



SnapMaps for SnapPlus Desktop

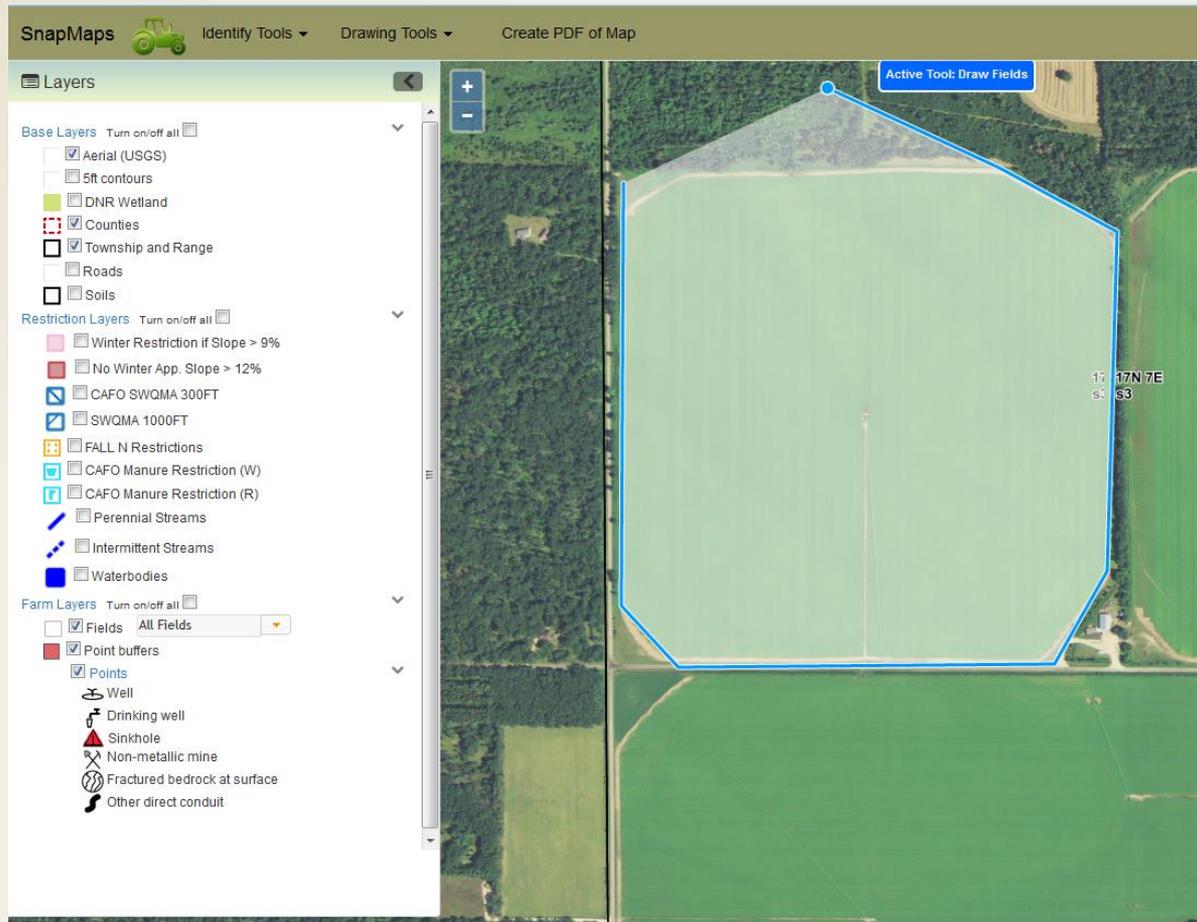
Adding the where to SnapPlus

James Beaudoin

How do I get my farm fields into SnapMaps?



