Purpose:

This tutorial describes how to complete the Manure Analysis Average Input sheet. The sheet is labeled "Manure Average Input" in the Excel NMP workbook. All of the Manure Group analysis information is entered here.

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

You can find it by looking for the hyper link in the NMP Spreadsheet Index

	A B C D E F G H I												
1	NMP Spreadsheet Index												
2	NMP Version 6.0 Draft 2017-10 (2007-2010 Excel)												
3	NMP Instructions												
4	Contacts for Additional Information												
5	Input: Create Farm Specific Animal List												
6	Input: Manure Group Information Input Sheet												
7	Input: Manure Analysis Average												
8	Input. Create Farm Crop List												
9	Input: Appendix 4 - P Index - Winter Matrix												
10	NMP Summary												

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

Farm Specific Animal List	Appendix 3 Input	Manure Average Input	Create Farm Crop List

Once a Manure Groups name is entered in Appendix 3 Input that name will transfer here.

The analysis results for a manure group are entered in a set of 5 yellow shaded rows. The following manure analysis information is entered in the first row for the most recent analysis results.

- Name of Laboratory completing the analysis
- Manure Type (Select from a drop down list)
- Manure Units (lbs./ton or 1000 gal) (Select from a drop down list)
- Total Nitrogen (N) (lbs./ton or 1000 gal)
- Ammonium N (NH₄-N) (lbs./ton or 1000 gal)
- Total Phosphate (P₂O₅) (lbs./ton or 1000 gal)
- Total Potash (K2O) (lbs./ton or 1000 gal)
- Percent Solids
- PSC Value (Enter analytical or book value)

Layout of the Manure Analysis Average sheet

	A	В	С	D	E	F	G	Н		J	K	L
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH₄-N) (Ibs/ton or 1000 gal)	Total Phosphate (P₂O₅) (Ibs/ton or 1000 gal)	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)	Percent Solids	PSC Value (Enter analytical or book value)
6	Enter Manure Group Name in Appendix 3 Input	Average	Complete report date	Complete lab name	Select Manure Type	Select Manure Unit	Complete N	Complete NH4-N	Complete P2O5	Complete K2O	Complete percent solids	Complete PSC Value
7		1 year ago			Select Manure Type	Select Manure Unit						
Th	e Manure	2 years ago										
Gr	oup name	3 years ago 4 years ago	Add the most rece	nt analysis	s in the first ro	w	The	light blue s	haded area	is lists the a	verage of t	he -
tra	insfers here	5 years ago					anal	ysis results	entered bel	ow		t i i i i i i i i i i i i i i i i i i i
12	enter manure Group Name in Appendix 3 Input	Average	Complete report date	Complete lab name	Select Manure Type	Select Manure Unit	Complete N	Complete NH4-N	Complete P205	Complete K2O	Complete percent solids	Complete PSC Value
13		1 year ago			Select Manure Type	Select Manure Unit						
14	Add 1 year	2 years ago										
15	\mathbf{X}	3 years ago										
16	Cleavall years	4 years ago										
17	Entor Manuro	5 years ago										
18	Group Name in Appendix 3 Input	Average	Complete report date	Complete lab name	Select Manure Type	Select Manure Unit	Complete N	Complete NH4-N	Complete P205	Complete K2O	Complete percent solids	Complete PSC Value
19		1 year ago			Select Manure Type	Select Manure Unit						
20	Add 1 year	2 years ago										
21	77	3 years ago	As Manure Gro	oup names	s are added in .	Appendix 3 In	put they ti	ransfer here				
22	Clear all years	4 years ago										
23		5 years ago										
	Enter Manure Group Name in	Average	Complete report date	Complete lab	Select Manure Type	Select Manure Unit	Complete N	Complete NH4-N	Complete P205	Complete K20	Complete	Complete PSC
24	Appendix 3 Input	Average	complete report date	name	Select manure Type	Select manare onit	complete n	complete mit-n	complete i 200	complete hzo	percent solids	Value
25		1 year agp			Select Manure Type	Select Manure Unit						
26	Acd 1 year	2 years ago										
27	77	3 years ago										
28	Clear all years	4 years ago										
29		5 years ago										
30	Enter Manure Group Name in Appendix 3 Input	Average	Complete report date	Complete lab name	Select Manure Type	Select Manure Unit	Complete N	Complete NH4-N	Complete P205	Complete K2O	Complete percent solids	Complete PSC Value

The blue column headers with red triangles have notes to help you understand what needs to be entered or what the cell data is used for.

