### **WI Nutrient Management 2009**

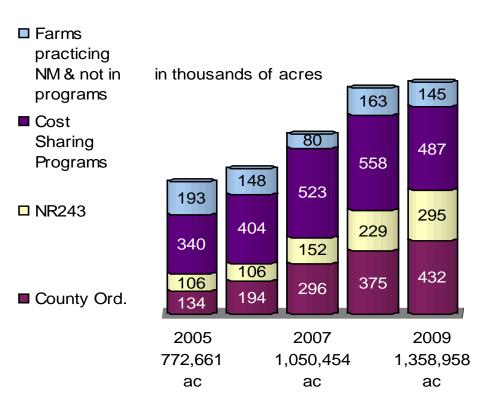


www.datcp.state.wi.us/arm/agriculture/land-water/conservation/nutrient-mngmt/planning.jsp

#### Nutrient Management - What's New?

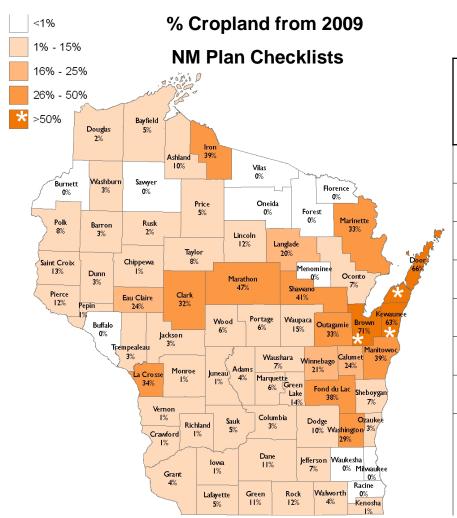
- 1.35 million acres NM plans reported in 2009 ~ same as last year
- 618 farmer wrote their own plans on 180K ac 213 more farmers than last year
- New Working Lands Initiative brings \$27M to participating WI farmers
- Prelim 2010 DATCP grants \$:
  - Very limited LCDs NM cost share - \$3.5 M lapse for 2010
  - Same as 2009 ~\$500K
     Implementation support:
     UW-Soils, UW-NPM, UW-Discovery Farms, MALWEG,
     Technical Colleges

#### 2005-2009 Nutrient Management Plan Acres



#### 2009 NM plans cover about 15% of WI cropland

Marathon NMP 136K ac, 27K ac increase from 2008 (47% of cropland)



These counties showed the greatest increase in NM acreage between 2008-09

	Increase of Cropland
County	(ac)
	with NM plans
Kewaunee	47,231
Fond du Lac	40,432
Dodge	32,831
Clark	31,606
Manitowoc	29,326
Marathon	27,408
Door	23,013

<sup>\*</sup> Polk, Eau Claire, La Crosse, Shawano, and Brown Counties increased NM plan acres any where from 10,000 to 20,000 acres.

NM Plan Checklists were submitted for 64 counties in 2009, 2 more than 2008 and 10 more counties since 2006.

## When Are Producers Required to Have a Nutrient Management Plan?

- When offered [70%] cost-share for NM
- When accepting manure storage cost-share
- When participating in farmland preservation or Working Lands Initiative
- When regulated under a county manure storage or livestock siting ordinance
- When regulated under a DNR WPDES permit
- Are required to prevent or mitigate imminent harm to waters of the state as an emergency or interim response to a grossly negligent pollution discharge

