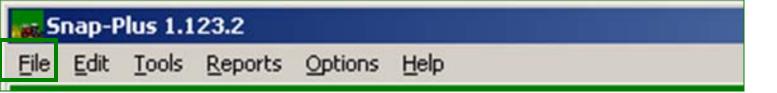
Nutrient Management - It's a SNAP



SNAP-Plus • Wisconsin's Nutrient Management Software



Split Multi-farm Databases

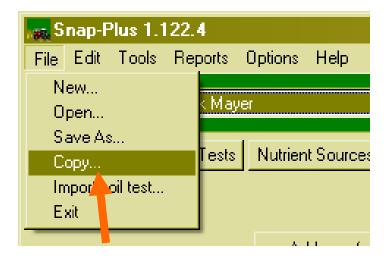
Problem: Slow calculations or computer times out during report generation.

Solution: Split farms out into their own database using the Snap Plus copy wizard.

Choose "File"

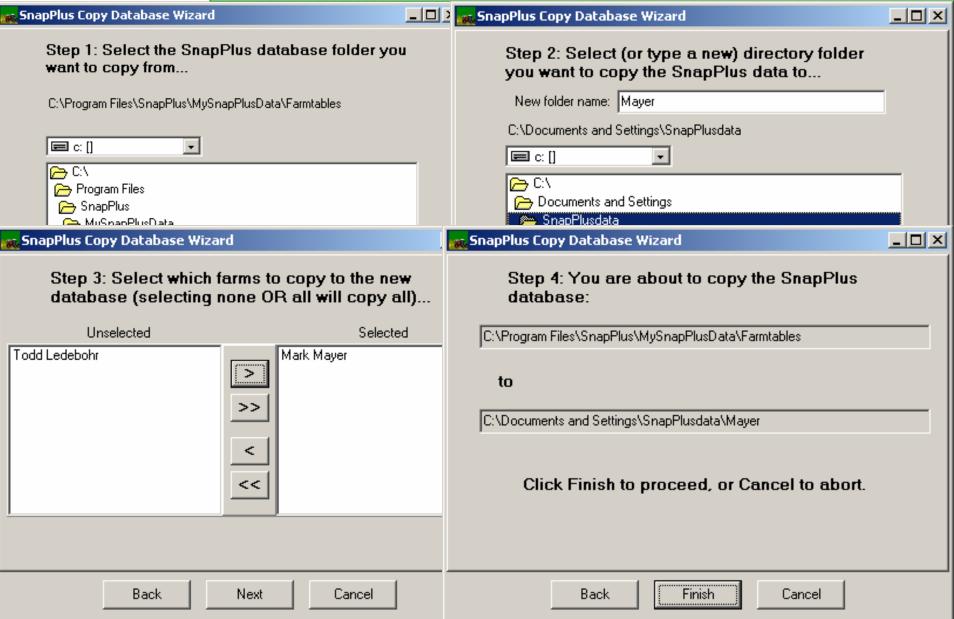


Then "Copy"



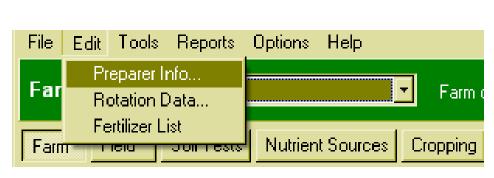


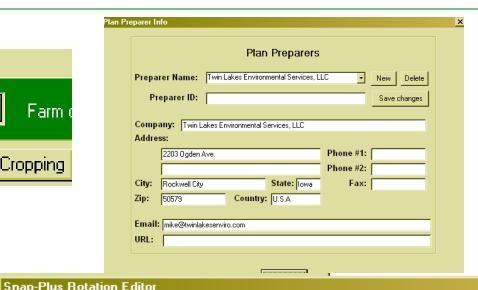
Copying & Splitting Databases





Preparer Info and Rotation Data





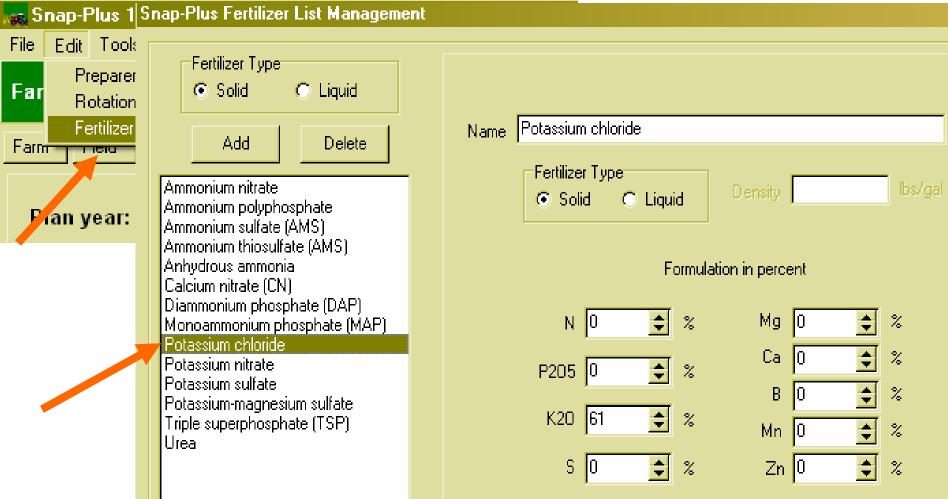


Add	CB CC c(HAY)			
ear	Сгор	Yield Goal	Tillage	Irrigated
	Corn grain	171-190	Fall Chisel	
	Soybeans 30-36 inch row	56-65	No Till	
	Corn grain	171-190	Fall Chisel	
	Soybeans 30-36 inch row	56-65	Fall Chisel	



