

Virginia Tech's Soil Test Report

Virginia Cooperative Extension Soil Test Report

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SEE NOTES:
1 3
at www.soiltest.vt.edu under Report Notes

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SAMPLE HISTORY

Sample ID	Field ID	LAST CROP		LAST LIME APPLICATION		SOIL INFORMATION				
		Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
8	Pasture N	Native or Unimproved Pasture (42)		---		28C3 55	28B3 45			IV

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	3	129	1069	216	1.0	32.6	0.6	33.4	0.2	
Rating	L-	M	M	H+	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil pH	Buffer Index	Est.-CEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Result	5.7	6.18	5.0	26.0	74.0	53.1	17.7	3.3	2.4

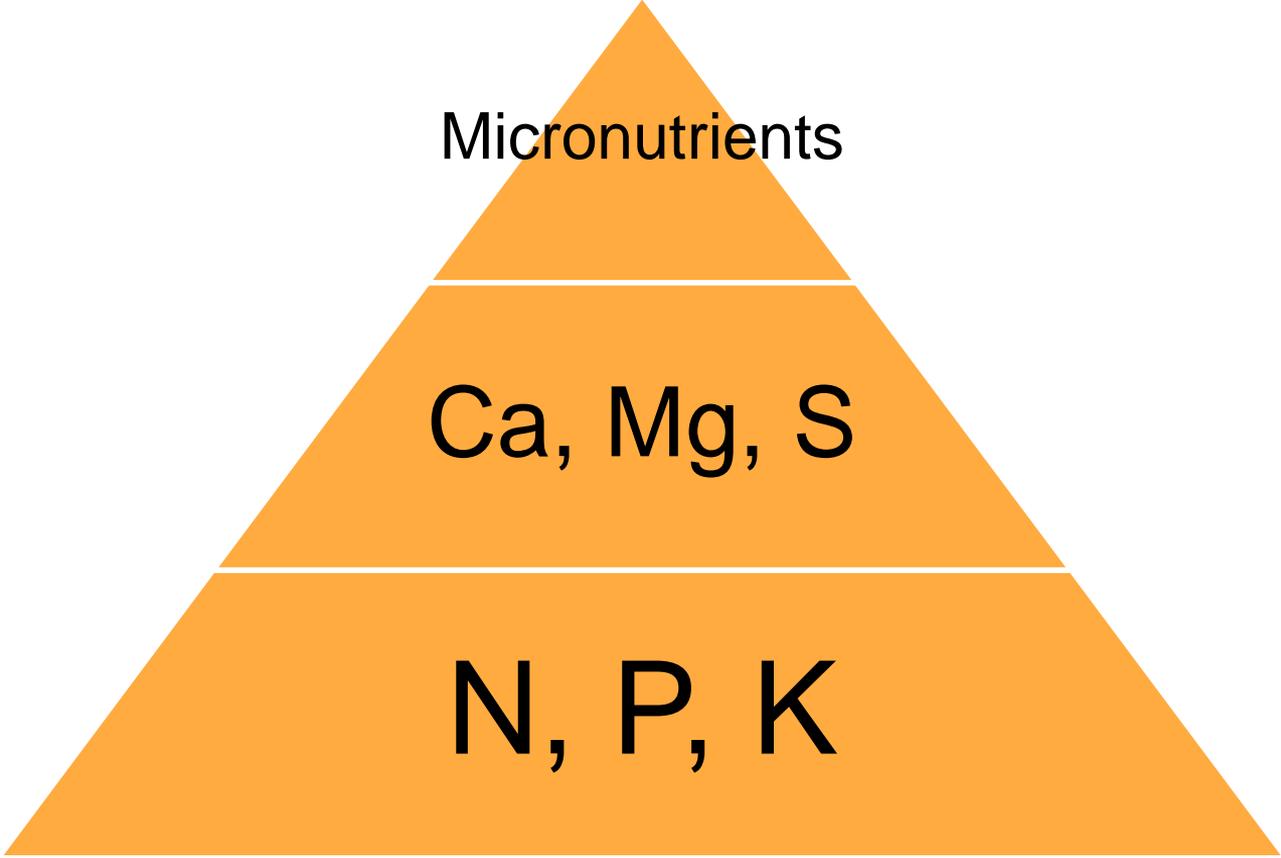
FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Stockpiled Tall Fescue (45)

Lime, Tons/Acre		Fertilizer, lb/A	
Amount	Type	N	P2O5 K2O
1.5	AG	See Comment	60 40

991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes

140. N Recommendation: 40-60 lb/A. Apply the N in August. Where clover makes up more than 25% of the stand, use the 40 lb N rate. If clover is not present and you desire maximum production, apply the 60 lb N rate.

