|  |  |
| --- | --- |
|  | S |
| Unión Internacional para la Protección de las Obtenciones Vegetales |  |

|  |  |
| --- | --- |
| Comité Técnico  Quincuagésima novena sesión  Ginebra, 23 y 24 de octubre de 2023 | TC/59/22  Original: Inglés  Fecha: 28 de septiembre de 2023 |

Revisión parcial de las directrices de examen de la espinaca

Documento preparado por un experto los Países Bajos

Descargo de responsabilidad: el presente documento no constituye un documento de política u orientación de la UPOV  
  
Este documento se ha generado mediante traducción automática y no puede garantizarse su exactitud. Por lo tanto, el texto en el idioma original es la única versión auténtica.

El presente documento tiene por finalidad exponer una propuesta de revisión parcial de las directrices de examen de la espinaca (documento TG/55/7 Rev. 7).

En su quincuagésima séptima sesión[[1]](#footnote-2), el Grupo de Trabajo Técnico sobre Hortalizas (TWV), examinó una propuesta de revisión parcial de las directrices de examen de la espinaca (*Spinacea oleracea* L.) conforme a los documentos TG/55/7 Rev. 7 y TWV/57/11 “*Partial revision of the Test Guidelines for Spinach*” y propuso los siguientes cambios (véase el párrafo 73 del documento TWV/57/26 “*Report*”):

1. Revisión del carácter y explicación 17 “Semilla: espinas (semilla cosechada)”
2. Inclusión de caracteres de la tabla de caracteres en el Cuestionario Técnico

A continuación, se presenta la nueva redacción propuesta. Los cambios propuestos se indican como texto resaltado y subrayado (inserción) y ~~tachado~~ (eliminación) en el Anexo de este documento (sólo en inglés).

Revisión del carácter 17 “Semilla: espinas (semilla cosechada)”

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | Deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| **17.  (+)** | **VG** | **Plants: shape of pseudo fruit** | **Plante : forme du pseudo-fruit** | **Pflanze : Form der Pseudofrucht** | **Planta: forma del pseudofruto** |  |  |
| **QN** |  | only plants with round pseudo fruits | seulement plantes à pseudo-fruits ronds | nur Pflanzen mit runden Pseudofrüchten | sólo plantas con pseudofrutos redondos | Hudson, Resistoflay | 1 |
|  |  | plants with round pseudo fruits and plants with spined pseudo fruits | plantes à pseudo-fruits ronds et plantes à pseudo-fruits épineux | Pflanzen mit runden Pseudofrüchten und Pflanzen mit dornigen Pseudofrüchten | plantas con pseudofrutos redondos y plantas con pseudofrutos espinosos | Baboon, Quinto | 2 |
|  |  | only plants with spined pseudo fruits | seulement plantes à pseudo-fruits épineux | nur Pflanzen mit dornigen Pseudofrüchten | sólo plantas con pseudofrutos espinosos | Anlani,  Breedblad Scherpzaad | 3 |

Revisión de la explicación 17 “Semilla: espinas (semilla cosechada)”

Ad. 17: Semilla: espinas (semilla cosechada)

La segregación de variedades con nivel 2 (tanto plantas con pseudofrutos redondos como plantas con pseudofrutos espinosos) es consecuencia de la línea paterna utilizada para la producción de híbridos, que es homogénea pero heterocigótica para la forma del pseudofruto. Esta línea se propaga por cruzamiento y selección para mantenerla heterocigótica para este rasgo. La razón de ello es proteger ciertos rasgos valiosos.

|  |  |
| --- | --- |
|  | spinazie vrouwelijke plant gestekeld zaad bewerkt2000 |
| pseudofruto redondo | pseudofruto espinoso |

The pseudo fruits to be assessed are developing on the plants grown of the submitted seed. The tissue of these pseudo fruits is the same as and thus part of the F1 plant. The F2 seed, enclosed by this pseudo fruit is not subject to observation.