Fertilizer List

You can edit the master fertilizer list for all farm databases on your computer





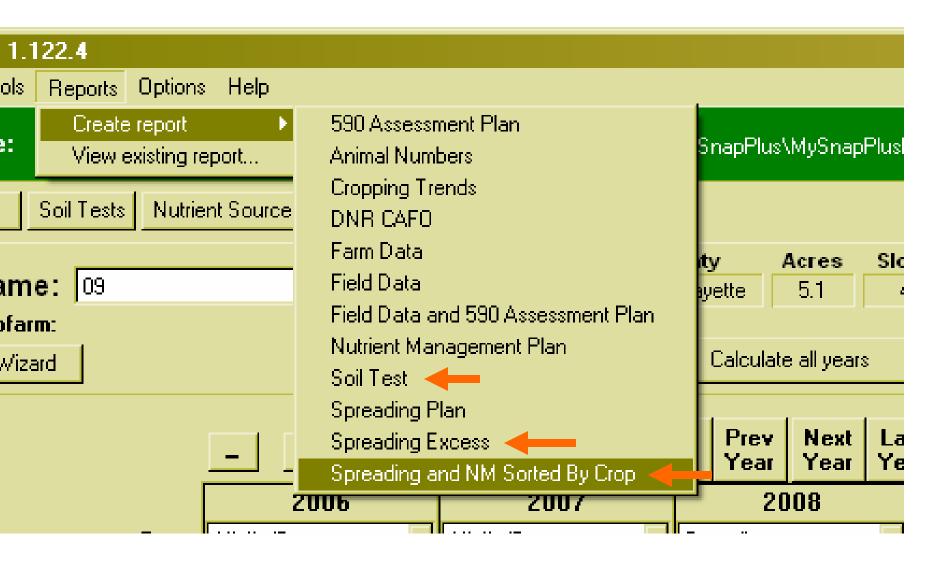
Tools Menu



- Rotation Wizard
- Show Snap-Plus Errors
- Update all fields

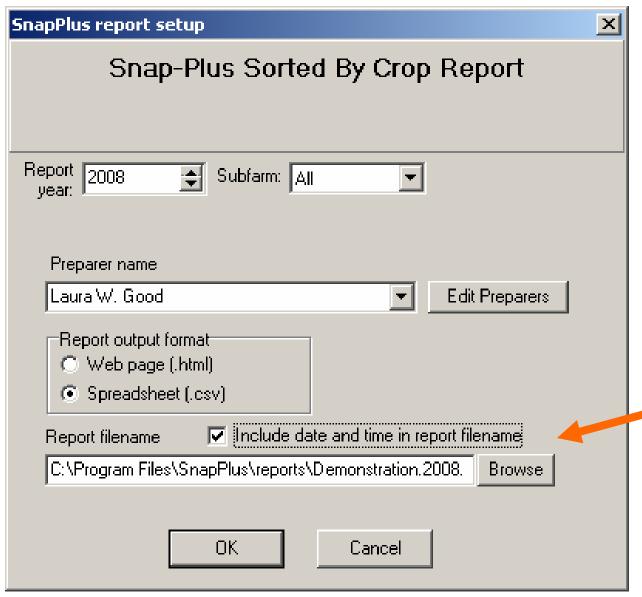


Reports Updates





Report Setup Box



You now can enter a file name for storing the report



Short Soil Test Report

Snap-Plus Soil Test Report (short)

Snap-Plus version 1.122.4

Prepared 12/6/2007

Prepared for salter farm attn: mike salter N5310 cty rd pp Black Creek, WI 54106

Field data

Field name	Acres	Soil Map Symbol	Soil Name	Soil test date	Soil test lab	Lab Sample #	Number of Samples	Acres per Sample	pН	OM %	P ppm	Kppm	S ppm	ВрН	CEC
1 al	5.8	HrB	HORTONVILLE	11/13/2006	AgSource	784665	1	6	7.4	2.1	15	79			
1 al	5.8	HrB	HORTONVILLE	12/12/2002		765633			7.1	2.4	24	83			
12	23.0	HrB	HORTONVILLE	11/13/2006	AgSource	784664	5	5	7.0	3.1	126	173			
12	23.0	HrB	HORTONVILLE	12/12/2002	AgSource	765633	5	5	7.3	3.4	111	148			
12COR1	5.1	HrB	HORTONVILLE	11/13/2006	AgSource	784664	1	5	7.1	2.6	111	171			
12COR1	5.1	HrB	HORTONVILLE	12/12/2002	AgSource	765633	1	5	7.5	3.4	52	121			
12COR2	5.9	HrB	HORTONVILLE	11/13/2006	AgSource	784664	1	6	7.4	2.5	70	123			
12COR2	5.9	HrB	HORTONVILLE	12/12/2002	AgSource	765633	1	6	7.7	1.8	69	100			
12COR3	3.0	HrB	HORTONVILLE	11/13/2006	AgSource	784664	1	3	7.2	2.6	85	143			
12COR3	3.0	HrB	HORTONVILLE	12/12/2002	AgSource	765633	1	3	7.2	2.5	79	122			
2	18.0	HrB	HORTONVILLE	11/13/2006	AgSource	784665	4	5	7.2	2.3	32	111			
2	18.0	HrB	HORTONVILLE	12/12/2002	AgSource	765633	4	5	7.4	2.2	30	102			
2F	4.0	HrB	HORTONVILLE	11/13/2006	AgSource	784665	1	4	7.5	2.2	28	114			
3-3D	12.0	HrB	HORTONVILLE	11/13/2006	AgSource	784665	2	6	7.5	2.2	69	115			
3-3D	12.0	HrB	HORTONVILLE	12/12/2002	AgSource	765633	2	6	7.4	2.9	81	108			
4	5.3	HrC2	HORTONVILLE	11/13/2006	AgSource	784665	1	5	7.8	2.1	36	107			
4	5.3	HrC2	HORTONVILLE	12/12/2002		765633			7.6	2.1	60	110			



New Report

Spreading and nutrient management sorted by crop

	First Year Corn Grain Fields							Applications				Soil Test		Recommend ations			Planned Applications and Credits			Over(+) Under(-) UW Recs		
Name	Acres	Field Slope (%)	Soil Series, Map Symbol & N Restriction	Prior Crop	2008 Crop	Yield Goal	Tillage	Product	Application rate and method	N P2O5 K2O credit	Total Amount	Ave P ppm	Ave K ppm	N Ib <i>l</i> ac	P2O5 lb/ac	K2O Ibłac	N Iblac	P2O5 lb/ac	K2O Ibłac	N Iblac	P2O5 lb/ac	K2O Ibłac
11	8.3	8	TAMA (TaC2)	AB	Com grain	171- 190	Spring Chisel					68	99	165	0	50	174	43	130	9	43	80
11								Dairy Pack 4/5i-6-20	5 tons/acre Spring Surface	19-32-100	42 tons											
11								legume		130-0-0												

8.3 planned First Year Corn Grain acres

2 planned

Tons

Dairy Pack

applied spring



New Report

Spreading excess report shows fields with N over-applications in excess of 590 guidelines

Snap-Plus Excess N Applications Report

Prepared 12/4/2007

Snap-Plus version 1.122.4

Prepared for

salter farm attn: mike salter N5310 cty rd pp Black Creek, WI 54106

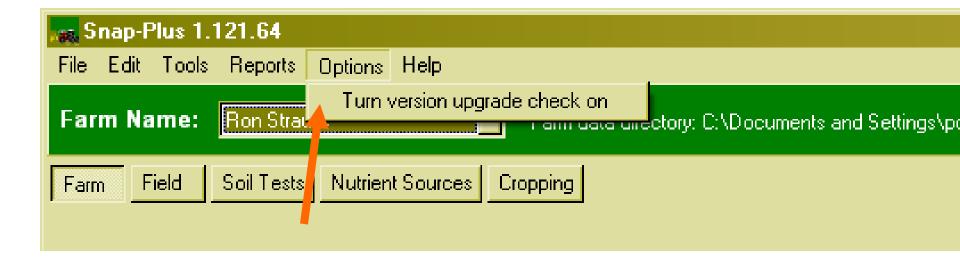
Excess N applications

	Field Name	Year	Amount (Ibs/acre)	Reason	Explanatio
12		2008	2	** Overapplication of manure or fertilizer N of 11 lbs N/acre.	