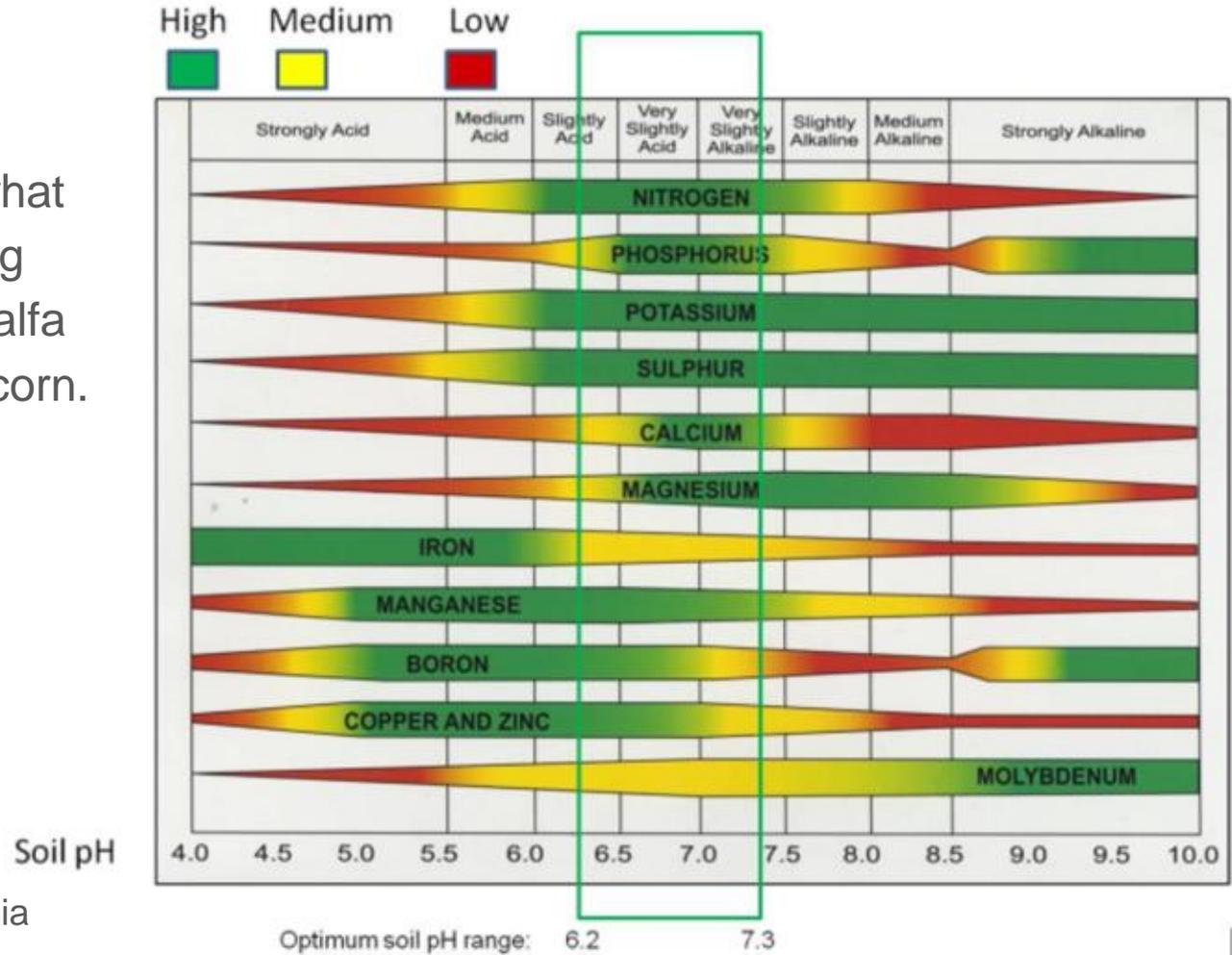


----pH----

How soil pH affects availability of plant nutrients

pH

Target pH depends on what you want to grow... liming recommendations for alfalfa will be different than for corn.



pH

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FERTILIZER AND LIMESTONE RECOMMENDATIONS

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Lime, Tons/Acre	
Amount	Type
1.5	AG

