



NuMan Pro 5.0: Making adjustments in the Recommendations page

Introduction In *NuMan Pro*, you can view and fine-tune all fertilizer and/or organic material recommendations on a field-by-field basis on the “Recommendations” page. The program will also alert you if any scenarios you entered will apply excess nitrogen to the crop so that you can make adjustments. As a reminder, Maryland state regulations require that all nutrients be applied according to University of Maryland Extension (UME) guidelines.

Contents In this document, you will find instructions for:

- [Fine-tuning recommendations](#)
- [Linking multiple crops per growing season \(versus alternate crop scenarios\)](#)
- [Fixing nitrogen excesses when the “Recommendations” page is flagged](#)

Fine-tuning recs **Instructions** An organic recommendation may be fine-tuned for crops such as small grains that agronomically require split applications of organic nutrients. These crops will automatically produce recommendations with more than one application for a single organic material, split according to the crop's nitrogen requirements, regardless of only adding one application on the “Scenarios” page.

Step	Action
1	<p>Choose the field you wish to fine-tune on the Navigation Bar, then click on the “Rec” tab in the Nutrient Management work area.</p>

2

In upper portion of the **Recommendations Grid**, the header cells will include the names of each split application.

Header cells

Organics	N	P2O5	K2O	Amount	Units	#	Incorp
tpdrs-greenup	36	50	115	8.0	tons/A	1	No Till
tpdrs-Feekes5-6	36	50	115	8.0	tons/A	1	No Till
Total Organics				72	99	230	Mg
Total Fertilizer				8	46		
tpdrs@ green-up	4	46					
tpdrs @ Feekes 5	4						

Click on the header cell to the left of the split in question to remove it from the recommendation. The header cell will change color to show an adjustment has been made.

Organics	N	P2O5	K2O	Amount	Units	#	Incorp
tpdrs-greenup	36	50	115	8.0	tons/A	1	No Till
Total Organics				36	50	115	
Total Fertilizer				44	95		
tpdrs@ green-up	4	95					
tpdrs @ Feekes 5	40						

In this example, the "tpdrs-Feekes5-6" application was removed.

Once the split is removed, a fertilizer equivalent will be displayed in the lower fertilizer portion of the **Recommendations Grid** in the line with its associated application method. Notice that the "Total Fertilizer" has changed between the two screens above.

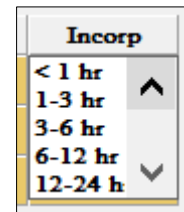
3

If you'd like to restore the organic application, click again on the corresponding header cell to bring it back.

4

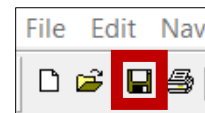
If the field is under conventional or conservation tillage, and you haven't adjusted the time to incorporation (**Incorp**) for the organic material, this is another chance to do so.

Click on the drop-down menu under **Incorp** to choose when the material will be incorporated. This will adjust the nitrogen recommendations automatically.



5

Remember to save your work! There is **no autosave feature** in *NuMan Pro*.



Linking multiple crops per growing season (versus alternate crop scenarios)

Instructions

NuMan Pro can be used to generate recommendations for single or multiple crops in a field (multi-cropping), but it can also be used to generate recommendations for alternate crops if a client does not yet know what will be grown in a field. In order to distinguish between multi-cropped and alternate crop recommendations, you need to link the multi-crops in the “Recs” page. This is critically important on fields where P Risk Assessments are required and manure is applied to more than one crop per year. This action will add the P contribution from all manure applications during the year and then reports it in the PMT module.

