

## How to Complete Create Farm Crop List

### Purpose and Overview:

This procedure describes how to complete the Farm Crop List Input sheet for a Nutrient Management Plan (NMP). All crops grown on the farm for are selected here. The crops listed in this table are from the Penn State Agricultural Analytical Services Laboratory (AASL) soil test recommendations for agronomic crops database.

Begin in the first row of yellow shaded cells by selecting the Crop Group from the drop-down list in the Crop Group column. Next select the crop from the Crop Name column. Repeat the process in the next blank yellow row until all crops grown on the farm are selected. The selected crops will be listed in the Crop drop-down box in Appendix 4 Input. To add crops not listed go to the Crop List Options tab and enter the required crop information. Return to the Create Farm Crop List tab and select "User Entered Crops" for the Crop Group. The added crop will be available for selection in the Crop Name column.

To clear a row – Select the Crop Group cell next to the crop to be removed and press the delete key or use the clear contents command. This will clear all information selected in that row. To clear the entire table select all the Crop Group input cells that are populated and press the delete key.

This particular worksheet requires data entry so it has a yellow colored sheet tab in the NMP workbook.

You can find the Create Farm Crop List tab by looking for the hyper link in the NMP Spreadsheet Index

	A	B	C	D	E	F	G	H	I
1	<b>NMP Spreadsheet Index</b>								
2	NMP Version 6.2 2018-04(2007-2016 Excel)								
3	<a href="#">NMP Instructions</a>								
4	<a href="#">Contacts for Additional Information</a>								
5	<a href="#">Input: Farm Specific Animal List</a>								
6	<a href="#">Input: Manure Group Information Input Sheet</a>								
7	<a href="#">Input: Manure Analysis Average</a>								
8	<a href="#">Input: Farm Crop List</a>								
9	<a href="#">Input: Appendix 4 Crop and Manure Management, P Index, Winter Matrix</a>								
10	<a href="#">NMP Summary</a>								
	NMP Index								

Or just scroll through the tabs until you find it. The tab in the NMP Spreadsheet that looks like this:



# How to Complete Create Farm Crop List

## 1. Layout and Use of the Create Farm Crop List Tab

### 1.1. Layout of the worksheet and overview

The screenshot shows a worksheet titled "Farm Crop List" with columns B through E. Column B is "Crop Group", C is "Crop Name", D is "Penn State AASL Yield Range", and E is "Penn State AASL Crop Code". The rows from 9 to 23 are shaded yellow. A red box highlights the first row of the yellow area, with arrows pointing to the "Crop Group" and "Crop Name" columns. A text box below this row says "Select the Crop Group then the Crop Name in a row." Another text box below the "Crop Name" column says "After the crop is selected the yield range and Penn State AASL crop code will be populated." To the right of the worksheet, there are instructions: "Instructions - Use this sheet to... in the first row of yellow shaded cell... drop-down list in the Crop Group column. Repeat the process in the... on the farm are selected. The selection box in Appendix 4 Input. To... Options tab and enter the required... Farm Crop List tab and select 'Use... crop will be available for selection in... To clear a row - Select the Crop... and press the delete key or use the... all information selected in that row... Crop Group input cells that are pop... Below the instructions are three links: "Go to NMP Index", "Go to Crop List Options Tab", and "Go to App 4 Input Tab". At the bottom left, there is a yellow box labeled "Farm Crop List".

### 1.2. Selecting the Crop Group

The screenshot shows the "Farm Crop List" worksheet with the "Crop Group" dropdown menu open. The dropdown list includes: "Alfalfa Group", "Alfalfa Group with Manure", "Legume Group", "Legume Group with Manure", "Corn - Sorghum - Millet Group", "Grain Group", "Grass Group", and "Conservation Reserve Program Group". The "Crop Group" column is highlighted in yellow. At the bottom left, there is a yellow box labeled "Farm Crop List".

Select the crop group from the drop-down list. Most crop groups are the same as those listed on a Penn State AASL form. There are two additional groups, "Alfalfa Group with Manure" and "Legume Group with Manure" are used when manure will be applied to a legume crop.

Any crop not listed can be added in the Crop List Options tab then select "User Entered" as the Crop Group. The newly added crop will be available for selection. Additional directions for this option are found below in section 1.7. Legumes with manure would need to be selected when applying manure to a legume. This will assign a nitrogen removal rate for the legume with manure.

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Below is the list of Crop Groups from the AASL Sample Submission Form for Agronomic Crops.