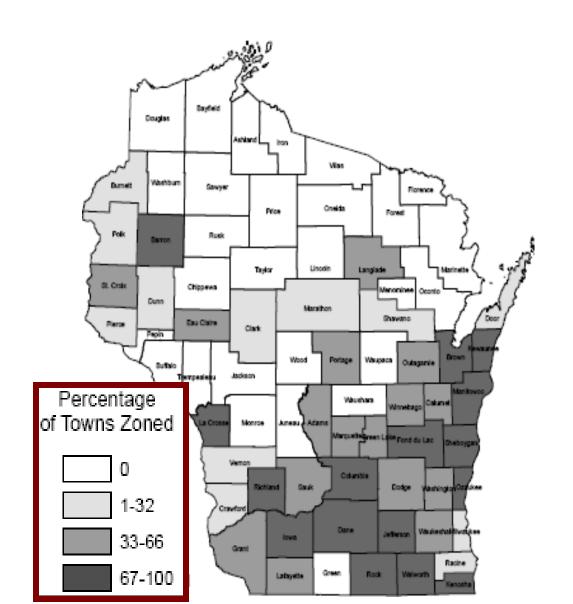
### Working Lands Initiative

Exclusive Agricultural Zoning 2006

Effective July 1, 2009

Expands the existing Farmland Preservation Program ~18,000 participants

Participants with 2004 agreements or later & Exclusive Ag Zoning participants **MUST** follow ATCP 50 and NR 151 performance stds, including NM



### Soil & Water Conservation

- Counties must monitor participant compliance every 4 years & be monitored by DATCP
- Requires landowner certification, probably using the NM Plan Checklist annually
- Persons under an existing FPP Agreement are subject to the standards in place when application submitted
- Persons collecting 2009 tax credits in 2010 will continue to be eligible for the new tax credits paid in 2011 based on meeting a soil & water schedule of compliance from the county conservation department.
- Persons not claiming 2009 tax credits paid in 2010 must be certified by the county as meeting the soil & water conservation standards to be eligible for the new tax credits paid in 2011.

## **Checking Compliance**

- Crop rotation meeting T with Dominant Critical Soil
- Follow UW soil test recs from a certified lab (5 ac samples for responsive fields)
- Manure allocation matching production for the rotation
- Winter/other spreading restrictions followed

#### **Tax Credits**

- Current FPP tax credits
  - Located in exclusive agricultural zoning district or Farmland preservation agreement
  - Agreement term = 10 to 25 years
  - Average credit \$650/yr ~\$3.30/acre
- New Working Lands Initiative tax credits
  - Increased value of credit (Available: 2010 tax year)
    - ➤ \$5.00/acre if farmland preservation agreement in Agricultural Enterprise Area AEA (15 year agreements) after July 1, 2009
    - \$7.50/acre if located in a Certified farmland preservation zoning district
    - > \$10.00/acre if agreement in AEA and zoning

### Agricultural Enterprise Areas

- Area devoted primarily to agricultural use <u>and</u> locally targeted for agricultural preservation
- FPP agreements after July 1, 2009 must be within an approved AEA Petitioners to DATCP from the municipality of at least 5 owners of eligible farms located in a contiguous area primarily in agricultural use, preference to areas of at least 1,000 acres
- State designates, amends or deletes through Administrative Rule, Public hearing, Legislative notice

## Grant Program - Purchase of Agricultural Conservation Easements

- Voluntary
- Protects agriculture
- Deed restriction
- Permanent

- \$12 million available to provide matching grants
  - 50% matching grants and pay transaction costs
- Establishes a Working Lands Trust Fund
  - Funds deposited here may be used for future purchases



