



New Jersey Agricultural Experiment Station

Reason for sample submission:

- Reason for sample submission:
- nematode identification only (pre-plant)
- nematode identification only (post-plant monitoring)
- association with plant problem

Previous crop: _____

Present crop & variety: _____

Crop to be planted: _____

Sample / Field I.D. : _____

Date symptoms first appeared: _____

Date sample collected: _____

NEMATODE SOIL ASSAY SUBMISSION FORM

Plant Diagnostic Laboratory

Rutgers NJAES

PO Box 550

Milltown, NJ 08850-0550

www.njaes.rutgers.edu/services

Submitter _____

Address _____

Zip _____ County _____

Phone # _____

Fax # _____

E-mail _____

Office Use Only

Lab # _____

Date _____

Received by _____

Chk# _____

Amt. _____

METHOD OF PAYMENT:

- Bill me (commercial clients only)
Cash
Check or Money Order

- Credit Card
Credit Card No.
VISA
MasterCard

Credit card number input field

Exp. Date - Zip Code

Signature: _____

Please Check All Appropriate Boxes

Table with columns: Location, Plant Part Affected, Distribution on Plant, Symptoms. Includes checkboxes for various plant parts and symptoms.

Other: _____

Soil Information

Table with columns: Distribution in Planting, Soil Type, Soil Drainage, Cultural Practices, Terrain. Includes checkboxes for soil characteristics.

Size of Planting: _____

Chemicals Applied to Plant or Area

Table with columns: Product, Rate, Date. Rows for Fertilizer, Fungicide, Herbicide, Insecticide, Nematicide, Other.

Table with columns: Exposure, Weather Prior to Symptoms, Irrigation. Includes checkboxes for weather and irrigation details.

Have samples been sent for nutritional analysis? Yes No

Have samples been sent for disease analysis? Yes No

HOW TO SELECT AND SEND NEMATODE SAMPLES

I. **SAMPLING:** (See FS757 'Proper Sampling of Soil and Plant Tissue for Detection of Plant Parasitic Nematodes' for more details.)

Soil from *row and field crops, fallow fields, and home gardens*:

- For each field, take samples from areas with a common crop history. Areas that are different in slope, drainage, and soil type should be sampled and tested separately. Sampling areas should not exceed four acres. Larger fields should be divided into subsections and sampled separately.

- Sample root zones of affected plants at least 6-8 inches below the soil surface. Take a uniform core or thin slice of soil with a spade or soil probe. Follow a systematic pattern (Fig. 1), and sample at least 20 different locations within the sample area. Deposit the soil in a clean bucket, mix well, and submit a 1 qt. subsample in a plastic bag.

b) Soil from *established plantings (i.e., trees, shrubs, fruit crops, and turfgrasses)*: Sample each plant species separately. Collect soil from the root zone of declining plants, not dead plants.

- *Fruits and nursery crops*: Remove at least three soil cores per plant, 12 to 15 inches deep, from the fibrous root zone under the canopy of declining plants. Soil samples should be collected from blocks not exceeding four acres and containing plants of a similar species, variety, cultivar, and age. Follow a systematic sampling pattern in the block (Fig. 1), and submit a 1 qt. subsample.

- *Turfgrass*: Collect samples around the margin of the affected patch. Systematic sampling (Fig. 1) from the transition zone ensures optimum results. Soil cores should be collected from the root zone at a depth of 3-5 inches. Submit a 1 qt. subsample.

- *Individual trees and shrubs*: Following a zig-zag pattern around the dripline of each plant, collect soil from the fibrous root zone in several locations (Fig. 2). Sample at a depth of 12-15 inches. Take 10 cores for large specimens and 15 cores for row plantings. Submit a 1 qt. subsample.

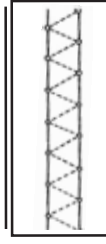


Figure 1. Sampling pattern for row and field crops, home gardens, fallow fields, turf, vineyards, or fruit and nursery blocks.

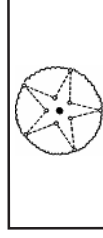


Figure 2. Sampling pattern for trees and shrubs.

II. **TIMING OF SOIL SAMPLING:**

Soil samples may be taken at any time when the soil temperature exceeds 40 F. Nematode populations are generally highest in the fall. Samples should be taken when the soil is moist, but not excessively wet or dry.

III. **PACKING/SHIPPING:**

a) Place a 1 qt. subsample of soil in a plastic bag and seal tightly to prevent drying.

b) Select a strong container, such as a corrugated box or tube, that will not crush in transit.

c) Mail samples early in the week. Samples mailed on Thursday or Friday generally remain in the post office over the weekend where high temperatures can stimulate decay.

d) Complete and enclose this sample submission form and the **appropriate payment (see below) for each sample to be analyzed**. Make checks or money orders payable to **Rutgers, The State University**. See reverse for credit card payment. (Fees are subject to change.)

V. PAYMENT:	Nematode Assay Only:	Disease/Insect & Nematode Assay (Fine & Sports Turf Only):
(All fees are per sample.)	In-state (except fine turf).....\$30	In-state\$120*
	In-state fine turf.....\$60	Out-of-state\$170*
	Out-of-state\$95	

* Combination fee applies only to samples from same green, field, etc.

IV. **MAILING ADDRESS: Be sure to use appropriate address to help ensure timely delivery.**

Physical address for

U.S. POSTAL SERVICE only:

Plant Diagnostic Laboratory

Rutgers NJAES

PO Box 550

Mililtown, NJ 08850-0550

Plant Diagnostic Laboratory

Rutgers NJAES

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20 Indyk-Engel Way**

North Brunswick, NJ 08902