Observations should be made on the plant when the pseudo fruits are fully developed, on female and monoecious plants. Varieties may consist of only plants with round pseudo fruits (note 1), only plants with spined pseudo fruits (note 3) or of both plants with round pseudo fruits as well as plants with spined pseudo fruits (note 2).

Los pseudofrutos que se van a evaluar se están desarrollando en las plantas cultivadas de la semilla presentada. El tejido de estos pseudofrutos es el mismo que el de la planta F1 y, por tanto, forma parte de ella. La semilla F2, encerrada por estos pseudofrutos no es objeto de observación.

Las observaciones deberán efectuarse en la planta cuando los pseudofrutos estén completamente desarrollados, en plantas femeninas y monoicas. Las variedades pueden consistir solo en plantas con pseudofrutos redondos (nota 1), solo en plantas con pseudofrutos espinosos (nota 3) o tanto en plantas con pseudofrutos redondos como en plantas con pseudofrutos espinosos (nota 2).

Inclusión de caracteres de la tabla de caracteres en el Cuestionario Técnico

Se propone incluir los siguientes caracteres en el cuestionario técnico (las propuestas de inclusión se indican como texto resaltado y subrayado):

|  |  |  |
| --- | --- | --- |
| **Char. No.** | **(\*)** | **Characteristic Name** |
| 1 |  | Seedling: length of cotyledon |
| 2 | (\*) | Leaf: anthocyanin coloration of petioles and veins |
| 3 | (\*) | Leaf blade: intensity of green color |
| 4 | (\*) | Leaf blade: blistering |
| 7 |  | Petiole: length |
| 9 | (\*) | Leaf blade: shape (excluding basal lobes) |
| 11 | (\*) | Leaf blade: shape of apex |
| 13 | (\*) | Proportion of monoecious plants |
| 14 | (\*) | Proportion of female plants |
| 15 | (\*) | Proportion of male plants |
| 16 | (\*) | Time of start of bolting (for spring sown crops, 15% of plants) |
| 18.1 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 1 |
| 18.2 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 2 |
| 18.3 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 3 |
| 18.4 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 4 |
| 18.5 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 5 |
| 18.6 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 6 |
| 18.7 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 7 |
| 18.8 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 8 |
| 18.9 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 10 |
| 18.10 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 11 |
| 18.11 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 12 |
| 18.12 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 13 |
| 18.13 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 14 |
| 18.14 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 15 |
| 18.15 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 16 |
| 18.16 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 17 |
| 18.17 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 18 |
| 18.18 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 19 |
| 19 |  | Resistance to Cucumber mosaic virus (CMV) |

Los cambios detallados del TQ se indican como texto resaltado y subrayado (inserción) y ~~tachado~~ (eliminación) en el Anexo de este documento (sólo en inglés).

[Sigue el Anexo]

CAMBIOS PROPUESTOS RESALTADOS

(sólo en inglés)

Proposed revision of Characteristic 17 “Seed: spines (harvested seed)”

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | Deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| **17.  (+)** | **VG** | **~~Seed: spines (harvested seed)~~****Plants: shape of pseudo fruit** | **~~Semence : épines  (grains récoltés)~~ Plante : forme du pseudo-fruit** | **~~Samen: Stacheln (geernteter Samen)~~ Pflanze : Form der Pseudofrucht** | **~~Semilla: espinas (semilla cosechada)~~ Planta: forma del pseudofruto** |  |  |
| **~~QL~~ QN** |  | ~~absent~~  only plants with round pseudo fruits | ~~absentes~~ seulement plantes à pseudo-fruits ronds | ~~fehlend~~ nur Pflanzen mit runden Pseudofrüchten | ~~ausentes~~ sólo plantas con pseudofrutos redondos | Hudson, Resistoflay | 1 |
|  |  | plants with round pseudo fruits and plants with spined pseudo fruits | plantes à pseudo-fruits ronds et plantes à pseudo-fruits épineux | Pflanzen mit runden Pseudofrüchten und Pflanzen mit dornigen Pseudofrüchten | plantas con pseudofrutos redondos y plantas con pseudofrutos espinosos | Baboon, Quinto | 2 |
|  |  | ~~present~~ only plants with spined pseudo fruits | ~~présentes~~ seulement plantes à pseudo-fruits épineux | ~~vorhanden~~ nur Pflanzen mit dornigen Pseudofrüchten | ~~presentes~~ sólo plantas con pseudofrutos espinosos | Anlani,  Breedblad Scherpzaad, ~~Marimba~~ | ~~9~~ 3 |