Manure Group Identification	Year	Manure Analgsis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH∢-N) (Ibs/ton or 1000 gal)		
Enter Munare Group Nume in Appendiz 3 Input	Average	Complete report date	Complete lab name	Select Manure Type	Select Manure Unit	Complete N	Complete NH4-N		
Add 1 year	1 year ago 2 years ago 3 years ago			Select Manure Type	Select Manure Unit				
Clear all years	4 years ago 5 years ago		Manuna C	roup Identification	1			-	
Enter Manure Group Name in Appendiz 3 Input	Average	Complete report date	Comple The Manure	e Group name created in t	the Appendix 3 Input tab	will be in the light l	blue colored row.		
Add 1 year Clear all years	1 year ago 2 years ago 3 years ago 4 years ago 5 years ago		The"Add 1 year" button will move all the manure group analysis values down one row. Use the "Add 1 year" button to add the next years results.						
Enter Manure Group Name in Appendiz 3 Input	Average	Complete report date	Comple For example	e:					
Add 1 year Clear all years	1 year ago 2 years ago 3 years ago 4 years ago		The results The 4 years	from one year ago will m ago results will move do	ove down to the two yea wn and replace the 5 yea	ars ago row. ars ago results.			
Enter Manure Group Name in Appendiz 3 Input	5 years ago Average	Complete report date	Comple	ear all years Dutton to re	entove all results from a n	anure group.			
Add 1 vear	1 year ago 2 years ann			1	1	1	1		

For example when you click in the blue column header "Manure Group Identification", the following note will appear:

In each row of the worksheet there are yellow, white, and grey cells.

- The light blue rows are the transferred manure group names and average values.
- Yellow cells: are for data entry.
- White cells are locked (the cursor will jump over them when entering data)

The Manure Average Input is only used for data entry and is not printed for submission. Once you complete the analysis information, the information is transferred to the printed Manure Avg. Printed sheet that will be submitted for review and approval. It is also transferred to the Appendix 3 Input sheet.

Manure Avg. Printed sheet is a grey colored tab in the workbook. <u>There is no data entry required in this worksheet since all</u> information is transferred from the App 3 Input sheet.

2		
Appendix 10 Supporting Info	Manure Avg Printed 👍	Winter Application Matrix

Navigating this worksheet will be easier if your cursor is set to move to the right after pressing enter. To set your cursor to move to the right, Click on the file tab in the upper left hand corner of the worksheet

X						
File	Home	Inse	rt	Pa	ge La	yout
	Cut		Aria	I		Ŧ
Paste	Format Pa	ainter	B	I	U	*
Clip				Font		
🚽 19 + 1	(21 -> - ∓					

Select the Options icon.

Print	
Save & Send	
Help	
Options	
🔀 Exit	

Click on the "Advanced" tab and set the direction to "Right" after pressing enter, move selection. Then click OK Excel Options



1. Procedure

1.1. Select the "Manure Avg. Input" worksheet tab

1.2. Enter the Manure Group Analysis Date

Enter the Manure Group Analysis Report Date for the most recent analysis in the first yellow row. available manure group cell.



1.3. Enter the Laboratory Name

Enter the laboratory name that completed the manure analysis. If book values are used for N, P₂O₅, and K₂O, enter the book value information source in the Laboratory Name entry. For example, enter "PSU Agronomy Guide" for the Penn State Agronomy Guide.

	А	B	С	D
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)
6	Cow Fall Liquid	Average	11/1/2016	AASL
7	Add 1 year	1 year ago	11/1/2016	AASL

1.4. Select the Manure Type from the drop down list.

Select the Manure Type from the drop down list. . It's better to select the name "Dairy" from the list versus typing it. If it's not spelled correctly or an extra space is entered then calculations won't work.

	А	В	С	D	E	I
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)	Manure Type	
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	
7		1 year ago	11/1/2016	AASL	Dairy	-
8	Add 1 year	2 years ago			Select Manure Type	
9		3 years ago			Dairy	
10	Clear all years	4 years ago			Poultry Swine	
11		5 years ago			Other	

1.5. Select the Manure Type from the drop down list.

Select the Manure Unit from the drop down list. . It's better to select the name "lb/1000 gal" from the list versus typing it. If it's not spelled correctly or an extra space is entered then calculations won't work.

