

Appendix E Table 2 of Rule 901:10-2-14: Phosphorus Soil Test Risk Assessment Procedure

Nitrogen and Phosphorus Application Criteria For Manure

Criteria Applicable to All Soil Test Levels:

1. Nitrogen application rates from manure shall be based on Total Ammonium Nitrogen Content plus 1/3 of the Organic Nitrogen calculated at time of application when applied during the summer, fall or winter for spring planted crops. When applied in the spring for spring planted crops the nitrogen application rate can be adjusted to apply the recommended nitrogen within the P₂O₅, K₂O, and other limitations.
2. Nitrogen rates are not to exceed the succeeding crop's recommended Nitrogen for non-legume crops or the Nitrogen removal in the crop's biomass for legume crops.
3. All applications are based on current soil test results (not more than 3 years old).
4. No manufactured P₂O₅ applied above 40 ppm Bray P1 or equivalent test, unless recommended by appropriate industry standards or the land grant universities for specialty crops, vegetable crops, etc.
5. Manure shall be applied in accordance with the restrictions and setbacks in Appendix A Table 2 of this rule.

"P" Soil Test Level	Application Criteria
Bray P1 < 40 ppm (< 80 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	<p>Recommended N or P₂O₅</p> <p>Manure can be applied to meet the succeeding crop's recommended nitrogen requirements for non-legume crops or the nitrogen removal for legume crops or recommended P₂O₅ but not to exceed the nitrogen needs of the succeeding crop.</p>
Bray P1 40-100 ppm (80 -200 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	<p>Recommended N or P₂O₅ removal whichever is less.</p> <p>The field shall have > 30% ground cover at the time of application or the manure shall be incorporated within one week. The manure can be applied to meet the succeeding crop's recommended nitrogen requirements for non-legume crops or the nitrogen removal for legume crops; or P₂O₅ removal (annual or multiple year applications) whichever is less.</p>
BrayP1 100-150ppm (200-300 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	<p>Recommended N or P₂O₅ removal whichever is less.</p> <p>Manure shall be applied so as not to exceed the succeeding crop's recommended nitrogen requirements for non-legume crops or the nitrogen removal for legume crops; or annual P₂O₅ removal, whichever is less.</p>
BrayP1 > 150 ppm (> 300 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	<p>1. No additional P₂O₅ - Use P₂O₅ drawdown strategies;</p> <p style="text-align: center;">or</p> <p>2. Shall use the P Site Assessment in Appendix E Table 1.</p>

Source: USDA-NRCS (2001). Field Office Technical Guide - Conservation Practice Standard. Section 1. Columbus, OH.