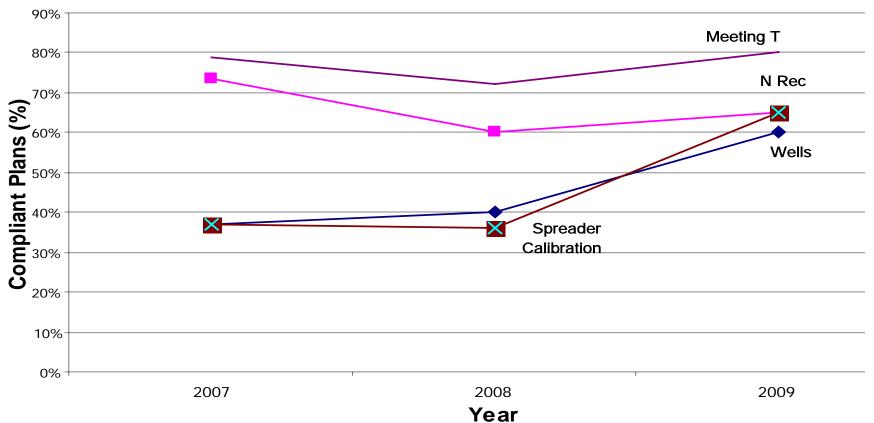
Web: http:workinglands.wi.gov



## 2009 NM Quality Assurance Plan Review

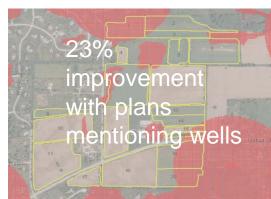
- 13 of 20 (65%) plans met the N rec.
   A 5% improvement over last year.
- 5 of 20 NM plans reviewed by the QAT didn't use Snap Plus (4 were farmer written plans)

#### **Improved NM Plan Components**

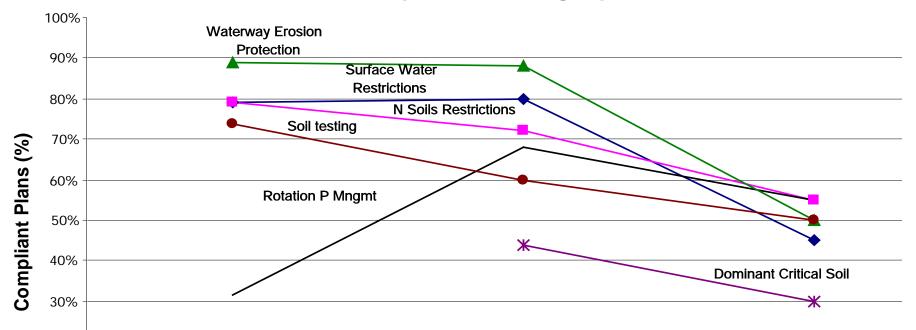




29% improvement in spreader calibration



#### **NM Plan Components Needing Improvement**



#### Dominant critical soil

the most erosive soil that covers 10% or more of the field. Usually determined by slope (A, B, C, D or E) and/or the soil map unit's "T" level. 6/20 plans used this soil type \ 14%

#### Soil Testing

responsive fields must be 1 sample/5ac. 10/20 plans followed 5 ac requirement \$\div 10\%

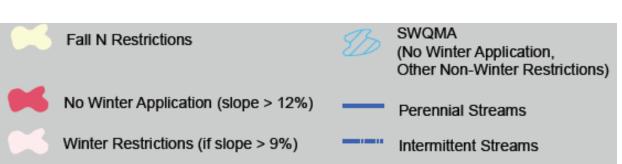
#### 2008 **Year**

Waterway
protection
mentioned in
10/20 plans ↓
38%

T and P management is for the whole rotation. Account for all the manure and P fertilizer. Amend plans annually with crops, applications, and management used. 11/20 plans included P management ↓ 13%

### Pastures

- Applications made by grazing animals can use the Snap Plus Grazing Calculator to explain & manage where all the manure is being applied.
- Include in NM plans:
  - Winter pastures near streams, and
  - pastures with any <u>mechanically applied</u>
     nutrients



## Maps need to have field boundaries & names & acres

## Note restrictions for each field in the plan

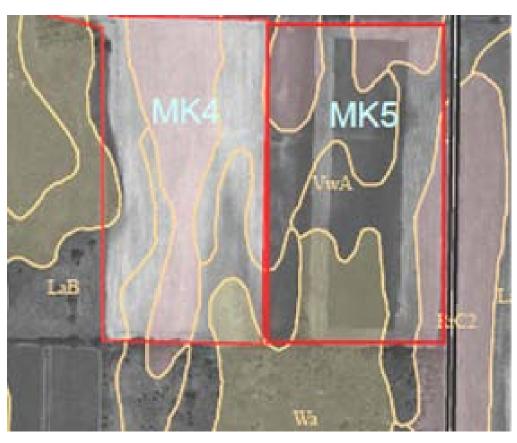
45%, 9/20 NMPs included SWQMA info ↓ 35%

