



November 2016 PEST Report - THE NETHERLANDS CLOSING NOTE

National Plant Protection Organization
POBox 9102
6700 HC Wageningen
The Netherlands

1.1 Confirmation of eradication of *Ralstonia solanacearum* (race 3) in *Solanum melongena* plants for fruit production in a greenhouse in the municipality of Westland

1.2 Executive summary

This report concerns the closing note for confirmation of eradication of the first finding of *Ralstonia solanacearum* (race 3) in the Netherlands at a glasshouse company producing *Solanum melongena* fruits. The finding was triggered following the observation of symptoms on the plants by the grower. Plants were tested at a private laboratory, which informed the NPPO on 18 May 2016. The identity was confirmed on June 27, 2016. The origin of the finding is still unknown. Measures have been taken whereby eradication can be confirmed based on destruction of all *Solanum melongena* plants and substrates, cleaning and disinfection of the greenhouse and steaming of soil.

Identity of the pest: *Ralstonia solanacearum*

Categorization of the pest: EU Annex IAII, EPPO A2

Location: municipality of Westland in the province South Holland


Reason of the notification: Closing note of the report of *Ralstonia solanacearum* in *Solanum melongena* plants for fruit production


How the pest was found.: (6) information submitted by a private laboratory.


Information on the infested area, severity and source of the outbreak – In a greenhouse of 5700 m², about 480m² was infested. 675 out of 3,980 plants of *Solanum melongena* for fruit production were found contaminated with the bacterium *Ralstonia solanacearum* (race 3).

Official phytosanitary measures - All the *Solanum melongena* plants and substrates have been destroyed and the greenhouse has been cleaned and disinfected and the soil has been steamed.

1.3 Type of notification	(4) closing note
2.1 Single Authority	Notification from the National Plant Protection Organization of the Netherlands – Netherlands Consumer and Product Safety Authority
2.2 Official contact	M.S.W. Gerrits +31651229622 Email: m.s.w.gerrits@nvwa.nl
3. Location of presence of harmful organism	3.1 Municipality of Westland.

3.2 Map of the location.	
4. Reason of the notification and pest status	(1) First presence of <i>Ralstonia solanacearum</i> in <i>Solanum melongena</i> plants
4.3 Previous Pest status	(16) in potato production chain: transient, incidental findings, under eradication; in natural environment (surface water): present; in Pelargonium: eradicated ; in <i>Solanum melongena</i> plants: Transient: actionable, under eradication.
4.4 Current Pest status	(16) in potato production chain: transient, incidental findings, under eradication; in natural environment (surface water): present; in <i>Solanum melongena</i> plants: Eradicated
5. Information relating to the finding.	5.1 How the harmful organism was found. (6) information submitted by a private laboratory on 18 th of May
5.2 Date of finding.	Samples were taken on May 19, 2016 and the identity of the bacterium was confirmed on June 27, 2016.
5.3 Sampling for laboratory analysis	Stem parts were taken from wilted <i>Solanum melongena</i> plants. The sampled stems showed a brown discoloration of the vessels.

		
	<p>Figure 1: Samples of stems</p>	
<p>5.4 Laboratory</p>	<p>Mr Dr Hans de Gruyter. Tel: +31 65 370 0550 Email: j.degruyter@nvwa.nl National Reference Centre - NPPO of the Netherlands</p>	
<p>5.5 Diagnostic method.</p>	<p>(1) According to peer reviewed protocol EU (1998) Council Directive 98/57/EC of 20 July 1998 on the control of <i>Ralstonia solanacearum</i>. Annex II-test scheme for the diagnosis, detection and identification of <i>Ralstonia solanacearum</i>. <i>Official Journal of the European Communities</i>, no. L235, 8–39.</p>	
<p>5.6 Date of official confirmation of the harmful organism's identity</p>	<p>The identity of the bacterium was confirmed on June 27, 2016.</p>	
<p>6. Information related to the area, severity of the finding and source of the finding</p>	<p>6.1. Size and delimitation of the infested area. Indication of one or more of the following options: (1) infested surface: 480 m² out of 5700 m². (2) number of infested plants (pieces); 675 out of 3,980 plants</p> <p>Figure 2: wilting of <i>Solanum melongena</i> plants in the affected greenhouse</p>	

	
	<p>Figure 3: wilting of <i>Solanum melongena</i> plants in the affected greenhouse and an overview of the production system (plants were grown in rockwool which was placed on a plastic cover on the soil).</p>
<p>6.2. Characteristics of the infested area and its vicinity.</p>	<p>Indication of one or more of the following options: (3) Physically closed conditions (3.1) greenhouse; plants of <i>Solanum melongena</i> for fruit production</p>
<p>6.3. Host plants in the infested area and its vicinity.</p>	<p>In the greenhouse only plants for production of <i>Solanum melongena</i> fruits are cultivated. In one part another variety was cultivated, which did not show any symptoms.</p>
<p>6.4. Infested plant(s), plant product(s) and other object(s).</p>	<p>Plants of <i>Solanum melongena</i> for fruit production</p>

6.5. Vectors present in the area.	Not relevant
6.6. Severity of the outbreak.	About 525 plants of the entire lot exhibited symptoms.
6.7. Source of the outbreak.	The origin of the finding is unknown. Trace back activities did not reveal introduction by use of contaminated surface water.
7. Official phytosanitary measures	
7.1. Adoption of official phytosanitary measures.	(1) Official phytosanitary measures in the form of chemical, biological or physical treatment have been taken; All <i>Solanum melongena</i> plants and substrates have been destroyed and the greenhouse has been cleaned and disinfected and the soil is steamed.
7.2. Date of adoption of the official phytosanitary measures. In case of temporary measures, indication of their expected duration.	Phytosanitary measures were adopted from the 30 th of May (first laboratory results). After the official confirmation about 525 plants including their substrate were removed and destroyed. Thereafter it was decided to destroy all <i>Solanum melongena</i> plants including the substrates, and the greenhouse was cleaned and disinfected. In October the soil of the greenhouse has been steamed.
7.4. Objective of the official phytosanitary measures.	(1) eradication;
7.5. Measures affecting the movement of goods. Indication of one of the following options	(2) measures do not affect import into or movement within the Union of goods.
7.6. Specific surveys.	Not relevant
8. Pest risk analysis/assessment	(1) Pest risk analysis is not required (harmful organism is listed in Annex I of Directive 2000/29/EC, or is subject to measures adopted pursuant to Article 16(3) of that Directive);
9. Links to relevant websites, other sources of information.	NPPO website pest reports: https://english.nvwa.nl/topics/pest-reporting/contents/pest-reports