



SOIL HEALTH INSTITUTE

Enriching Soil, Enhancing Life

Request for Proposals Soil Plant Pathogen Laboratory Measurements

Background

The Soil Health Institute has a project sampling soils in the Pacific Northwest potato regions, including WA, ID, and OR, for important plant pathogens. A minimum of 100 soil samples will be collected in Summer 2024.

Request

The Soil Health Institute requests proposals to measure the following metrics on 2024 soil samples:

1. Individual tests for each of the following:
 - a. Plant-parasitic nematode population counts from soil via wet-sieving and sugar centrifugation, including:
 - i. Root-knot nematodes, *Meloidogyne chitwoodi* and *Meloidogyne hapla*
 - ii. Root-lesion nematode *Pratylenchus penetrans*
 - iii. Stubby root nematodes, *Trichodorus* spp. and *Paratrichodorus* spp.
 - b. *Verticillium dahliae* via plate counts

Samples will be shipped in batches of approximately 20 samples as collected, and data delivery for each batch would be expected within one month of receipt of samples.

Specific Requirements

The proposal must specifically address the following:

1. Detailed steps, timeline, and budget for each of the items above.
2. Use of QR codes for sample tracking.
3. Example .xlsx or .csv data delivery file.

Submission

Proposals addressing each of the above requirements are to be submitted to Katherine East, Soil Health Educator, at the following address: keast@soilhealthinstitute.org. Please include "Pathogen Measurement Proposal" in the subject.

Proposals will be reviewed starting May 10, 2024.