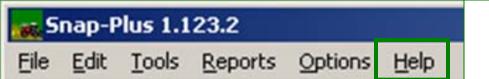
Options Menu

Version Upgrade Check



This feature is turned off at install.

Users can turn it on from the "Options" menu item.



New in Reference

Editable Emergency Response Form

What to do in Case of a Manure Spill 1. Eliminate the source. • Stop manure application or pumps. • Close valves. • Beparate pipes, creating an air gap and stopping flow. • Transfer manurefliquid to another basin or lagoon. 2. Contain the spill, if possible. • Create a containment dam in the fleid, ditch or stream. • In a fleid, use tillage equipment to slow the flow. • Check for tile flows. • Construct a temporary holding basin down slope. • Ensure that you do not damage the embankment while creating a temporary basis. Earthmoving Contactors Company Name Earthmoving Contactors Company Name Earthmoving Contactors Company Name Earthmoving Contactors Company Name Emergency Phone: Directions to the farm (from crossroad or highway) Pumping Equipment Company Name Company Name Directions to the farm (from crossroad or highway) Pumping Equipment Company Name Done 1,800,943,0003		
What to do in Case of a Manure Spill 1. Eliminate the source. • Stop manure application or pumps. • Close valves. • Deparate pipes, creating an air gap and stopping flow. • Transfer manurefliquid to another basin or lagoon. 2. Contain the spill, if possible. • Create a containment dam in the fleid, ditch or stream. • In a field, use tiliage equipment to slow the flow. • Check for tile flows. • Construct a temporary holding basin down slope. • Ensure that you do not damage the embankment while creating a temporary basis. Directions to the farm (from crossroad or highway) Pumping Equipment		
Farm I Ellminate the source. Stop manure application or pumps. Geparate pipes, creating an air gap and stopping flow. Transfer manure/liquid to another basin or lagoon. Coreate a containment dam in the fleid, ditch or stream. In a field, use tilage equipment to slow the flow Construct a temporary holding basin down slope. Ensure that you do not damage the embankment while creating a temporary basis. What to do in Case of a Manure Spill Farm Information Farm Name: Porters Dairy Address: City: State: Zip: Farm Owner: Phone: Mobille Phone: Directions to the farm (from crossroad or highway) Pumping Equipment Company Name Company Name Directions to the farm (from crossroad or highway) Directions to the farm (from crossroad or highway)	ill Emergency Respo	nse Plan
If possible, place soil over the point of seepage, ensuring that you do not drive over or compact the seepage point. 3. Assess the extent of the spill and note any obvious damages. • Did the spill reach any surface waters, well casings or other sensitive areas? • How much was released? • What time? • Did any damage occur (employee liqury, fish kills, or property damage)? • Can the spill reach streams? 4. Contact the appropriate agencies. • Clean up the spill and make repairs. • If possible, place soil over the point of seepage, ensuring that you do not drive over compact the seepage point. County Concervation Dept. County Calkins Phone Number Department of Natural Resources Animal Waste Specialist Phone Number Company Name Company Name Phone Number Equipment, & Manure Hauling Contractors Equipment Owners (other neiphboring farms) Name Phone Number	Address Address Address Address	Phone Phone Phone



Soil Tests Field Screen Updates

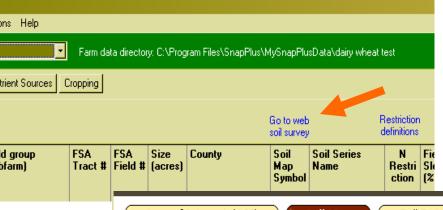
NRCS Soil survey map symbol updates through February 2007 are included

New version adds "N Restrictions" column & removes existing N restrictions notices from "Field notes" column

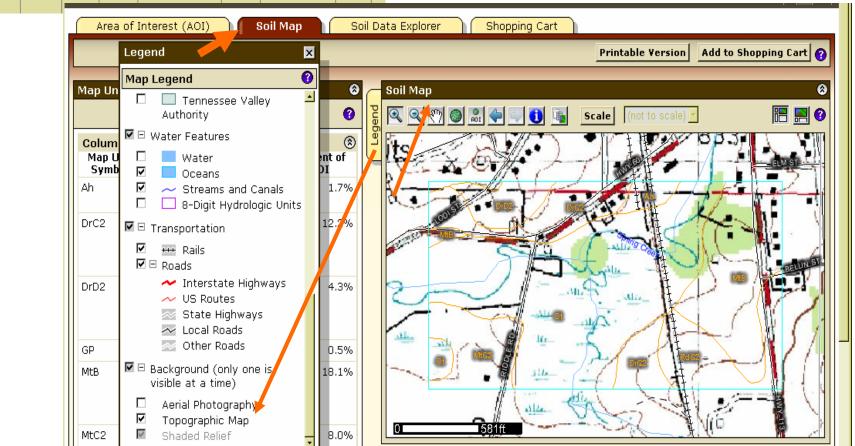
File Edit Tools Reports Options Help														
Farm Name: Richland County Farm data directory: C:\Program Files\SnapPlus\MySnapPlusData\Richland County Farmtables														
Farm Field Soil Tests Nutrient Sources Cropping														
Go to web Restriction														
Add Field Delete Field Go to web soil survey definitions														
Field Name	Field group (subfarm)	FSA Tract #	FSA Field #	Size (acres)	County	Soil Map Symbol	Soil Series Name	N Restri	Field Slope (%)	Field Slope Length	Below Field Slope	Distance to Water (ft)		Field notes
					1	Symbol		Ction	(~)	(ft)	to Water (%)	(14)	Year	
AJ-A		8828		1.9	WI-Richland	336A	TODDVILLE		2	249	0-2	0 - 300	2005	
Bridge				7.8	WI-Richland	318A	BEARPEN		1	249	0-2	0 - 300	2005	No winter
DV-01		2002		5.6	WI-Richland	572C2	WINDWARD	Р	8	151	6.1 - 12	1001 -	2005	
DV-02		2002		2.7	WI-Richland	434B	BILSON		4	200	2.1 - 6	1001 -	2005	
DV-03		2002		2.8	WI-Richland	434B	BILSON		4	200	2.1 - 6	1001 -	2005	
DV-04		2002		4.4	WI-Richland	434B	BILSON		4	200	2.1 - 6	1001 -	2005	
DV-05		2002		3.9	WI-Richland	576B	TINTSON		4	200	2.1 - 6	1001 -	2005	
DV-06		2002		9.3	WI-Richland	434B	BILSON		4	200	2.1 - 6	1001 -	2005	
DV-06A		2002		2.9	WI-Richland	576B	TINTSON		4	200	2.1 - 6	1001 -	2005	