55%, 11/20 included Fall N Restricted soils ↓ 17%

65%,13/20 explained winter restrictions \ 19%

80%, 16/20 properly applied in winter \$\\$48%

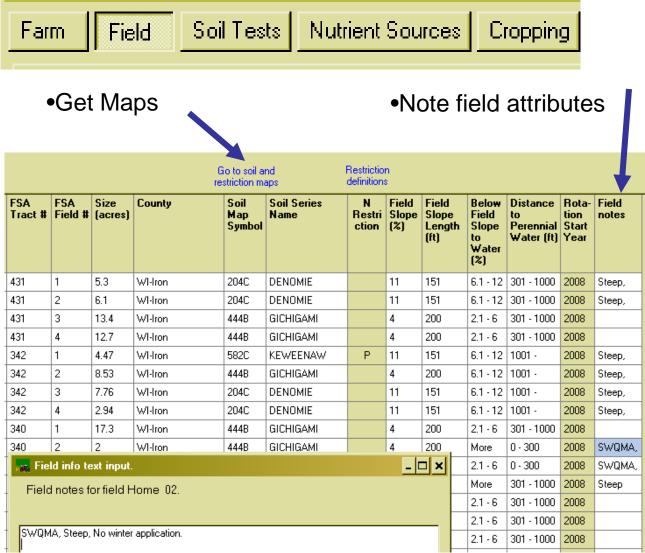
#### New Spreading Restrictions Maps for the 2009 Growing Season



## **Spreading Restrictions**

Place reminders of spreading restrictions in the *Field screen notes* or in the *Cropping Screen*.

This will show up on the Snap Plus Spreading plan & NM Plan Sorted by Crop Report to help follow 590.