Fertilizer, lb/A		
N	P205	K20
See Comment	60	40

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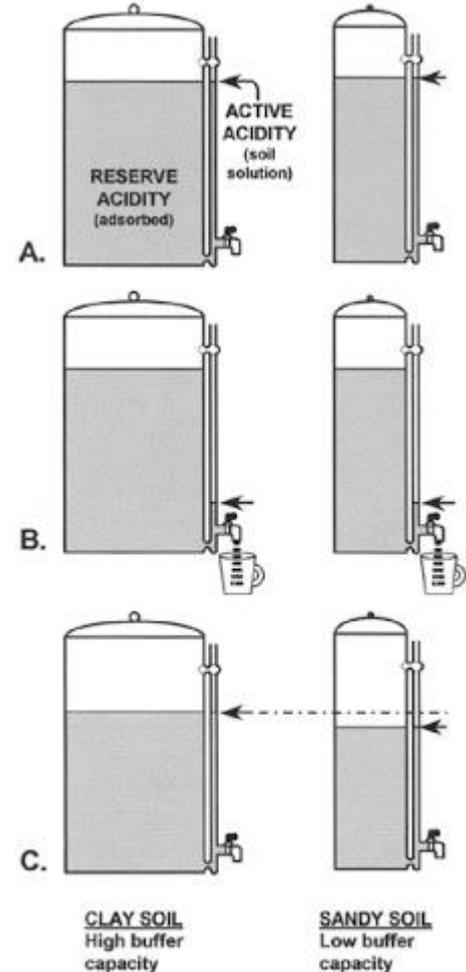
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Buffer Index

Provide an indication of the soil's total (active + reserve) acidity and ability to resist a change in pH

Major factor in determining the amount of lime to apply

A sandy soil and a clay soil can have the same soil pH; however, the clay soil will have greater reserve acidity (and a lower Buffer Index) and the clay soil will require a greater quantity of lime to be applied in order to raise the soil pH the same amount as the sandy soil.





Lime Recommendations

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CEC

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CEC (Cation Exchange Capacity)

A measure of the amount of attraction between soil particles and positively charged chemical elements, expressed in milliequivalents of charge per 100g soil
(indication of a soil's ability to hold some nutrients against leaching)

Low CEC: 1-10 meq/100g, High CEC: 11-50 meq/100g

Acidity and *base saturation* tell you the composition of those positively charged elements

Est.-CEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
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OM

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How Does Parts Per Million (ppm) Relate to Pounds Per Acre?

One acre of soil to a 6-inch depth weighs approximately 2 million pounds.

One ppm in 2 million pounds is 2 pounds.

To convert ppm to pounds per acre, multiply by two.

To convert pounds per acre to ppm, divide by 2.

Micronutrients

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Micronutrients

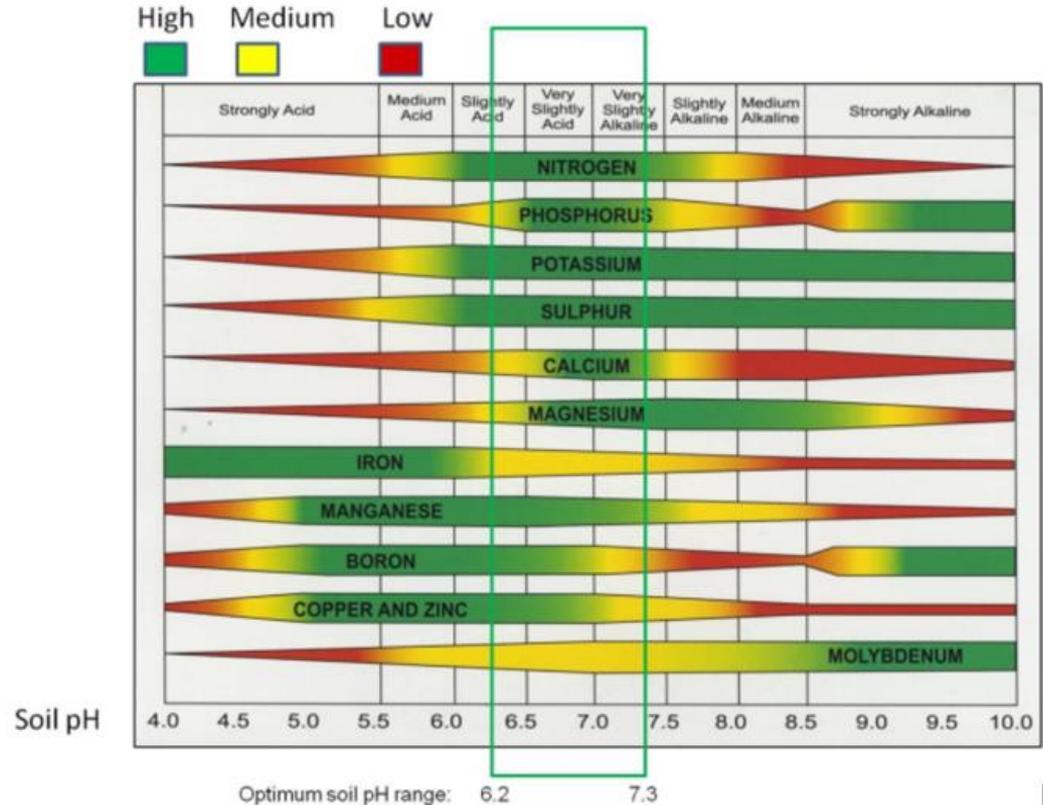
Iron, Manganese, Copper, Zinc, Boron

“Sufficient” or “insufficient”