	А	В	С	D	E	F	
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	
7		1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	-
8	Add 1 year	2 years ago				Select Manure Unit	_
9		3 years ago				lb/1000 gal	
10	Clear all years	4 years ann				lb/ton	_
11		5 years ago					
11		o years ago				I	1

1.6. Enter the Total Nitrogen results from the manure analysis report.

Enter the Total Nitrogen results from the manure analysis report.

	A	В	С	D	E	F	G
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	25.00
7	Add 1 year	1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00

1.7. Enter the Ammonium Nitrogen results from the manure analysis report.

- 21	A	В	С	D	E	F	G	Н	
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH ₄ -N) (Ibs/ton or 1000 gal)	
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	
7	Add 1 year	1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	

	А	В	С	D	E	F	G	Н	l l	
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH ₄ -N) (Ibs/ton or 1000 gal)	Total Phosphate (P₂O₅) (Ibs/ton or 1000 gal)	
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	
7	Add 1 vear	1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	Į.

1.8. Enter the total Phosphate results from the manure analysis report.

1.9. Enter the total Potash results from the manure analysis report.

	A	В	С	D	E	F	G	Н	1	J
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH ₄ -N) (Ibs/ton or 1000 gal)	Total Phosphate (P₂O₅) (Ibs/ton or 1000 gal)	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00
7	Add 1 year	1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00

1.10. Enter the percent solids results from the manure analysis report.

Remember that for very liquid manures, less than 5 percent solids, the Nitrogen availability will be increased by 20% after one day for very liquid manures to account for soaking in on application when using Table 1.2-15(required for atypical manures).

	А	В	С	D	E	F	G	Н	1	J	K	
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH4-N) (Ibs/ton or 1000 gal)	Total Phosphate (P ₂ O ₅) (Ibs/ton or 1000 gal)	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)	Percent Solids	
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00	6.40	
7		1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00	6.40	ſ
8	Add 1 year	2 years ago										ſ
9		3 years ago										ľ
10	Clear all years	4 years ago										ľ
11		5 years ago										Ï

1.11. Enter the Phosphorous Source Coefficient (PSC) values from the manure analysis report or enter book values.

PSC Value (Enter analytical or book value) Enter analysis results from manure report(s) or a select a book value from the dropdown list. PSC book values: Swine manure 1.0 Veal 1.0 Broiler, Layer, Turkey, Duck 0.8 Dairy – Liquid or Bedded Pack 0.8 Other (Beef, Horse, Sheep, Goat) 0.8 Biosolids BPR Biosolids 0.8 All biosolids (except BPR) 0.4

	А	В	С	D	E	F	G	Н	l I	J	K	L
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH4-N) (Ibs/ton or 1000 gal)	Total Phosphate (P ₂ O ₅) (Ibs/ton or 1000 gal)	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)	Percent Solids	PSC Value (Enter analytical or book value)
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00	6.40	0.80
7	Add 1 year	1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00	6.40	0.80
8	Auu i year	2 years ago										
9		3 years ago										
10	Clear all years	4 years ago										
11		5 years ago										

1.12. Enter any previous additional years of analysis results, (up to five years)

In this example, Three years of analysis values were entered in the yellow cells listed below. Remember the light blue row with the manure group name is the average of the values entered. They are the Nitrogen and Phosphorous value used to determine the manure application rates on crops.

4	A	В	С	D	E	F	G	Н	l I	J	K	L
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH ₄ -N) (Ibs/ton or 1000 gal)	Total Phosphate (P₂O₄) (Ibs/ton or 1000 gal)	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)	Percent Solids	PSC Value (Enter analytical or book value)
	Cow Fall Liquid	Average	11/1/2015	AASL	Dairy	lb/1000 gal	24.67	8.83	13.00	22.67	8.93	0.64
6												
7		1 year ago	11/1/2015	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00	6.40	0.80
8		2 years ago	10/25/2014	AASL			31.00	10.60	16.00	33.00	12.00	0.67
9		3 years ago	11/15/2013	AASL			18.00	7.40	11.00	12.00	8.40	0.45
10		4 years ago										
11		5 years ago										
												_

3 years of analysis results entered in the yellow cells

Manure Average Input

1.13. To add additional analysis results click on the "Add 1 year" button

To add additional analysis results click on the "Add 1 year" button. Finally, in year 6, the year 5 analysis results will be discarded and replaced with the year 4 results.

