

SnapPlus15 (SnapMaps) & Map Update

Stephanie Schneider

DATCP

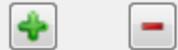
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New Farm Steps in Snap15

- Farm Screen
- Import Soil Tests
 - To get field names in the database
- Open SnapMaps
 - Link field names to spatial map data and download into SnapMaps and import into database to automatically fill out the Field Page
- Finish Field Page
 - Below Field Slope to Water & Distance to Perennial Water

[Right-click on column headers for single or multi-cell editing of selected cells.](#)

GDD Override ?



Total Acres: 130 Field Count: 12

[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-dominant)	Field Slope (%)	Field Slope Length (ft)	Below Field Slope to Water (%)	Distance to Perennial Water (ft)	Restriction Features	Tiled?	Field notes
▶	08	...	<input checked="" type="checkbox"/>			2.00	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	09		<input checked="" type="checkbox"/>			5.00	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	10		<input checked="" type="checkbox"/>			8.30	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	11		<input checked="" type="checkbox"/>			8.70	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	12		<input checked="" type="checkbox"/>			25.50	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	13		<input checked="" type="checkbox"/>			15.50	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	14		<input checked="" type="checkbox"/>			2.00	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	15		<input checked="" type="checkbox"/>			5.00	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	16		<input checked="" type="checkbox"/>			8.30	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	17		<input checked="" type="checkbox"/>			8.70	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	18		<input checked="" type="checkbox"/>			25.50	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	
	19		<input checked="" type="checkbox"/>			15.50	Buffalo					-1	0	Missing	Missing		<input type="checkbox"/>	



Geometry for 0 of 12 fields.



Display rows

All Differences Only

	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		08	Buffalo	2.00			0	0		
	Yes		09	Buffalo	5.00			0	0		
	Yes		10	Buffalo	8.30			0	0		
	Yes		11	Buffalo	8.70			0	0		
	Yes		12	Buffalo	25.50			0	0		
	Yes		13	Buffalo	15.50			0	0		
	Yes		14	Buffalo	2.00			0	0		
	Yes		15	Buffalo	5.00			0	0		
	Yes		16	Buffalo	8.30			0	0		
	Yes		17	Buffalo	8.70			0	0		
	Yes		18	Buffalo	25.50			0	0		
	Yes		19	Buffalo	15.50			0	0		

- Do not have to use this page/SnapMaps.
- Does not automatically connect to internet – you have to force it to upload and download (buttons 1 and 3).
- Notice “Field Borders” is empty.
- This is a preview page similar to soil test import (note the “Import to SnapPlus” button).

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

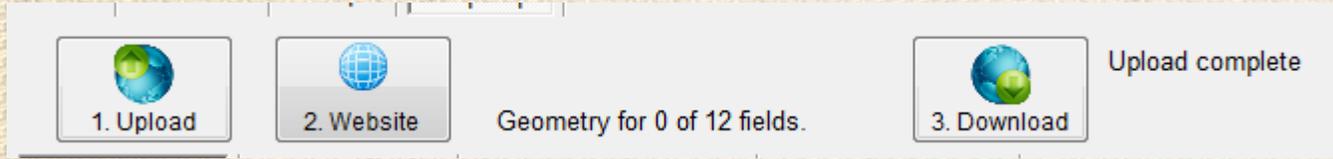
Import To SnapPlus



Delete non-existing fields

All Selected Only

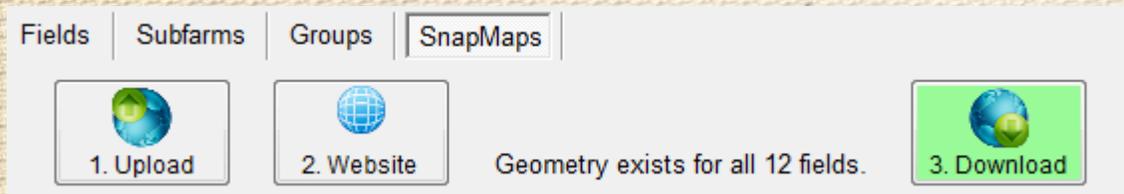
1. Upload (will be green) after click, will say “Upload Complete” and will no longer be green.