### CODE GUIDE FOR AGRONOMIC CROPS

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LOCATE CROP NAME BELOW

Write code number (4 digits) into "Crop Code" Blocks on Opposite side of the page. Note the Acceptable Yield Range for each Crop

CROP CODE	CROP NAME	YIELD RANGE	CROP CODE	CROP NAME	YIELD RANGE
<b>ALFALFA GROUP</b>			<b>CORN, SORGHUM &amp; MILLET GROUP</b>		
1020	Planting Alfalfa	2-6 Ton/A	1042	Corn for Grain	110-270 Bu/A
1023	Planting Alfalfa (no-till)	2-6 Ton/A	1044	Corn for Grain (no-till)	110-270 Bu/A
1035	Planting Alfalfa in Oats	2-6 Ton/A	1043	Corn for Silage	17-38 Ton/A
1032	Planting Alfalfa in Wheat	2-6 Ton/A	1045	Corn for Silage (no-till)	17-38 Ton/A
1022	Planting Alfalfa-Trefoil	2-6 Ton/A	1057	Sorghum for Grain	90-170 Bu/A
1021	Planting Alfalfa-Grass	2-6 Ton/A	1063	Sorghum for Forage	15-31 Ton/A
1001	Established Alfalfa	4-8 Ton/A	1048	Millet for Grain	30-70 Bu/A
1072	Established Alfalfa-Grass	4-8 Ton/A	1049	Millet for Forage	2-6 Ton/A
<b>LEGUME GROUP</b>			<b>GRASS GROUP</b>		
1030	Planting Crownvetch	2.5-4 Ton/A	1038	Planting Bluegrass	1-2 Ton/A
1031	Planting Crownvetch (no till)	2.5-4 Ton/A	1039	Planting Bromegrass	1-5 Ton/A
1029	Planting Ladino Clover	2-4 Ton/A	1062	Planting Mixed Grasses	1-5 Ton/A
1027	Planting Red Clover	2-4 Ton/A	1040	Planting Orchardgrass	1-5 Ton/A
1028	Planting Red Clover (no-till)	2-4 Ton/A	1085	Planting Reed Canarygrass	1-5 Ton/A
1037	Planting Red Clover in Oats	2-4 Ton/A	1041	Planting Timothy	1-5 Ton/A
1034	Planting Red Clover in Wheat	2-4 Ton/A	1075	Planting Tall Fescue	1-5 Ton/A
1073	Planting Red Clover-Grass	2-4 Ton/A	1077	Planting Warm Season Grasses	1-4 Ton/A
1024	Planting Trefoil	1-3 Ton/A	1010	Established Bluegrass	1-4 Ton/A
1026	Planting Trefoil (no-till)	1-3 Ton/A	1016	Established Bromegrass	3-7 Ton/A
1036	Planting Trefoil in Oats	1-3 Ton/A	1019	Established Mixed Grasses	3-7 Ton/A
1033	Planting Trefoil in Wheat	1-3 Ton/A	1017	Established Orchardgrass	3-7 Ton/A
1025	Planting Trefoil-Grass	2-4 Ton/A	1086	Established Reed Canarygrass	3-7 Ton/A
1011	Established Crownvetch	2.5-4 Ton/A	1018	Established Timothy	3-7 Ton/A
1014	Established Ladino Clover	2-6 Ton/A	1076	Established Tall Fescue	3-7 Ton/A
1015	Established Red Clover	2-6 Ton/A	1078	Established Warm Season Grasses	3-7 Ton/A
1074	Established Red Clover-Grass	2-6 Ton/A	1066	Sudangrass	1-5 Ton/A
1005	Established Trefoil	2-6 Ton/A	1067	Sorghum-Sudangrass	15-27 Ton/A
1006	Established Trefoil-Grass	2-6 Ton/A	1080	Renovating Pasture (with legume)	2-4 Ton/A
<b>GRAIN GROUP</b>			<b>CONSERVATION RESERVE PROGRAM</b>		
1068	Spring Barley	60-100 Bu/A	1081	Established Pasture (without legume)	2-4 Ton/A
1060	Winter Barley	50-130 Bu/A	1082	Established Pasture (with legume)	2-4 Ton/A
1069	Buckwheat	30-70 Bu/A	1083	Planting Pasture (without legume)	2-4 Ton/A
1059	Oats	60-120 Bu/A	1084	Planting Pasture (with legume)	2-4 Ton/A
1061	Rye	50-90 Bu/A	<b>MISCELLANEOUS</b>		
1064	Soybeans	40-80 Bu/A	1079	Brassicas	2-6 Ton/A
1071	Sunflowers	10-30 CWT/A	1800	Disturbed Lands	-----
1058	Wheat	40-120 Bu/A	1055	Horticultural Cover Crop	-----
1012	Canola	30-80 Bu/A	1065	Tobacco	1-1.5 Ton/A
1013	Spelt	70-150 Bu/A	1056	Wildlife Food Plot	-----
1050	Barley/Soybean Double Crop	50-130 Bu/A	1052	Hops	-----
1051	Small Grain Silage	4-12 T/A			