Farm Field Soil Test

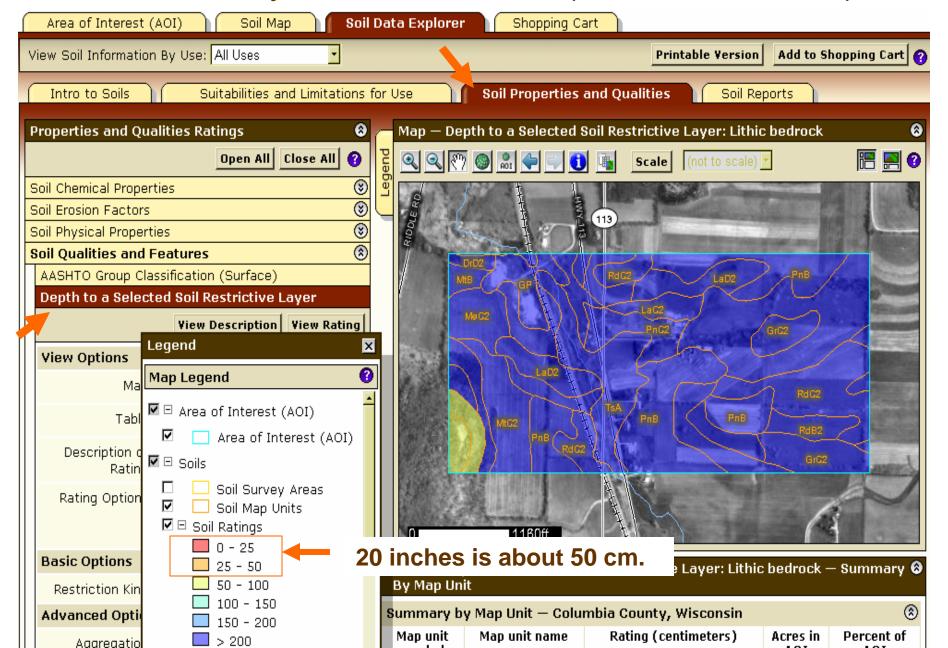
Soil Tests Web Soil Survey Link



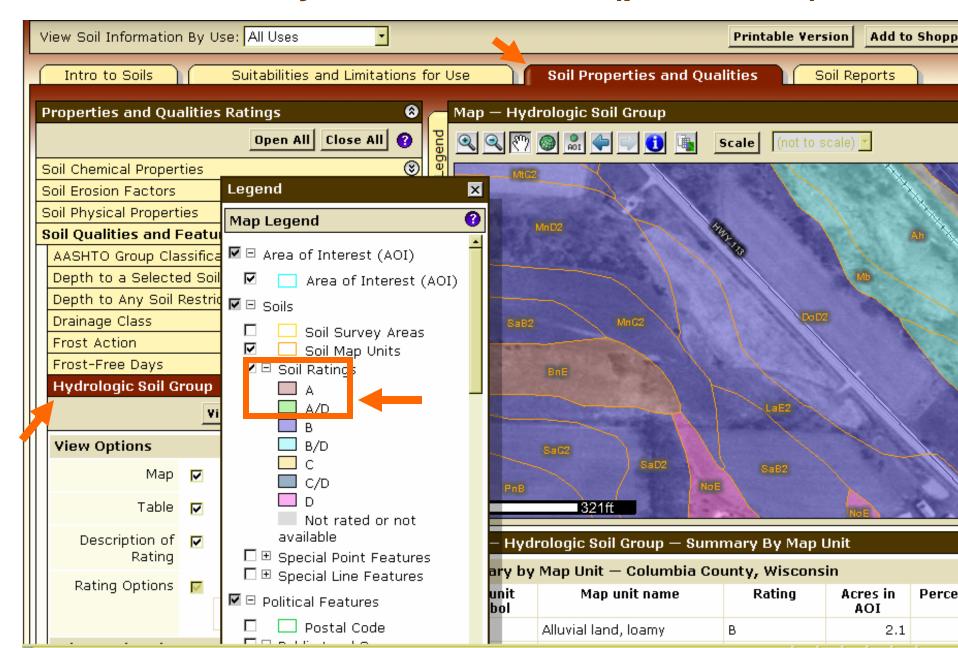
Get field soil and topo maps from NRCS Web Soil Survey



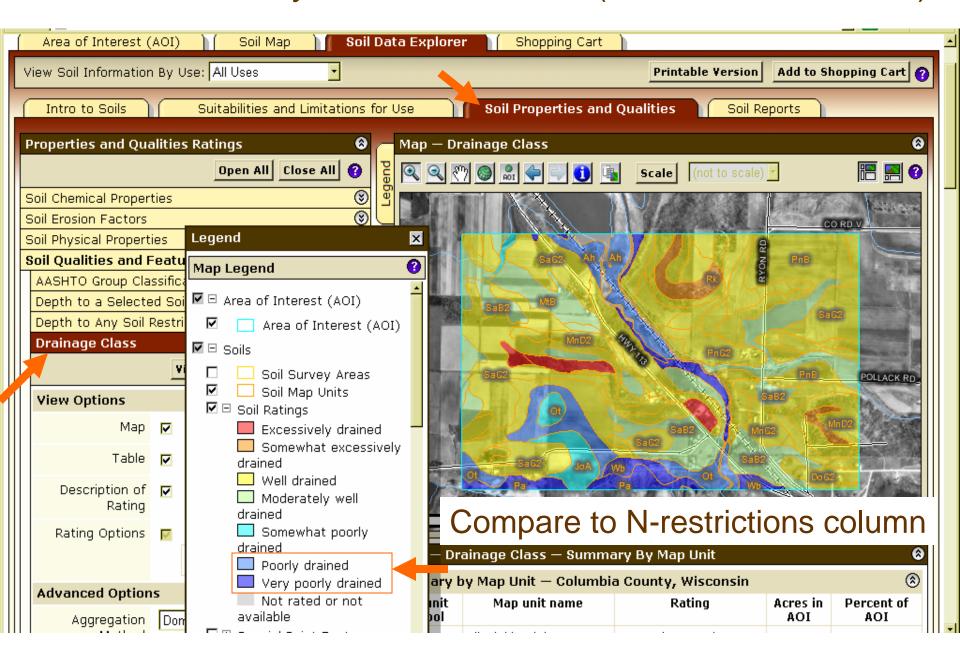
Web Soil Survey: N-Restricted R (shallow bedrock) soils