2. Open the website.

3. Draw field boundaries and add features (e.g. wells) in the website.

4. Once done drawing and linking field shapefiles/polygons with the field names from the database, then click 3. Download (which will be green) to pull the field’s spatial information into the SnapMaps screen (remember: only a preview at this point, not being used in the database until you import it).



5. Choose the data you want to import into the SnapPlus database (Field screen) and click “Import to SnapPlus”.

6. Complete Field Screen and continue onto the rest of the Snap screens to finish the plan (Nutrients, Cropping).



Layers

Base Layers Turn on/off all

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

Restriction 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

Farm Layers Turn on/off all

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

Active Tool: Navigation



500 ft



- Draw a Feature ▸
 - Edit features ▸
 - Field Snapping
 - Import a Field Shapefile ▸
 - Import a Point Shapefile ▸
 - Export a Field Shapefile ▸
 - Export a Point Shapefile ▸
 - Measuring Tool
- Field ←
 - Field with Common Land Unit ←
 - Irrigation Well
 - Well
 - Drinking Well
 - Sinkhole
 - Fractured bedrock at surface
 - Non-metallic mine
 - Other direct conduit

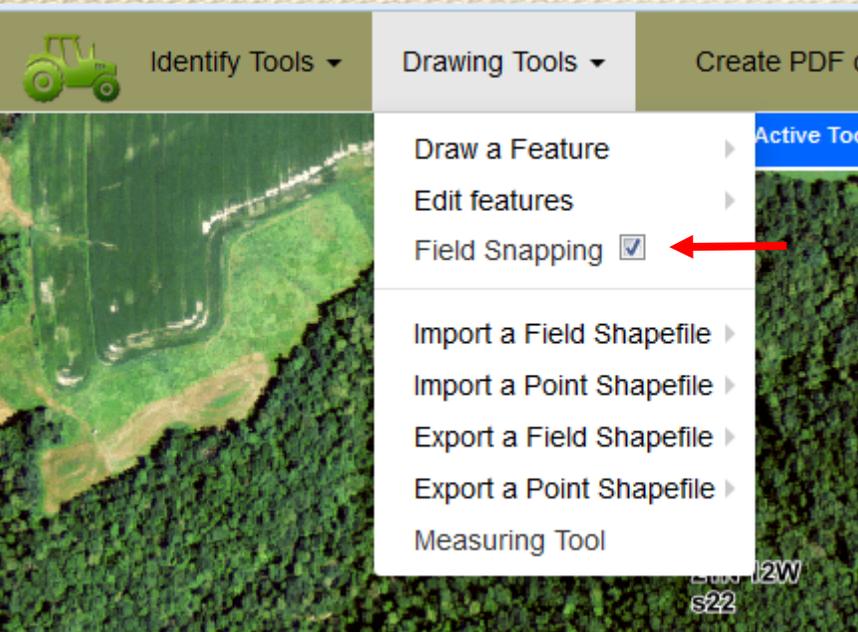
Note: When first add field boundary it will be yellow and you can edit it before accepting it. Faster if you switch tools less.

Drawing Tools ▾ Create PDF of Map

Active Tool: Navigation

- Draw a Feature ▸
- Edit features
- Field Snapping
- Import a Field Shapefile ▸
- Import a Point Shapefile ▸
- Export a Field Shapefile ▸
- Export a Point Shapefile ▸
- Measuring Tool

- Edit a Field
- Edit Fields with common boundary
- Split a field
- Delete fields
- Edit a point
- Delete a point



When Editing a Field boundary, click where there is a point to delete it or click and drag to add a point.

Use Edit Feature > “Split a Field” to split strips apart (draw first shapefile around entire field boundary then split as needed).

