RUTGERS
New Jersey Agricultural Experiment Station

NEMATODE SOIL ASSAY SUBMISSION FORM

Plant Diagnostic Laboratory
Rutgers NJAES
20 Indyk-Engel Way, New Brunswick, NJ 08901
https://NJAES.RUTGERS.EDU/SERVICES
(732) 932-9140
RUTGERSPDL@NJAES.RUTGERS.EDU

Submitter _____
Address _____
_____
Zip _____ County _____
Phone # _____
Fax # _____
E-mail _____

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: _____

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
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. day	Avg. Temp. night	Average Rainfall past week	Average Rainfall month	Average Rainfall humidity	Frequency per Week	Amount (inches)	Time of Day:
							☐high ☐medium ☐low			Type:

050819

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.

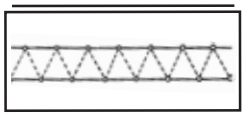

Figure 1. Sampling pattern for row and field crops, home gardens, fallow fields, turf, vineyards, or fruit and nursery blocks.

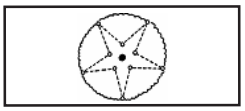

Figure 2. Sampling pattern for trees and shrubs.

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: (All fees are per sample.)

Nematode Assay Only**:	Disease/Insect & Nematode Assay (Fine & Sports Turf Only)**:
In-state (except fine turf).....$50	In-state $150*
In-state fine turf.....$75	Out-of-state $200*
Out-of-state $100	

* Combination fee applies only to samples from same green, field, etc.
** Call ahead to discuss volume discounts for multiple samples. (732) 932-9140

IV. SHIPPING ADDRESS: Please use next day shipping for timely delivery of fresh samples.

Plant Diagnostic Laboratory
Rutgers NJAES
Ralph Geiger Turfgrass Education Center
20 Indyk-Engel Way
New Brunswick, NJ 08901

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.

050819