Proposed revision of explanation Ad. 17 “Seed: spines (harvested seed)”

Ad. 17: ~~Seed: spines (harvested seed)~~ Plants: shape of pseudo fruit

The segregation of varieties with state of expression 2 (both plants with round pseudo fruits as well as plants with spined pseudo fruits) is a consequence of the fatherline used for the production of hybrids which is homogenic but heterozygous for the shape of the pseudo fruit. This line is propagated by crossing and selection to keep it heterozygous for this trait. The reason for this is to protect certain valuable traits.

|  |  |
| --- | --- |
|  | spinazie vrouwelijke plant gestekeld zaad bewerkt2000 |
| ~~1~~ | ~~9~~ |
| ~~absent~~  round pseudo fruit | ~~present~~ spined pseudo fruit |

The pseudo fruits to be assessed are developing on the plants grown of the submitted seed. The tissue of these pseudo fruits is the same as and thus part of the F1 plant. The F2 seed, enclosed by this pseudo fruit is not subject to observation.

Observations should be made on the plant when the pseudo fruits are fully developed, on female and monoecious plants. Varieties may consist of only plants with round pseudo fruits (note 1), only plants with spined pseudo fruits (note 3) or of both plants with round pseudo fruits as well as plants with spined pseudo fruits (note 2).