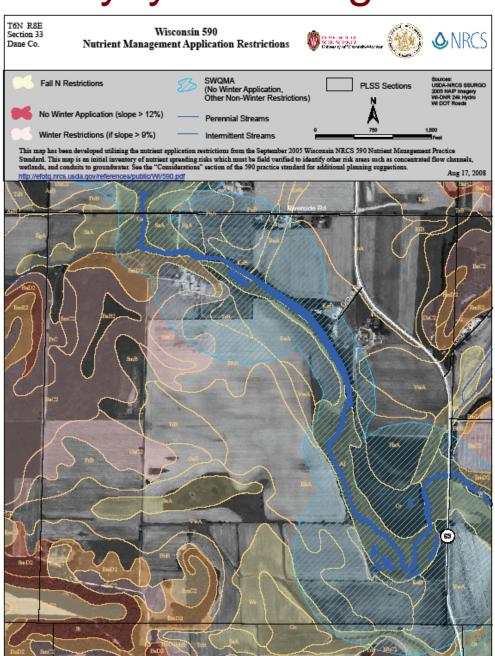
#### www.manureadvisorysystem.wi.gov

#### 590 GeoPDFs

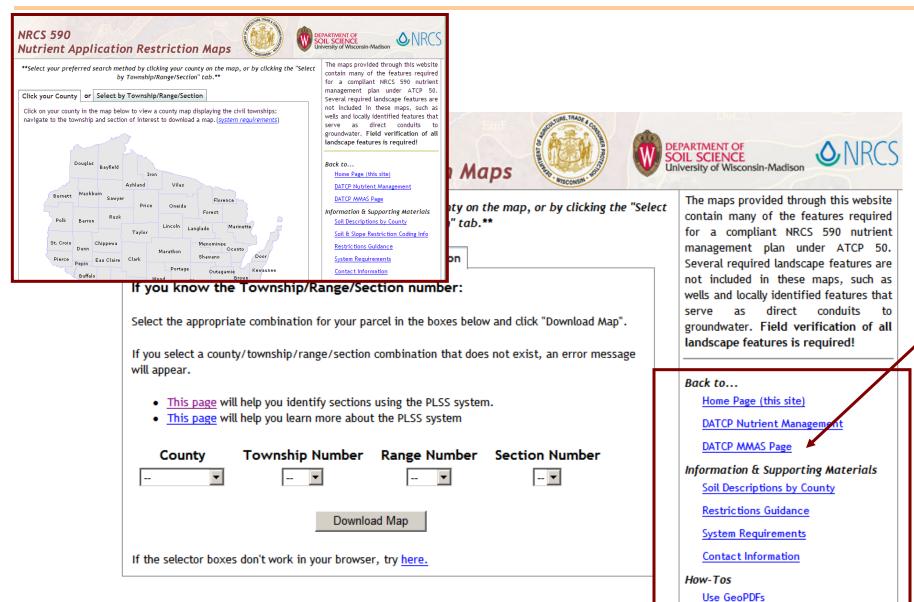
- "590" section level Spreading Restriction Maps Online
- Contain all 590 mapable restrictions and setbacks
- Editable
- GIS-like layers
- Consistent product

#### Spring 2010

- Incompatible Adobe Reader version fix
- 2008 imagery
- More readable soil map units
- Imported layers will print