1. Draw your fields in by hand. Similar to DATCP site.

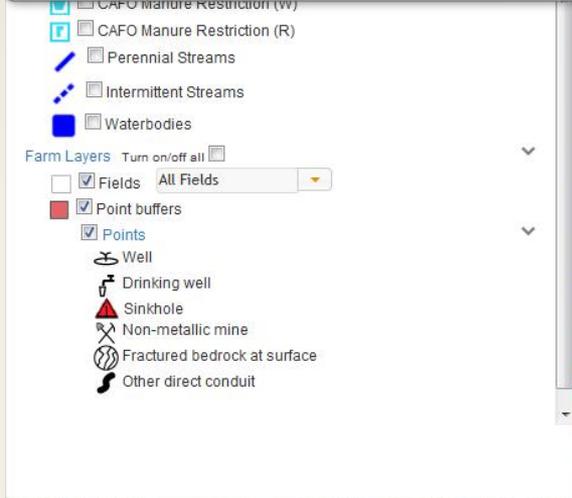
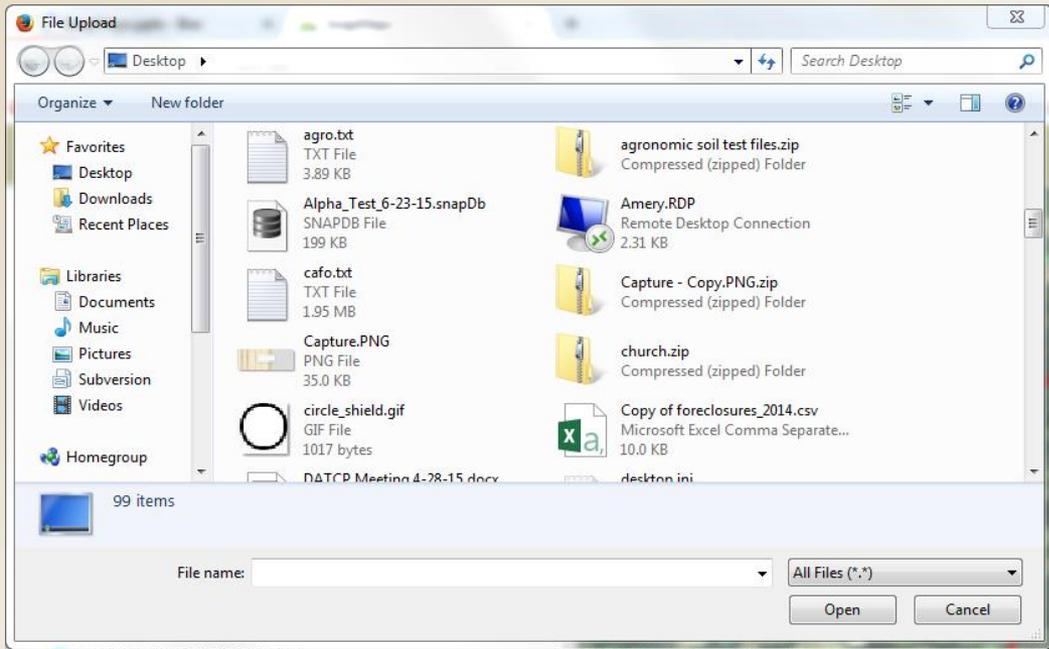


How do I get my farm fields into SnapMaps?



1. Draw your fields in by hand. Similar to DATCP site
2. Import a shapefile
 - A. Requirements:
 - a) You need to have a prj file for that shapefile (unless from SST or Farmworks)
 - b) Shapefile needs to be in a zip file
 - c) Only one zip file at a time
 - A. Other notes:
 - a) If you have the field names in the shapefile, you can have SnapMaps use that to assign the field name.
 - b) If you don't want a field to be downloaded to SnapPlus just leave the field name blank or delete the field

Question: What software do you use?





Browser address bar: snapplus-dev.snapplus.wisc.edu/index.aspx?refreshToken=94dd6f8e8-4556-4b27-a206-919980b124ac_2015-04-28_09_04_18_135

Browser menu: Disable, Cookies, CSS, Forms, Images, Information, Miscellaneous, Outline, Resize, Tools, View Source, Options

Application Header: SnapMaps Identify Tools Drawing Tools Create PDF of Map

Layers Panel:

- Base Layers: Aerial (USGS), 5ft contours, DNR Wetland, Counties, Township and Range, Roads, Soils
- Restriction Layers: Winter Restriction if Slope > 9%, No Winter App. Slope > 12%, CAFO SWQMA 300FT, SWQMA 1000FT, FALL N Restrictions, CAFO Manure Restriction (W), CAFO Manure Restriction (R), Perennial Streams, Intermittent Streams, Waterbodies
- Farm Layers: Fields (All Fields), Point buffers, Points (Well, Drinking well, Sinkhole, Non-metallic mine, Fractured bedrock at surface, Other direct conduit)

Map Content: Aerial view of a rural area with a red boundary. Labels include Adams, Marquette, and 5 mi scale bar.