## Proposed inclusion of characteristics from the Table of Characteristics in the Technical Questionnaire

| TECHNICAL QUESTIONNAIRE | | | Page {x} of {y} | Reference Number: | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | | | |  | |
| 5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds). | | | | | | | |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.1 (1)** | **Seedling: length of cotyledon** | | | |  | |  |
|  | very short | | | |  | | 1[ ] |
|  | very short to short | | | |  | | 2[ ] |
|  | short | | | | Nores | | 3[ ] |
|  | short to medium | | | |  | | 4[ ] |
|  | medium | | | |  | | 5[ ] |
|  | medium to long | | | |  | | 6[ ] |
|  | long | | | | Breedblad Scherpzaad, Resistoflay | | 7[ ] |
|  | long to very long | | | |  | | 8[ ] |
|  | very long | | | |  | | 9[ ] |
| **5.2 (2)** | **Leaf: anthocyanin coloration of petioles and veins** | | | |  | |  |
|  | absent | | | | Resistoflay, Nores | | 1[ ] |
|  | present | | | | Red Cardinal, Reddy | | 2[ ] |
| **5.~~1~~ 3 (3)** | Leaf blade: intensity of green color | | | |  | |  |
|  | very light | | | |  | | 1[ ] |
|  | very light to light | | | |  | | 2[ ] |
|  | light | | | | Monet, Viroflay, Winterreuzen | | 3[ ] |
|  | light to medium | | | |  | | 4[ ] |
|  | medium | | | | Butterflay, Monnopa | | 5[ ] |
|  | medium to dark | | | |  | | 6[ ] |
|  | dark | | | | Imola, Lavewa, Nores | | 7[ ] |
|  | dark to very dark | | | |  | | 8[ ] |
|  | very dark | | | | Lorelay, Mystic | | 9[ ] |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.~~2~~ 4 (4)** | Leaf blade: blistering | | | |  | |  |
|  | absent or very weak | | | | Matador | | 1[ ] |
|  | very weak to weak | | | |  | | 2[ ] |
|  | weak | | | | Polka, Tarpy | | 3[ ] |
|  | weak to medium | | | |  | | 4[ ] |
|  | medium | | | | Butterflay, Koala, Mystic | | 5[ ] |
|  | medium to strong | | | |  | | 6[ ] |
|  | strong | | | | Giraffe, Rhythm | | 7[ ] |
|  | strong to very strong | | | |  | | 8[ ] |
|  | very strong | | | | Menorca, Revolver | | 9[ ] |
| **5.5 (7)** | **Petiole: length** | | | |  | |  |
|  | very short | | | |  | | 1[ ] |
|  | very short to short | | | |  | | 2[ ] |
|  | short | | | | Imola, Mystic | | 3[ ] |
|  | short to medium | | | |  | | 4[ ] |
|  | medium | | | | Butterflay, Giraffe | | 5[ ] |
|  | medium to long | | | |  | | 6[ ] |
|  | long | | | | Grappa, Resistoflay | | 7[ ] |
|  | long to very long | | | |  | | 8[ ] |
|  | very long | | | |  | | 9[ ] |
| **5.6 (9)** | **Leaf blade: shape (excluding basal lobes)** | | | |  | |  |
|  | triangular | | | | Grappa, Maracas | | 1[ ] |
|  | medium ovate | | | | Lavewa, Resistoflay | | 2[ ] |
|  | broad ovate | | | | Butterflay | | 3[ ] |
|  | medium elliptic | | | |  | | 4[ ] |
|  | broad elliptic | | | | Nores | | 5[ ] |
|  | circular | | | | Giraffe | | 6[ ] |
| **5.~~3~~ 7 (11)** | Leaf blade: shape of apex | | | |  | |  |
|  | acute | | | | Grappa, Rhythm | | 1[ ] |
|  | obtuse | | | | Resistoflay | | 2[ ] |
|  | rounded | | | | Imola, Nores | | 3[ ] |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.~~4~~ 8 (13)** | **Proportion of monoecious plants** | | | |  | |  |
|  | absent or very low | | | | Medania | | 1[ ] |
|  | very low to low | | | |  | | 2[ ] |
|  | low | | | | Matador | | 3[ ] |
|  | low to medium | | | |  | | 4[ ] |
|  | medium | | | | Figo | | 5[ ] |
|  | medium to high | | | |  | | 6[ ] |
|  | high | | | | Giraffe, Lazio | | 7[ ] |
|  | high to very high | | | |  | | 8[ ] |
|  | very high | | | | Monnopa | | 9[ ] |
| **5.~~5~~ 9 (14)** | **Proportion of female plants** | | | |  | |  |
|  | absent or very low | | | | Monnopa | | 1[ ] |
|  | very low to low | | | |  | | 2[ ] |
|  | low | | | | Giraffe | | 3[ ] |
|  | low to medium | | | |  | | 4[ ] |
|  | medium | | | | Figo, Medania | | 5[ ] |
|  | medium to high | | | |  | | 6[ ] |
|  | high | | | | Parrot | | 7[ ] |
|  | high to very high | | | |  | | 8[ ] |
|  | very high | | | |  | | 9[ ] |
| **5.~~6~~ 10 (15)** | **Proportion of male plants** | | | |  | |  |
|  | absent or very low | | | | Monnopa, Parrot | | 1[ ] |
|  | very low to low | | | |  | | 2[ ] |
|  | low | | | |  | | 3[ ] |
|  | low to medium | | | |  | | 4[ ] |
|  | medium | | | | Medania | | 5[ ] |
|  | medium to high | | | |  | | 6[ ] |
|  | high | | | |  | | 7[ ] |
|  | high to very high | | | |  | | 8[ ] |
|  | very high | | | |  | | 9[ ] |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.~~7~~ 11 (16)** | **Time of start of bolting (for spring sown crops, 15% of plants)** | | | |  | |  |
|  | very early | | | | Figo, Maracas | | 1[ ] |
|  | very early to early | | | |  | | 2[ ] |
|  | early | | | | Bandola, Viroflay | | 3[ ] |
|  | early to medium | | | |  | | 4[ ] |