Use Edit Features > “Edit a Field” to change a field name

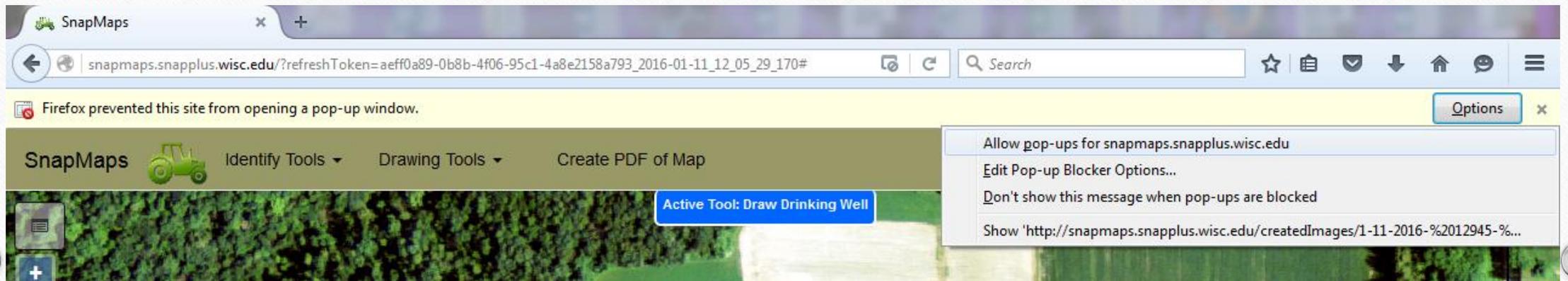
Can't have more than one shapefile per field as of right now

Can't have “donuts” in fields.

Can import field boundaries from Interactive maps, handheld GPS or FarmWorks/SST.

More Tips & Tricks

- Once done drawing field boundaries in SnapMaps, Export to save a backup.
- If field boundaries suddenly disappear or revert to old names, click Refresh (recommend clicking Download in SnapPlus first)
- “Create PDF of Map” > Firefox will ask to allow pop-ups.



 1. Upload
  2. Website
 Geometry exists for all 12 fields.
 3. Download

Display rows

All
 Differences Only
 

	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		08	Buffalo	4.42	115B2	115B2	4	200		POLYGON
	Yes		09	Buffalo	5.81	115C2	115B2	9	150		POLYGON
	Yes		10	Buffalo	6.27	115C2	115B2	9	150		POLYGON
	Yes		11	Buffalo	5.55	115C2	115B2	9	150		POLYGON
	Yes		12	Buffalo	6.95	115C2	115C2	9	150		POLYGON
	Yes		13	Buffalo	12.86	115C2	115C2	9	150		POLYGON
	Yes		14	Buffalo	2.46	115C2	115C2	9	150		POLYGON
	Yes		15	Buffalo	7.27	115C2	115B2	9	150		POLYGON
	Yes		16	Buffalo	7.35	115C2	115B2	9	150		POLYGON
	Yes		17	Buffalo	6.37	115C2	115B2	9	150		POLYGON
	Yes		18	Buffalo	6.72	115C2	115C2	9	150		POLYGON
	Yes		19	Buffalo	8.16	115C2	115B2	9	150		POLYGON

SnapMap field boundary '08'

```

POLYGON ((-10220955.2263 5509161.6318000033
-10220956.0184 5509195.7127000019
-10220956.2539 5509199.0324999988
-10221136.9561 5509180.5511000007
-10221264.624 5509173.5063000023
-10221291.3733 5509161.4474000037
-10221330.8025 5509130.0147999972
-10221357.628 5509112.6231999993
-10221375.5201 5509100.4377000034
-10221380.9616 5509091.625500001
-10221375.7749 5509082.6613999978
-10221340.5002 5509071.4852000028
-10221315.701 5509071.1272
-10221253.5754 5509079.1194999963
-10220999.8091 5509107.4526999965
-10220954.0967 5509112.9786999971
-10220955.2263 5509161.6318000033))
    
```

Close

Website does not hold and store information – all point info is saved inside SnapPlus; so maps can be shared by sharing the database and you do not have to worry about the website being fickle or losing data.

Hovering over “differences” will show what’s currently entered on the Field page.

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

0 records imported.

 Refresh

Delete non-existing fields

All
 Selected Only



Geometry exists for all 12 fields.