	A	D										
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	Ammonium N (NH₄-N) (Ibs/ton or 1000 gal)	Total Phosphate (PzOs) (Ibs/ton or 1000 gal)	Total Potash (KzO) (Ibs/ton or 1000 gal)	Percent Solids	PSC ¥alue (Enter analytical or book value)
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	lb/1000 gal	24.67	8.83	13.00	22.67	8.93	0.64
7	Add 1 year	1 year ago	11/1/2016	AASL	Dairy	lb/1000 gal	25.00	8.50	12.00	23.00	6.40	0.80
8	Add Tyear	2 years ago	10/25/2015	AASL			31.00	10.60	16.00	33.00	12.00	0.67
9		3 years ago	11/15/2014	AASL			18.00	7.40	11.00	12.00	8.40	0.45
10	Clear all years	4 years ago										
1		5 years ago										
C A	Click the "Add All the results	1 year bu will move	tton on ad down one	ld the mos row	t recer	nt analysis						
	Click the "Add All the results A	1 year bu will move B	tton on ad down one C	ld the mos row	t recer	nt analysis F	G	Н	I	J	К	L
5	Click the "Add All the results A Manure Group Identification	1 year bu will move B Year	tton on ad down one C Manure Analysis Report Date (Most recent in bold)	Id the most FOW D Laboratory Name (Most recent in bold)	E Manure Type	F Manure Unit (Ibs/ton or 1000 gal)	G Total Nitrogen (N) (Ib <i>st</i> ton or 1000 gal)	H Ammonium N (NH4-N) (Ibs/ton or 1000 gal)	Total Phosphate (P ₂ O ₃) (lbs/ton or 1000 gal)	J Total Potash (Kr 0) (Ibs/ton or 1000 gal)	K Percent Solids	L PSC ¥alue (Enter analytical or book value)
5 6	All the results A Manure Group Identification Cow Fall Liquid	1 year bu will move B Year Average	tton on ad down one C Manure Analysis Report Date (Most recent in bold) Complete report date	D Laboratory Name (Most recent in bold) Complete lab name	E Manure Type Dairy	F Manure Unit (Ibs/ton or 1000 gal) Ib/1000 gal	G Total Nitrogen (Ibs/ton or 1000 gal) 24.67	H Ammonium N (NH1-N) (Ib5/ton or 1000 gal) 8.83	 Total Phosphate (P ₂ O ₃) (lbs/ton or 1000 gal) 13.00	J Total Potash (Kr,0) (Ibs/ton or 1000 gal) 22.67	K Percent Solids 8.93	L PSC ¥alue (Enter analytical or book value) 0.64
5 6 7	All the results A Manure Group Identification Cow Fall Liquid	1 year bu will move B Year Average 1 year ago	tton on ad down one C Manure Analysis Report Date (Most recent in bold) Complete report date	Laboratory Name (Most recent in bold) Gomplete lab	E Manure Type Dairy Dairy	F Manure Unit (Us/ton or 1000 gal) Ib/1000 gal Ib/1000 gal	G Total Nitrogen (N) (Ibs/Kon or 1000 gal) 24.67	H Ammonium N (NH+N) (Ibstron or 1000 gal) 8.83	 Total Phosphate (P ₂ O ₁) (lbs/ton or 1000 gal) 13.00	J Total Potash (K,0) (Ibston or 1000 gal) 22.67	K Percent Solids 8.93	L PSC Value (Enter analytical or book value) 0.64
5 6 7 8	A Manure Group Identification Cow Fall Liquid Add 1 year	1 year bu will move B Year Average 1 year ago 2 years ago	tton on ad down one C Manure Analysis Report Date (Most recent bold) Complete report date	D Laborators Mame (Most recent in bold) Complete lab name AASL	E Manure Type Dairy Dairy	F Manure Unit (Ubs/ton or 1000 gal) Ib/1000 gal	G Total Nitrogen (N) (Ibs/ton or 1000 gal) 24.67 25.00	H Ammonium N (NHN) (Ibs/ton or 1000 gal) 8.83 8.83 8.50	 Total (P,90,1) (Ibs/ton or 1000 gal) 13.00	J Total Potash (K, 0) (Ibs/kon or 1000 gal) 22.67	K Percent Solids 8.93 6.40	L PSC Value (Enter analytical or book value) 0.64
5 6 7 8 9	A Manure Group Identification Cow Fall Liquid Add 1 year	1 year bu will move B Year Average 1 year ago 2 years ago 3 years ago	C Manure Analysis Report Date (Most recent in bold) Complete report date 11/1/2016 10/25/2015	D Laboratorg Name (Most recent in bold) Gomplete lab name AASL AASL	E Manure Type Dairy Dairy	F Manure Unit (Ib:/ton or 1000 gal) Ib/1000 gal	G Total Nitrogen (N) (bs:ton or (bs:ton or (H (NH+,-N) (Ibs/ton or 1000 gal) 8.83 8.83 8.50 10.60	 Total Phosphate (P-0-1) (Ibstkon or (Ibstkon or 1000 gal) 13.00 12.00 16.00	J Total Potash (K,0) (Ibs/kon or (Ibs/kon or 22,67 22,67 23,00 33,00	K Percent Solids 8.93 6.40 12.00	L PSC Yalue (Enter analytical or book value) 0.64 0.80 0.80
5 6 7 8 9 10	A Manure Group Identification Cow Fall Liquid Add 1 year Clear all years	1 year bu will move B Year Average 1 year ago 2 years ago 3 years ago 4 years ago	C Manure Analysis Report Date (Most recent in bold) Complete report date 11/11/2016 10/25/2015 11/15/2014	D Laboratory Name (Most recent in bold) Complete lab name AASL AASL AASL	E Manure Type Dairy Dairy	F Manure Unit (Ibs/ton or 1000 gal) Ib/1000 gal	G Total Nitrogen (N) (Ubston or 1000 gal) 24.67 25.00 31.00 18.00	H Ammonium N (NH4-N) (Ibs/ton or 1000 gal) 8.83 8.83 8.50 10.60 7.40	 Total Phosphate (P-0.) (Ibston or 13.00 13.00 12.00 16.00 11.00	J Total Potash (K,0) (Ibs/ton or (Ibs/ton or 22.67 23.00 33.00 12.00	K Percent Solids 8.93 6.40 12.00 8.40	L PSC Value (Enter analytical or body value) 0.64 0.80 0.67 0.45