Dialog Box: "Select a field in the Shapefile for field name"

- Farm field names are included in shape file.
- Is this shapefile produced from the SST or Farmworks Softwares.
- Select the location of the field names in the shapefile: fieldname
- Remember when selecting a field in a shapefile that each field name must be unique, they can be blank though. If not some fields will not import.
- Buttons: Import Shapefile, cancel

Drawing Point Features



- You can draw:
 - Well, Drinking Well, Sinkhole, Non-Metallic Mine, Fractured Bedrock, Other Direct Conduit
- Automatically creates the appropriate buffer based on 590/CAFO requirements.



Other Features



- Create a PDF

This is a test

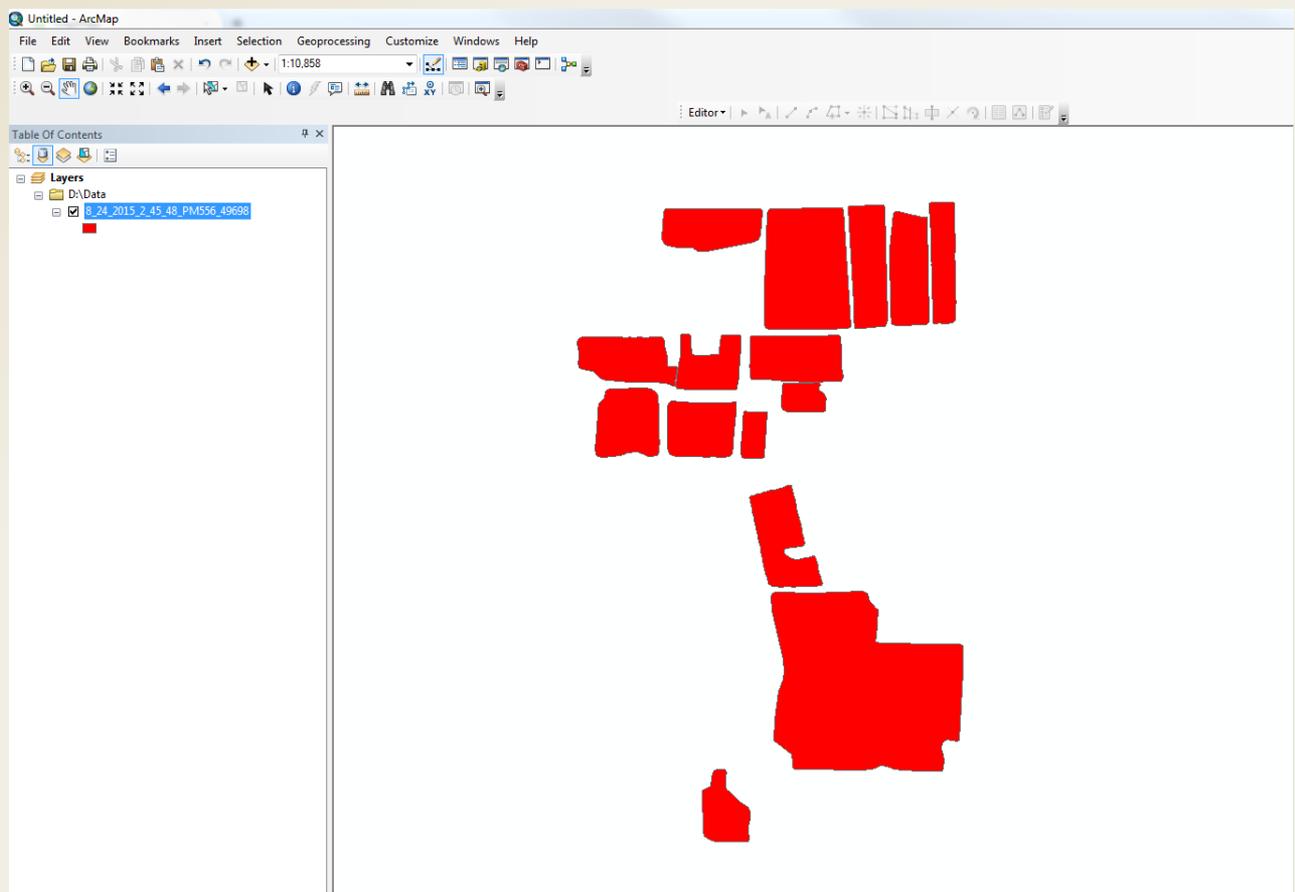
Farm Name: My Farm
 Is this a CAFO: True
 TRS : 17N 8E s8,17N 7E s21,17N 8E s5,18N 6E s33,17N 8E s8,18N 7E s26,18N 7E s35,17N 8E s8,17N 7E s21,17N 8E s5,17N 8E s8,17N 8E s5,17N 8E
 Map generated on: 8/24/2015 SnapMap Version: 15.0

