UVM Soil Nitrate Test for Corn (PSNT) (single-sample form)

The University of Vermont

Agricultural & Environmental Testing Laboratory and UVM Extension

Main contact (mailing address)	Send copy to (Extension, NRCS, consultant, etc.). OR Billing name and address (if different than Main)
Name:	Name:
Farm/Company:	Company:
Address:	Address:
City, State, Zip:	City, State, Zip:
Phone:	Phone:
E-mail:	E-mail:
Send results by: Mail ___ or E-mail ____	Send results by: Mail ___ or E-mail ____

Read the accompanying sheet of instructions very carefully! The outcome of your analysis depends on how you prepare the sample. The fee is $9 per sample; checks only, payable to: UVM (billing by prior arrangement only). See back of form for more information.

FIELD / SAMPLE IDENTIFICATION _____

Answer the following questions to help us identify any odd values or recommendations.

1. Drainage:

(1)	(2)	(3)	(4)
Droughty, deep sands, shallow rock	Well-drained	Moderately well-drained	Poorly drained

2. Manure applied this spring or applied and incorporated last fall:

	(1)	(2)	(3)	(4)	(5)
Tons/acre	0	5	10	20	30
Gallons/acre	0	2,000	4,000	8,000	12,000
Bushels-free stall/acre	0	125	250	500	750
Bushels-with bedding/acre	0	200	400	800	1,200

3. Years since sod:

(1)	(2)	(3)	(4)	(5)
1st yr. corn	2nd yr. corn	3rd yr. corn	4th yr. corn	5th yr. corn

4. If three year or less in corn—then previous sod crops:

(1)	(2)	(3)	(4)	(5)
Good legume	Poor legume	Good grass	Poor grass	Sm. grain or annual

5. Ponds of N per acre from fertilizer broadcast before sampling:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
None	20	40	60	80	100	120	150

6. Check this box if you are growing sweet corn or vegetable crops:

Instructions for sampling and preparation are on back of form (or second page)

**** Although it is not necessary to answer the questions to get a sidedress recommendation, they help us identify unusual test results that may be due to poor manure management, very poor plowed down sod, unusually high rainfall, or wet soil conditions that reduced or delayed the availability of N from manure or other sources.**

**** There is also a 5-sample form, available on our website.**

How to Sample for the Corn Nitrate Test (PSNT)

**** Sample fields when the corn is 8 to 12 inches tall. Take 15 to 20 cores per field (or sample area) to a depth of 12 inches, deeper than for the routine soil test. Take samples from midway between rows to avoid sampling the starter fertilizer bands.**

**** Dry the samples as soon as possible. Mix the sample thoroughly and remove approximately one cup of soil. Spread the sample thinly on a pie pan or cookie sheet and place in the oven at very low heat (200 degrees F) until dry. Soil can also be air-dried by spreading it very thinly on a newspaper or cookie sheet. The sample must dry within a day to avoid changing the nitrate level.**

****Place sample in a clean plastic bag. Fill out the information sheet (one per sample) and enclose it with the sample.**

**** Send or deliver the sample to the UVM Agricultural and Environmental Testing Laboratory. We will try to email (or mail) your results within 24 hours of receiving your sample (depending on how many samples arrive during the day—the lab can process a maximum of 50 samples per day).**

**** We will dry your samples for you if we receive them the same day that they are sampled. Store moist samples in a cooler with ice if you are delivering them from a distance.**

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Send samples & payment to: **University of Vermont, AETL**
262 Jeffords Hall
63 Carrigan Dr
Burlington, VT 05405-1737

If you have any questions feel free to contact us at: agtesting@uvm.edu (preferred contact method)
802-656-3030
www.uvm.edu/pss/ag_testing