

PENNSTATE



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04/06/2010		S09-29926		Centre		Tudek Veg Gdn	
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Soil Nutrient	Below Optimum	Optimum	Above Optimum
Soil pH	██████████		
Phosphate (P ₂ O ₅)	██████████		
Potash (K ₂ O)	██████████		
Magnesium (MgO)	██████████		
Calcium(CaO)	██████████		

Limestone, Calcium And Magnesium Recommendations

Apply the following quantities of limestone, epsom salts and/or gypsum to the soil to correct soil pH, calcium and magnesium levels.

Calcitic Limestone: 9 lb/100 square feet
 (0-3 % Mg)

Magnesium: Magnesium requirement can be met by replacing the **CALCITIC LIMESTONE** recommended above with an equivalent amount of **DOLOMITIC LIMESTONE** -OR- by applying .4 lb/100 sq feet of **EPSOM SALTS (MGSO₄)** in addition to the amount of calcitic limestone recommended.

Gypsum (CaSO₄): NONE

Nitrogen, Phosphate And Potash Recommendations

Apply 1.5 lbs per 100 square feet of 10-10-10.

NOTES:

The above lime and fertilizer recommendations are for this soil sample and this season only. Nitrogen, phosphate and potash recommendations are for fertilizers containing specific ratios of nitrogen (N), phosphate (P₂O₅) and potash (K₂O). As an example 5-10-10 contains 5 % N, 10 % P₂O₅, and 10 % K₂O. If fertilizers with the ratio(s) shown are not available, contact your local garden center or fertilizer supplier for the appropriate substitution.

The Cation Exchange Capacity (CEC) is the capacity of the soil to hold positively charged cation such as K⁺, Mg⁺⁺ and Ca⁺⁺. If the CEC of your soil is less than 15.0 (see laboratory results below) add one inch of organic matter. If soil pH is greater than 7.0, use acid peat moss as the organic matter source.

pH	P lb/A	Exchangeable Cations (meq/100g)					% Saturation of the CEC			Organic Matter %	Nitrate-N ppm	Soluble salts mmhos/cm
		Acidity	K	Mg	Ca	CEC	K	Mg	Ca			
5.7	498	5.7	0.6	0.9	5.1	12.3	5.0	7.3	41.5			

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