Purpose and Overview:

This procedure provides an overview and details how to complete Nutrient Management Plan, (NMP) Summary worksheet. The NMP Summary includes application rates listed field or crop management unit for all nutrient sources applied to meet crop nutrient needs for all fields on the entire operation (owned and rented acres). It includes a Whole Farm Note, the Crop Year(s), Operation Acres, Animal Equivalent Units, (AEU) and Animal Equivalent Units per Acre.

The NMP Summary worksheet requires <u>data entry so it has a yellow colored sheet tab</u> in the NMP Excel workbook.

The NMP Summary Notes worksheet is a separate tab in the Excel workbook but it is populated when completing the NMP Summary.

The NMP Summary is provided to help the farmer implement the plan on individual fields. Planners are encouraged to use the notes section to provide additional explanation or clarification to the farmer. Common examples are manure application setbacks, multiple manure applications or double cropping scenarios. Refer to the Pennsylvania Nutrient Management Act Program Technical Manual for NMP Summary Notes Requirements.

The NMP Summary Notes worksheet information is transferred information therefore <u>it has a grey colored sheet tab</u> in the NMP Excel workbook.

You can find the NMP Summary and NMP Summary Notes Worksheet tabs by looking for the hyper link in the NMP Spreadsheet Index

	A B C	D	E	F	G	Н	
1		NMP	Spread	sheet	Index		
2	NMP Vers	ion 6.0 201	7-10 (200	7-2016 E	Excel)		
3	NMP Instructions						
4	Contacts for Additional	nformation					
5	Input: Create Farm Spec	cific Animal	List				
6	Input: Manure Group Info	rmation Inpu	ut Sheet				
7	Input: Manure Analysis A	verage					
8	Input: Create Farm Crop	<u>List</u>					
9	Input: Appendix 4 Crop	and Manure	e Managei	<u>ment, P I</u>	ndex, Wint	er Matrix	<u>c</u>
10	NMP Summary	1					
11	NMP Summary Notes						
N	IMP Index						

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



1. Layout and Completion of the NMP Summary worksheet

1.1. Layout of the worksheet and overview

	A	В	С	D	E	F	GH	1	J	K	L	Μ	Ν	0	Р	Q
1					Nutrient	Managem	ent Plan Sun	nma	iry							
2							_									
3	Total acres re	ported	in NMP	Summary:							С	rop Ye	ear(s)			
4	4 Whole Farm Note: If manure runs out for any field, consult Appendix 4 of the that field. The fertilizer required on any part of the field the						e plan for at does not	t Create/Update						ן ב א		
5	receive manure can be determined from the 'Net Nutrients Required' for that field.										Sum	mary				V
8	Operation Act	es:					Li									
9 10	Total Acres:		Total	Acres Availab	le For Nutrien	t Application Und	ler Operator's Contr	rol: O	wned:			R	ented:			
11	Animal	Equiva	lent Uni	ts: 143.01		Animal Equ	uivalent Units Per	Acre:	143.01							
12 13								Sta Fert	arter/Ot tilizer (her Ib/A)	Sup Fert	opleme ilizer (l	ntal b/A)	Nutri	ent Ba (Ib/A) ²	lance
14	CMU/Field ID	Acres	Сгор	Manure Group	Application Season	Application Management	Planned Manure Rate ¹	N	P ₂ O ₅	K ₂ O	N	P_2O_5	K₂O	N	P_2O_5	K ₂ O
15																

1.2. Cell Information Notes

The cells with red triangles have helpful notes included to help you understand what needs to be entered or what the cell data is used for. For example when you click in the Crop Years cell the following message will appear:

	A B C D E F G H I J K L M N O P	Q										
1	Nutrient Management Plan Summary											
2 3	2 3 Total acres reported in NMP Summary: Crop Year(s											
4 5 7	Whole Farm Note: If manure runs out for any field, consult Appendix 4 of the plan for If manure runs out for any field, consult Appendix 4 of the field that does not Create/Update receive manure can be determined from the 'Net Nutrients Required' Summary for that field. For that field	shaded cells The value ent wil be transfe worksheets to Important:										
8 9	Operation Acres: Total Acres: Total Acres Available For Nutrient Application Under Operator's Control: Owned: Rented: Rented:	. \										
10												
11	Animal Equivalent Units: 143.01 Animal Equivalent Units Per Acre: 143.01	\										
12 13	Starter/Other Supplemental Nutrient Ba Fertilizer (Ib/A) Fertilizer (Ib/A) (Ib/A)	lance										
14	CMU/Field ID Acres Crop Manure Application Application Planned Manure N P2O5 K2O N P2O5 K2O N P2O5 K2O N P2O5	K ₂ O										
15 16 17 18 19 20 21 21	S F B F B F B F Crop Year(s) F Enter the crop year(s) covered in this plan. NMP Summary The year(s) entered here will transfer to all printed v	vorksheets.										