<ul style="list-style-type: none"> ☞ Well ☞ Drinking well ▲ Sinkhole ⚡ Non-metallic mine ⊗ Fractured bedrock at surface — Other direct conduit 	<ul style="list-style-type: none"> □ Fields ■ Point buffer ▭ Contours ▭ Township and Range □ Soils ⊞ Counties 	<ul style="list-style-type: none"> ■ Winter Restriction if Slope ■ No Winter App. Slope > 12% ⚡ Intermittent Streams ⚡ Perennial Streams ■ Waterbodies 	<ul style="list-style-type: none"> ■ CAFO SWQMA 300ft ■ SWQMA 1000ft ■ CAFO Manure Restriction (W) ■ CAFO Manure Restriction (R) ■ Fall N Restrictions 	
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Other Features Continued



- Export a Shapefile





Upcoming Features

- Better drawing tools for drawing fields.
- More tools for importing data (Points/polygons)
- Maps for spreading rates by field, soil test P and K by field, crops by field.
- Many others

Alpha: Old soils

Beta: New soils

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SnapPlus 2015



University of Wisconsin–Madison

SnapMaps Field Info Import

support@snapplus.wisc.edu



Fields - SnapMaps

- 1. Upload
- 2. Website
- 3. Download
- Refresh
- Import to SnapPlus
- Display Rows
 - All
 - Differences
- Delete non-existing fields
 - All
 - Selected only

Subfarm: Standard * Field: 08 Farm name: SampleFarmMaps.snapDb
Group: Show all fields. Location: C:\SnapPlus2\AlphaMySnapPlusData

Fields | Subfarms | Groups | SnapMaps

1. Upload 2. Website 3. Download

E x i s t s	Subfarm	Field Name	Field County	Field Acres	Soil Map Symbol (critical)	Soil Map Symbol (predominant)	Slope	Slope Length	Notes	Field Borders
Yes	Standard	08	Columbia	65.88	Pa	Ho	1	250		POLYGON ((-9911...
Yes	Standard	09	Columbia	15.29	CaB	CaB	4	200		POLYGON ((-991...
Yes	Standard	10	Columbia	53.34	CaB	CaB	4	200		POLYGON ((-990...
Yes	Standard	11	Columbia	94.88	CaB	GeB	4	200		POLYGON ((-990...
Yes	Standard	12	Columbia	41.02	GeB	GeB	3.5	200		POLYGON ((-990...
Yes	Standard	13	Columbia	11.97	CaB	GeB	4	200		POLYGON ((-990...

