Samples Analyzed By:

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PRE-SIDEDRESS SOIL NITRATE REPORT

COOPERATIVE EXTENSION
University of Wisconsin-Extension
University of Wisconsin-Madison
Soils Department, Madison, WI

Lab Number: 12345 **Date received:** 5/1/2011

County: Bayfield **Date processed:** 6/11/2013

Send to:

Bucky Badger

LABORATORY ANALYSIS

Field ID	Sample ID	NO_3-N ppm
1	1	8.15

RECOMMENDATIONS

Nitrogen Credits for Corn[1]

PSNT Result	Soil Yield Potential[2]	
	High	Medium
ppm N	—— N Credit, lb/a ——	
≥ 21	No additional N is needed.	
18-20	100	80
15-17	60	80
13-14	35	40
11-12	10	40
≤ 10	0	0

1 Subtract these N credits from the target N application rate. The target N application rate can be determined using the Maximum Return to N (MRTN) approach outlined in Table 6.1 on page 38 of UWEX publication "Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin" (A2809).

2 To determine a soil's yield potential, consult Table 4.1 in UWEX publication "Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin" (A2809), or contact your agronomist or county agent.

Notes:

Interpretations assume a 0-12 inch sampling depth was used.

This test may underestimate the N contributions from organic N sources such as manures and previous legume crops when temperatures during the six weeks before sampling are below the long term average.

For first year corn following alfalfa, no more than 40 lb N/a should be applied for all PSNT results less than 21 ppm N.

PSNT cannot be interpreted on sand and loamy sand soils.

Wisconsin research with the PSNT shows that optimum N rates for corn are sometimes overestimated when average temperatures in May-June are more than 1 degree F below the long-term average (Andraski and Bundy, 2002). Where the PSNT is used to adjust N rates for N contributions from organic N sources in growing seasons with below normal average temperatures for May and June, users should consider the book value N credit for the manure applications or the previous legume crop together with the PSNT N credit in arriving at an N application rate decision.