## How to Complete Create Farm Crop List

### 1.3. Selecting the Crop Name

	A	B	C	D	E
6					
7	<b>Farm Crop List</b>				
8		Crop Group	Crop Name	Penn State AASL Yield Range	Penn State AASL Crop Code
9		Alfafa Group	▼		
10			Planting Alfalfa		
11			Planting Alfalfa (No Till)		
12			Planting Alfalfa in Oats		
13			Planting Alfalfa in Wheat		
14			Planting Alfalfa-Trefoil		
15			Planting Alfalfa-Grass		
			Established Alfalfa		
			Established Alfalfa Grass		
		<b>Farm Crop List</b>			

The crops available for selection are based on the Crop Group. Select the crop from the drop-down list. The crop groups and crops can be found on the back of a Penn State AASL Agronomic Crop submission form.

Any crop not listed can be added in the Crop List Options tab then select "User Entered Crops" as the Crop Group. Additional directions for this option are found below in section 1.7. The newly added crop will be available for selection.

### 1.4. Penn State AASL Yield Range and Crop Code

	A	B	C	D	E
6		9			
7	<b>Farm Crop List</b>				
8		Crop Group	Crop Name	Penn State AASL Yield Range	Penn State AASL Crop Code
9		Alfalfa Group	Established Alfalfa	4-8 Ton / A	1001
10					
		<b>Farm Crop List</b>			

The crop yield range is the range where you will get a nutrient recommendation based on a soil test result. Values outside the range will need to have User Recommendations assigned. The Penn State AASL Crops Code is displayed for convenience but not used in the calculations.

## How to Complete Create Farm Crop List

Farm Crop List			
Crop Group	Crop Name	Penn State AASL Yield Range	Penn State AASL Crop Code

**Crop Group**  
 Select the crop group from the drop-down list. Most crop groups are the same those listed on a Penn State AASL form. There are two additional groups, "Alfalfa Group with Manure" and "Legume Group with Manure" that are to be used when manure will be applied to a legume crop.

Any crop not listed can be added in the Crop List Options tab then select "User Entered" as the Crop Group. The newly added crop will be available for selection. Legumes with manure would be need to be selected when applying manure to a legume. This will assign a nitrogen removal rate for the legume with manure.

**Farm Crop List**

### 1.5. Column Header Notes

The blue column headers cells with red triangles have notes included to help you understand what needs to be entered or what the cell data is used for. Where you see a red triangle in the cell, there is a note to help explain what should be entered in that column. For example when you click in the Crop Group column header the following message above will appear:

### 1.6. Selected crops will be available for selection in Appendix 4 Input tab

Crops Selected in the Create Farm Crops List can be selected from the dropdown list in App 4 Input when completing field planning scenarios

Crop Information			
Crop	Double Crop	Crop Yield	Units
Established Alfalfa			ton/A
<div style="border: 1px solid gray; padding: 2px;">                     Established Alfalfa                      Spelt                      Established Orchardgrass                 </div>			

**App 4 Input**

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## 1.7. Adding Crops not available in the list

First additional crops not listed must be entered in the Crops List Options Tab. Begin in the first available yellow row at the bottom of the list. Crops entered here will be available in the User Entered Crop Group in the Create Farm Crop List Tab.

Crop	Yield	Crop P Removal Rate	Winter Crop	Legume	Grass Hay	Summer Annual
Established Alfalfa	ton/A	15		Legume		
Established Trefoil	ton/A	15		Legume		
Established Trefoil-grass	ton/A	15		Legume		
Established Bluegrass	ton/A	10			Grass Hay	
Established Crownvetch	ton/A	10		Legume		
Canola	bu/A	0.7	Winter Crop			
Spelt	bu/A	0.5	Winter Crop			
Established Ladino Clover	ton/A	15		Legume		
Established Pasture (with legume) with Manure	ton/A	15		Legume		
Triticale	bu/A	1.0	Winter Crop			

**Crop List Options**

### 1.7.1. Selecting a User Entered Crop.

A crop entered in the Crop List Options tab can be selected using the “User Entered Crops” Crop Group. A yield range and crop code won’t be listed for user entered crops.

Crop Group	Crop Name	Penn State AASL Yield Range	Penn State AASL Crop Code
Alfafa Group	Established Alfalfa	4-8 Ton / A	1001
User Entered Crops	Triticale	User Entered Crop	User Entered Crop
	Triticale		

**Farm Crop List**

## 1.8. Revising the Create Farm Specific Crop list

Additional crops can be added at any time. The order of crops in App 4 Input will be the same order as they are selected in the Farm Crop List.

## 2. Revision History

Date	Description of Significant Changes
June 2018	The NMP worksheet “Farm Crop List” was reformatted to simplify the crop selection process.

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