

University of Minnesota

Soil Testing Laboratory

Agricultural Liming Material Analysis Report

Sample Name	% Passing 8 Mesh	% Passing 20 Mesh	% Passing 60 Mesh	FI ¹	TNP ² %	ENP ³ %	Moisture ⁴ %	LBS. ENP/Ton
122216CPD	97.9	94.8	84.6	91.3	132.0	120.5	0.1	2409

¹ Fineness Index (FI) is an expression that takes into account the fact that large particles are less effective in neutralizing soil than small particles. [For example, particles larger than 8 mesh do not contribute to the ALM's neutralizing ability and particles smaller than 60 mesh are rated as completely effective].

² Total Neutralizing Power (TNP) [same as Calcium Carbonate Equivalent (CCE)] indicates the neutralizing value of the material as compared to Calcium Carbonate which has a value of 100 percent. The higher the percentage, the more effective the material.

³ The Effective Neutralizing Power (ENP) provides a single value which can be used in comparing quality of different liming materials. It is based on a combination of the particle size distribution and the CCE, expressed as a percent. [ENP = FI/100 X CCE]

⁴ Expressed on a dry weight basis.

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FERTILIZER REPORT**DAIRYLAND LABORATORIES, INC.****Arcadia, WI 54612****Telephone 608-323-2123****DATE: 10/18/2018****SAMPLE: 001-1810-037296****CUST: Tim Leisz****# 7378 (0)****CLIENT: Tim Leisz****299 9th Ave****Turtle Lake****, WI 54889****DESC: #1****TEST RESULTS:****AS-IS****LBS/TON**

NOISTURE	2.96%	
TOTAL NITROGEN	0.07%	1.40
PHOSPHORUS	0.01%	0.20
(or) PHOSPHATE	0.02%	0.40
POTASSIUM	0.05%	1.00
(or) POTASH	0.06%	1.20
CALCIUM	48.15%	963.00
MAGNESIUM	1.53%	30.60
SULFUR	0.05%	1.00
BORON	7.00 ppm	0.01
SODIUM	186.00 ppm	0.37
ZINC	4.00 ppm	0.01
IRON	679.00 ppm	1.36
MANGANESE	57.00 ppm	0.11
COPPER	< 1.00 ppm	0.00
ALUMINUM	582.00 ppm	1.16
pH	11.92	

**This sample was tested under supervision of Dairyland Laboratories.
The test results represent only the sample submitted.**

-----BILLING INFORMATION-----**SAMPLED BY: Tim Leisz****SAMPLED FOR: Tim Leisz****PRODUCT: #1****Reference: 0437817****Date: 10/18/2018****Sample: 001-1810-037296****\$ 12.00 F/M NITROGEN****\$ 9.00 F/M pH****\$ 44.00 TOTAL INVOICE****\$ 23.00 F/M MINERAL 12-PAK**