

## Processing Tomato Root Disease/Yield Survey – 2012

Tomato growers are being invited to participate in a survey of processing tomato fields in southwestern Ontario to investigate the correlation between root rot symptoms on tomatoes and yield. This information will allow for the assessment of the role of root rot in vine decline as measured by yield data. The minimum commitment we would need for a grower to participate is for them to provide some root samples in July/August from a particular tomato variety from one of their fields, and then provide yield data in the fall for that same variety and field. To maximise the statistical significance of the data collected, our preference for tomato varieties included in this survey are: N3306, 337, 5108, 9553, 2401, 696, 9706, and TSH 29. A grower can submit samples from as many different varieties/blocks as he/she wishes as long as he/she is committed to providing the corresponding yield data. The project team will arrange for pick up of the samples and submission forms on-farm. There will be designated pick up dates across the growing area and samples can be taken up to 4 days before the pick up date.

We are completing this work using in-kind contributions from Agriculture and Agri-Food Canada, OMAFRA, and Ridgetown Campus - University of Guelph, therefore the cooperation of growers and other industry members is imperative to the success of the project. We expect to have results from this study available in early 2013. We hope you can participate!

For more information about participating or to arrange sample pick up, please contact Janice LeBoeuf at OMAFRA at 519-674-1699 or [janice.leboeuf@ontario.ca](mailto:janice.leboeuf@ontario.ca). Agribusiness and consultants can participate by collecting samples on behalf of their grower clients.

For other questions, please contact Janice LeBoeuf, Ken Conn (519-457-1470 x285 or [Ken.conn@agr.gc.ca](mailto:Ken.conn@agr.gc.ca)) or Cheryl Trueman (519-674-1500 x63646 or [ctrueman@ridgetownc.uoguelph.ca](mailto:ctrueman@ridgetownc.uoguelph.ca)).

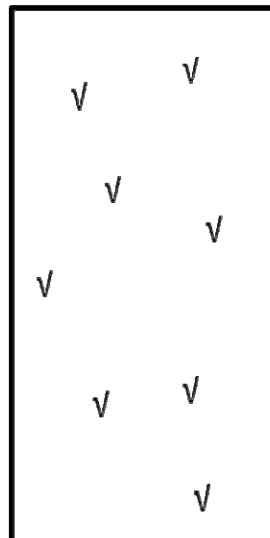
*Information on individual growers and locations will be kept confidential, and will only be used by the researchers to match samples with the yield and survey data to be collected after harvest. Reporting will be on pooled results.*

### Sampling Instructions

- Collect 8 to 10 root samples **per variety per site**; you do not have to walk the whole field, but roots should not be collected from plants directly adjacent to each other.
- Only submit roots (no foliage).
- Samples should be representative of the field. Do not submit the 10 best or 10 worst plants.
- Dig root ball, shake against shovel to remove soil, then wrap in newspaper and place in a plastic bag in the fridge. All root samples from one variety at the same site can go in the same bag.
- Root samples should be collected up to 4 days before your scheduled pick up date if they are kept refrigerated.

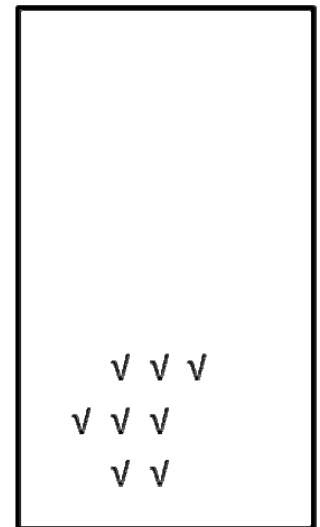
#### Correct sampling

pattern: representative plants from different locations in the field



#### Incorrect sampling

pattern: plants directly adjacent to each other in the same or nearby rows.



**Please submit this completed form with your samples**

*The following questions are mandatory, please answer all these questions. Grower information and specific locations will be kept confidential:*

**1. Contact Information:**

Name \_\_\_\_\_ Phone # \_\_\_\_\_

Email \_\_\_\_\_ Fax # \_\_\_\_\_

Preferred method of contact (circle one):      phone              email              fax

**2. Site Information:**

Region (circle one):      Harrow              Leamington              East Kent (N. of 401, E of 40)

                                         West Kent (N. of 401, W of 40)              South Kent (S. of 401)

Address: \_\_\_\_\_

Site Name: \_\_\_\_\_

**3. Sample Information:**

Variety\* \_\_\_\_\_

Planting Date \_\_\_\_\_

*\*Only one variety per sample; additional root samples from other varieties from the same field can be submitted separately.*

**4. I am willing to provide yield data for this planting/variety at the end of the season (circle one):** Yes    No

**\*\*Note: please do not submit samples if you are unable to submit yield data at a later date.\*\***

*The remaining questions are optional, but will improve our ability to obtain more meaningful results from your samples:*

**5. Field History (please list crops grown on this site in previous years)**

2011 \_\_\_\_\_ 2010 \_\_\_\_\_ 2009 \_\_\_\_\_ 2008 \_\_\_\_\_ 2007 \_\_\_\_\_

Tomatoes have previously been grown on this land (circle one): Yes    No    Not sure

**6. Soil type:** \_\_\_\_\_

**7. Irrigation (circle one):**              overhead              drip              not irrigated

