

# Nutrient Balance Sheet

*Prepared For*

**Operator's Name**

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*Prepared By*

**Nutrient Management Specialist's or Broker's Name**

**Nutrient Management Specialist's or Broker's Program Certification Number**

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**Nutrient Management Specialist or Broker 2 Signature**

**Date of Development** \_\_\_\_\_

*Exporter Information*

**Exporting Operator's Name**

**Exporting Operator's Address**

**County of Origin**

## **Nutrient Balance Worksheet Appendices**

The following appendices need to accompany the Nutrient Balance Worksheets if applicable:

- Maps of fields where manure is to be applied including required manure application setbacks
- Completed P-Index spreadsheet (or other similar information summary) listing the source and transport factors and final Index result for each crop management unit (if applicable)

## Nutrient Balance Sheet Summary

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

<sup>1</sup> Positive numbers = nutrient deficit; negative numbers = nutrient excess

## Nutrient Balance Sheet Summary Notes

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

<sup>1</sup> If crop removal values were used in Row A for P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O, planners should use the following standard note: Nutrient balances for P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O are based on crop removal (Row A) and should not be used to determine additional fertilizer needs.

<sup>2</sup> If the P banking option is used, planners should use the following standard note: The P banking option was used to develop the planned manure rate. No other phosphorus sources (manure and fertilizer) may be applied for the term of the multiple year rate.

# Nutrient Balance Worksheet

<b>CMU/Field Identification</b> <small>(Area must be clearly identified on a map)</small>		<b>Acres</b>	<b>Crop Group</b>	<b>Yield</b>
<b>Manure Plan Basis</b> <small>(check planning option)</small>	<b>OPTION 1 P Removal</b>	<b>OPTION 2 N Requirement</b>		<b>OPTION 3 P Index</b>
	<ul style="list-style-type: none"> <li>P removal rates</li> <li>150' application setback from streams, lakes or ponds</li> </ul>	<ul style="list-style-type: none"> <li>N requirement rates</li> <li>150' application setback from streams, lakes or ponds</li> <li>Soil test &lt; 200 ppm Mehlich 3 P</li> </ul>		<ul style="list-style-type: none"> <li>P Index evaluation (must be attached)</li> </ul>
	<b>Will P banking be used?</b>	<b>Soil Test Mehlich 3 P (ppm)</b>		
	No			
	Yes, for _____ years.			
<small>(Use the P<sub>2</sub>O<sub>5</sub> column to determine acceptable rate)</small>		<small>(Use the N column to determine acceptable rate)</small>		<small>(Use appropriate column based on the P Index to determine acceptable rate)</small>
<b>Manure Type</b>	<b>Manure Analysis (lb/ton or 1000 gal)</b> Total N      P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O		<b>Application Timing</b>	<b>Application Method</b>
<b>Notes</b>				

	N <sup>1</sup>	P <sub>2</sub> O <sub>5</sub> <sup>1</sup>	K <sub>2</sub> O <sup>1</sup>	<b>Recommendation Basis</b>
<b>A) Recommendation or Removal (lb/A)</b> <small>N – Soil Test or Tables 1 &amp; 2 (AG Table 1.2-5;1.2-7) P<sub>2</sub>O<sub>5</sub> &amp; K<sub>2</sub>O – Soil Test or Table 3 (AG Table 1.2-8)</small>				Soil Tests
<b>B) Fertilizer Applied (lb/A)</b> <small>(Regardless of Manure e.g. Starter)</small>				Crop Removal
<b>C) Other Organic Sources Applied (lb/A)</b> <small>(e.g. Biosolids, Other Manure)</small>				<b>Application Record &amp; Notes</b> <small>Record when the planned manure and fertilizer rates were applied or note changes.</small>
<b>D) Residual Manure N (lb/A)</b> <small>Table 4 (AG Table 1.2-14B)</small>				
<b>E) Previous Legume N (lb/A)</b> <small>Table 5 (AG Table 1.2-6) or Soil Test Report</small>				
<b>F) Net Nutrient Requirement (lb/A)</b> <small>(A – B – C – D – E)</small>				
<b>G) Manure Nutrient Content (lb/ton or lb/1000gal)</b>				
<b>H) Nitrogen Availability Factor</b> <small>Table 6 (AG Table 1.2-14A)</small>				
<b>I) Available Nitrogen (lb/ton or lb/1000gal) (G x H)</b>				
<b>J) Balanced Manure Rate (tons/A or gallons/A)</b> <small>For N: (F ÷ I) For P: (F ÷ G)</small>				
<b>K) Planned Manure Rate (tons/A or gallons/A)</b> <small>Must be less than or equal to the appropriate Balanced Rate based on the plan basis being used</small>				
<b>L) Nutrients Applied at Planned Rate (lb/A) For N: (K x I) For P &amp; K: (K x G)</b>				
<b>M) Nutrient Balance at Planned Rate (lb/A) (F - L) (Indicate short or excess)</b>				

<sup>1</sup> Completion of N column required for all options; P<sub>2</sub>O<sub>5</sub> column is optional for N based rates; K<sub>2</sub>O is optional for all rates.

## Appendix 1

# Operation Maps

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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).

**Appendix 2**  
**Phosphorus Index**

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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.