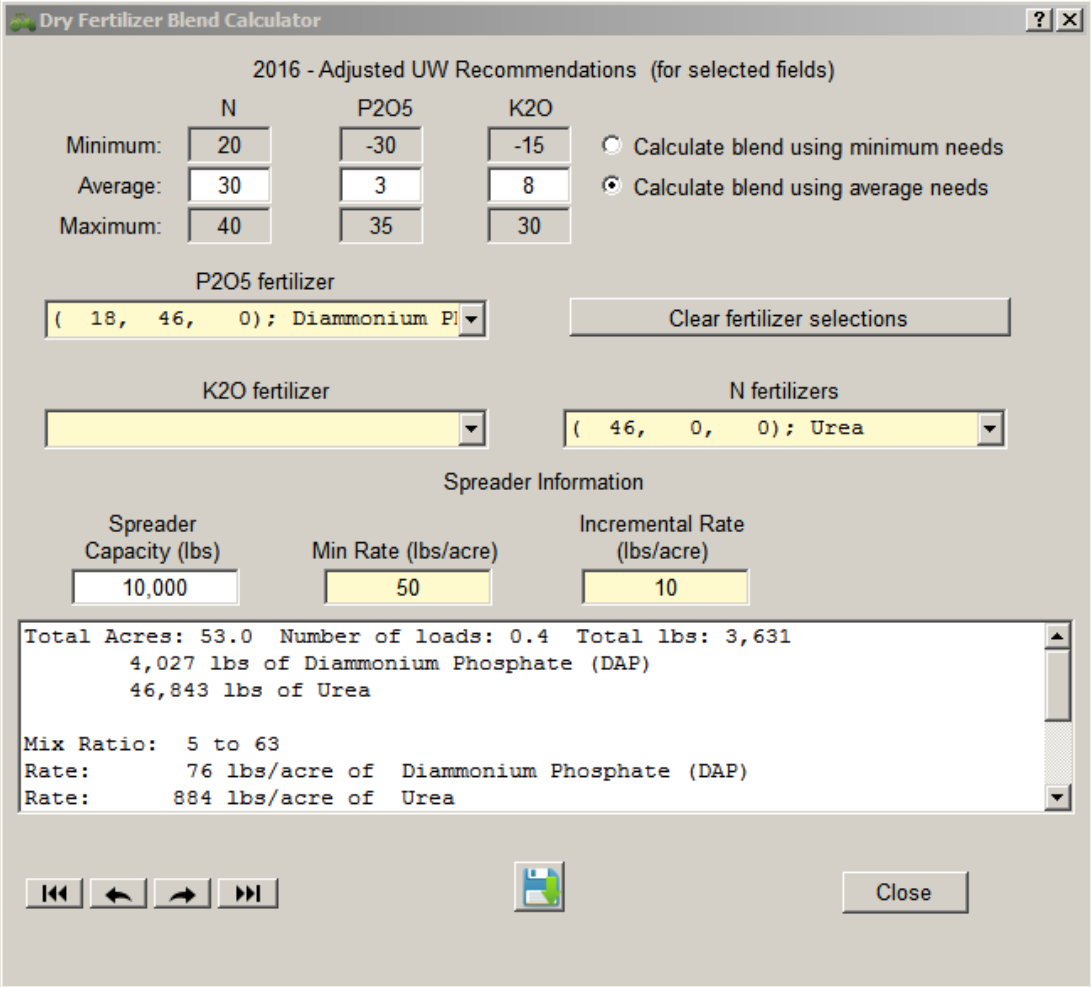
- Select Manure Source
- Spreader Size
- Spreader Rates
- Source Known Volume
- Spreads Source
  - Until field needs are met.