Display rows

All

Differences Only



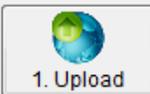
SnapMap Fields

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	Notes
▶		Buffalo	08	115B2	4	200	98.6	L	H	0.49	5	0.052		
		Buffalo	08	115C2	9	150	1.4	L	H	0.49	5	0.141		
		Buffalo	09	115B2	4	200	69.0	L	H	0.49	5	0.052		
		Buffalo	09	115C2	9	150	30.8	L	H	0.49	5	0.141		
		Buffalo	10	115B2	4	200	50.1	L	H	0.49	5	0.052		
		Buffalo	10	115C2	9	150	50.1	L	H	0.49	5	0.141		
		Buffalo	11	115B2	4	200	56.0	L	H	0.49	5	0.052		
		Buffalo	11	115C2	9	150	44.0	L	H	0.49	5	0.141		
		Buffalo	12	115C2	9	150	55.3	L	H	0.49	5	0.141		
		Buffalo	12	115B2	4	200	43.5	L	H	0.49	5	0.052		
		Buffalo	12	125E2	25	60	1.3	L	H	0.49	4	0.559		
		Buffalo	13	115C2	9	150	54.3	L	H	0.49	5	0.141		
		Buffalo	13	115B2	4	200	40.5	L	H	0.49	5	0.052		
		Buffalo	13	125E2	25	60	5.2	L	H	0.49	4	0.559		
		Buffalo	14	115C2	9	150	96.3	L	H	0.49	5	0.141		
		Buffalo	14	115B2	4	200	3.3	L	H	0.49	5	0.052		
		Buffalo	15	115B2	4	200	87.9	L	H	0.49	5	0.052		
		Buffalo	15	115C2	9	150	12.1	L	H	0.49	5	0.141		
		Buffalo	16	115B2	4	200	77.3	L	H	0.49	5	0.052		
		Buffalo	16	115C2	9	150	22.7	L	H	0.49	5	0.141		
		Buffalo	17	115B2	4	200	50.9	L	H	0.49	5	0.052		
		Buffalo	17	115C2	9	150	49.1	L	H	0.49	5	0.141		
		Buffalo	18	115C2	9	150	51.2	L	H	0.49	5	0.141		
		Buffalo	18	115B2	4	200	48.8	L	H	0.49	5	0.052		
		Buffalo	19	115B2	4	200	72.9	L	H	0.49	5	0.052		
		Buffalo	19	115C2	9	150	27.1	L	H	0.49	5	0.141		



1. Upload



2. Website

Geometry exists for all 12 fields.



3. Download

SnapMap Fields

SnapMap Soils

SnapMap Restrictions

SnapMap Features

	Subfarm Name	Field Name	Restriction	Percent	Notes
▶		08	Winter restriction if slope ...	1.36	
		09	Winter restriction if slope ...	30.81	
		10	Winter restriction if slope ...	50.08	
		10	Well 200 ft	15.15	
		11	Winter restriction if slope ...	43.96	
		12	No Winter App. slope > 12	1.29	
		13	No Winter App. slope > 12	5.21	
		14	Winter restriction if slope ...	96.34	
		15	Winter restriction if slope ...	12.10	
		16	Winter restriction if slope ...	22.72	
		17	Winter restriction if slope ...	49.14	
		18	Winter restriction if slope ...	51.19	
		19	Winter restriction if slope ...	27.08	

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

Import To SnapPlus

0 records imported.



Refresh



Geometry exists for all 12 fields.