|  | medium | | | | Matador, Monnopa | | 5[ ] |
|  | medium to late | | | |  | | 6[ ] |
|  | late | | | | Grappa, Medania, Revolver | | 7[ ] |
|  | late to very late | | | |  | | 8[ ] |
|  | very late | | | | Chica, Lavewa | | 9[ ] |
| **5.~~8~~ 12 (18.1)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 1** | | | |  | |  |
|  | absent | | | | Viroflay, Winterreuzen | | 1 [   ] |
|  | present | | | | Califlay, Resistoflay | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~9~~ 13 (18.2)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 2** | | | |  | |  |
|  | absent | | | | Califlay | | 1 [   ] |
|  | present | | | | Resistoflay | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~10~~ 14 (18.3)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 3** | | | |  | |  |
|  | absent | | | | Resistoflay | | 1 [   ] |
|  | present | | | | Califlay, Clermont | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~11~~ 15 (18.4)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 4** | | | |  | |  |
|  | absent | | | | Califlay | | 1 [   ] |
|  | present | | | | Clermont | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.~~12~~ 16 (18.5)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 5** | | | |  | |  |
|  | absent | | | | Clermont | | 1 [   ] |
|  | present | | | | Califlay, Campania | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~13~~ 17 (18.6)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 6** | | | |  | |  |
|  | absent | | | | Califlay, Campania | | 1 [   ] |
|  | present | | | | Boeing | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~14~~ 18 (18.7)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 7** | | | |  | |  |
|  | absent | | | | Califlay | | 1 [   ] |
|  | present | | | | Campania | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~15~~ 19 (18.8)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 8** | | | |  | |  |
|  | absent | | | | Boeing, Campania | | 1 [   ] |
|  | present | | | | Lazio, Lion | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~16~~ 20 (18.9)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 10** | | | |  | |  |
|  | absent | | | | Boeing, Campania, Lion | | 1 [   ] |
|  | present | | | | Lazio | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~17~~ 21 (18.10)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 11** | | | |  | |  |
|  | absent | | | | Lazio | | 1 [   ] |
|  | present | | | | Boeing, Califlay, Campania, Lion | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.~~18~~ 22 (18.11)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 12** | | | |  | |  |
|  | absent | | | | Boeing, Campania | | 1 [   ] |
|  | present | | | | Finch, Pigeon, Red Kitten, Zebu | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~19~~ 23 (18.12)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 13** | | | |  | |  |
|  | absent | | | | Campania | | 1 [   ] |
|  | present | | | | Boeing, Lion | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~20~~ 24 (18.13)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 14** | | | |  | |  |
|  | absent | | | | Campania, Pigeon | | 1 [   ] |
|  | present | | | | Califlay, Lion | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~21~~ 25 (18.14)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 15** | | | |  | |  |
|  | absent | | | | Caladonia | | 1 [   ] |
|  | present | | | | Pigeon | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~22~~ 26 (18.15)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 16** | | | |  | |  |
|  | absent | | | | Meerkat | | 1 [   ] |
|  | present | | | | Caladonia | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~23~~ 27 (18.16)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 17** | | | |  | |  |
|  | absent | | | | Pigeon | | 1 [   ] |
|  | present | | | | Hydrus | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.~~24~~ 28 (18.17)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 18** | | | |  | |  |
|  | absent | | | | Meerkat | | 1 [   ] |
|  | present | | | | Caladonia | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
|  | Characteristics | | | | Example Varieties | | Note |
| **5.~~25~~ 27 (18.18)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 19** | | | |  | |  |
|  | absent | | | | Pigeon | | 1 [   ] |
|  | present | | | | Hydrus | | 9 [   ] |
|  | not tested | | | |  | | [   ] |
| **5.28 (19)** | **Resistance to Cucumber mosaic virus (CMV)** | | | |  | |  |
|  | absent | | | | Polka | | 1 [   ] |
|  | present | | | | Symphony | | 9 [   ] |
|  | not tested | | | |  | | [   ] |

[Fin del documento]

1. celebrada en Antalya (Türkiye) del 1 al 5 de mayo de 2023. [↑](#footnote-ref-2)