

Pastures need to be part of the NM plan whether they are grazed during the grazing season, gleaned in the winter, or if nutrients are mechanically applied.

Soil testing requirements are in the 2015-590 NM Checklist item 1. b.

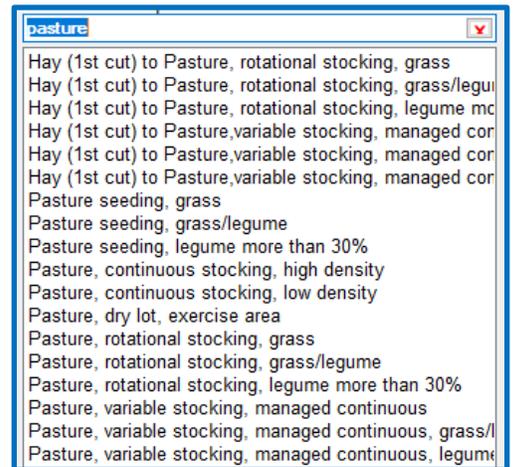
For fields or pastures with mechanical nutrient applications, determine field nutrient levels from soil samples collected within the last 4 years according to 590 Standard (590) and UWEX Pub. A2809, Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin (A2809) typically collecting 1 sample per 5 acres of 10 cores. **Soil tests are not required on pastures that do not receive mechanical applications of nutrients.** Instead of soil testing these pastures, assume soil test phosphorus level of 150 PPM and organic matter content of 6%.

Step 1. Pick the pasture crop options on the Farm screen to get the correct pasture plant mix and seeding option.

Step 2. Add a grazing source to the Nutrient sources screen.

Source Name	Nutrient Type	N surface	N incorp	N inject	P205	K2O	S	Dry matter %
Beef Grazing	Beef, grazing	4	0	0	3	7	0	12

Step 3. In the sub tab of the Nutrient sources screen, click on Grazing Herd Setup and enter the number of head for each size of animal you have.



Animal Type	Number of Animals	Daily Manure Production (lbs/animal)
1,400 lbs Beef Bulls	1	115
1,000 lbs Beef Cow	10	63
450 lbs Beef Calf	10	26
1,100 lbs Beef High Forage	10	92

Grazing application rate estimator
 Grazing Season: Grazing
 Use herd information to fill daily manure production
 Crop year: 2019
 Herd name: Grazers
 Total daily herd manure production: 0.96 tons/day
 Field/Pasture size: 1.0 acres
 Days on pasture: 5 days
 Percent of each day spent grazing: 100 %
 Estimated application rate: 4.8 tons/acre
 Average animal units per acre over grazing season: 0.6

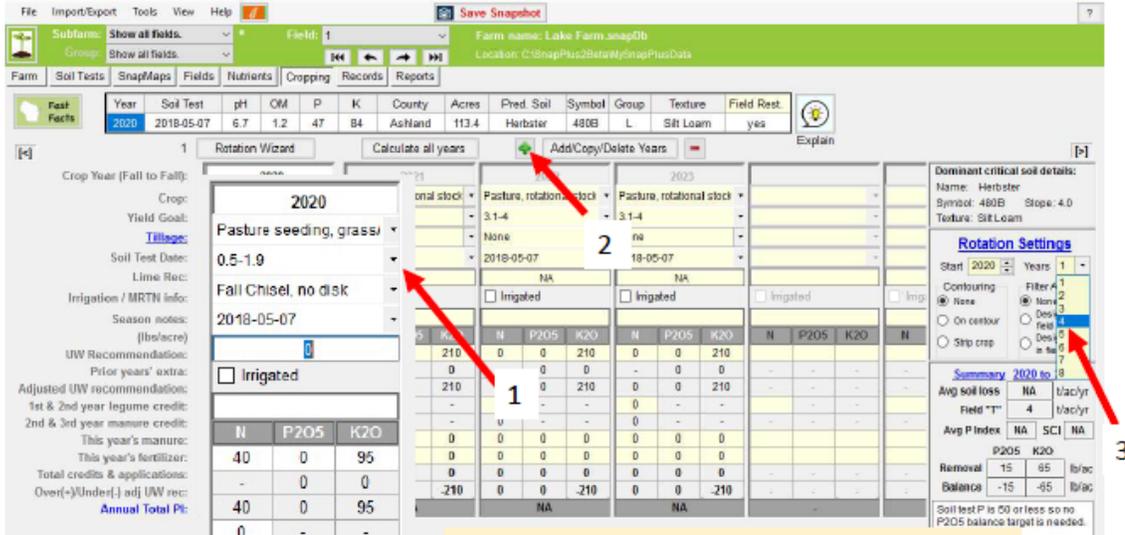
For all grazing operations we can estimate a rate per acre for the farm.