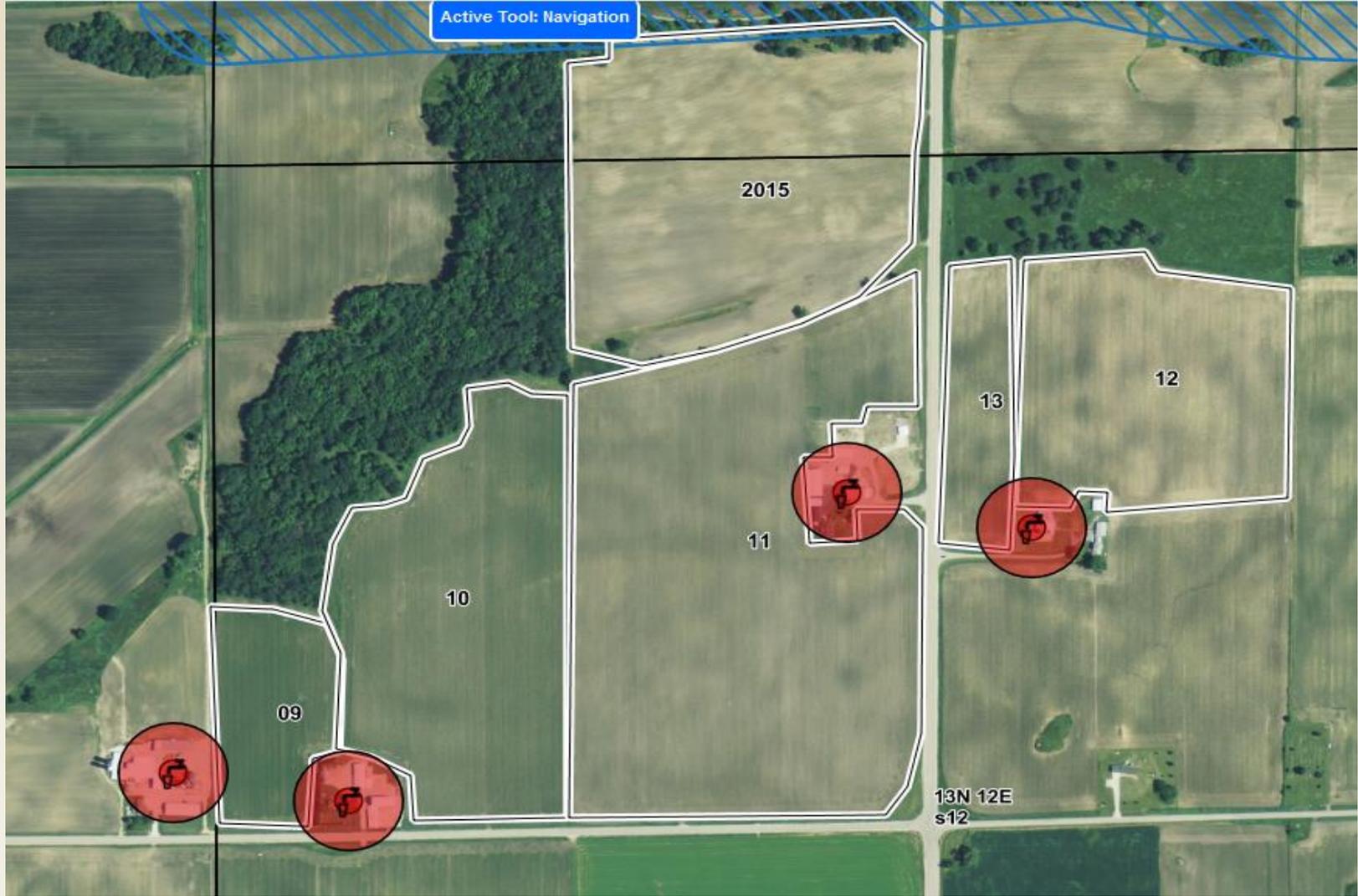
'Import to SnapPlus' will only import data from the selected cells. To toggle the selected state 'Ctrl-Click' on a cell.

Import To SnapPlus Refresh

Delete non-existing fields
 All Selected Only

Success 1024 x 677

Active Tool: Navigation



13N 12E
s12





SnapPlus 15.0 built on 2015-08-14 - Columbia Sample Farm

File Import/Export Tools View Help Save snapshot ?

Subfarm: Standard * Field: 08 Farm name: SampleFarmMaps.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 3. Download
 Geometry for 6 of 15 fields.

Display rows: All Differences Only

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	Standard	08	Columbia	65.88	Pa	Ho	1	250		POLYGON ((-9911...
Yes	Standard	09	Columbia	15.29	CaB	CaB	4	200		POLYGON ((-991...
Yes	Standard	10	Columbia	53.34	CaB	CaB	4	200		POLYGON ((-990...
Yes	Standard	11	Columbia	94.88	CaB	GeB	4	200		POLYGON ((-990...
Yes	Standard	12	Columbia	41.02	GeB	GeB	3.5	200		POLYGON ((-990...
Yes	Standard	13	Columbia	11.97	CaB	GeB	4	200		POLYGON ((-990...

'Import to SnapPlus' will only import data from the selected cells. To toggle the selected state 'Ctrl-Click' on a cell.