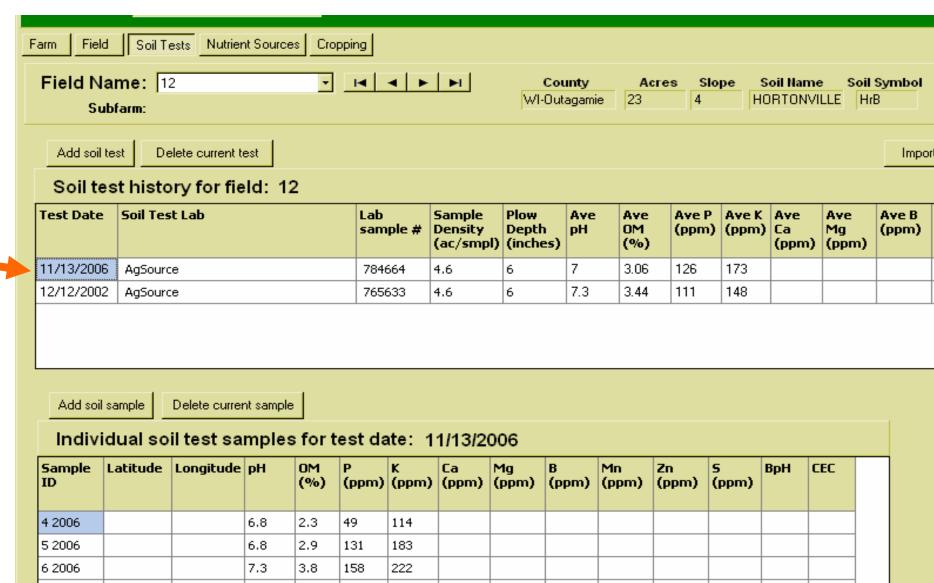
Web Soil Survey: N-Restricted P (permeable) soils



Web Soil Survey: N-Restricted W (<12" to water table)



Most recent soil test is listed first

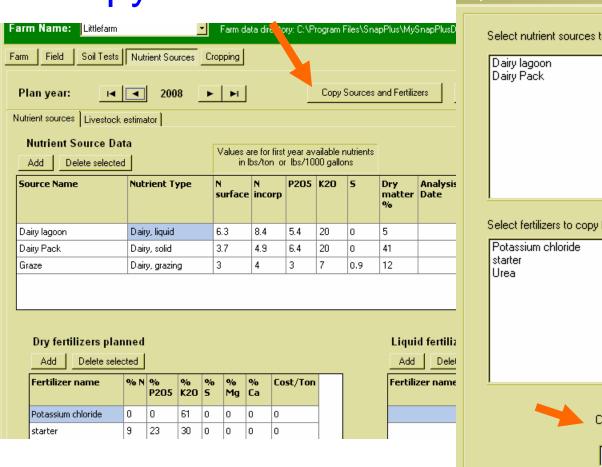


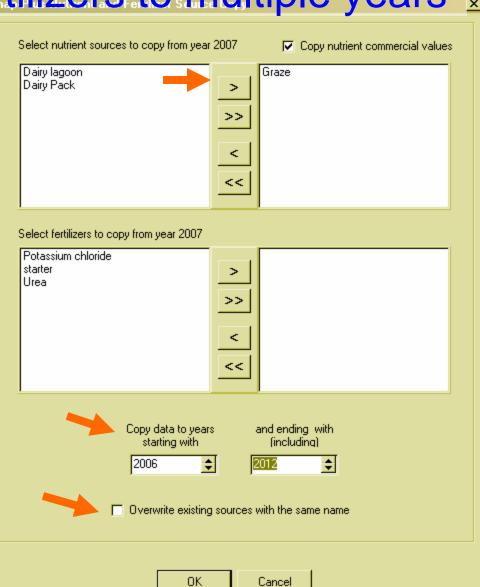
Field



Soil Tests Nutrient Sources Cro Nutrient Sources

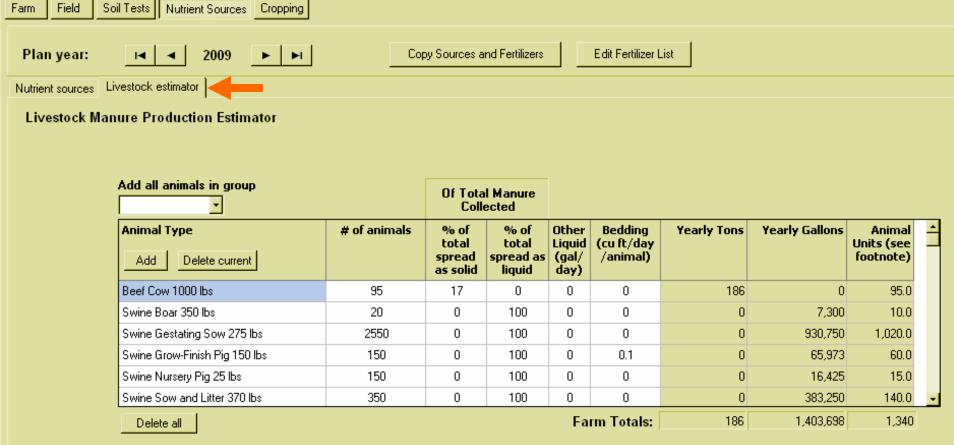
Copy manures and fertilizers to multiple years





Soil Tests | Nutrient Sources | Livestock Estimator

The Livestock Estimator is improved



NOTE: Animal categories are from "Wisconsin Conservation Planning Technical Note WI-1". To calculate animal units these categories have been roughly matched with the animal categories in WI DNR NR 243, Table 2A to get the appropriate equivalency factors. Not all animal categories included in NR 243 Table 2A could be included in this estimator. In particular, this estimator does not currently calculate animal units for chickens and ducks raised using "liquid system" processes. Please refer to NR 243 Table 2A to calculate animal units for any animal type not shown here. Both the Tech Note and NR243 are included with Snap-Plus and can be viewed from the "Help/References" menu or by clicking the following links.