Fertilizer Allocator

- Select Fertilizer Sources
- Spreader Size
- Spreader Rates

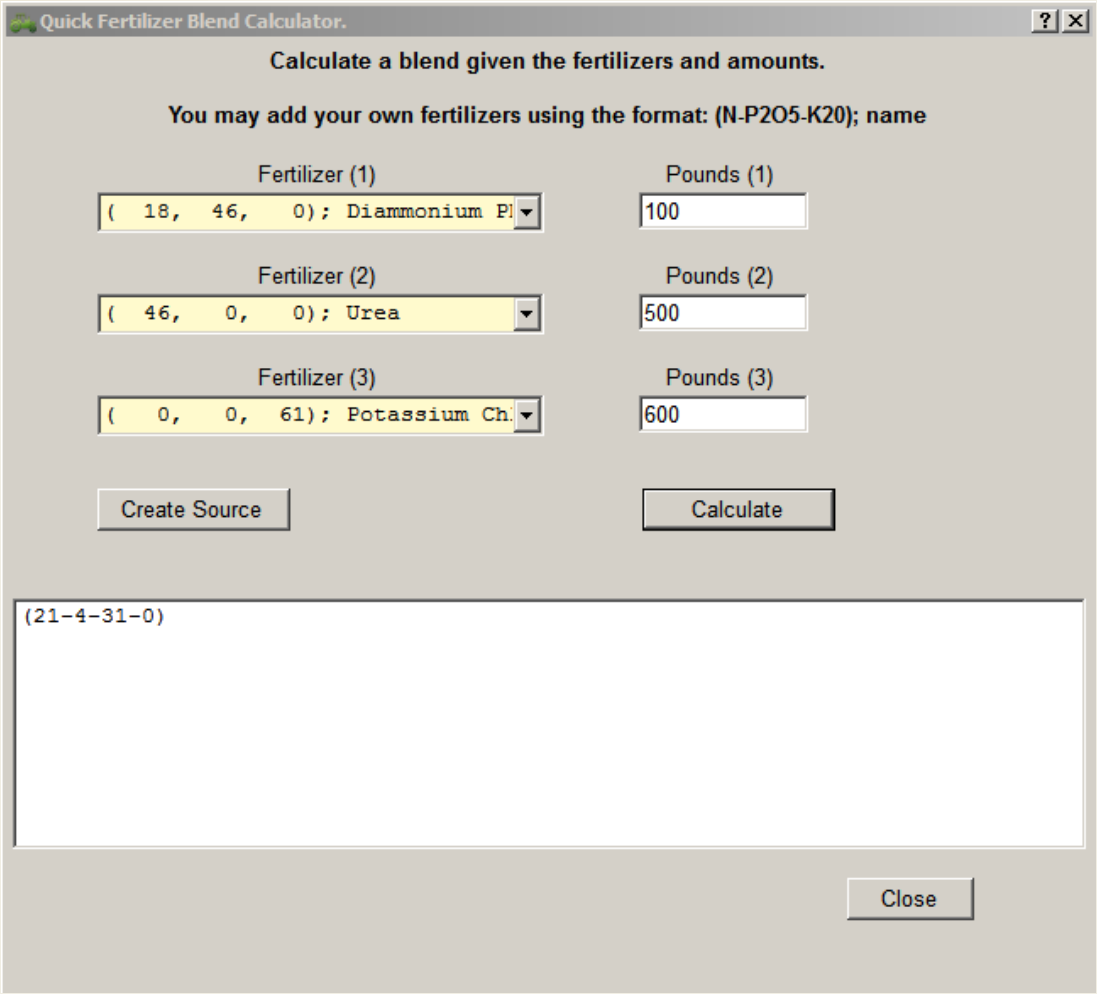
- Calculates Blend
- Spreads
  - Until field needs are met.



Fertilizer Blend

- Select Fertilizer Sources
- Pounds for each source

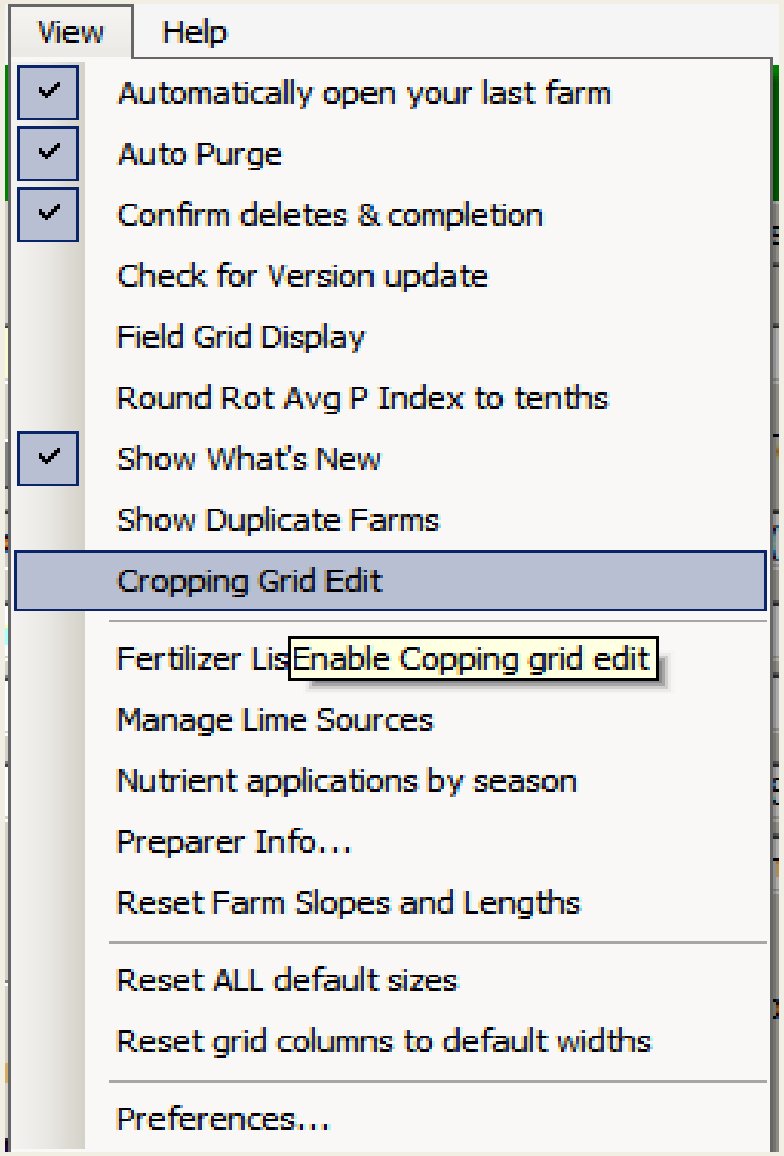
- Calculates the blend
- You may create the source