SnapMap Fields

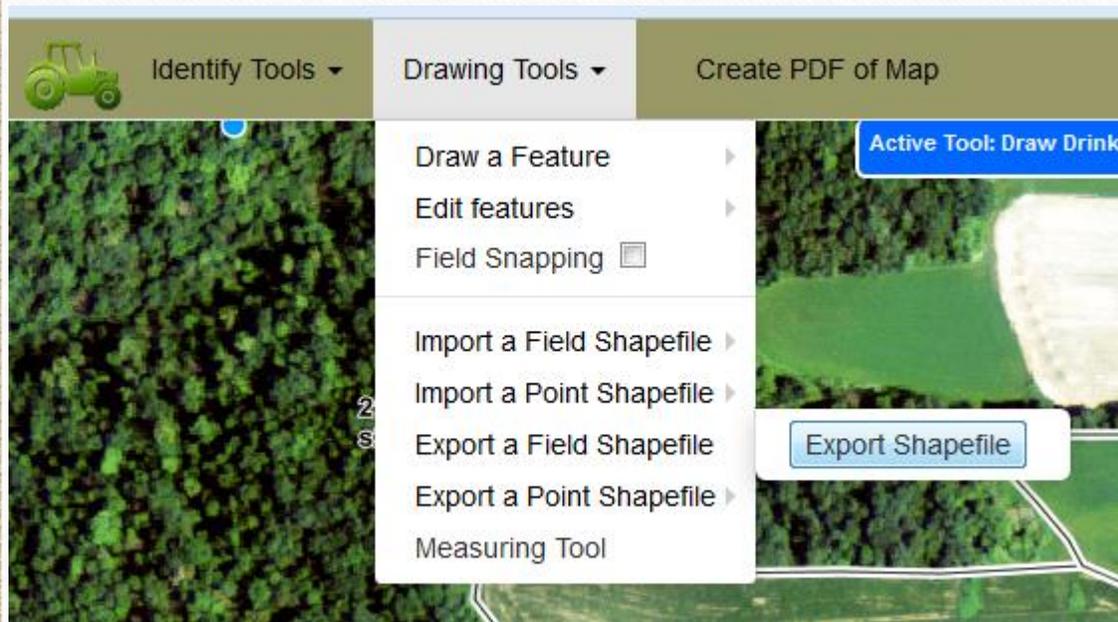
SnapMap Soils

SnapMap Restrictions

SnapMap Features

Name	Feature Type	Notes	Geometry
▶ Home Farm ...	Drinking Well 50 ft		POINT (-1022...

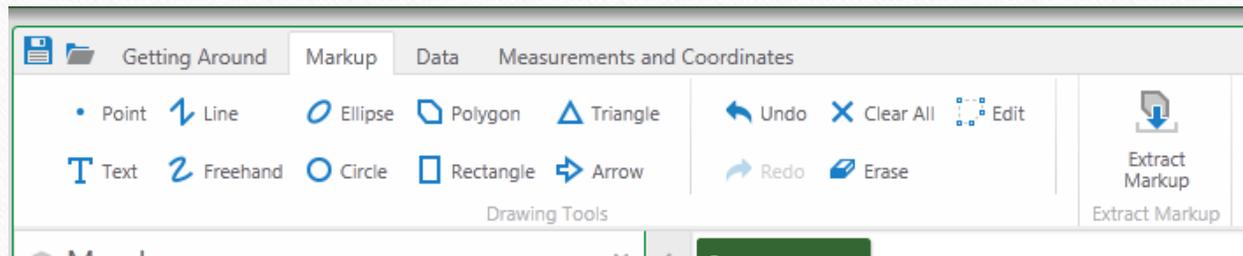
Exporting Shapefiles from SnapMaps



- Export Field Shapefiles (polygons) separate from Point (well) shapefiles
- Exports as a zipped folder onto your computer

