

LOG NUMBER: _____

DATE RECEIVED: _____

SERVICE -OR- RESEARCH

**NEMATODE SAMPLE SUBMISSION FORM
NEMATODOLOGY DEPARTMENT, UC DAVIS, DAVIS, CA 95616**

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RESEARCH PLOT OR GROWER

FARM ADVISOR OR COOPERATOR

NAME: _____ NAME: _____

LOCATION: _____ COUNTY: _____

SEND COPIES TO: _____

GENERAL INFORMATION

DATE SAMPLED: _____ % OF PLANTING AFFECTED: _____

CROP: _____ VARIETY: _____ ROOTSTOCK: _____

SOIL TYPE:

- | | | |
|---|--|---|
| <input type="checkbox"/> SAND | <input type="checkbox"/> LOAM | <input type="checkbox"/> SILTY CLAY LOAM |
| <input type="checkbox"/> LOAMY SAND | <input type="checkbox"/> SILT LOAM | <input type="checkbox"/> SANDY CLAY |
| <input type="checkbox"/> SANDY LOAM | <input type="checkbox"/> SILT | <input type="checkbox"/> SILTY CLAY |
| <input type="checkbox"/> FINE SANDY LOAM | <input type="checkbox"/> CLAY LOAM | <input type="checkbox"/> CLAY |
| <input type="checkbox"/> VERY FINE SANDY LOAM | <input type="checkbox"/> SANDY CLAY LOAM | <input type="checkbox"/> CUSTOM MIX _____ |

ORGANIC CONTENT OF SOIL:

- | | | |
|------------------------------|---------------------------------|-------------------------------|
| <input type="checkbox"/> LOW | <input type="checkbox"/> MEDIUM | <input type="checkbox"/> HIGH |
|------------------------------|---------------------------------|-------------------------------|

DISTRIBUTION OF AFFECTED PLANTS:

- | | | |
|----------------------------------|--|---|
| <input type="checkbox"/> GENERAL | <input type="checkbox"/> LOCALIZED AREAS | <input type="checkbox"/> SCATTERED PLANTS |
|----------------------------------|--|---|

SYMPTOMS:

- | | | |
|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> STUNTING | <input type="checkbox"/> DIEBACK | <input type="checkbox"/> YELLOWING |
| <input type="checkbox"/> SLOW DECLINE | <input type="checkbox"/> SUDDEN COLLAPSE | <input type="checkbox"/> WILTING |
| <input type="checkbox"/> MALFORMATION | <input type="checkbox"/> ROOT GALLS | <input type="checkbox"/> OTHER: _____ |

NUMBER OF EACH TYPE OF SAMPLE:

- | | | |
|------------------------------|--------------------|------------------|
| ____ REGULAR SOIL | ____ ROOT SAMPLE | ____ CYST SAMPLE |
| ____ XIPHINEMA SAMPLE | ____ TISSUE SAMPLE | ____ EGG SAMPLE |
| ____ SPECIES I.D. FOR: _____ | | |

PLEASE LIST SAMPLES BY NUMBER. USE THE BACK OF FORM IF NECESSARY. IF THIS IS A NEW RESEARCH PLOT, PLEASE INCLUDE A PLOT MAP AND LIST OF TREATMENTS.

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

COMMENTS OR QUESTIONS: _____

PLEASE REFER TO THE SAMPLE INFORMATION SHEET, OR CONTACT OUR LAB IF MORE INFORMATION IS NEEDED ON COLLECTING, STORING AND SHIPPING SAMPLES.

Nematode Sample Information Sheet

Sample Collection Information:

- Please include approx. 1 quart of soil/sample (from root zone of affected plants)
- Root samples should be packed with soil from surrounding area. Include 1 ounce (one large handful) of small feeder roots (1/8 inch diameter or less).
- For species identification of root-knot nematode, please include roots with fresh, well-developed galls. (Plants should be at least two months old.)
- Always place label outside of sample bag.
- Keep samples cool (45-70°F) until delivered. Do not place bags in the sun. (When weather is hot, it is best to mail samples at the beginning of the week.)

Explanation of Extraction Procedures:

Soil-General Processing: Elutriation/Centrifugation -- determines number and genus of plant parasites in soil, including larval counts of root-knot and cyst nematodes.

Roots or Plant Tissue: Baerman funnel or mist chamber -- determines number and genus of plant parasites within roots or tissue.

Dagger Nematode: Elutriation/Baerman funnel -- for Xiphinema counts only.

Cyst Nematode: Elutriation/Floatation -- for Cyst counts only. Please indicate if egg counts are also required.

Species Identification: Perineal Pattern or Phastgel for Root-knot. Adult female nematodes are required for any species I.D.

Explanation of Sample Report:

All counts are expressed as # of nematodes/liter (for soil), or # of nematodes/gram (for roots or plant tissue). Correction factors are used to adjust for extraction methods and soil volumes. These correction factors vary, but for most soil samples actual counts are multiplied by 50.