2. Completing the yellow input cells

2.1. Nutrient Management Plan Whole Farm Notes

A B C D E	F G H I	
1 Nutrient Man	agement Plan Summary	/
2		<u>_</u>
3 Total acres reported in NMP Summary:		
4 Whole Farm Note: If manure runs out for any field, consult Append that field. The fartilizer required on any part of the	ix 4 of the plan for	
5 Whole Farm Note	t Nutrients Required	
A note to the farmer that apply to the who management changes or general informati	le plan. Global on that the farmer	
needs to be aware of when the plan is imp For example if the starter fertilizer program	lemented. n was changed.	
NMP Summary		
2.2. Crop Year(s)		
Enter the crop years(s) covered in this plan. The year(s) entere	d here will transfer to all printed w	orksheets.
H J K L M N O P Q		
Summary	Appendix 3 Manure Group Information Crop	Cow Fall Liquid
Crop Year(s <mark>) 2019</mark>	Manure Unit (lbs/ton or 1000 gal)	lb/1000 gal
Create/Update Summary	Total Nitrogen (N) 9 (lbs/ton or 1000 gal)	20.50
Crop Year(s)	Appendix 3 Manure Grou	up Info.

Enter the crop year(s) covered in this plan. The year(s) entered here will transfer to all printed worksheets.

NMP Summary

2.3. Operation Total Acres

The NMP is to include all the lands that are an integral part of this animal operation. These lands may be different from those lands counted in the AEU/acre calculation.



Lands owned by the operator which are located at the animal production facility, as well as other lands under the management control (owned or rented) that are an integral part of this animal production facility.

2.4. Total Acres Available For Nutrient Application Under Operator's Control: Owned and Rented

Owned Acres: List the number of acres OWNED, from the total acres in the NMP that will receive nutrients during the normal cropping rotation for the operation. This includes nutrients from manure, sewage sludge or bio-solids, chemical fertilizers, etc.

Rented Acres: List the number of acres RENTED, from the total acres in the NMP that will receive nutrients during the normal cropping rotation for the operation. This includes nutrients from manure, sewage sludge or bio-solids, chemical fertilizers, etc.

Total Acres Available For Nutrient Application Under Operator's Control:	Owned:	75	Rented:	25	
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NMP Summary

Owned Acres

List the number of acres OWNED , from the total acres in the NMP that will receive nutrients during the normal cropping rotation for the operation.

This includes nutrients from manure, sewage sludge or biosolids, chemical fertilizers, etc.

Rented Acres

List the number of acres RENTED , from the total acres in the NMP that will receive nutrients during the normal cropping rotation for the operation.

This includes nutrients from manure, sewage sludge or biosolids, chemical fertilizers, etc.

2.5. Animal Equivalent Units

The AEU's shown is the sum of all AEU's from all manure groups from the Appendix 3 Manure Group Information Tab.

10		
11	Animal Equivalent Units	143.01
12		
	NMP Summary	

In the example:

The sum of the Cow Fall Liquid and Cow Spring Liquid Manure Group AEU's in Appendix 3 Manure Group Info. Tab divided by the total acres owned and rented in the NMP Summary.

2.6. Animal Equivalent Units per Acre

The AEU's shown is the sum of all AEU's from all manure groups in Appendix 3 Manure Group Info. Tab.

Animal Equivalent Units Per Acre: 1.	Animal Equivalent Units
	The AEU's shown is the sum of all AEU's from all manure
	groups in Appendix 3 Manure Group Info. Tab.

= (71.51 AEU's Cow Fall Liquid Manure Group + 71.51 AEU's Cow Spring Liquid Manure Group) ÷ (75 Acres owned + 25 Acres rented)

= 143.02 AEU's ÷ 100 Acres = 1.43 AEU's per Acre

d.	A	В	С	D	E
Ļ	Appendix 3 Manure Group Information	Cow Fall	Liquid	Cow Sprin	g Liquid
3	Manure Unit (ibs/ton or 1000 gal)	lb/1000 gal		lb/1000 gal	
)	Total Nitrogen (N) (Ibs/ton or 1000 gal)	20.50		18.90	
0	Ammonium N (NH ₄ -N) (ibs/ton or 1000 gal)	8.30		7.40	
1	Total Organic N (lbs/ton or 1000 gal)	12.20	<u>Go to NMP Index</u>	11.50	
2	Total Phosphate (P ₂ O ₅) (ibs/ton or 1000 gal)	10.40	Go to Appendix 3 Input	9.60	
3	Total Potash (K ₂ O) (Ibs/ton or 1000 gal)	18.20	Go to Manure Avg Inout	16.80	
4	Percent Solids	5.50	Grazing Calculator	6.70	
5	PSC Value (analytical or book value)	0.80		0.80	
3	Percent Moisture	94.50		93.30	
ſ	Manure Group AEU's	71.51		71.51	1

Appendix 3 Manure Group Info.