Step	Action																																																				
1	Make sure you have entered all crops that will be grown in the field in the “Scenarios” page.																																																				
2	Click on the “Recommendations” tab. <div data-bbox="548 823 1424 953" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">Nutrient Management</p> <div style="display: flex; justify-content: space-between; align-items: center; border: 1px solid gray; padding: 2px;"> ✓ Farmer & Cons ✓ Field ✓ Rec ✓ History </div> </div>																																																				
3	<p>Now you must link your crops so that <i>NuMan Pro</i> knows that all are to be grown in the same season.</p> <ul style="list-style-type: none"> In the Scenario List, you will see that the column headings are M, #, Crop, and Org. <div data-bbox="565 1167 1396 1446" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">Nutrient Management</p> <div style="display: flex; justify-content: space-between; align-items: center; border: 1px solid gray; padding: 2px;"> ✓ Farmer & Cons ✓ Field ✓ Soil ✓ Scen ✓ Rec ✓ History </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="background-color: #f0f0f0;"></th> <th style="background-color: #f0f0f0;">N</th> <th style="background-color: #f0f0f0;">P2O5</th> <th style="background-color: #f0f0f0;">K2O</th> <th style="background-color: #f0f0f0;">M</th> <th style="background-color: #f0f0f0;">#</th> <th style="background-color: #f0f0f0;">Crop</th> <th style="background-color: #f0f0f0;">Org</th> </tr> </thead> <tbody> <tr> <td style="background-color: #f0f0f0;">Crop needs</td> <td>80</td> <td>73</td> <td>33</td> <td></td> <td>163</td> <td>Peas</td> <td>1- 1</td> </tr> <tr> <td style="background-color: #f0f0f0;">Legume credit</td> <td>15</td> <td></td> <td></td> <td></td> <td>187</td> <td>Corn, sweet; fresh market</td> <td>1- 1</td> </tr> <tr> <td style="background-color: #f0f0f0;">Manure credit</td> <td>20</td> <td colspan="2" style="text-align: center;">lb/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="background-color: #f0f0f0;">Sludge credit</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <ul style="list-style-type: none"> In the M column, right click next to each crop so that an “M” appears. <div data-bbox="820 1467 1408 1730" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #f0f0f0;">M</th> <th style="background-color: #f0f0f0;">#</th> <th style="background-color: #f0f0f0;">Crop</th> <th style="background-color: #f0f0f0;">Org</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid red;">M</td> <td>163</td> <td>Peas</td> <td>1- 1</td> </tr> <tr> <td style="border: 1px solid red;">M</td> <td>187</td> <td>Corn, sweet; fresh market</td> <td>1- 1</td> </tr> </tbody> </table> <div style="border: 1px solid gray; padding: 5px; display: inline-block; margin-top: 5px;"> <p style="color: red; font-weight: bold; margin: 0;">Right click to get the “M”</p> </div> </div> 		N	P2O5	K2O	M	#	Crop	Org	Crop needs	80	73	33		163	Peas	1- 1	Legume credit	15				187	Corn, sweet; fresh market	1- 1	Manure credit	20	lb/A						Sludge credit	0							M	#	Crop	Org	M	163	Peas	1- 1	M	187	Corn, sweet; fresh market	1- 1
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Fixing nitrogen excesses when the “Recs” page is flagged

Instructions

A scenario containing a nitrogen excess from applied organic materials will be flagged and will not print because it is outside the scope of UME nutrient recommendations. It is the planner’s responsibility to adjust the scenario to eliminate the nitrogen excess and this type of adjustment can be made in a variety of places on the “Recommendations” page.

**Note: Depending on where the adjustment is made, the adjustment may affect other scenarios for the same field and may change choices made on the “Scen” page.

