

Manure Management



To be eligible for H2Ohio's Manure Incorporation and Utilization practice, fields receiving a manure application must have soil test phosphorus levels at or below 50 ppm and application rates must follow Tri-State and NRCS 590 standards. H2Ohio's manure practices are developed with assistance from an SWCD technician and encourage farmers to assess their farms prior to application. This results in optimizing nutrient usage and lowers the chances of nutrients moving offsite.

Why Manure Application Rates Vary



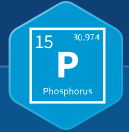
Soil test phosphorus (STP) levels



Tri-State Fertilizer recommendations



NRCS 590 Standards



Phosphorus Risk Assessment

The Ohio Phosphorus (P) Risk Assessment process is based on classifying fields by soil test P, implementing higher levels of conservation with higher soil test P levels, and implementing strategies that will drawdown STP if it is greater than the Tri-State Guide maintenance limit.

Risk Level	STP (Mehlich III)	P Application	Management Strategy
Lower Risk	<50 ppm	≤ P recommendation 250 lb P ₂ O ₅ /ac annual application limit	Build-up & maintenance Follow Tri-State
Moderate Risk	50-120 ppm	≤ P removal (annual or multiple year crop rotation) 250 lb P ₂ O ₅ /ac annual application limit	Adaptive P management: Drawdown STP over time
Higher Risk	120-200 ppm	≤ 50% P removal (annual or multiple year crop rotation) 125 lb P ₂ O ₅ /ac annual application limit	Short term P application to facilitate change
Very High Risk	200+ ppm	No P application	Drawdown STP over time

Manure applications made to fields with STP results greater than 50 ppm Mehlich III should only happen on operations producing manure with a CNMP and on a short-term basis while other management changes are made.

Adaptive P Management



Manure application rates may not exceed the next crop year's N requirement or the most limiting factor (Table 3, Ohio CPS 590), regardless of P rate.

Implement drawdown strategies to reduce STP over time.

Keep sample timing, depth, and frequency consistent.

If STP isn't trending downward, reduce or stop P applications until it does.