For example if you have 900 tons of manure being produced annually and you divide by the 90 acres of pasture you have, then you are aiming for 10 tons per acre as a rate. [900 tons manure ÷ 90 acre=10 tons/ac]

Step 4. To calculate how many days the herd needs to be on the pasture or in this case, how long on one acre to give us 5 or 10 tons/acre rate, use the **Grazing Est** button in the Nutrient screen or the Cropping screen's Nutrient Application Planner for the field. Adjust the days on pasture and the percent of each day spent grazing to determine the tons/acre rate.

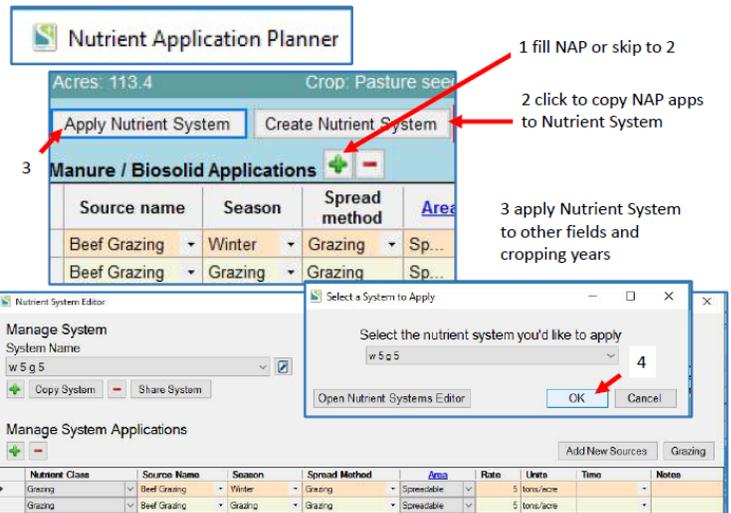
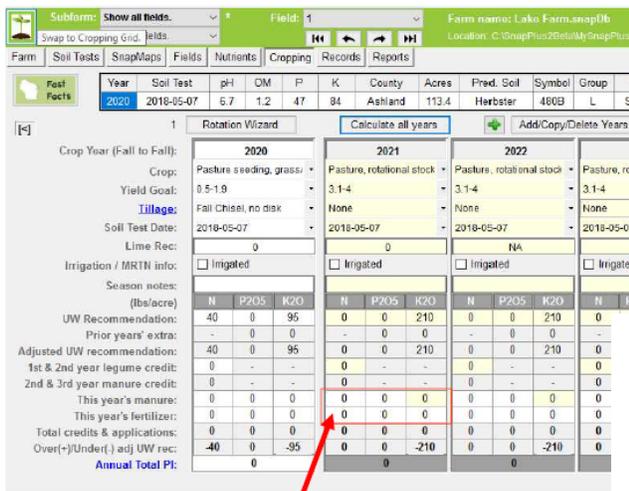
Step 5. Add grazing applications to fields from the Cropping screen, Nutrient System, or use the Rotation Wizard found in the Tools menu or the Cropping screen.