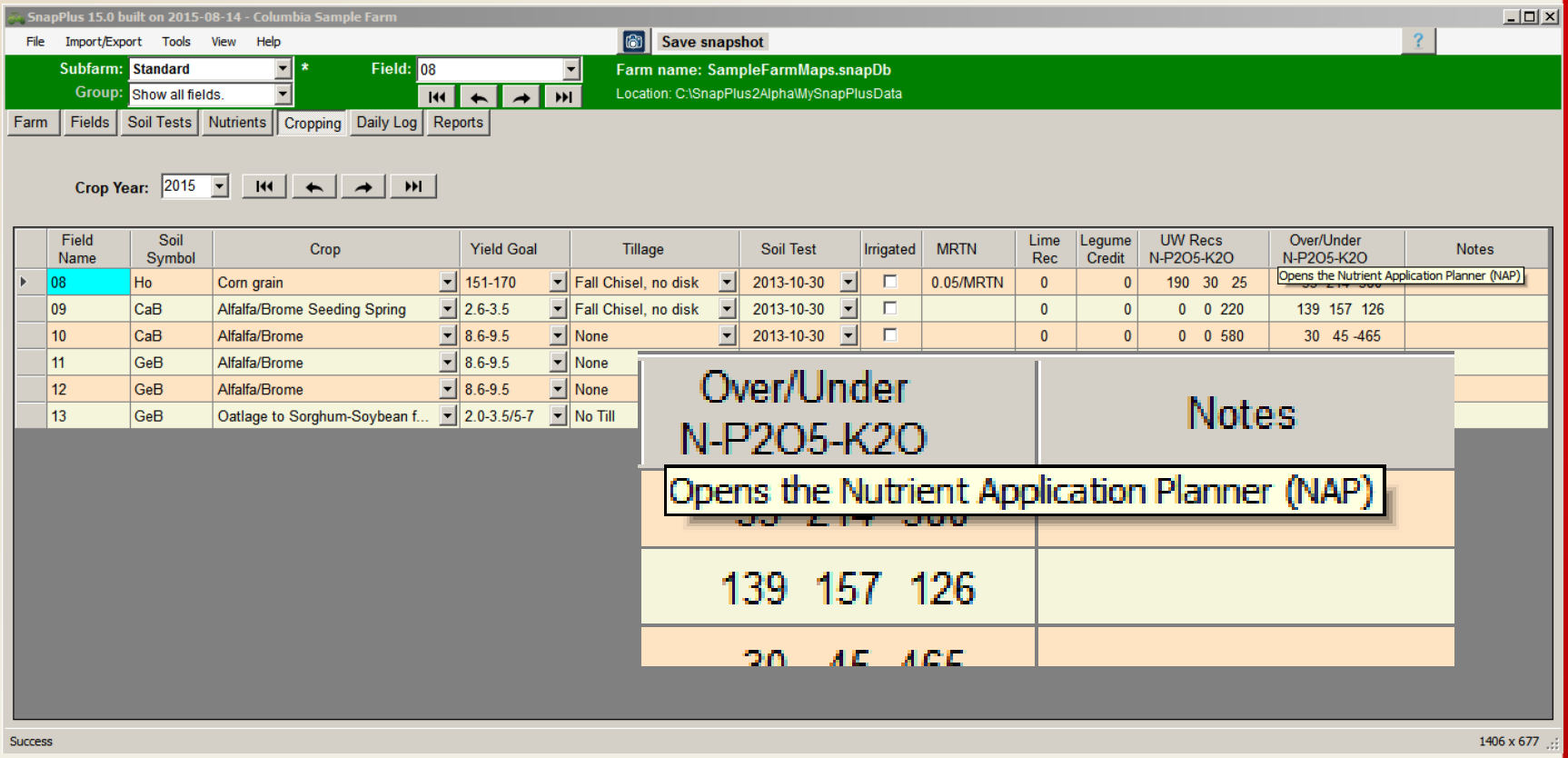
View Menu Items to Note

- Field Grid Display [for large farms]
- Show Duplicate Farms
- **Cropping Grid Edit**

- Preferences [**RED** - color blind option]



Cropping Grid Edit



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Note: New positions at DATCP and NPM-UW