

Nutrient Application Calculations

I. Field Information and P Index Part A

Crop Year: _____

CMU/ Field ID	Acres	Crop	Planned Yield	P-Index Part A			Planning Consideration Notes
				Is the CMU in a Special Protection Watershed?			
				Is there a significant farm management change as defined by Act 38?			
				Is the Soil Test Mehlich-3 P greater than 200 ppm P?			
				Is the Contributing Distance from this CMU to receiving water less than 150 ft.?			
		Soil Test P Mehlich-3 ppm	Did you answer yes to any of the questions above (Yes or No)	P Index Part B (N-Based or Part B)			

II. Determining Other Nutrient Contributions

Crop Year: _____

CMU/ Field ID	Soil Test Recommendation			Other Fertilizer ¹			Manure History Description ²	Residual Manure N ³	Legume History Description	Residual Legume N ⁴
	lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A	lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A		lb N/A		lb N/A

¹ Fertilizer applied regardless of manure application.
² Manure and all other organic sources of nitrogen.
³ Agronomy Guide Table 1.2-14B or Table 1.2-15 (include calculations in Appendix 11)
⁴ Agronomy Guide Table 1.2-8 or Soil Test Report

III. Calculating N-Balanced Manure Rate

Crop Year: _____

CMU/ Field ID	Net Nutrients Required			Manure Group	Application Season	Incorporation	Incorp. Factor	Avail. N	N Balanced Manure Rate
	lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A					lb/ton or lb/1000gal	ton or gal/A

IV. Calculating P-Based Manure Rate for Fields Requiring Part B of the P Index

Crop Year: _____

CMU/ Field ID	Proposed ¹ Manure Rate for P Index Part B Evaluation	Proposed Rate P Applied (Entered in P Index ²)	Yield	P Removal/ Unit of Yield	Crop Removal P	Starter P Applied	Net P for P Removal Manure Rate	Net P Removal Manure Rate ³	P Manure Rate for PI<80 ⁴	Planned P Rate ⁵	P Applied at Planned P Rate ⁶	
	ton or gal/A	lb P ₂ O ₅ /A										bu or ton/A

¹ This would be the preferred Planned Manure Rate if there are no P Index restrictions. The P applied at this rate must be entered into the P Index to determine if it is acceptable P management.

² If this rate of P is acceptable in the P Index, go directly to worksheet V and enter the proposed rate as the "Planned Manure Rate" and continue, no further calculations are required on this worksheet.

³ P Balanced Manure Rate to meet the Net P Removal amount. Required for P Index 80-99.

⁴ This is a rate that is greater than P Removal but less than the N Balanced Rate that would result in a P Index <80. Optional

⁵ Choose a rate less than or equal to the net P Removal or P Index <80 columns. This is transferred to the Planned rate column on Worksheet V.

⁶ For P Index 80-99 this must be less than the Net P for P Removal Manure Rate column.

V. Nutrients Applied in Manure and Balance

Crop Year: _____

CMU/ Field ID	Planned Manure Rate ¹	Manure Utilized on This CMU	Planned Rate Basis ² N or P	P Index Value if Part B ³ Required	Manure Nutrients Applied at Planned Rate			Nutrient Balance After Manure at Planned Rate		
	ton or gal/A	ton or gal			lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A	lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A

¹ Use the P calculation sheet (IV) to calculate a P based rate if the field is P restricted by the P Index (>80). Provide documentation for irrigated manure or rates greater than 9000 gal/acre.

² Indicate whether the Planned Rate is based on N (P Index Part A only or P Index Part B<80) or if it is restricted by P Index Part B.

³ For all fields that require Part B of the P Index, enter the final P Index Value for the Planned Manure Rate here.

VI. Supplemental Fertilizer and Final Nutrient Balance

Crop Year: _____

CMU/ Field ID	Supplemental Fertilizer			Final Nutrient Balance			Notes
	lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A	lb N/A	lb P ₂ O ₅ /A	lb K ₂ O/A	