Import To SnapPlus Refresh Delete non-existing fields: All Selected Only

Success 1024 x 677



SnapPlus Alpha 15.0 built on 2015-08-24 13:35 - Columbia Sample Farm

File Import/Export Tools View Help Save snapshot

Subfarm: Show all fields. * Field: 10 Farm name: SampleFarmV2.snapDb
 Group: Show all fields. Location: C:\SnapPlus2Alpha\MySnapPlusData

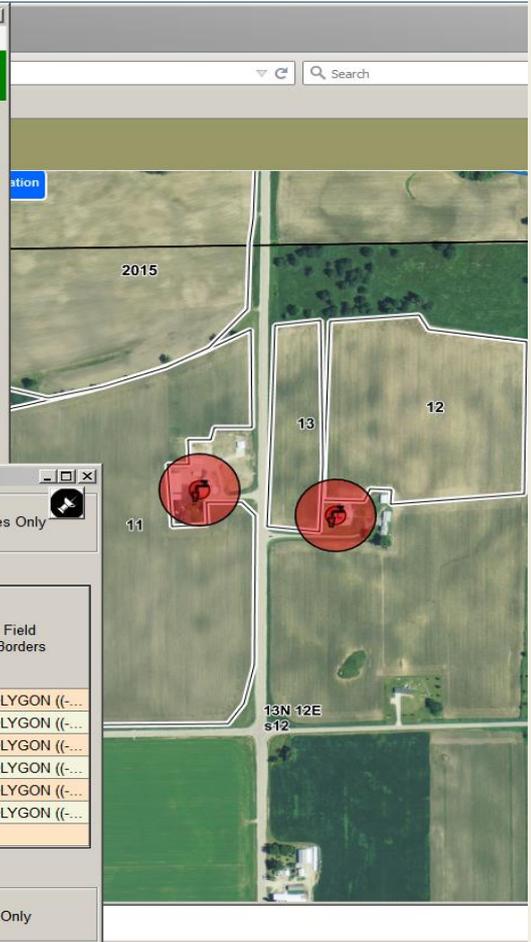
Farm Fields Soil Tests Nutrients Cropping Daily Log Reports

Fields Subfarms Groups

Right-click on column headers for single or multi-cell editing of selected cells. 590 Restriction Maps GDD Override ?

Total Acres: 61.5 Field Count: 6 Restriction definitions What is Tiled?

ALL	Field Name	Active	Sub Farm	Fsa Tract #	Fsa Field #	Size (acres)	County	Soil Map Symbol (critical)	Soil Series Name (critical)	Soil Map Symbol (pre-dominant)	Soil Series Name (pre-lominant)	Field Slope (%)	Field Slope length (ft)	Below Field Slope to Water (%)	Distance to Perennial Water (ft)	Restrictions	Tiled?	Field notes
	08	<input checked="" type="checkbox"/>				2.00	Columbia	SaC2	ST. CHA...	SaC2	ST. CH...	9	150	M...	0 - 3...	yes	<input type="checkbox"/>	
	09	<input checked="" type="checkbox"/>				2.50	Columbia	WoC2	WYOCE...	WoC2	WYOC...	9	150	M...	301 ...		<input type="checkbox"/>	
	10	<input checked="" type="checkbox"/>				7.00	Columbia	CaE2	CHANN...	CaE2	CHAN...	21	80	M...	0 - 3...	yes	<input type="checkbox"/>	
	11	<input checked="" type="checkbox"/>				8.00	Columbia	CaE2	CHANN...	CaE2	CHAN...	21	80	M...	301 ...	yes	<input type="checkbox"/>	
	12	<input checked="" type="checkbox"/>				26.00	Columbia	SaC2	ST. CHA...	SaC2	ST. CH...	9	150	M...	301 ...		<input type="checkbox"/>	
	13	<input checked="" type="checkbox"/>				16.00	Columbia	MeC2	MCHEN...	MeC2	MCHE...	9	150	6...	100...	yes	<input type="checkbox"/>	



SnapMaps

1. Upload 2. Website 3. Download

Geometry for 6 of 7 fields.

