



TC/51/29

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL COMMITTEE

Fifty-First Session
Geneva, March 23 to 25, 2015

PARTIAL REVISION OF THE TEST GUIDELINES FOR SPINACH (DOCUMENT TG/55/7 REV.2)

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1. At its forty-eighth session held in Paestum, Italy, from June 23 to 27, 2014, the Technical Working Party for Vegetables (TWV) considered a partial revision of the Test Guidelines for Spinach on the basis of documents TG/55/7 Rev.2 and TWV/48/37 "Partial Revision of the Test Guidelines for Spinach (Document TG/55/7 rev.2)" and proposed to revise the Test Guidelines for Spinach as follows (see document TWV/48/43 "Report", paragraph 102):

- Revision of Characteristic 18 "Resistance to *Peronospora farinosa* f. sp. *spinaciae*":
 - (a) addition of "Race Pfs: 14", including example varieties and to add to TQ 7.3;
 - (b) deletion of asterisk from Race Pfs: 5, Race Pfs: 6 and Race Pfs: 7;
 - (c) revision of explanation Ad. 18 in Chapter 8.2 "Explanations for individual characteristics"

2. The changes to Characteristic 18 "Resistance to *Peronospora farinosa* f. sp. *spinaciae*" are presented in highlight and underline (insertion) and ~~strikethrough~~ (deletion).

| | English | français | Deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|--------|---|--|---|---|--|---------------|
| 18. VG | <u>Resistance to</u> <u>"Peronospora farinosa</u> <u>f. sp. spinaciae" (Pfs)</u> | <u>Résistance à</u> <u>"Peronospora farinosa</u> <u>f. sp. spinaciae" (Pfs)</u> | <u>Resistenz gegen</u> <u>"Peronospora farinosa</u> <u>f. sp. spinaciae" (Pfs)</u> | <u>Resistencia a</u> <u>"Peronospora farinosa</u> <u>f. sp. spinaciae" (Pfs)</u> | | |
| 18.1 | 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 |
| 18.2 | 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 |

| | English | français | Deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------------------------------------|---------------------|---------------------|-------------------------|---------------------|--|---------------|
| 18.3 | 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 |
| ----- | | | | | | |
| 18.4 | 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 |
| ----- | | | | | | |
| 18.5 (²⁴) | 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 |
| ----- | | | | | | |
| 18.6 (²⁴) | 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 |
| ----- | | | | | | |
| 18.7 (²⁴) | 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 |
| ----- | | | | | | |
| 18.8 | 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 |
| ----- | | | | | | |
| 18.9 | 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 |
| ----- | | | | | | |
| 18.10 | 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 |
| ----- | | | | | | |
| 18.11 | Race Pfs: 12 | Race Pfs: 12 | Pathotyp Pfs: 12 | Raza Pfs: 12 | | |
| QL | absent | absente | fehlend | ausente | Boeing, Campania | 1 |
| | present | présente | vorhanden | presente | Finch, Pigeon, Red Kitten, Zebu | 9 |
| ----- | | | | | | |

| | English | français | Deutsch | español | Example Varieties Exemples Beispielsorten Variedades ejemplo | Note/ Nota |
|--------------|---------------------|---------------------|-------------------------|---------------------|---|---------------|
| 18.12 | Race Pfs: 13 | Race Pfs: 13 | Pathotyp Pfs: 13 | Raza Pfs: 13 | | |
| QL | absent | absente | fehlend | ausente | Campania | 1 |
| | present | présente | vorhanden | presente | Boeing, Lion | 9 |
| ----- | | | | | | |
| 18.13 | Race Pfs: 14 | Race Pfs: 14 | Pathotyp Pfs: 14 | Raza Pfs: 14 | | |
| QL | <u>absent</u> | <u>absente</u> | <u>fehlend</u> | <u>ausente</u> | <u>Campania, Pigeon</u> | <u>1</u> |
| | <u>present</u> | <u>présente</u> | <u>vorhanden</u> | <u>presente</u> | <u>Califlay, Lion</u> | <u>9</u> |

3. The changes highlighted in yellow are proposed to the table of differential varieties to identify races in Ad. 18 "Resistance to 'Peronospora farinosa f. sp. spinaciae' (Pfs)":

"Differential varieties to identify races"

Races Pfs: 1-8 and 10-14 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 | Pfs:14 |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Viroflay | S | 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 | S |
| Califlay | R | S | R | S | R | S | S | R | S | R | R | S | R |
| Clermont | R | R | R | R | S | 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 | S |
| Lion | R | R | R | R | R | R | R | R | S | R | R | R | R |
| Lazio | R | R | R | R | R | R | R | R | R | S | S | S | S |
| <u>Whale</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>S</u> | <u>R</u> | <u>R</u> | <u>S</u> | <u>R</u> |
| <u>Pigeon</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>R</u> | <u>S</u> |

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

4. It is proposed to add Race Pfs 14 to Chapter 10 “Technical Questionnaire”, Section 7.3 (b) (i) as follows:

“7.3 Other information

[...]

“(b) Resistance to pests and diseases (specify)

“(i) Resistance to “Peronospora farinosa f. sp. spinaciae”

| | | | | |
|--------------|--------------------------|--------|--------------------------|---------|
| Race Pfs: 1 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 2 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 3 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 4 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 5 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 6 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 7 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 8 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 10 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 11 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 12 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 13 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |
| Race Pfs: 14 | <input type="checkbox"/> | absent | <input type="checkbox"/> | present |

[...]

[End of document]