

HOLMES LABORATORY INC.  
3559 US 62  
Millersburg, OH 44654

SOIL  
ANALYSIS REPORT  
[A Vital Key to Today's Agriculture]  
(330) 893-2933 \* www.holmeslab.com  
Test Performed : AB

Customer : Groeschl Ag

Groeschl Ag Service-A.Groeschl  
13920 W State Rd.77  
Hayward, WI 54843

Date Reported : 10/26/2015  
Lab Number : 15-2632  
Sample ID: SOIL  
Andy Alfalfa

Item	Units	Test Results	Comments
pH		6.7	
Lime Test Index		70	
Organic Matter	%	4.5	
Phosphorus (P1)	lb/a	127	
Potassium (K)	lb/a	235	
Magnesium (Mg)	lb/a	286	
Calcium (Ca)	lb/a	4549	
Sodium (Na)	lb/a	20	
Soluble Salts (EC)	mmho/cm		
Cation Exchange Capacity (CEC)	meq/100g	12.9	
Base Saturation	%	100	
Potassium (K)	%	2.3	
Magnesium (Mg)	%	9.2	
Calcium (Ca)	%	88.1	
Sodium (Na)	%	.3	
Hydrogen (H)	%	.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	.3	
Ca to Mg Ratio		9.5	
Mg to K Ratio		4.0	
Nitrate-Nitrogen (NO3-N)	lb/a		

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

#### Lime and Fertilizer Recommendations

Lime Needed = 0 tons/acre

For Crop: Hay  
Yield Goal: 4 tons/ac  
Actual Units Of Fertilizer Needed For This Crop Growing Year

Nitrogen (N)	23	lbs/acre
Phosphate(P2O5)	14	lbs/acre
Potash (K2O)	63	lbs/acre
Magnesium (Mg)	86	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.