The best way to manage these micronutrients is to manage pH

The most commonly seen micronutrient deficiencies in Virginia are B and Mo in alfalfa

How soil pH affects availability of plant nutrients



Calcium

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FERTILIZER AND LIMESTONE RECOMMENDATIONS

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Amount	Type
1.5	AG

Fertilizer, lb/A		
N	P205	K20
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Magnesium

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FERTILIZER AND LIMESTONE RECOMMENDATIONS

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Phosphorus Recommendations

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FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Stockpiled Tall Fescue (45)

Lime, Tons/Acre		Fertilizer, lb/A	
Amount	Type	N	K20
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Potassium Recommendations

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Fertilizer, lb/A		
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Comment		

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Nitrogen Recommendations

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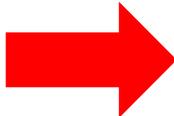
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Why is there no Nitrogen test result?

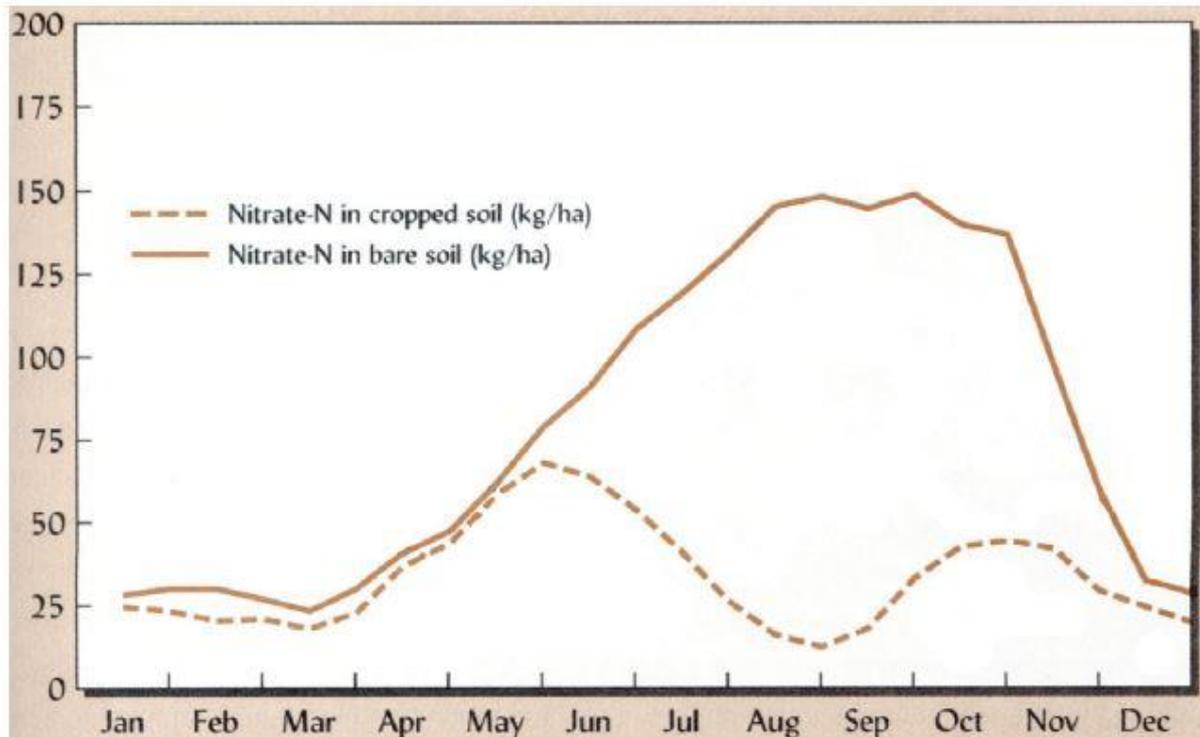


Figure 1. Typical seasonal pattern of nitrate concentration in representative surface soil layers with and without growing plants for soils typical in humid temperate regions that have cool winters and rainfall uniformly distributed throughout the year (based on Brady and Weil, 1996).

Sulfur



Three-Year Average of Total Sulfur Deposition

