



TC/49/39

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL COMMITTEE**Forty-Ninth Session
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PARTIAL REVISION OF THE TEST GUIDELINES FOR SPINACH (DOCUMENT TG/55/7 REV.)

Document prepared by the Office of the Union

1. The Technical Working Party for Vegetables (TWV) at its forty-sixth session, held near the city of Venlo, Netherlands, from June 11 to 15, 2012, agreed to propose to revise the Test Guidelines for Spinach (document TG/55/7 Rev.) as follows:
 - (a) to add a new characteristic "Leaf: anthocyanin coloration of petioles and veins" after Characteristic 1, which would also be included as a grouping characteristic in Chapter 5.3. An explanation for the new characteristic would be provided in Chapter 8.
 - (b) for Characteristic 17 "Resistance to *Peronospora farinosa* f.sp. *spinaciae*"
 - to add an asterisk for Race Pfs: 5, Race Pfs: 6 and Race Pfs: 7;
 - to add Race Pfs: 12 and Race Pfs: 13, including example varieties
 - to add columns for Race Pfs: 12 and Race Pfs: 13 in the table of differential varieties to identify races in Ad. 17 "Resistance to *Peronospora farinosa* f.sp. *spinaciae*."
2. The Annex to this document contains the proposed partial revision of the Test Guidelines for Spinach (document TG/55/7 Rev.), as set out in paragraph 1 of this document.
3. The partial revision of document TG/55/7 Rev. would be adopted as document TG/55/7 Rev.2.

[Annex follows]

Proposed new characteristic "Leaf: anthocyanin coloration of petioles and veins" after characteristic 1

	English	français	Deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota	
NEW (*) (+)	VG	Leaf: anthocyanin coloration of petioles and veins	Feuille : pigmentation anthocyanique du pétiole et des veines	Blatt: Anthocyanfärbung des Blattstiels und der Adern	Hoja: pigmentación antocianica del peciolo y de los nervios		
QL	(a)	absent	absentes	fehlend	ausentes	Resistoflay, Nores	1
		present	présentes	vorhanden	presentes	Red Cardinal, Reddy	9

Ad. NEW : Leaf: anthocyanin coloration of petioles and veins

1
absent






9
present

Proposal to amend characteristic and addendum 17 “Resistance to *Peronospora farinosa* f. sp. *spinaciae*”

Proposed amendments are indicated by:

highlighting: proposed addition

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
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>		
17.1	Race Pfs: 1	Race Pfs: 1	Pathotyp Pfs: 1	Raza Pfs: 1		
QL	absent	absente	fehlend	ausente	Viroflay, Winterreuzen	1
	present	présente	vorhanden	presente	Califlay, Resistoflay	9
17.2	Race Pfs: 2	Race Pfs: 2	Pathotyp Pfs: 2	Raza Pfs: 2		
QL	absent	absente	fehlend	ausente	Califlay	1
	present	présente	vorhanden	presente	Resistoflay	9
17.3	Race Pfs: 3	Race Pfs: 3	Pathotyp Pfs: 3	Raza Pfs: 3		
QL	absent	absente	fehlend	ausente	Resistoflay	1
	present	présente	vorhanden	presente	Califlay, Clermont	9
17.4	Race Pfs: 4	Race Pfs: 4	Pathotyp Pfs: 4	Raza Pfs: 4		
QL	absent	absente	fehlend	ausente	Califlay	1
	present	présente	vorhanden	presente	Clermont	9
17.5 	Race Pfs: 5	Race Pfs: 5	Pathotyp Pfs: 5	Raza Pfs: 5		
QL	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		
QL	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		
QL	absent	absente	fehlend	ausente	Califlay	1
	present	présente	vorhanden	presente	Campania	9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.8	Race Pfs: 8	Race Pfs: 8	Pathotyp Pfs: 8	Raza Pfs: 8		
QL	absent	absente	fehlend	ausente	Boeing, Campania	1
	present	présente	vorhanden	presente	Lazio, Lion	9

17.9	Race Pfs: 10	Race Pfs: 10	Pathotyp Pfs:10	Raza Pfs:10		
QL	absent	absente	fehlend	ausente	Boeing, Campania, Lion	1
	present	présente	vorhanden	presente	Lazio	9

17.10	Race Pfs: 11	Race Pfs: 11	Pathotyp Pfs: 11	Raza Pfs: 11		
QL	absent	absente	fehlend	ausente	Lazio	1
	present	présente	vorhanden	presente	Boeing, Califlay, Campania, Lion	9

17.11	Race Pfs: 12	Race Pfs: 12	Pathotyp Pfs: 12	Raza Pfs: 12		
QL	<u>absent</u>	<u>absente</u>	<u>fehlend</u>	<u>ausente</u>	<u>Boeing, Campania</u>	<u>1</u>
	<u>present</u>	<u>présente</u>	<u>vorhanden</u>	<u>presente</u>	<u>Finch, Pigeon, Red Kitten, Zebu</u>	<u>9</u>

17.12	Race Pfs: 13	Race Pfs: 13	Pathotyp Pfs: 13	Raza Pfs: 13		
QL	<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>

Proposed amendment to the table of differential varieties to identify races in Ad. 17 “Resistance to *Peronospora farinosa* f. sp. *spinaciae*”

Proposed amendments are indicated **in yellow**

Ad 17: Resistance to *Peronospora farinosa* f. sp. *spinaciae*

[...]

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

[End of Annex and of document]