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| International Union for the Protection of New Varieties of Plants |  |

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| Technical Working Party for VegetablesFifty-Second SessionBeijing, China, September 17 to 21, 2018 | TWV/52/7Original: EnglishDate: August 10, 2018 |

Partial revision of the Test Guidelines for Watermelon

*Document prepared by an expert from the Netherlands*

Disclaimer: this document does not represent UPOV policies or guidance

 The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Watermelon (document TG/142/5).

 The Technical Working Party for Vegetables (TWV), at its fifty-first session, held in Roelofarendsveen, Netherlands, from July 3 to July 7, 2017, agreed that the Test Guidelines for Watermelon (document TG/142/5) be partially revised for Characteristics 34, 35 and 36 (see document TWV/51/16 “Report”, Annex IV).

 The following changes are proposed:

1. Proposal to change states of expression and notes of Characteristic 35 “Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color” and Characteristic 36 “Only diploid and tetraploid varieties: Seed: patches at hilum”
2. Proposal to change the explanations of Characteristics 33 “Only diploid and tetraploid varieties: Seed: ground color of testa”, 34 “Only diploid and tetraploid varieties: Seed: over color of testa”, Characteristic 35 “Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color” and Characteristic 36 “Only diploid and tetraploid varieties: Seed: patches at hilum”

## Proposal to change states of expression and notes of Characteristic 35 “Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color” and Characteristic 36 “Only diploid and tetraploid varieties: Seed: patches at hilum”

### Current wording:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| **35.(+)** | **VG** | **Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color** | **Variétés diploïdes et tétraploïdes seulement** **: Graine : surface du lavis par rapport à celle de la couleur de fond** | **Nur diploide und tetraploide Sorten: Samen: Anteil der Deckfarbe im Vergleich zur Grundfarbe** | **Sólo variedades diploides y tetraploides: Semilla: área del color superior en relación con el del color de fondo** |  |  |
| **QN** | **(d)** | very small | très petite | sehr klein | muy pequeña | Estela roja | 1 |
|  |  | small | petite | klein | pequeña | Sugar Baby | 3 |
|  |  | medium | moyenne | mittel | media | Crimson Sweet | 5 |
|  |  | large | grande | groß | grande | Furia | 7 |
|  |  | very large | très grande | sehr groß | muy grande | Starlich | 9 |
| **36.(+)** | **VG** | **Only diploid and tetraploid varieties: Seed: patches at hilum** | **Variétés diploïdes et tétraploïdes seulement** **: Graine : taches sur le hile** | **Nur diploide und tetraploide Sorten: Samen: Flecken am Nabel** | **Sólo variedades diploides y tetraploides: Semilla: manchas en el hilo** |  |  |
| **QN** | **(d)** | absent or very weak | absentes ou très faibles | fehlend oder sehr schwach | ausentes o muy débil | Daisen, Kahô | 1 |
|  |  | medium | moyennes | mittel | media | Kurobe, Rattle Snake, Yamato 3 | 2 |
|  |  | strong | fortes | stark | fuerte |  | 3 |

*Proposed new wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| **35.(+)** | **VG** | **Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color** | **Variétés diploïdes et tétraploïdes seulement** **: Graine : surface du lavis par rapport à celle de la couleur de fond** | **Nur diploide und tetraploide Sorten: Samen: Anteil der Deckfarbe im Vergleich zur Grundfarbe** | **Sólo variedades diploides y tetraploides: Semilla: área del color superior en relación con el del color de fondo** |  |  |
| **QN** | **(d)** | absent or very small | absente ou très petite | fehlend oder sehr klein | ausente o muy pequeña | Estela roja | 1 |
|  |  | small | petite | klein | pequeña | Sugar Baby | 3 |
|  |  | medium | moyenne | mittel | media | Crimson Sweet | 5 |
|  |  | large | grande | groß | grande | Furia | 7 |
|  |  | very large | très grande | sehr groß | muy grande | Starlich | 9 |
| **36.(+)** | **VG** | **Only diploid and tetraploid varieties: Seed: patches at hilum** | **Variétés diploïdes et tétraploïdes seulement** **: Graine : taches sur le hile** | **Nur diploide und tetraploide Sorten: Samen: Flecken am Nabel** | **Sólo variedades diploides y tetraploides: Semilla: manchas en el hilo** |  |  |
| **QN** | **(d)** | absent ~~or very weak~~ | absentes ~~ou très faibles~~ | fehlend ~~oder sehr schwach~~ | ausentes ~~o muy débil~~ | Daisen, Kahô | 1 |
|  |  | ~~medium~~ | ~~moyennes~~ | ~~mittel~~ | ~~media~~ | ~~Kurobe, Rattle Snake, Yamato 3~~ | ~~2~~ |
|  |  | ~~strong~~ | ~~fortes~~ | ~~stark~~ | ~~fuerte~~ |  | ~~3~~ |
|  |  | present | présentes | vorhanden | presentes |  | 9 |

