

Nutrient Balance Sheet

Prepared For

Importing Operator Name
Importing Operator Address
Importing Operator Phone Number
County of Application

Prepared By

Nutrient Management Specialist or Broker 2 Name
Nutrient Management Specialist or Broker 2 Certification Number
Nutrient Management Specialist or Broker 2 Address
Nutrient Management Specialist or Broker 2 Phone Number(s)

Nutrient Management Specialist or Broker 2 Signature

Date of Development

This nutrient balanced sheet has been developed for manure exported for agricultural land application under the following Act 38 export option:

- ☐ Exported to a known operation (included in Exporter NMP)
☐ Exported through a broker (include Broker information below if not prepared by broker)

Broker Information

Broker Name
Broker Certification Number
Broker Address
Broker Phone Number(s)

Exporter Information

Exporting Operator Name
Exporting Operator Address
County of Origin

Nutrient Balance Sheet Summary

	Crop Group	CMU/Field ID	Manure Group	Application Season	Application Management	Planned Manure Rate	Starter/Other Fertilizer (lb/A)			Nutrient Balance @ Planned Rate (lb/A) ¹			Notes (check)
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

¹ Positive numbers = nutrient deficit; negative numbers = nutrient excess

Nutrient Balance Sheet Summary Notes

Fall manure applications require at least 25% cover unless the crop management unit is planted to a cover crop in time to allow for appropriate growth to control runoff until the next growing season, or the manure is injected or mechanically incorporated within 5 days using minimal soil disturbance techniques consistent with no-till farming practices.

	Crop Group	CMU/Field ID	Manure Group	Notes ¹
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

¹ If crop removal values were used in Row A for P₂O₅ and K₂O, planners should use the following standard note: Nutrient balances for P₂O₅ and K₂O are based on crop removal and should not be used to determine additional fertilizer needs.

Nutrient Balance Worksheet

Crop Group		Yield	CMU/Field Identification (Each field must be clearly identified on a map)		Acres
Manure Plan Basis (check planning option)	OPTION 1 P Removal		OPTION 2 N Requirement		OPTION 3 P Index
	<ul style="list-style-type: none"> • P removal rates • 150' application setback from streams, lakes or ponds • No winter application • Use the P₂O₅ column to determine acceptable rate • Completion of N column required for all options; P₂O₅ column is optional for N based rates; K₂O is optional for all rates. 		<ul style="list-style-type: none"> • N requirement rates • 150' application setback from streams, lakes or ponds • Soil test < 200 ppm Mehlich 3 P • No winter application • Use the N column to determine acceptable rate 		<ul style="list-style-type: none"> • P Index evaluation of fields • P Index and Winter Matrix required for winter application • Use appropriate column based on the P Index to determine acceptable rate
			Soil Test Mehlich 3 P (ppm)		
Manure Group		Manure Type (Poultry, Swine, Other, Compost)		Application Season	Application Management
Units (Circle)		Manure Analysis			Manure % Solids
		NH₄-N	Organic N	P₂O₅	K₂O
lb/ton or lb/1000 gal					
Notes					

	N		P ₂ O ₅	K ₂ O	Recommendation Basis
A) Recommendation or Removal (lb/A) N – Soil Test or Tables 1 & 2 (AG Table 1.2-3;1.2-5) P ₂ O ₅ & K ₂ O – Soil Test or Table 3 (AG Table 1.2-6)					Soil Tests
					Crop Removal
B) Fertilizer Applied (lb/A) (Regardless of Manure e.g. Starter)					Application Record & Notes Record when the planned manure and fertilizer rates were applied or note changes.
C) Other Organic Sources Applied (lb/A) (e.g. Biosolids, Other Manure)					
D) Residual Manure N (lb/A) Table 4 (AG Table 1.2-11B)					
E) Previous Legume N (lb/A) Table 5 (AG Table 1.2-4) or Soil Test Report					
F) Net Nutrient Requirement (lb/A) (A – B – C – D – E)					
G) Manure Analysis (lb/ton or lb/1000gal)	NH ₄ -N	Org N			
H) Nitrogen Availability Factors Table 6 (AG Table 1.2-11A)	NH ₄ -N	Org N			
I) Available Nitrogen Fractions (lb/ton or lb/1000gal) (G x H)	NH ₄ -N	Org N			
J) Total Available Nitrogen (sum of Available N Fractions from row I)	NH ₄ -N + Org N				
K) Balanced Manure Rate (tons/A or gallons/A) Complete 1 column For N: (F ÷ J) For P: (F ÷ G)					
L) Planned Manure Rate (tons/A or gallons/A) Must be less than or equal to Row K Balanced Rate and based on the plan basis being used					
M) Nutrients Applied at Planned Rate (lb/A) For N: (L x J) For P & K: (L x G)					Note: Nutrient balances for P ₂ O ₅ and K ₂ O based on crop removal (Row A) should not be used to determine additional fertilizer needs. Only recommendations based on soil tests should be used for this purpose.
N) Nutrient Balance at Planned Rate (lb/A) (F - M) (Indicate short or excess)					

Appendix 1

Operation Maps

Maps (or aerial photographs) required in Nutrient Balance Sheets must identify: road and road names adjacent to and within the operation; field identification, boundaries and acreage; manure application setback areas and vegetated buffers and associated landscape features (streams and other water bodies, sinkholes, and active water wells or springs); and location of in-field manure stacking areas (including each site in stacking area rotation. A soils map for Option 3 P Index fields is encouraged but not required.

Appendix 2

Option 3 Evaluations

Include the current Pennsylvania Phosphorus Index Spreadsheet or paper worksheet for each field that required Part B of the P Index when using Manure Plan Basis Option 3. Include the Winter Matrix evaluation of fields that will receive winter manure applications.