



## September 2015 PEST Report - THE NETHERLANDS

### 1.1 *Ralstonia solanacearum*, (race 1):

#### a) Findings in ornamental *Rosa* plants for planting

#### b) Confirmation of eradication in ornamental *Curcuma* plants

### 1.2 Executive summary

This report concerns the official finding of *Ralstonia solanacearum* in the Netherlands at a glasshouse company producing *Rosa* cut flowers, variety 'Armando'. The finding was triggered following symptoms observed. The identity was confirmed on September 11 2015. Trace-back and trace-forward have revealed two more suspicions, including a propagation company. Investigations are on-going.

Most likely the interception concerns race 1 of *R. solanacearum* (under investigation). Many plants at various locations in one block of the variety 'Armando', within the greenhouse exhibited symptoms. This finding is the first record of *R. solanacearum* on *Rosa sp.* Measures have been taken aimed at eradication and for preventing spread. The possible source of the outbreak is unknown and under investigation.

Thus far no link is established with an earlier finding of *Ralstonia solanacearum* (race 1) on *Anthurium* (see NL pest report August 2015) and an earlier finding on *Curcuma* plants for planting in 2014 (see NL pest report August 2014). To further investigate a possible link a comparative DNA analysis is planned on all three isolates of these *R. solanacearum* findings. Completion of a specific surveillance amongst *Curcuma* growers confirmed eradication for this crop. Eradication measures for the finding in *Anthurium* plants for cut flower production have been completed. A specific surveillance for confirming absence in *Anthurium* plants is planned for the coming year.

The organism is listed as a harmful organism in the EU directive 2000/29/EC and is listed on the EPPO A2 list.

Identity of the pest: *Ralstonia solanacearum* (probably race 1; under investigation)

Categorization of the pest EU Annex I AII, EPPO A2

Location: municipality of Westland.

Reason of the notification: First report on *Rosa* plants for planting

How the pest was found (6) information submitted by grower.

Information on the infested area, severity and source of the outbreak

One greenhouse cut flower production of 1.57 ha, whereby 0.3 ha variety Armando is affected with 22,000 plants for cut flower production.

One suspicion (testing results pending) in a greenhouse cut flower production of 20 ha, whereby 5 ha variety Red Naomi is affected.

Official phytosanitary measures - All plants of affected lots are to be destroyed including all neighbouring two rows of plants on either side.

## 4. Reason of the notification and pest status

4.1 (2) appearance of the harmful organism on a new host plant

First report

**4.4 Current Pest status** (11) Transient: actionable, found on *Rosa* and *Anthurium* plants for planting, under eradication;

**4.3 Previous Pest status**

(16) Transient: actionable, found on *Anthurium* and *Curcuma* plants for planting, under eradication;

**1.3 Legal provisions**

(2) full notification

**3. Location of presence of harmful organism**

3.1 Municipality Westland.

3.2 Map of the location.



Municipality Westland: Company with cut flower production

**5. Information relating to the finding.**

5.1 How the harmful organism was found.

(6) information submitted by a grower of cut flowers on 18 August 2015.

5.2 Samples were taken on August 24, 2015 and the identity of the bacterium was confirmed on September 11, 2015.

(5.3) submission of information concerning the sampling procedure for laboratory analysis, including date, method, and sample size.

Several *Rosa* stems showing black discoloration and necrosis, together with some chlorotic leaves. Additionally, wilting of several leaves was observed.

(5.4) the name and the address of the laboratory:

NPPO – The Netherlands

National Reference Centre

Contact persons:

Mr ir. Ing. Leon Tjou-Tam-Sin ([n.tjou-tam-sin@nvwa.nl](mailto:n.tjou-tam-sin@nvwa.nl)) Tel: +31 882232650

Ms Dr. Maria Bergsma-Vlami ([m.vlami@nvwa.nl](mailto:m.vlami@nvwa.nl)) Tel: +33 882233062

P.O.Box 9102

6700 HC Wageningen

The Netherlands

September 2015

### 5.5 Diagnostic method.

(1) According to peer reviewed protocol

EU (1998) Council Directive 98/57/EC of 20 July 1998 on the control of *Ralstonia solanacearum*. Annex II-test scheme for the diagnosis, detection and identification of *Ralstonia solanacearum*. *Official Journal of the European Communities*, no. L235, 8–39.

### 5.6 Date of official confirmation of the harmful organism's identity

The identity of the bacterium was confirmed on September 11, 2015. Race identification is still under investigation.

## 6. Information related to the area, severity of the finding and source of the finding

### 6.1.

Grower of cut flowers:

(1) infested surface : 0.3 hectare out of 1.57 hectare (variety Armando) at one grower. (2) number of infested plants (pieces): 22,000 plants

Figure 1: wilting symptoms on young shoots of *Rosa* plants in the affected greenhouse



Figure 2: necrotic stems and brown discoloration of stems



6.2. Characteristics of the infested area and its vicinity. (3) Physically closed conditions  
(3.1) greenhouse;

6.3. Host plants in the infested area and its vicinity.

Three other varieties at the same location did not show any symptoms.

Samples have been taken of an adjacent water resource and are under investigation.

6.4. Infested plant(s), plant product(s) and other object(s). Indication of the scientific name of the infested host plant(s).

See 6.3

6.5. Vectors present in the area.

Not relevant

6.6. Severity of the outbreak.

Many plants of the entire lot exhibited symptoms.

6.7. Source of the outbreak.

The origin of the finding is unknown.

## **7. Official phytosanitary measures**

7.1. Adoption of official phytosanitary measures.

(3) Official phytosanitary measures will be taken

7.2. Date of adoption of the official phytosanitary measures: 18 September 2015.

Official phytosanitary measures are taken immediately. All affected plants are destroyed. For cut flower production affected plants for planting are destroyed including all plants in the two neighbouring rows on either side. Specific hygiene measures are imposed on infected companies for staff, equipment and storage containers.

7.3. Identification of the area covered by the official phytosanitary measures.

Three companies.

7.4. Objective of the official phytosanitary measures.

(1) eradication;

7.5. Measures affecting the movement of goods.

Not relevant. All affected plants will be destroyed.

7.6. Specific surveys.

Not relevant

## **8. Pest risk analysis/assessment.**

(1) Pest risk analysis is not required (harmful organism is listed in Annex II of Directive 2000/29/EC)

## **9. Links to relevant websites, other sources of information.**

### **References:**

NPPO The Netherlands

NPPO The Netherlands, pest report, Finding of *Ralstonia solanacearum*, race 1 in *Anthurium* plants for cut flower production, August 2015.

NPPO The Netherlands, pest report, Finding of *Ralstonia solanacearum*, race 1 in ornamental *Curcuma* plants at two growers, August 2014.

<https://www.nvwa.nl/onderwerpen/english/dossier/pest-reporting/pest-reports>