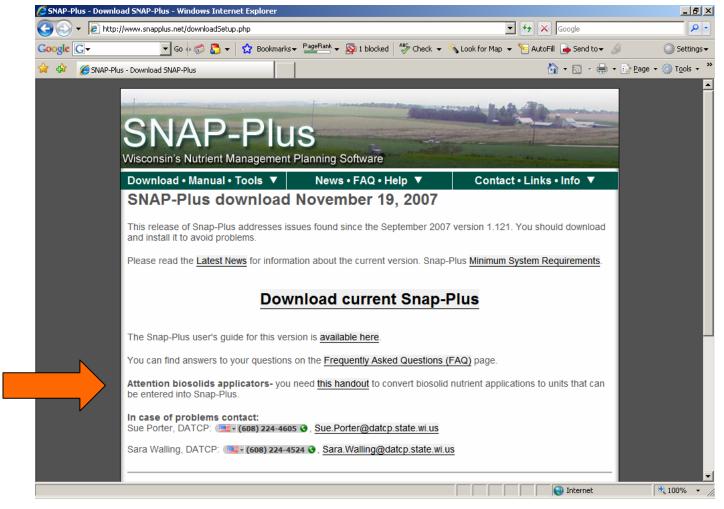


Field

Soil Tests Nutrient Sources Cropping

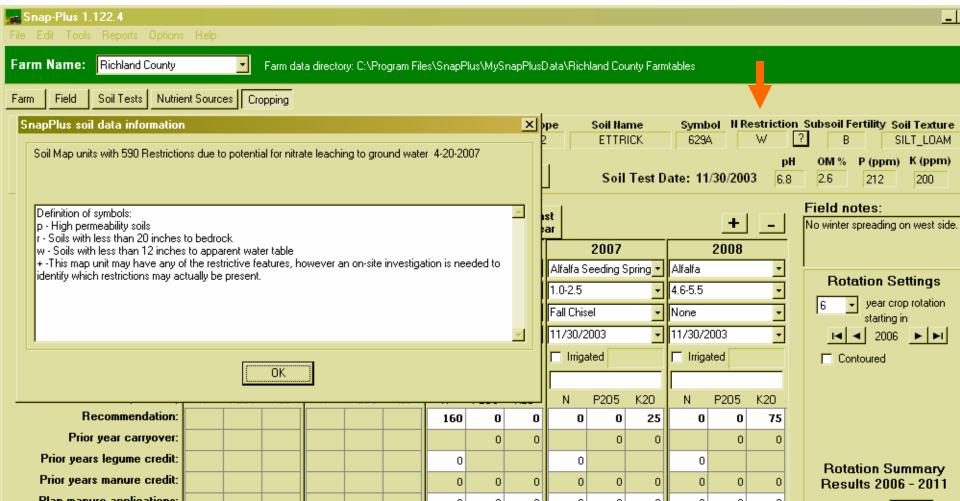
Biosolids Entry

If you need to enter biosolids applications in Snap-Plus, get the explanation handout from the Snap-Plus download site.



Future versions of Snap-Plus will have a biosolids nutrient analysis data entry feature.

"N restriction" displayed on the Cropping screen adjacent to the soil name and symbol



Field

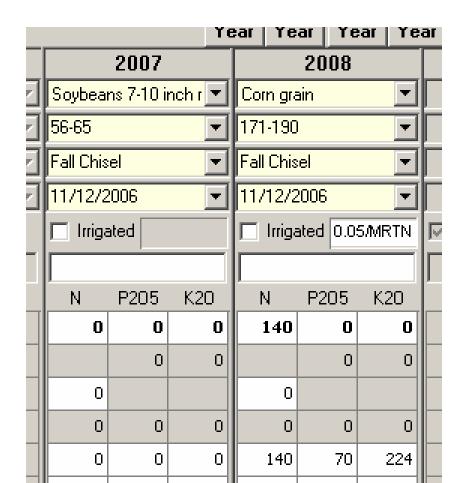
Snap-Plus years are crop years Crop years = harvest-to-harvest

2007 Crop Year Soybean

Chisel plowed: 11/3/2006

Planted: 5/12/2007

Harvested: 10/14/2007



2008 Crop Year Corn

14,000 gal/acre dairy manure inc. with chisel plow: 10/31/2007

Planted: 4/20/2008

Harvested: 10/24/2008 eld

Double crops: Two crops are harvested in one crop year

Example: Winter grains harvested for forage in the spring and followed by a spring-planted crop harvested in the fall



2007 Crop Year Corn for silage

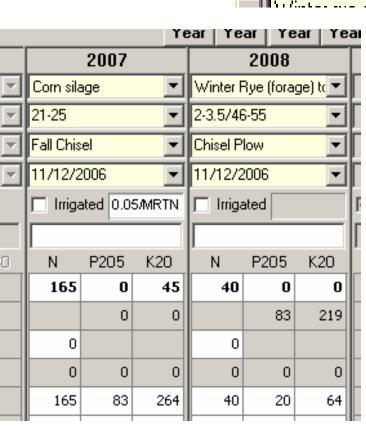
16,500 gal/a dairy manure

Applied: 11/2/2006

Chisel plowed: **11/3/2006**

Planted: **5/12/2007**

Harvested: 9/6/2007



2008 Crop Year Winter rye and soybean

4,000 gal/acre dairy manure inc. w/ chisel 9/12/2007

Rye planted :9/18/2007 Rye harvested:5/15/2008

Chisel plow: 5/20/08

Soybean planted:5/25/08

Harvested: 10/25/2008

Field

Soil Tests

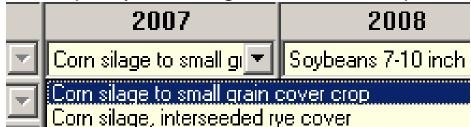
Nutrient Sources | Cropping

Cover Crops

Cover crops: Not harvested

Purpose: To reduce soil loss and improve soil quality following low residue crops

Example: Winter rye planted after corn silage and killed in the spring without harvesting



