



Oregon
Department
of Agriculture

Plant Health Program

Help us to protect Oregon Agriculture

Cyst and Root Knot Nematode Survey 2018

The ODA Plant Health Program is doing a survey for the presence of exotic pests that could harm crop and seed production in Oregon and affect trade to domestic and international markets.

How can I help?

Do you grow **barley, carrots, chickpeas, common beans, lentils, peas, potatoes, oats or wheat?**

Sign up to participate in our voluntary field survey for exotic nematodes.

An ODA inspector will collect soil samples from your field (5 pounds per surveyed acre). Samples will be tested for the presence of nematodes at the Plant Health Lab.

We will evaluate samples for exotic root knot and cyst nematodes including *Meloidogyne minor*, *M. fallax*, *M. artiellia*, *Heterodera cajani*, *H. ciceri*, *H. latipons*, *Globodera pallida* and *G. rostochiensis*.



White potato cyst nematode (*Globodera pallida*). Photo used with permission. Photographer: Bonsak Hammeraas



Root knot nematode (*Meloidogyne minor*).
Photo used with permission.
Photographer: Colin C. Fleming

Why do we need to look for these exotic nematodes in Oregon?

- The ODA is tasked with protecting agricultural industries and the environment from harmful, invasive pests and diseases and maintaining export markets for our 225 agricultural commodities.
- Infestations of nematodes could damage agriculture production or lead to market loss. For potatoes, losses are estimated up to \$40 million, including yield loss and costs for resources to control the disease.
- Nematodes are easily spread – any way soil can move, nematodes can move, too. Identifying infested fields and prompt eradication is our best defense. Once nematodes are established, it is nearly impossible to get rid of them.

Early detection is critical for mitigation success!

What happens if these nematodes are found in my field?

- You will be notified as soon as possible – you may be asked to quarantine your field.
- Suspected samples will be sent to a regional diagnostic center or a USDA APHIS lab for official confirmation.
- An eradication or control program will be developed based on scientific research, stakeholder needs, and federal and state guidelines.

Things you should know:

- Oregon currently has pest-free status for the exotic nematodes targeted by this survey. Potato cyst nematodes (*Globodera* spp.) have not been identified in official surveys done over the last 10 years.
- Free-pest status allow growers access to domestic and international markets for Oregon commodities.
- Your participation helps us to protect Oregon's environmental, agricultural, and economic interests.
- Monitoring and detection are our best and strongest tools for a rapid response to prevent spread of new pest species.

Sign up today!
Survey will take place
during spring and summer 2018

Contact: Dr. Maria Marquez
mmarquez@oda.state.or.us
503-986-4593
<https://oda.direct/OfficialSurveys>