

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

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

Date Reported : 05/02/2019
Lab Number : 19-2736
Sample ID: SOIL
Naylor North

Item	Units	Test Results	Comments
pH		5.1	
Lime Test Index		62	
Organic Matter	%	3.9	
Phosphorus (P1)	lb/a	34	
Potassium (K)	lb/a	189	Apply 1/2 of the required Lime
Magnesium (Mg)	lb/a	102	this Spring of High Magnesium
Calcium (Ca)	lb/a	928	Lime that contains about 12%
Sodium (Na)	lb/a	275	Magnesium. Also apply 1/2 of
Soluble Salts (EC)	mmho/cm		the required Lime next Fall
Cation Exchange Capacity (CEC)	meq/100g	13.2	of High Calcium Lime that
Base Saturation	%	27	contains about 38% Calcium.
Potassium (K)	%	1.8	
Magnesium (Mg)	%	3.2	
Calcium (Ca)	%	17.6	
Sodium (Na)	%	4.4	
Hydrogen (H)	%	72.8	
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		5.5	
Mg to K Ratio		1.8	
Nitrate-Nitrogen (NO3-N)	lb/a		

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

Lime and Fertilizer Recommendations

Lime Needed = 4 tons/acre
For Crop: Orchard Grass
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)	3	lbs/acre
Phosphate(P2O5)	68	lbs/acre
Potash (K2O)	124	lbs/acre
Magnesium (Mg)	278	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.