## Choosing Your Map

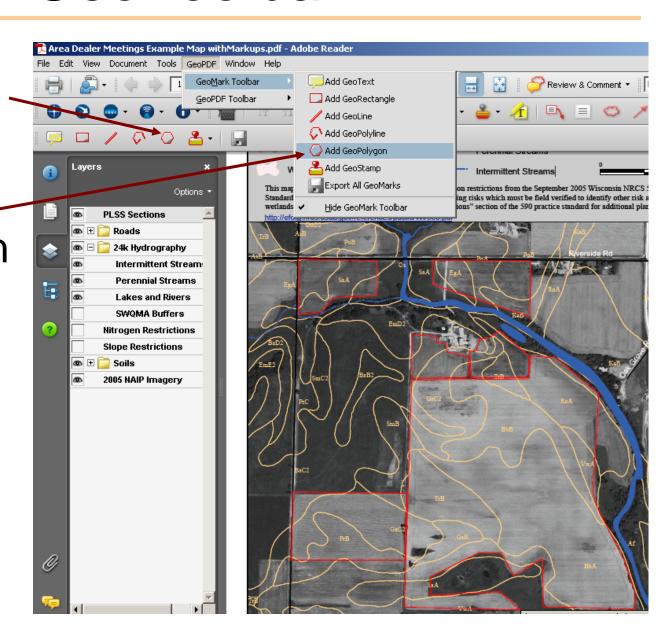


Identify PLSS sections

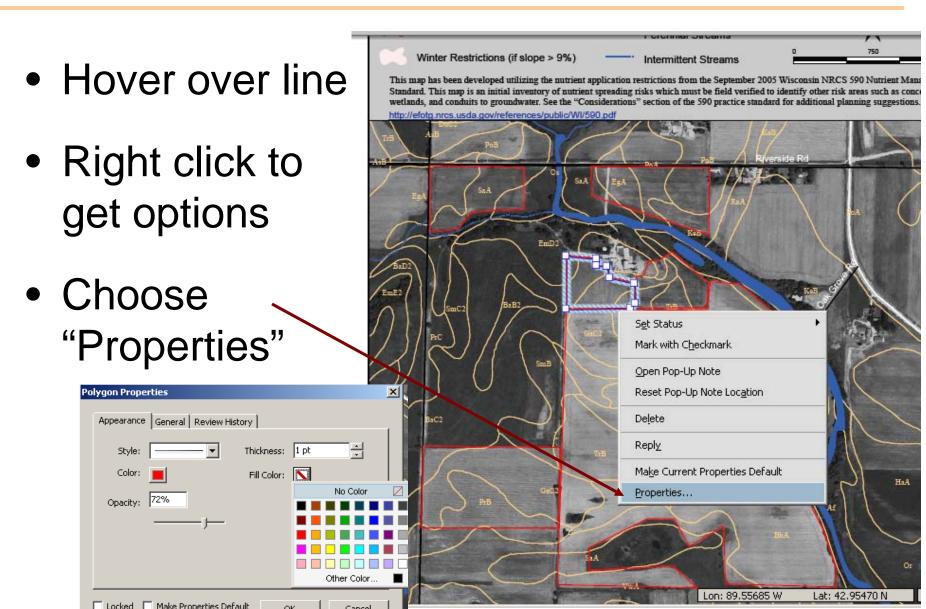
#### GeoToolbar

Draw Field
 Boundaries

GeoPolygon



## Change GeoPolygon Color



### Field Verify

Verify all restricted areas to ensure map accuracy & identify other risk areas such as concentrated flow channels, sinkholes, karst areas, wells!!

This is an evolving project and we want your input!

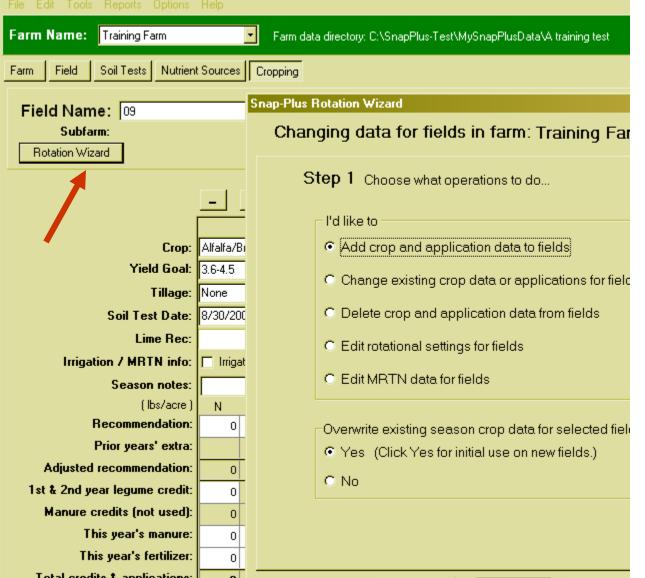
Questions and problems with the maps should be directed to:

Sara Walling, DATCP 608-224-4524

Sara.walling@wisconsin.gov

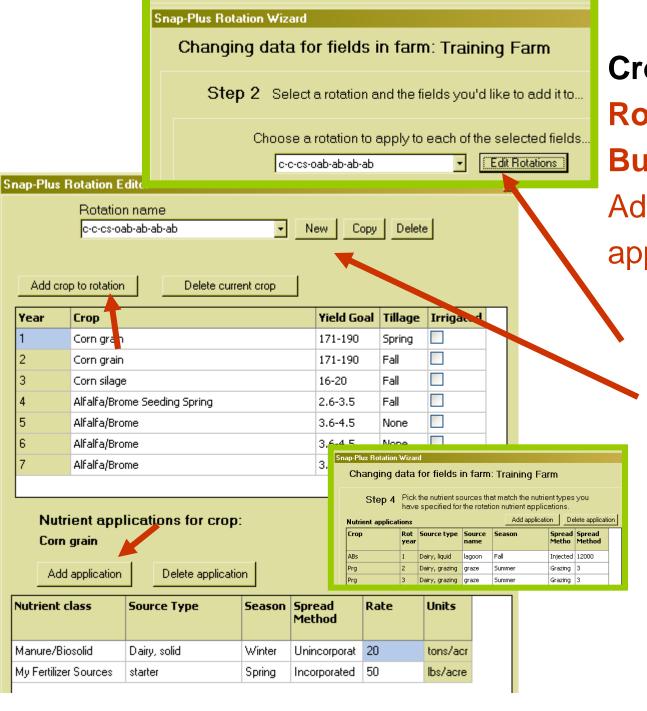
#### Snap Plus Plan Development & Updates

