

## 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  $P_2O_5$ ,  $K_2O$ , 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  $P_2O_5$  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)	<b>Recommended N or <math>P_2O_5</math></b> 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 $P_2O_5$ but not to exceed the nitrogen needs of the succeeding crop.
Bray P1 40-100 ppm (80 – 200 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	<b>Recommended N or <math>P_2O_5</math> Removal whichever is less.</b> 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 $P_2O_5$ removal (annual or multiple year applications) whichever is less.
Bray P1 100-150 ppm (200-300 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	<b>Recommended N or <math>P_2O_5</math> Removal whichever is less.</b> 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 $P_2O_5$ removal, whichever is less.
Bray P1 > 150 ppm (> 300 Lbs/Ac) OR Other Equivalents (e.g. Mehlich 3)	1. No additional $P_2O_5$ – Use $P_2O_5$ Draw-down Strategies; or 2. Shall use the P Site Assessment in Appendix E Table 1.

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