Display rows: All Differences Only

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		09	Columbia	8.20	CaB	CaB	4	200		POLYGON ((...
Yes		10	Columbia	28.04	CaB	CaB	4	200		POLYGON ((...
Yes		11	Columbia	52.36	CaB	GeB	4	200		POLYGON ((...
Yes		12	Columbia	21.54	GeB	GeB	3.5	200		POLYGON ((...
Yes		13	Columbia	6.59	CaB	GeB	4	200		POLYGON ((...
No		2015	Columbia	34.86	CaC2	CaB	9	150		POLYGON ((...
Yes		08	Columbia	2.00	SaC2	SaC2	9	150		POLYGON ((...

'Import to SnapPlus' will only import data from the selected cells. To toggle the selected state 'Ctrl-Click' on a cell.

Import To SnapPlus Refresh Delete non-existing fields
 All Selected Only

SnapMap Soils % of field and ES



Dominant Critical Soil

- Selects the highest ES from the soils over 10% of the field

SnapMap Soils SnapMap Restrictions SnapMap Features											
	County	Field Name	Map Symbol	Slope	Slope Length	% of field	Soil Group	Yield Potential	K	T	ES
	Columbia	2015	GeB	3.5	200	39.4	L	H	0.28	5	0.026
	Columbia	2015	CaB	4	200	24.2	L	M	0.37	2	0.098
	Columbia	2015	CaC2	9	150	22.1	L	M	0.37	2	0.266
	Columbia	2015	KnC2	9	150	7.1	L	H	0.43	2	0.309
	Columbia	2015	CaE2	21	80	6.8	L	M	0.37	2	0.731
	Columbia	2015	KnB	4	200	0.4	L	H	0.37	2	0.098

SnapMap Features



Two well buffers

- 50ft drinking well
- 200ft conduit to ground water

SnapMap Fields				SnapMap Soils				SnapMap Restrictions				SnapMap Features			
		Name		Feature Type											
▶	D. Well 09	Drinking Well 50 ft													
	D. Well 09 (2)	Drinking Well 50 ft													
	D. Well 11	Drinking Well 50 ft													
	D. Well 12 an...	Drinking Well 50 ft													

SnapMap Restrictions (import)



Fields | Subfarms | Groups | SnapMaps

1. Upload | 2. Website | Geometry for 6 of 7 fields. | 3. Download

Display rows: All Differences Only

SnapMap Fields | SnapMap Soils | **SnapMap Restrictions** | SnapMap Features

	Subfarm Name	Field Name	Restriction	Percent	Notes
▶		09	Well 200 ft	3.05	
		09	Well 200 ft	1.59	
		11	Well 200 ft	1.11	
		12	Well 200 ft	2.27	
		13	Well 200 ft	9.41	
		2015	SWQMA 300 ft	2.47	

'Import to SnapPlus' will only import data from

Import To SnapPlus 0 records imported.

SnapMap Fields | SnapMap Soils | **SnapMap Restrictions** | SnapMap Features

	Subfarm Name	Field Name	Restriction	Percent
▶		09	Well 200 ft	3.05
		09	Well 200 ft	1.59
		10	Well 200 ft	0.07
		11	Well 200 ft	1.11
		12	Well 200 ft	2.27
		13	Well 200 ft	9.41
		2015	SWQMA 300 ft	2.47

SnapMap Restrictions (imported Field 09)



Setup Field Restriction Features

Spreading Restriction Features
for Field 09

Note: If any part of the field has an N restricted soil or is in a SWQMA, then it should be marked as such below.

Field soils Dominant critical: CaB Predominant: CaB

Fall N Restrictions

N restricted soil other than selected soils: Code: [N Restriction definitions](#)

Field Restrictions

- Field in 590 SWQMA
- Drinking water well within 50ft of field edge
- Local prohibitions for winter applications
- Slope restriction for winter applications [590 Restriction Maps](#)

Conduits to groundwater within 200ft downslope of field

- Sinkholes
- Well
- Fractured bedrock at surface
- Non-metallic mine (a gravel or sand mine for example)
- Other direct conduit to groundwater

Notes

Accept Cancel



Soil Map Symbol (critical)	Soil Series Name (critical)	Soil Map Symbol (pre-dominant)	Soil Series Name (pre-dominant)	Field Slope (%)	Field Slope Length (ft)
WoC2	WYOCENA	WxB	WYOCENA	9	150



How does SnapMaps select the Dominant Critical and Predominant Soil?