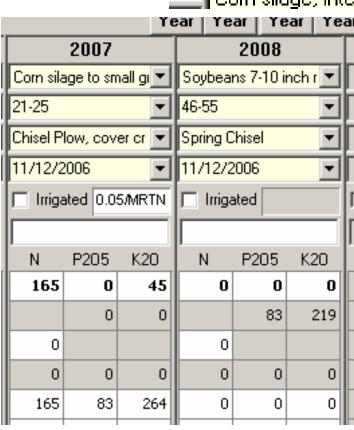
2007 Crop Year Corn for silage

16,500 gal/a dairy manure: 11/2/2006

Chisel plow: 11/3/2006 Planted: 5/12/2007 Harvested: 9/6/2007

Rye cover crop Disk: 9/12/2007

Rye planted: 9/15/2007 Rye killed: 4/15/2008



2008 Crop Year Soybean

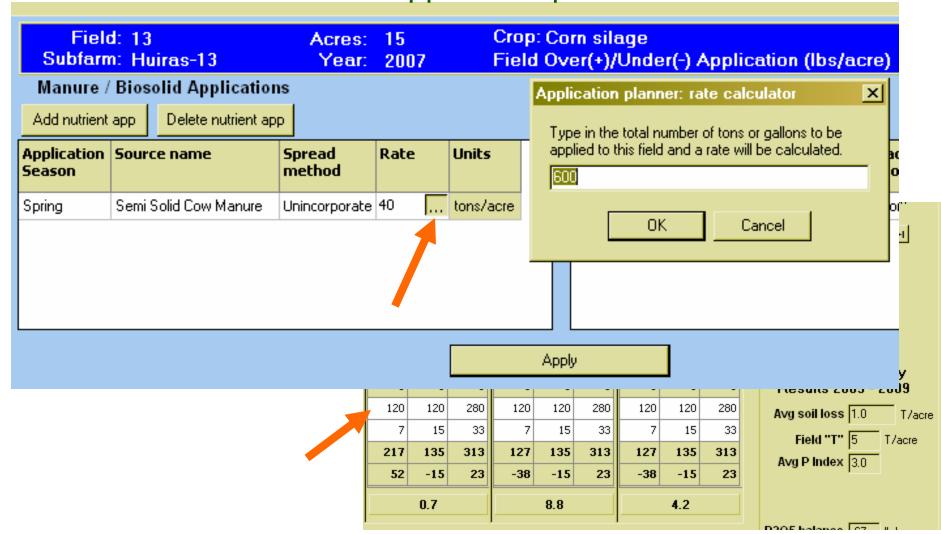
Chisel plow: 5/1/2008

Planted: 5/15/2008

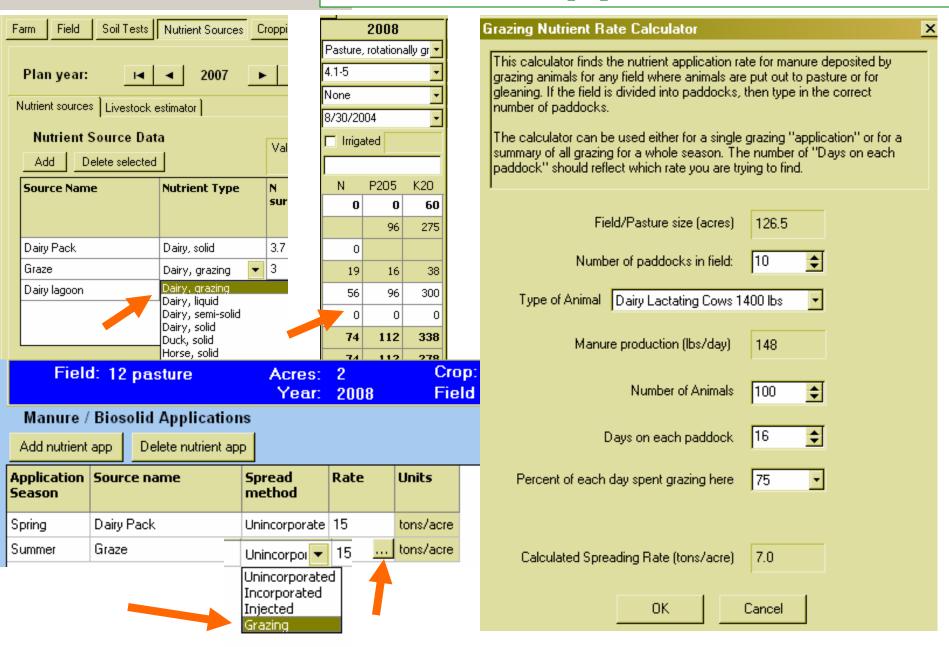
Harvested: 10/10/2008

Nutrient Sources Cropping Field Application Rates

The amount of manure applied to the entire field can be entered into the nutrient application planner.



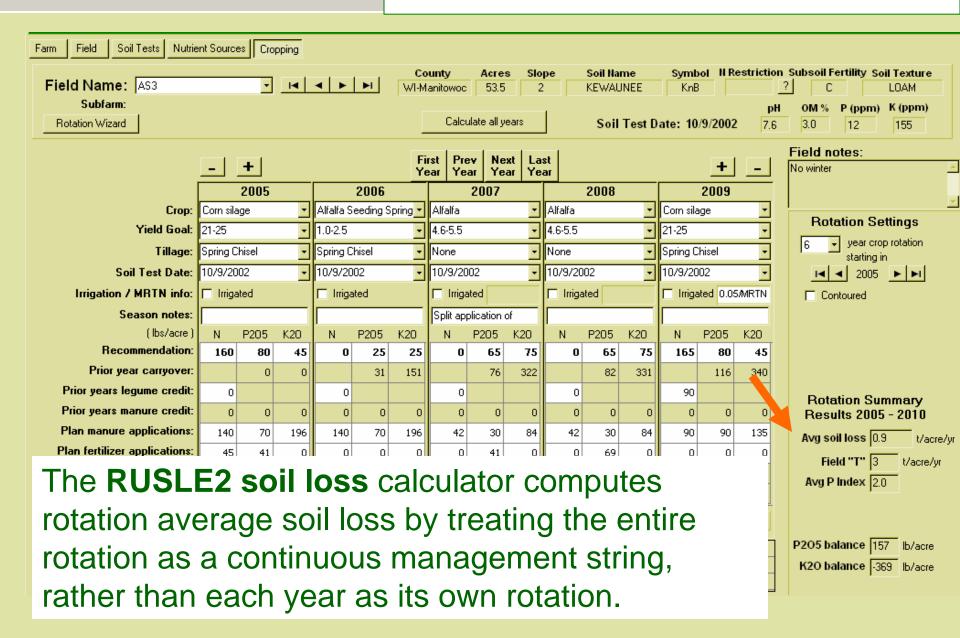
Nutrient Sources Cropping Animal-Applied Manure



sts | Nutrient Sources |

Cropping

RUSLE2 Soil Loss



- P Index takes a most-probable rather than "worst-case" approach to losses from unincorporated manure or fertilizer.
- No longer displays "Acute loss (unfrozen)" Pl.

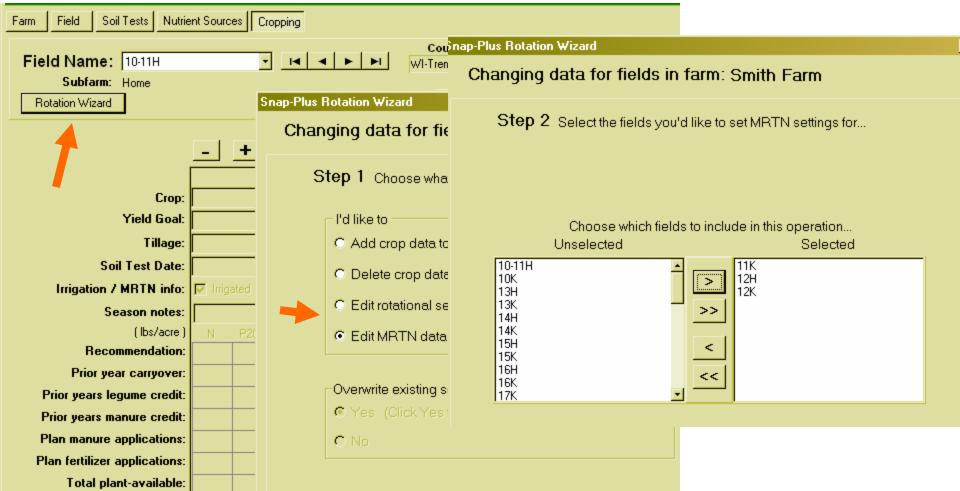
Acute Loss (frozen) PI is still in display.

