ACCOUNT NUMBER

a&lgreatlakes LABORATORIES

Scientists who don't mind getting dirty.™

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PSNT SUBMITTAL FORM

SUBMITTED BY

GROWER & LOCATION INFORMATION	
GROWER	
FARM	
FIELD	
EMAIL	

LAB NUMBER (lab use only)	SAMPLE ID (max 20 char)	DATE SAMPLED	NITRATE (NO_3 N)	AMMONIUM (NH_4 N)

SAMPLING INSTRUCTIONS

Time: Take samples in the spring when the corn is 6-12 inches tall or at least a week before a planned sidedress application to allow adequate time for laboratory analysis and interpretation of the data.

Depth: Samples should be collected to a depth of 12 inches. Interpretative guidelines are based on 12 inch sample depth. Take at least 10 to 15 cores per sample unit.

Place: Since the PSNT measures the nitrate released by mineralization of organic materials, factors that affect mineralization should be considered when determining the sampled area. Factors such as soil type and slope, as well as differences in management, including intensity of artificial drainage, rates of manure application, and cropping history, should be considered when determining sampling areas. Avoid starter bands or other unusual areas. In addition, if high rates of nitrogen fertilizers have been applied pre-plant or at planting, PSNT values may not provide an accurate assessment of the nitrogen status of the soil. A general guideline is that one sample should represent no more than 15 – 20 acres.

Handling: The soil from all cores should be crushed and thoroughly mixed before a 1-2 cup subsample is removed for analysis. Samples should be shipped immediately after collection so that they may be analyzed within 2 days. Samples may be refrigerated, frozen, or dried for preservation if they cannot be shipped immediately. Do not exceed a temperature of 250°F in drying

Shipping: Ship via UPS or courier for best results. Moist samples sent Monday - Wednesday should arrive without weekend delays, which could affect results.

Interpretation: Refer to Presidedress Soil Nitrate Testing (PSNT) for Corn, our Fact Sheet No. 18, for interpretive guidelines from various state universities.