Use the Rotation Wizard to track manure & fertilizer application for multiple fields & years



# Cropping Screen Rotation Wizard Choose button

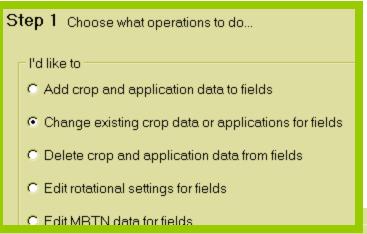
- Add crops & applications
- 2. Change crops or applications
- 3. Delete crops or applications
- 4. Edit rotational settings
- 5. Edit MRTN



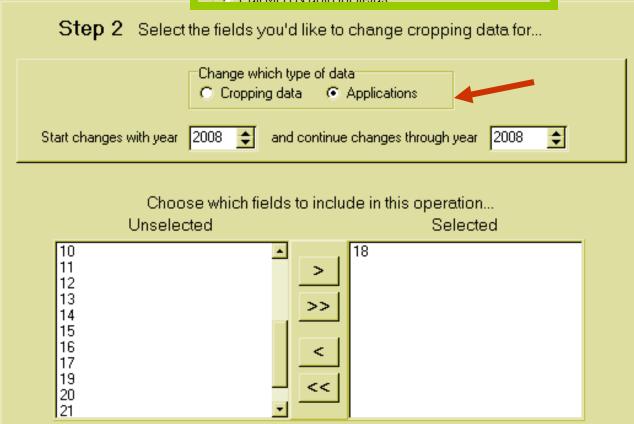
# Cropping Screen Rotation Wizard Button 1.

Add crops & applications

- 1. Edit Rotations
- 2. Select **New** to make rotation
- 3. Add crop to rotation
- 4. Add nutrient application(s) to the crop year & check apps in Step 4

