

Manure Management Plan Nutrient Balance Worksheet

Crop Group	Yield	Fields where this crop group and manure group can be used.	
Manure Rate Planning Basis (check planning option)	OPTION 1 P Removal	OPTION 2 N Based	OPTION 3 P Index
	<ul style="list-style-type: none"> Crop Phosphorus Removal Rates No soil tests required or Fields with soil tests > 200 ppm P 	<ul style="list-style-type: none"> Nitrogen Based Rates Soil tests required Fields with soil test < 200 ppm P 	<ul style="list-style-type: none"> P Removal or N Based Rates Soil tests required Determined by required P Index evaluation of each field
	(Use the P ₂ O ₅ column to determine acceptable rate)	(Use the N column to determine acceptable rate)	(Use appropriate column based on the P Index to determine acceptable rate)
Manure Group	Application Season		Incorporation Timing

Completion of N column required for all options; P₂O₅ column is optional for N based rates; K₂O is optional for all rates.

	N	P ₂ O ₅	K ₂ O
A) Recommendation or Removal (lb/A) N – Soil Test or Tables 1 & 2 (AG Table 1.2-6;1.2-8) P ₂ O ₅ & K ₂ O – Soil Test or Table 3 (AG Table 1.2-9)			
B) Fertilizer Applied (lb/A) (Regardless of Manure e.g. Starter)			
C) Other Organic Sources Applied (lb/A) (e.g. Biosolids, Other Manure)			
D) Residual Manure N (lb/A) Table 4 (AG Table 1.2-14B)			
E) Previous Legume N (lb/A) Table 5 (AG Table 1.2-7) or Soil Test Report			
F) Net Nutrient Requirement (lb/A) (A – B – C – D – E)			
G) Manure Nutrient Content (lb/ton or lb/1000gal) Table 6 (AG Table 1.2-13) or Manure Analysis Report			
H) Nitrogen Availability Factor Table 7 (AG Table 1.2-14A)			
I) Available Nitrogen (lb/ton or lb/1000gal) (G x H)			
J) Balanced Manure Rate (tons/A or gallons/A) For N: (F ÷ I) For P: (F ÷ G)			
K) Planned Manure Rate (tons/A or gallons/A) Must be less than or equal to the appropriate Balanced Rate for the Manure Rate Planning Basis being used			

The “Nutrient Balance at Planned Rate” below is used to determine additional fertilizer needs at the planned manure rate. The N column must be completed to determine additional nitrogen (N) fertilizer needs. Completion of the P₂O₅ and K₂O columns is optional and should be used to determine additional P₂O₅ and K₂O fertilizer needs **ONLY** if soil test recommendations were used in (Row A).

L) Nutrients Applied at Planned Rate (lb/A) For N: (K x I) For P & K: (K x G)			
M) Nutrient Balance at Planned Rate (lb/A) (F - L) (Indicate short or excess)			