Export from Interactive, Import to SnapMaps

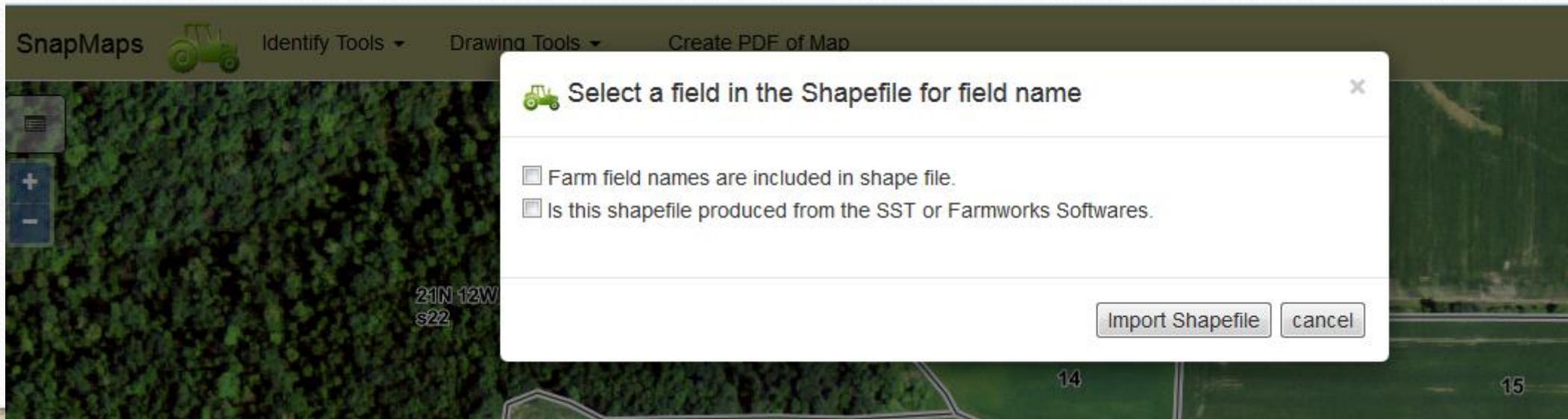
- Inside the Interactive maps: Markup > Extract Markup (not visible until you have drawings). First: delete text or if only a few wells, plan to re-draw those



- These will download onto your computer (no need to unzip/extract before importing into SnapMaps)
- Inside SnapMaps website: “Drawing Tools” > “Import a Field Shapefile” and “Import a Point Shapefile”
- Text will export from Interactives as points (field names/text is lost)

Import to SnapMaps Website

- Drawing Tools > Import a Field Shapefile
- Ignore checkboxes if from Interactive maps



<https://www.youtube.com/user/SnapPlusUW>



Upload



SnapPlus

What is SnapMaps?

SnapMaps

SnapPlusUW • 1/5 videos



SnapPlus: What is SnapMaps?
SnapPlusUW

2



SnapPlus: Navigating SnapMaps
SnapPlusUW

3



SnapPlus: Drawing Field Boundaries in SnapMaps
SnapPlusUW

4



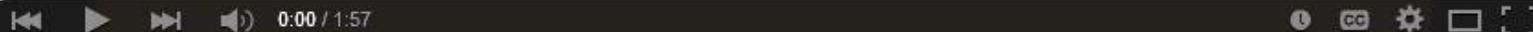
SnapPlus: Selecting Data in SnapMaps
SnapPlusUW

5



SnapPlus: Editing Field Boundaries in SnapMaps
SnapPlusUW

0:00 / 1:57



Future of the Maps

- GeoPDF's: Will be completely taken down within a few months.
- Interactives
 - Will always be available, even with SnapMaps
 - We are in the process of converting to HTML5 now (Firefox was working)
 - May lose .gvsp functionality; export all shapefiles so they can be re-imported (or start using SnapMaps)
 - Server open and at capacity, may need to start requiring a password/capcha
- SnapMaps: 1st phase, only going to improve from here (cropping page info from database up onto maps??)

Cut NM Update Time in Half!

- Daily Log
- Rotation Wizard
 - Fert & Manure Apps: Insert Planned, Update Actuals
 - Update Cropping Info (yields, legume credits, tillages....)
- Groups (Query Fields)
- Manure Allocator
- Share field & app info with other planners/farms
- Annual NM Update Reports
 - Compliance Check
 - Field Data & 590 Assessment
 - DNR CAFO Nutrient Mass Balance Report
 - DNR CAFO Annual Spreading
 - Annual Manure Production Report
 - Annual PI Report
 - Crop Trends Production Report
 - Soil Test Summary Report

Trainings: Beyond the Basics & Plan Review

Wausau: Feb 8th

Jefferson: Feb 11th

Fennimore: Feb 18th

Green Bay: Feb 19th

Mauston: Feb 22nd

Fond du Lac: March 1st

Eau Claire: March 7th

Madison: March 10th

Thank You!

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