1.14. To clear all analysis results click on the "Clear all years" button

	A	B	С	D	E		F	G	6	-	H			J		К	L		
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure Type	Man (Ibs/to	ure Unit on or 1000 gal)	Tol Nitro (N (Ib <i>si</i> to 1000	tal igen i) on or gal)	Ammo (NH (Ibs/tor g·	nium N I₄-N) 1 or 1000 al)	Ta Phos (Pz (Ibs/I 1000	tal phate O _S) ion or I gal)	Tol Pota (K ₂ (Ibs/to 1000	aal ash O) on or gal)	⁹ ercent Solid <i>s</i>	PSC V (Eni analy or bo valu	/alue ter tical pok Je)	
6	Cow Fall Liquid	Average	11/1/2016	AASL	Dairy	Ib/1	000 gal	24.0	67	8.	83	13	.00	22.0	67	8.93	0.6	i4	
7	Add 1 year	1 year ago	11/1/2016	AASL	Dairy	Ib/1(000 gal	25.	00	8.	50	12	.00	23.	00	6.40	0.8	30	
8	Auu i yeai	2 years ago	10/25/2015	AASL				31.	00	10	.60	16	.00	33.	00	12.00	0.6	67	
9		3 years ago	11/15/2014	AASL				18.	00	7.	40	11	.00	12.	00	8.40	0.4	15	
10	Clear all years	4 years ago																	
11		5 years ago																	
Ľ		B B	C C		F			w cei	15.	3	Н			1	1		ĸ	1	
5	Manure Group Identification	Year	Manure Analysis Report Date (Most recent in bold)	Laboratory Name (Most recent in bold)	Manure	Type	Minure (Ibriton o gal	Unit or 1000)	Tol Nitra (N (Ibs/to 1000	ital ogen 4) on or gal)	Ammoni (NH ((1bs/to 1000 <u>c</u>	ium N -N) n or gal)	To Phosj (P ₂ (Ibs/t 1000	tal phate O ₅) on or gal)	Total Potasl (K₂O) (Ibs/ton 1000 ga	or I)	rcent Ilids	PSC Valu (Enter analytic: or bool value)	a
6	Cow Fall Liquid	Average	Complete report date	Complete lab name	Select Ma Type	anure e	Select M Uni	anure t	Comp	lete N	Comp NH4	lete -N	Com P2	plete 05	Comple K2O	te Com per so	iplete cent lids	Complet PSC Valu	t
7	Add 1 year	1 year ago			Select Manu	іге Туре	Select Man	ure Unit											
8	Auu i year	2 years ago																	
-																			
9		3 years ago																	
9 10	Clear all years	3 years ago 4 years ago																	
9 10 11	Clear all years	3 years ago 4 years ago 5 years ago																	

To clear all analysis results click on the "Clear all years" button. For example, if the farmer changes the storage system.