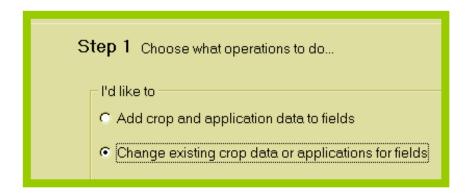


# Cropping Screen Rotation Wizard Button 2.

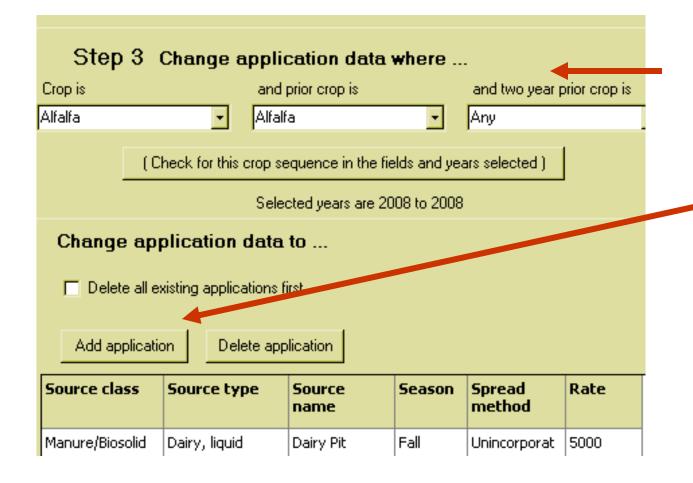


#### Select

- Cropping data or Applications
- 2. Date range
- 3. Fields

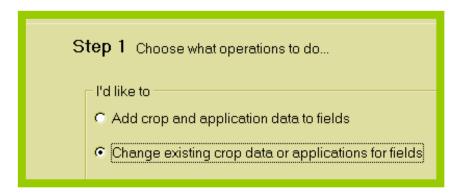


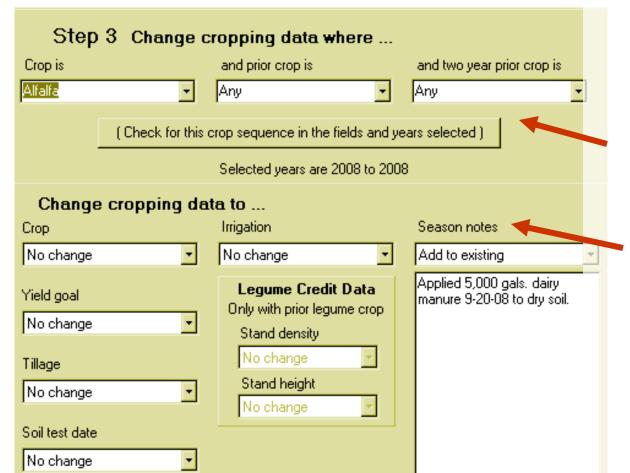
# **Cropping Screen Rotation Wizard Button 2.**



#### Select

- Current & previous crops
- 4. Delete/Add application source, season, method & rate

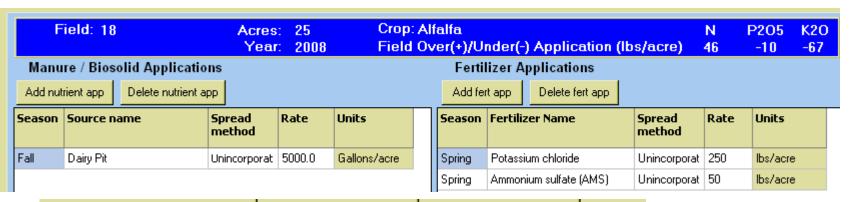


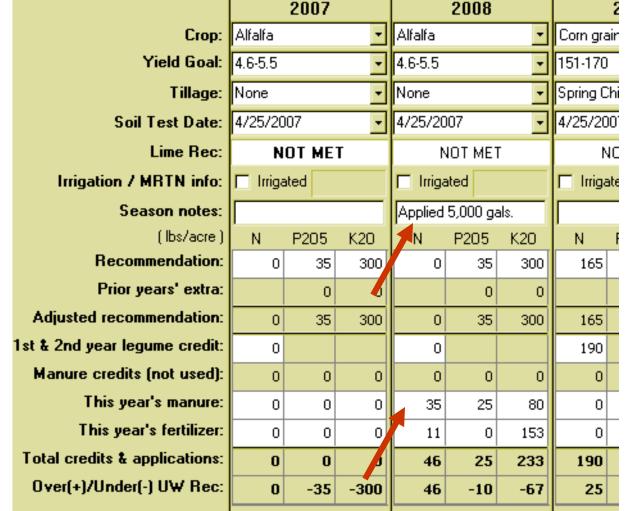


# Cropping Screen Rotation Wizard Button 2.

#### Select

- Cropping data or Applications
- 2. Date range
- 3. Fields
- 4. Current and previous crops
- 5. ChangeCrop, Yield Goal,Tillage, Soil Test Date,Irrigation, Legume Credit,Season Notes





## **Cropping Screen Rotation Wizard**

Changed
Application
&
Season
notes

## Summary

- Farmers writing more plans
- WLI will be a big work load in counties with zoning, better than cost sharing, less paper work
- Need to use Dominant Critical Soil to start planning to have correct soil loss and N recs

## Summary

- Spread all the manure & fertilizer each year of the rotation to have an accurate P assessment
- Use the new spreading restriction maps & identify other risk areas such as concentrated flow channels, sinkholes, karst areas, wells
- Use Snap Plus and the Rotation Wizard to make planning and updates quicker