2.7. Populating the NMP Summary and Summary Notes

Click on the Create/Update NMP Summary button after completing or changing the crop & manure management information and field notes in App 4 Input. This will populate or fill in the NMP Summary and the NMP Summary Notes worksheets.

otal acres r	eported	n NMP Sur	mmary.		•					Cro	op Yea	ar(s) 2	019		
otar acres i	eponea	un ou	, inter y.										.010		
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		that field. Th	e fertilizer rec	uired on any	part of the field that of	does not			Cr	eate/U	pdate				
		receive man	ure can be de	termined from	the 'Net Nutrients F	Required'		_		Summ	iary				
		for that field.						/ _							
Total Acres	135	Total Acr	oe Availablo	For Nutrient	t Application Under	Operator's Con	trol: 0	wnod: 7	5		Por	ntod: 2	5		
Total Acres	. 100	Total Act	es Avanable	i or nutrien	Application onder	operator s con	uoi. 0	meu. <u>r</u>	5		i i i i	neu.	.0		
Anima	l Equiva	lent Units:	143.01		Animal Equiv	alent Units Pe	r Acre:	1.43	1						
							Sta	rter/Oth	er	Supp	lemen	tal	Nutrie	ent Bala	ance
			Manure	Application	Application	Planned Manure	Fert	lizer (ib	/A)	Fertil	izer (ib				
CMU/Field ID	Acres	Crop	Group	Season	Management	Rate ¹	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
Croato/I	Indata		umman	. /											
	puate	INIVIE 3				<i>C</i> :								_	
LICK ON 1	the Cre	eate/Up	date NI	/IP Sumi	mary button	after com	pletii	ng or	chai	ngin	g_the	e cro	ор 8	ι	
manure	manag	ement i	nformat	ion and	field notes i	n App 4 Inj	put.								
NMP Sumn	nary B	C	D	E	F	G H	1	J	к	L	м	N	0	Р	(
NMP Sumn	nary B	C	D	E Nutrient	F Manageme	_{с н} nt Plan Su	mma	J Iry	К	L	М	N	0	Р	C
NMP Sumn A	B B	C in NMP Su	D mmary:	E Nutrient 37.0	⊦ t Manageme	G н nt Plan Su	mma	J Iry	К	L	M rop Ye	N ear(s)	0	Р	0
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2.8. NMP Summary Notes

Remember the NMP Summary Notes tab is colored grey to indicate all information is transferred there. Nothing is entered in this worksheet.

	A	R
1		NMP Summary Notes
2		
3		
4		Crop Years 2019
14	CMU/Field ID	Notes
15	A1	
16	A1	
17	A2	
18	A2	
19	A3	
20	A3	
21	A4	25% Ground cover must be present for winter application.
22	A4	
23	A5	
24	A6	
25	A7	drys cow are grazed from April to September with 24 hr unrestriced access and are fed and watered at the barn.
26	A7	dry cows are grazed October with 24 hr unrestriced access and are fed and watered at the barn.
27 N	IMP Summary	/ Notes

2.9. Total acres reported in NMP Summary

This cell is filled in after you click on the Create/Update Summary button. The Total Acres reported is a sum of all the fields entered into App 4 Input sheet. Double cropped fields and fields with multiple manure applications are counted only once if they are completed correctly.



completed correctly.

3. Notes

3.1. Planned Manure Rates on fields with Grazing

Notice the planned manure rate for uncollected manure from animal on pasture states "Grazing See Notes". The amount of uncollected manure is based on the days and hours /day on pasture. This information will be transferred from where it was entered in App 4 Input to the NMP Summary Notes.

14	CMU/Field ID	Acres	Сгор	Manure Group	Application Season	Application Management	Planned Manure Rate ¹			
26	A7	4.0	Established Pasture (without legume)	Dry Cows Spring - Uncollected	Grazing	Grazing anytime with nutrient uptake during growing season	Grazing See Notes			
	NMP Summary Planned Manure Rates for grazing animals will									

Planned Manure Rates for grazing animals will be listed as "Grazing See Notes"

3.2. Planned manure rate when no manure is applied

displayed.

If no manure is planned to be applied to a field. The recommended guidance is to enter a zero in App 4 Input. If it is zero or left blank in App 4 Input, the planned manure rate will state "No Manure Applied".

14	CMU/Field ID	Acres	Сгор	Manure Group	Application Season	Application Management	Planned Mar Rate ¹	nure				
23	A5	6.0	Established Alfalfa	No Manure Applied			No Manure Applied					
	NMP Summary If the planned manure rate entered in App 4 Inpu											
	is blank or zero then "No manure Applied", will be											

4. Revision History

Date	Previous Revision	Description of Significant Changes
Oct 9, 2017	None	First issue of the document.