2. Notes

2.1. Printed Manure Average Input will look like this

Results entered in the Manure Average Input sheet are transferred to a grey tab, "Manure Avg. Printed". This is the printout for submission.

	В	С	D	E	F	G	Н
2		Manure /	Analysis 5 Yea	ar Running Av	verage		
3	Manure Average for Crop			Cow Fall	Liquid		
4	Years. 2017	Average	1 year ago	2 years ago	3 years ago	4 years ago	5 years ago
5	Manure Report Date	Nov 01 2016	Nov 01 2016	Oct 25 2015	Nov 15 2014		
6	Laboratory Name	AASL	AASL	AASL	AASL		
7	Manure Type	Dairy	Dairy	Dairy	Dairy		
8	Manure Unit (Ibs/ton or 1000 gal)	lb/1000 gal	lb/1000 gal	lb/1000 gal	lb/1000 gal		
9	Total Nitrogen (N) (Ibs/ton or 1000 gal)	24.67	25.00	31.00	18.00		
10	Ammonium N (NH₄-N) (Ibs/ton or 1000 gal)	8.83	8.50	10.60	7.40		
11	Total Organic N (Ibs/ton or 1000 gal)	15.84	16.50	20.40	10.60		
12	Total Phosphate (P ₂ O ₅) (Ibs/ton or 1000 gal)	13.00	12.00	16.00	11.00		
13	Total Potash (K₂O) (Ibs/ton or 1000 gal)	22.67	23.00	33.00	12.00		
14	Percent Solids	8.93	6.40	12.00	8.40		
15	PSC Value (Enter analytical or book value)	0.64	0.80	0.67	0.45		
40							
Ма	inure Avg Printed 📈	Printed ver	sion of Ma	nure Aver	age Input	that's subr	nitted

2.2. The Manure Group Average analysis will appear in Appendix 3 Input

	A	В	С	D	E	F	G	Н		J	K	L	М
4	Appendix 3 Man	ure Group Info. N	lanure Average Inp										
5	Clear Manure Group Information	Manure Group Identification	Manure Report Date (most recent)	Laboratory Name	Manure Type	Manure Unit (Ibs/ton or 1000 gal)	Total Nitrogen (N) Ibs / ton or Ibs / 1000 gal	Ammonium N (NH4-N) Ibs / ton or Ibs / 1000 gal	Total Phosphate (P2O5) Ibs / ton or Ibs / 1000 gal	Total Potash (K2O) Ibs / ton or Ibs / 1000 gal	Percent Solids	PSC Value (Enter analytical or book value)	Manure Group Site Description
6	Clear Manure	Cow Fall Liquid	11/1/2016	AASL	Dairy	lb/1000 gal	24.67	8.83	13.00	22.67	8.93	0.64	Slurrystore Tank
	Appendix 3 Input		Avera	ige Value	s are tra	ansferred fr	rom the Ma	anure Avera	age Input sł	neet			

2.3. The Manure Group Average analysis will appear in the Printed Appendix 3 Manure Group Information

	A	В	С
4	Appendix 3 Manure Group Information Crop Yrs. 2017	Cow Fall	Liquid
5	Manure Report Date (note if averaging several reports)	November 1, 2016	
6	Laboratory Name	AASL	
7	Manure Type	Dairy	
8	Manure Unit (Ibs/ton or 1000 gal)	lb/1000 gal	
9	Total Nitrogen (N) (Ibs/ton or 1000 gal)	24.67	
10	Ammonium N (NH₄-N) (Ibs/ton or 1000 gal)	8.83	
11	Total Organic N (Ibs/ton or 1000 gal)	15.84	
12	Total Phosphate (P ₂ O ₅) (Ibs/ton or 1000 gal)	13.00	
13	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)	22.67	
14	Percent Solids	8.93	
15	PSC Value (analytical or book value)	0.64	
Ap	ppendix 3 Manure Group Info.	\Box	
	The Manure Group a	verage analysis is t	transferred here

4. Revision History

Date	Previous Revision	Description of Significant Changes
October 5, 2017	None	First issue of the document.

Prepared by Don Orner | Research Technologist | Penn State Extension – Nutrient Management