Step	Action																																																				
1	<p><i>NuMan Pro</i> will alert you of nitrogen excesses in your plan in several ways:</p> <ul style="list-style-type: none"> A red X will appear on the “Recommendations” tab <div data-bbox="548 831 1422 911" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> </div> <ul style="list-style-type: none"> A question mark will appear next to the crop in the Scenario List <div data-bbox="964 949 1416 1075" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table border="1"> <thead> <tr> <th></th> <th>M</th> <th>#</th> <th>Crop</th> <th>Org</th> </tr> </thead> <tbody> <tr> <td>?</td> <td></td> <td>25</td> <td>Wheat</td> <td>1-1</td> </tr> </tbody> </table> </div> <ul style="list-style-type: none"> If the organic nitrogen application exceeds the crop recommendation (or split recommendation), the background color of the cell containing the excess nitrogen amount will turn red <div data-bbox="548 1306 1042 1629" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table border="1"> <thead> <tr> <th>Organics</th> <th>N</th> <th>P2O5</th> <th>K2O</th> <th>Amount</th> <th>Un</th> </tr> </thead> <tbody> <tr> <td>tpdrs-greenup</td> <td style="background-color: red;">36</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>tpdrs-Feekes5-6</td> <td style="background-color: red;">36</td> <td>50</td> <td>115</td> <td>8.0</td> <td>ton</td> </tr> <tr> <td>Total Organics</td> <td>72</td> <td>99</td> <td>230</td> <td>Mg</td> <td></td> </tr> <tr> <td>Total Fertilizer</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>tpdrs@ green-up</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>tpdrs @ Feekes 5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div data-bbox="1052 1327 1409 1642" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>In this example, wheat requires a split application of 60 lbs/A of nitrogen, or 30 lbs/A each split. The manure supplies 36 lbs/A per split, which is excessive and thus highlighted in red.</p> </div> <ul style="list-style-type: none"> A Warning Message may appear on the page below the Lock check box if the total nitrogen recommendations are exceeded <div data-bbox="1130 1663 1409 1843" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="color: red; font-weight: bold;">Organic nitrogen exceeds crop's need. Reduce application rate.</p> </div>		M	#	Crop	Org	?		25	Wheat	1-1	Organics	N	P2O5	K2O	Amount	Un	tpdrs-greenup	36					tpdrs-Feekes5-6	36	50	115	8.0	ton	Total Organics	72	99	230	Mg		Total Fertilizer						tpdrs@ green-up						tpdrs @ Feekes 5					
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2

Make any or all of the following adjustments to eliminate the nitrogen excess:

- A. Adjust split applications of organic materials
 - See the instructions for "[Fine-tuning Recommendations](#)" in this document
- B. Change the basis of recommendations for organic materials
 - In the **Crop Needs Grid**, click on any of the column headings to change the recommendations basis.


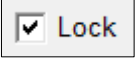
	N	P2O5	K2O	M	#	Crop	Org	
Crop needs	60	96	52	?	25	Wheat	1-1	
Legume credit	0	lb/A						
Manure credit	0							
Sludge credit	0							
<input type="checkbox"/> High C/N winter cover crop								
Organics	N	P2O5	K2O	Amount	Units	#	Incorp	
tpdrs-greenup	36	50	115	8.0	tons/A	1	No Till	
tpdrs-Feekes5-6	36	50	115	8.0	tons/A	1	No Till	

For example, to go from a pre-set rate (which is shown above) to a nitrogen based recommendation, click on **N**.

	N	P2O5	K2O	M	#	Crop	Org	
Crop needs	60	96	52		25	Wheat	1-1	
Legume credit	0	lb/A						
Manure credit	0							
Sludge credit	0							
<input type="checkbox"/> High C/N winter cover crop								
Organics	N	P2O5	K2O	Amount	Units	#	Incorp	
tpdrs-greenup	30	42	97	6.7	tons/A	1	No Till	
tpdrs-Feekes5-6	30	42	97	6.7	tons/A	1	No Till	

You will see that the **Amount** of the organic material that can be applied has changed and that the **N** rate in the organics section of the **Recommendations Grid** is no longer highlighted in red.

It is the planner's responsibility to know if the application rate (or **Amount) is below the limitations of current organic material spreading technology and adjust accordingly.

<p>3</p>	<p>Once sufficient adjustments are made, the red X on the “Recommendations” tab will turn back to a green check mark.</p> 
<p>4</p>	<p>When all the recommendations for a field need no further adjustment, click the small box marked Lock at the center right of the page.</p>  <p>The lock will prevent additional changes to the recommendations for this field and retain existing adjustments for printing.</p>
<p>5</p>	<p>Remember to save your work! There is no autosave feature in <i>NuMan Pro</i>.</p> 