Appendix E to rule OAC 901:10-2-14: Phosphorus Soil Test Risk Assessment Procedure

		Low Risk	Moderate Risk	High Risk	Very High Risk
Rate	Soil Test Phosphorus[1] (STP)	<50 ppm (<100 lbs/acre) Mehlich-3	Between 50-120 ppm (100-240 lbs/acre) Mehlich-3	Between 120-200 ppm (240-400 lbs/acre) Mehlich-3	>200ppm (>400 lbs/acre) Mehlich-3
	Rate of P_2O_5 Application[2]	Recommended P_2O_5 250 lbs P_2O_5/acre maximum annual application limit	< P_2O_5 Removal (annual or multiple year crop rotation)[4] 250 lbs P_2O_5/acre maximum annual application limit	< 50% P_2O_5 Removal (annual, single-year crop)[4]	P_2O_5 application prohibited except for those applications made in accordance with note (3) below
Placement	Minimum ground cover at time of application	> 30% ground cover or growing crop/cover crop	> 30% ground cover or growing crop/cover crop	> 50% ground cover or growing crop/cover crop	Growing crop or cover crop
	-OR-				
	Incorporation within 24-hours or Injection	Incorporation within 24-hours or immediate injection is required if minimum ground cover is not met for surface application.			Not Applicable

1) All applications are based on current soil test results (not more than 3 years old). Mehlich-3 is the primary soil P extractant method in Ohio. To convert from Bray-P1 to Mehlich-3, use the following equation: *M3=(Bray P1)*(1.35)*
2) Nitrogen application rates from manure shall be calculated at the time of application. The application rate of manure cannot exceed the succeeding crop's Nitrogen recommendations for non-legume crops or the Nitrogen removal in the succeeding crop's biomass for legume crops. Additionally, for succeeding legume crops, the maximum Nitrogen application rate is limited to 150 lbs/acre. *Refer* to OAC 901:10-2-14(D)(2).
3) At a Very High Risk, dilute wastewater or other liquid manure effluents with a concentration of 1 pound of P_2O_5/1,000 gallons or less may be applied through irrigation to a growing crop. Maximum annual P_2O_5 application rate can be no greater than the lesser of 50% crop P_2O_5 removal or 35 lbs P_2O_5/acre. Solid manure application is prohibited.
4) No additional P_2O_5 from any source can be applied until the original applied P_2O_5 has been completely utilized by the succeeding crop or crop rotation.

Sources: (~~1~~a) USDA-NRCS, Ohio Conservation Practice Standard 590, Nutrient Management (December 2020)

(~~2~~b) USDA-NRCS, Ohio Nutrient Management Technical Note (November 2020)

(~~3~~c) Tri-State Fertilizer Recommendations (The Ohio State University Bulletin 974, 2020)