

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 : 19-2744
Sample ID: SOIL
Andy Small

| Item | Units | Test Results | Comments |
|--------------------------------|----------|--------------|----------|
| pH | | 6.6 | |
| Lime Test Index | | 69 | |
| Organic Matter | % | 3.1 | |
| Phosphorus (P1) | lb/a | 70 | |
| Potassium (K) | lb/a | 265 | |
| Magnesium (Mg) | lb/a | 179 | |
| Calcium (Ca) | lb/a | 2152 | |
| Sodium (Na) | lb/a | 250 | |
| Soluble Salts (EC) | mmho/cm | | |
| Cation Exchange Capacity (CEC) | meq/100g | 8.2 | |
| Base Saturation | % | 85 | |
| Potassium (K) | % | 4.1 | |
| Magnesium (Mg) | % | 9.1 | |
| Calcium (Ca) | % | 65.5 | |
| Sodium (Na) | % | 6.5 | |
| Hydrogen (H) | % | 14.6 | |
| 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 | | 7.2 | |
| Mg to K Ratio | | 2.2 | |
| 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: Orchard Grass
Yield Goal: 3 tons/ac

Actual Units Of Fertilizer Needed For This Crop Growing Year

| | | |
|-----------------|----|----------|
| Nitrogen (N) | 23 | lbs/acre |
| Phosphate(P2O5) | 32 | lbs/acre |
| Potash (K2O) | 48 | lbs/acre |
| Magnesium (Mg) | 57 | 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.