



TWV/46/32

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR VEGETABLES**Forty-Sixth Session****near the city of Venlo, Netherlands, June 11 to 15, 2012****PARTIAL REVISION OF THE TEST GUIDELINES FOR SPINACH
(DOCUMENT TG/55/7 REV.)***Document prepared by experts from the Netherlands*Introduction

1. At its forty-fifth session held in Monterey, United States of America from July, 25 to 29, 2011, the Technical Working Party for Vegetables (TWV) decided to include "*Spinacia oleracea* L. (Partial revision)" in the agenda of the forty-sixth session to be held near the city of Venlo, Netherlands, from June 11 to 15, 2012.

Partial Revision of Test Guidelines for Spinach (TG/55/7 Rev.)

2. It is proposed to revise the Test Guidelines for Spinach TG/55/7Rev. as follows:

(a) Addition of a characteristic Plant: red coloration of stem, petioles and veins , to place after characteristic 1

(b) Addition of "Race Pfs: 12" and " Race Pfs: 13" in Characteristic 17, including example varieties, and to add an asterisk for Race Pfs: 5, Race Pfs: 6 and Race Pfs: 7.

(a) Plant: red coloration of stem, petioles and veins

..	VG	<u>Plant: red coloration of stem, petioles and veins</u>					
(+)							
QL	<u>absent</u>	<u>absentes</u>	<u>fehlerd</u>	<u>ausentes</u>	<u>Resistoflay, Nores</u>	<u>1</u>	
	<u>present</u>	<u>présentes</u>	<u>vorhanden</u>	<u>presentes</u>	<u>Red Cardinal, Reddy</u>	<u>9</u>	

And to put an explanation in Chapter 8:

Ad ...: Plant: red coloration of stem, petioles and veins



1
absent



9
present

Proposal to add 17.11 and 17.2 to characteristic 17 and to put an asterisk * to 17.5, 17.6 and 17.7

17.	VG	Resistance to <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i>	Résistance à <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i>	Resistenz gegen <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i>	Resistencia a <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i>		
(+)							
QL		-----	-----	-----	-----	-----	-----
17.5		Race Pfs: 5	Race Pfs: 5	Pathotyp Pfs: 5	Raza Pfs: 5		
	(*)	absent	absente	fehlend	ausente	Clermont	1
		present	présente	vorhanden	presente	Califlay, Campania	9
		-----	-----	-----	-----	-----	-----
17.6		Race Pfs: 6	Race Pfs: 6	Pathotyp Pfs: 6	Raza Pfs: 6		
	(*)	absent	absente	fehlend	ausente	Califlay, Campania	1
		present	présente	vorhanden	presente	Boeing	9
		-----	-----	-----	-----	-----	-----
17.7		Race Pfs: 7	Race Pfs: 7	Pathotyp Pfs: 7	Raza Pfs: 7		
	(*)	absent	absente	fehlend	ausente	Califlay	1
		present	présente	vorhanden	presente	Campania	9
		-----	-----	-----	-----	-----	-----
<u>17.11</u>		<u>Race Pfs: 12</u>	<u>Race Pfs: 12</u>	<u>Pathotyp Pfs: 12</u>	<u>Raza Pfs: 12</u>		
		<u>absent</u>	<u>absente</u>	<u>fehlend</u>	<u>ausente</u>	<u>Campania, Boeing</u>	<u>1</u>
		<u>present</u>	<u>présente</u>	<u>vorhanden</u>	<u>presente</u>	<u>Finch, Pigeon,</u> <u>Red Kitten, Zebu,</u>	<u>9</u>
		-----	-----	-----	-----	-----	-----
<u>17.12</u>		<u>Race Pfs: 13</u>	<u>Race Pfs: 13</u>	<u>Pathotyp Pfs: 13</u>	<u>Raza Pfs: 13</u>		
		<u>absent</u>	<u>absente</u>	<u>fehlend</u>	<u>ausente</u>	<u>Campania</u>	<u>1</u>
		<u>present</u>	<u>présente</u>	<u>vorhanden</u>	<u>presente</u>	<u>Boeing, Lion</u>	<u>9</u>

Modification to Chapter 8, Ad 17:

Differential varieties to identify races

Races Pfs: 1-8 and 10-13 of *Peronospora farinosa* f. sp. *spinaciae* are defined with a standard set of “differential varieties” according to the following table:

Differential variety	Pfs: 1	Pfs: 2	Pfs: 3	Pfs: 4	Pfs: 5	Pfs: 6	Pfs: 7	Pfs: 8	Pfs: 10	Pfs: 11	Pfs: 12	Pfs: 13
Viroflay	S	S	S	S	S	S	S	S	S	S	S	S
Resistoflay	R	R	S	S	S	S	S	S	S	S	S	S
Califlay	R	S	R	S	R	S	S	R	S	R	R	S
Clermont	R	R	R	R	S	S	S	S	S	S	S	S
Campania	R	R	R	R	R	S	R	S	S	R	S	S
Boeing	R	R	R	R	R	R	R	S	S	R	S	R
Lion	R	R	R	R	R	R	R	R	S	R	R	R
Lazio	R	R	R	R	R	R	R	R	R	S	S	S

Legend: R= resistance present; S = resistance absent, susceptible

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