

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 : 19-2738
 Sample ID: SOIL
 Naylor West

Item	Units	Test Results	Comments
pH		5.2	
Lime Test Index		64	
Organic Matter	%	3.5	
Phosphorus (P1)	lb/a	13	
Potassium (K)	lb/a	97	Apply 1/2 of the required Lime
Magnesium (Mg)	lb/a	122	this Spring of High Magnesium
Calcium (Ca)	lb/a	954	Lime that contains about 12%
Sodium (Na)	lb/a	245	Magnesium. Also apply 1/2 of
Soluble Salts (EC)	mmho/cm		the required Lime next Fall
Cation Exchange Capacity (CEC)	meq/100g	10.8	of High Calcium Lime that
Base Saturation	%	33	contains about 38% Calcium.
Potassium (K)	%	1.2	
Magnesium (Mg)	%	4.7	
Calcium (Ca)	%	22.2	
Sodium (Na)	%	4.8	
Hydrogen (H)	%	67.0	
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		4.7	
Mg to K Ratio		4.1	
Nitrate-Nitrogen (NO3-N)	lb/a		

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

Lime and Fertilizer Recommendations

Lime Needed = 4 tons/acre
 Lime requirements are to bring your soil pH to the ideal level. (See Comments Above for what type of lime to apply)

For Crop: Orchard Grass
 Yield Goal: 3 tons/ac
 Actual Units Of Fertilizer Needed For This Crop Growing Year

Nitrogen (N)	13	lbs/acre
Phosphate(P2O5)	89	lbs/acre
Potash (K2O)	141	lbs/acre
Magnesium (Mg)	189	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.