## Proposal to change the explanations of Characteristics Characteristics 33 “Only diploid and tetraploid varieties: Seed: ground color of testa”, 34 “Only diploid and tetraploid varieties: Seed: over color of testa”, Characteristic 35 “Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color” and Characteristic 36 “Only diploid and tetraploid varieties: Seed: patches at hilum”

### Current wording

Ad. 33: Only diploid and tetraploid varieties: Seed: ground color of testa

 The ground color is the first color of the testa to appear during the development of the seed. The over color is the color that develops over time upon the ground color, and appears as black spots.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| white | cream | green | red | red brown | brown | black |

Ad. 34: Only diploid and tetraploid varieties: Seed: over color of testa

 The ground color is the first color of the testa to appear during the development of the seed. The over color is the color that develops over time upon the ground color, and appears as black spots.

|  |  |
| --- | --- |
|  |  |
| 1 | 9 |
| absent | present |

Ad. 35: Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color

 The ground color is the first color of the testa to appear during the development of the seed. The over color is the color that develops over time upon the ground color, and appears as black spots.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FOTOS\SANDIA\SEMILLAS\Manchas SEMILLA\nivel 1.jpg |  |  |  |  |
| 1 | 3 | 5 | 7 | 9 |
| very small | small | medium | large | very large |

Ad. 36: Only diploid and tetraploid varieties: Seed: patches at hilum

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| absent or very weak | medium | strong |

### Proposed new wording

Ad. 33: Only diploid and tetraploid varieties: Seed: ground color of testa

 The ground color is the first color of the testa to appear during the development of the seed. The over color is the color that develops over time upon the ground color, and appears as black spots.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| white | cream | green | red | red brown | brown | black |

*Photos 1, 2, 3, 4, 5, 7: Courtesy of KANDA Seed Co.*

Ad. 34: Only diploid and tetraploid varieties: Seed: over color of testa

 The ground color is the first color of the testa to appear during the development of the seed. The over color is the color that develops over time upon the ground color, and appears as black spots.

|  |  |
| --- | --- |
| C:\Users\4T_work\Desktop\キャリブレーションマニュアル\写真\miyako.jpg |  |
| 1 | 9 |
| absent | present |

*Photo 1(left), Photo 9(right): Courtesy of KANDA Seed Co.*

Ad. 35: Only diploid and tetraploid varieties: Seed: area of over color in relation to that of ground color

 The ground color is the first color of the testa to appear during the development of the seed. The over color is the color that develops over time upon the ground color, and appears as black spots. The patches directly around the hilum should be excluded from the observation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FOTOS\SANDIA\SEMILLAS\Manchas SEMILLA\nivel 1.jpg |  |  |  |  |
| 1 | 3 | 5 | 7 | 9 |
| absent or very small | small | medium | large | very large |

Ad. 36: Only diploid and tetraploid varieties: Seed: patches at hilum

|  |  |  |  |
| --- | --- | --- | --- |
| C:\Users\4T_work\Desktop\キャリブレーションマニュアル\写真\miyako.jpg |  |  | FOTOS\SANDIA\SEMILLAS\Manchas SEMILLA\nivel 1.jpg |
| 1 | ~~2~~ | ~~3~~ | 9 |
| absent ~~or very weak~~ | ~~medium~~ | ~~strong~~ | present |

*Photo 1(left): Courtesy of KANDA Seed Co.*

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