



New Jersey Agricultural Experiment Station

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
<https://NJAES.RUTGERS.EDU/SERVICES>
 (732) 932-9140
RUTGERSPDL@NJAES.RUTGERS.EDU

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. _____
 Exp. Date - CVC _____

Signature: _____

Please Check All Appropriate Boxes

Location						Plant Part Affected					Distribution on Plant		Symptoms											
Athletic Field	Fallow	Farm Field	Garden	Golf Course	Greenhouse	Leaves	Branches	Roots	Fruit	Flowers	Top	Bottom	Leaf Spot	Leaf Yellowing	Leaf Scorch	Leaf Drop	Wilt	Canker	Dieback	Stunting	Abnormal Growth	Root Rot		
Landscape	Landscape Turf	Nursery	Orchard	Tree Farm	Vineyard	Other: _____						Other: _____												

Other: _____

Soil Information

Distribution in Planting					Soil Type			Soil Drainage				Cultural Practices				Terrain			
Single Plant	Most Plants	In a Group	Down Row	Random	Sandy	Loam	Clay	Good	Moderate	Poor	pH	No-Till	Conventional Till	In-ground Bed	Container	Slope	High Area	Low Area	Level

Size of Planting: _____

Chemicals Applied to Plant or Area

	Product	Rate	Date
Fertilizer	_____	_____	_____
Fungicide	_____	_____	_____
Herbicide	_____	_____	_____
Insecticide	_____	_____	_____
Nematicide	_____	_____	_____
Other	_____	_____	_____

Exposure			Weather Prior to Symptoms					Irrigation		
Full Sun	Partial Sun	Shaded	Avg. Temp.		Average Rainfall			Frequency per Week	Amount (inches)	Time of Day:
			day	night	past week	month	humidity			
										Type: _____

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.)

- a) 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.

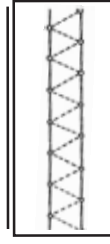


Figure 1. Sampling pattern for row and field crops, home gardens, fallow fields, turf, vineyards, or fruit and nursery blocks.

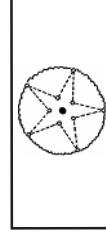


Figure 2. Sampling pattern for trees and shrubs.

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
(All fees are per sample.)	In-state (except fine turf).....\$50	(Fine & Sports Turf Only)**:
	In-state fine turf.....\$75	In-state\$150*
	Out-of-state\$100	Out-of-state\$200*

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

** Call ahead to discuss volume discounts for multiple samples. (732) 932-9140

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

OTHER DELIVERY SERVICES only:

Plant Diagnostic Laboratory
Rutgers NJAES
Ralph Geiger Turfgrass Education Center
20 Indyk-Engel Way
North Brunswick, NJ 08902