	•		/										
Prior years legume credit:	o			0			0			0			
Prior years manure credit:	0	0	0	0	0	0	0	0	0	0	0		
Plan manure applications:	85	43	136	0	0	0	0	0	0	0	0		
Plan fertilizer applications:	49	14	29	0	0	0	0	0	124	0	0		
Total plant-available:	134	57	165	0	0	0	0	0	124	0	0		
Over(+)/Under(-) UW Rec:	14	57	165	0	0	0	0	0	124	0	0		
Annual Total PI ✓ Details		5.2			5.9			1.2		0.8			
Particulate PI:		4.7			5.5		0.8			0.5			
Soluble PI:		0.4			0.4			0.4		0.4			
A 1 1 (() D)									0.0				
Acute loss (frozen) PI:		0.0			0.0			0.0			U.U		



Rotation Wizard

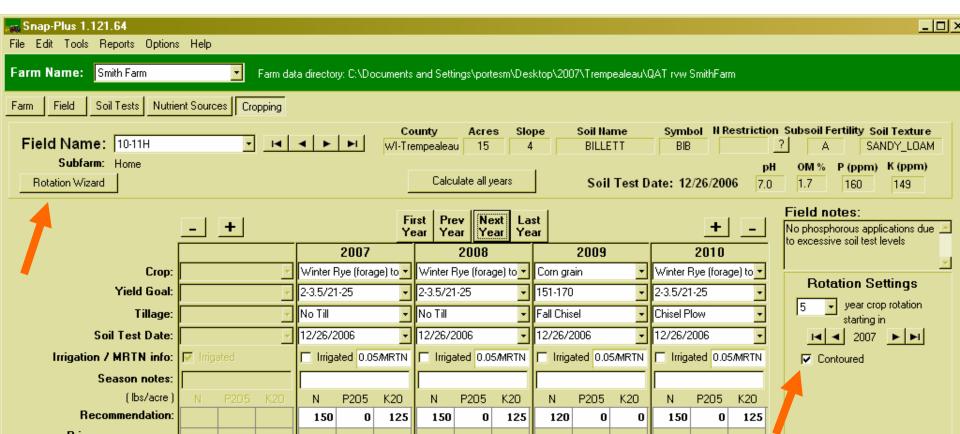
Rotation Wizard allows editing of rotation start year, rotation length, contour, and MRTN rate for multiple fields





Rotation Settings

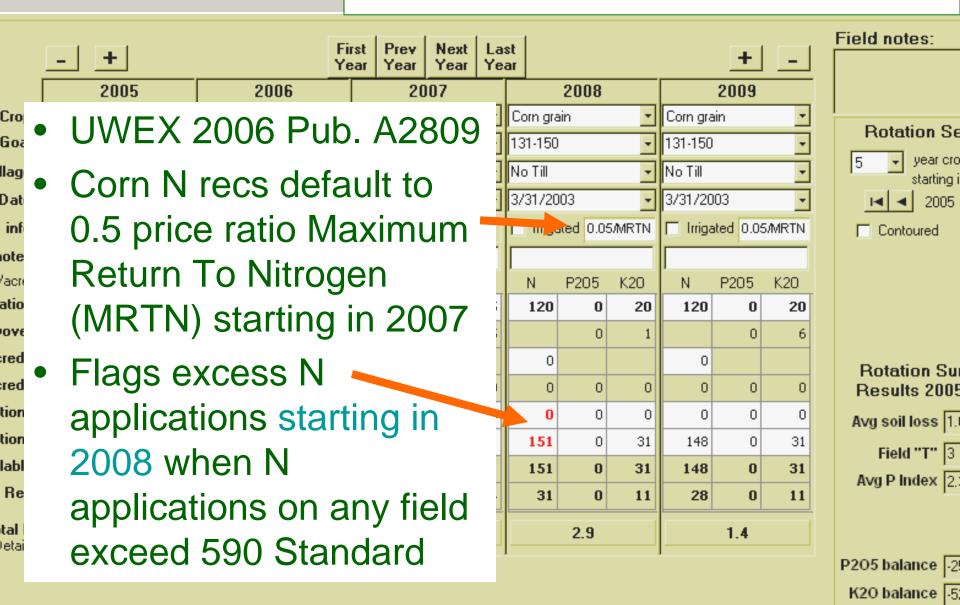
Field contouring can be set for rotation in the "Rotation Settings" box or in the "Rotation Wizard"



Nutrient Sources Cropping

N Recommendations

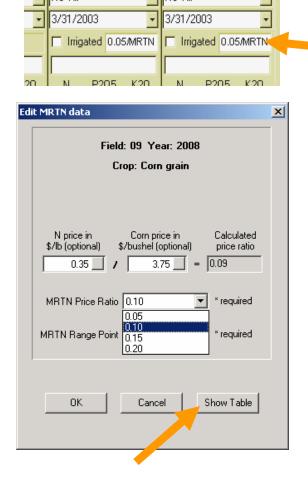
Soil test P is greater I so your P205 baland less than -71 lb/acre

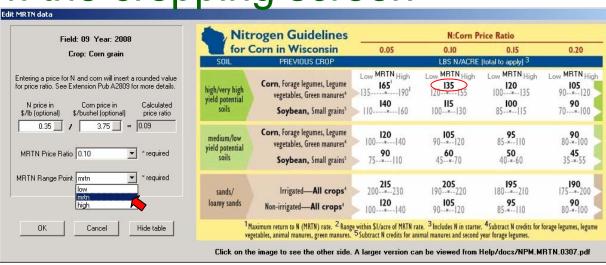


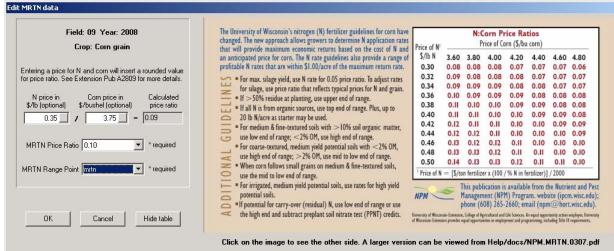
Nutrient Sources | Cropping

MRTN Settings

Change MRTN settings for individual fields and years from the cropping screen







Solutions to known problems are listed on Snap-Plus web site



Known Problems

- The manure or fertilizer applications row on the cropping screen blanks out after updating Snap-Plus.
- One or more messages saying "Follow 590 N-use guidelines for high-leaching potential soil..." remain in the "Field Notes" column after upgrading.
- I get an error saying "Can't close R2 profile for SnapPlus", or "Rusle2 exception".
- I get an "I/O error 103" message when I try to create a report or import a soil test.
- Sometimes my selected crops and counties disappear from the farm screen.
- . When I close the program I get a series of error dialogs

Vista users should keep farm data folders and reports files in "Documents"

