

HOLMES LABORATORY INC.  
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SOIL  
ANALYSIS REPORT  
[Quality Testing Since 1978]  
(330) 893-2933 \* www.holmeslab.com  
Test Performed : A

Customer : Groeschl Ag Service

Groeschl Ag Service-A.Groeschl  
10271 N. County Rd. K  
Hayward, WI 54843

Date Reported : 05/15/2020  
Lab Number : 20-3619  
Sample ID: SOIL  
Letzan

Item	Units	Test Results	Comments
pH		5.4	
Lime Test Index		65	
Organic Matter	%	3.1	
Phosphorus (P1)	lb/a	55	
Potassium (K)	lb/a	92	Apply 1/2 of the required Lime
Magnesium (Mg)	lb/a	128	this Spring of High Magnesium
Calcium (Ca)	lb/a	1438	Lime that contains about 12%
Sodium (Na)	lb/a	163	Magnesium. Also apply 1/2 of
Soluble Salts (EC)	mmho/cm		the required Lime next Fall
Cation Exchange Capacity (CEC)	meq/100g	10.6	of High Calcium Lime that
Base Saturation	%	43	contains about 38% Calcium.
Potassium (K)	%	1.1	
Magnesium (Mg)	%	5.0	
Calcium (Ca)	%	33.9	
Sodium (Na)	%	3.3	
Hydrogen (H)	%	56.6	
Sulfur (SO4)	lb/a		
Zinc (Zn)	lb/a		
Manganese (Mn)	lb/a		
Iron (Fe)	lb/a		
Copper (Cu)	lb/a		
Boron (B)	lb/a		
Ca to Mg Ratio		6.7	
Mg to K Ratio		4.5	
Nitrate-Nitrogen (NO3-N)	lb/a		

\*\*\* Retest every year at the same time and depth \*\*\*

#### Lime and Fertilizer Recommendations

Lime Needed = 3.9 tons/acre  
For Crop: Hay  
Yield Goal: 3 tons/ac  
Actual Units Of Fertilizer Needed For This Crop Growing Year

Lime requirements are to bring your soil pH to the ideal level. (See Comments Above for what type of lime to apply)

Nitrogen (N) 23 lbs/acre  
Phosphate(P2O5) 47 lbs/acre  
Potash (K2O) 141 lbs/acre  
Magnesium (Mg) 177 lbs/acre

Note : See your local Ag Supplier for assistance with what type of fertilizer to use.

Apply 1/2 of fertilizer after 1st cutting and the other 1/2 after the 2nd cutting.