Click and fill the Cropping screen

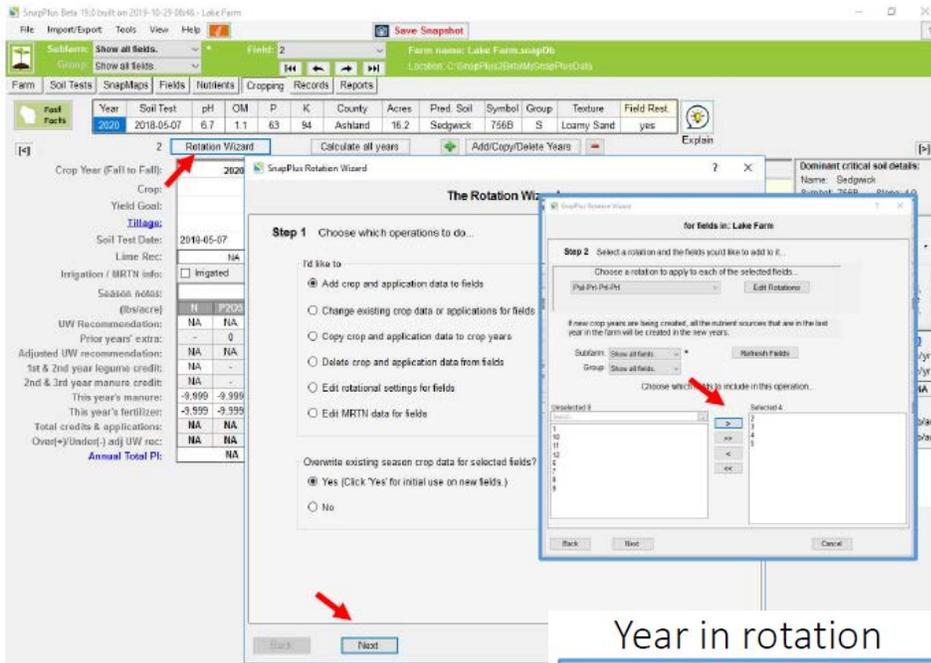
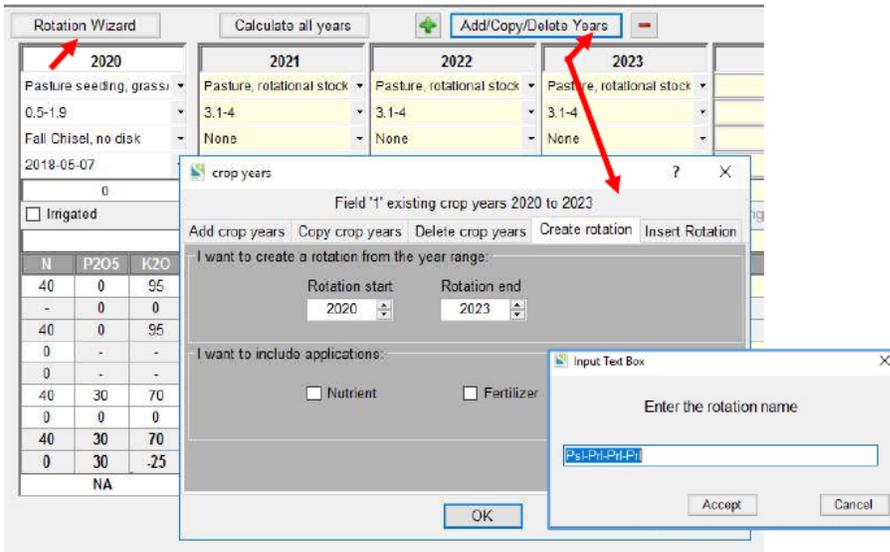


Click on the given crop year and add crop, yield, and tillage. Add more crop years. Add years of rotation up to 8 years.

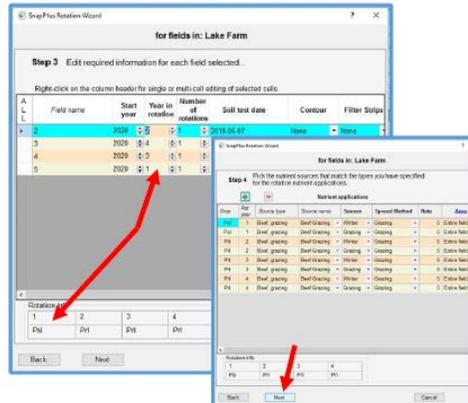
Add Crops and Applications by clicking in these rows



Create/copy crop rotations with either



Year in rotation



Run NM Plan Reports

The screenshot displays the SnapPlus2 software interface with the 'Bulk Reports' window open. The window is titled 'Bulk Reports' and contains the following sections:

- Choose your dates:** Start Year: 2020, End Year: 2022, Plan Year: 2021. A note states: "All reports that require just one year or that drill into an additional year will use this year."
- Report-Specific Parameters:**
 - Compliance Check:** 590 Soil Test P or PI. Radio buttons for PI, Soil Test P, and Both (selected).
 - Field Data and 590 Assessment:** Include field notes.
 - Soil Test Summary:**
 - Short version
 - Most recent only
 - Include samples
 - Include year soil test is ne

A dialog box titled 'Bulk report processing completed' is overlaid on the bottom right, with the message: "Bulk report processing completed. You'll find your reports at C:\SnapPlus2Beta\Reports\BulkReports (2019-10-30_14-11-31)". An 'OK' button is visible at the bottom right of the dialog.

Step 6. Run reports to check compliance and to list applications for the past year, coming crop year, and the next crop year. If you click Bulk reports and 590 Compliance Defaults, all the reports you will need will be generated and stored in C:\SnapPlus2\Reports\. Be sure to look at NM2 and NM8 to direct you to any compliance issues. If compliance issues need to be fixed and can't be, note in the narrative when the issue will be addressed.