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

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| Technical Working Party for Agricultural Crops  Fifty-Fourth Session Arusha, United Republic of Tanzania, May 19 to 22, 2025 | TWA/54/4  Original: English  Date: April 24, 2025 |

Partial revision of the Test Guidelines for Sweet Potato

Document prepared by an expert from Japan

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 Sweet Potato (document TG/258/1).

The Technical Working Party for Agricultural Crops (TWA), at its fifty-third session[[1]](#footnote-2), agreed that the Test Guidelines for Sweet Potato (*Ipomoea batatas* (L.) Lam.) be partially revised (see document TWA/53/9 “Report”, Annex II).

The following changes are proposed:

1. Addition of a new characteristic and explanation “Leaf blade: anthocyanin coloration of nectary” after characteristic 16 “Young leaf blade: main color on upper side”
2. Revision of characteristic and explanation 19 “Storage root: shape”
3. Revision of example varieties of characteristic 23 “Storage root: secondary color of skin”
4. Revision of characteristic 24 “Storage root: main color of flesh”

The proposed changes are presented below in highlight and underline (insertion) and ~~strikethrough~~ (deletion).

## Proposed addition of a new characteristic “Leaf blade: anthocyanin coloration of nectary” after characteristic 16 “Young leaf blade: main color on upper side”

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
| **17.** | **VG** | **Leaf blade: anthocyanin coloration of nectary** |  |  |  |  |  |
| **QN** |  | absent or very weak |  |  |  | Tamayutaka, Koukei14 | 1 |
|  |  | weak |  |  |  | Shiroyutaka | 2 |
|  |  | medium |  |  |  | Suiou | 3 |
|  |  | strong |  |  |  | Beniazuma, Koganesengan | 4 |
|  |  | very strong |  |  |  |  | 5 |

## Ad. 17: Leaf blade: anthocyanin coloration of nectary

A close-up of a leaf

AI-generated content may be incorrect.

Observations should be made on the pair of nectaries located on the abaxial or underside of the leaf blade at the base.

## Proposed revision of characteristic 19 “Storage root: shape”

*Current wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **19. (\*) (+)** | **VG** | **Storage root: shape** | **Racine de réserve : forme** | **Speicherwurzel: Form** | **Raíz tuberosa: forma** |  |  |
| **PQ** | **(e)** | ovate | ovale | eiförmig | oval |  | 1 |
|  |  | elliptic | elliptique | elliptisch | elíptica |  | 2 |
|  |  | obovate | obovale | verkehrt eiförmig | oboval | Geonmi | 3 |
|  |  | oblong | oblongue | rechteckig | oblonga | Serolane | 4 |
|  |  | irregular | irrégulière | unregelmäßig | irregular | Shinyulmi | 5 |

Ad. 19: Storage root: shape

|  |  |  |
| --- | --- | --- |
| < position of broadest part > | | |
| below middle | at middle | above middle |
| < lateral outline > | rounded | 1  ovate | 2  elliptic | 3  obovate |
| oblong | 4  oblong | | |
| irregular | 5  irregular | | |

*Proposed new wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **19. (\*) (+)** | **VG** | **Storage root: shape** | **Racine de réserve : forme** | **Speicherwurzel: Form** | **Raíz tuberosa: forma** |  |  |
| **PQ** | **(e)** | ovate | ovale | eiförmig | oval |  | 1 |
|  |  | circular | circulaire | kreisförmig | circular |  | 2 |
|  |  | elliptic | elliptique | elliptisch | elíptica | Koukei14 | 3 |
|  |  | oblong | oblongue | rechteckig | oblonga | Serolane | 4 |
|  |  | linear | linéaire | linear | lineal | Sweet Caroline Right Green | 5 |
|  |  | obovate | obovale | verkehrt eiförmig | oboval | Geonmi, Koganesengan | 6 |
|  |  | ~~oblong~~ | ~~oblongue~~ | ~~rechteckig~~ | ~~oblonga~~ | ~~Serolane~~ | ~~7~~ |
|  |  | irregular | irrégulière | unregelmäßig | irregular | Shinyulmi | 7 |

Ad. 19: Storage root: shape

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | broadest part | | | |
| below middle | at middle | | above middle |
| relative width | narrow |  | 5  linear | |  |
| medium | ミラー が含まれている画像  自動的に生成された説明  1  ovate | (rounded)  3  elliptic | (parallel)  4  oblong | 時計 が含まれている画像  自動的に生成された説明  6  obovate |
| broad |  | A black and white drawing of a vegetable  AI-generated content may be incorrect.  2  circular | |  |
| irregular | | 三脚, 光 が含まれている画像  自動的に生成された説明 A black line drawing of a root  AI-generated content may be incorrect. アイコン が含まれている画像  自動的に生成された説明  7  irregular | | | |

## Proposed revision of characteristic 23 “Storage root: secondary color of skin”

*Current wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
| **23.** | **VG** | **Storage root: secondary color of skin** | **Racine de réserve : couleur secondaire de la peau** | **Speicherwurzel: Sekundärfarbe der Schale** | **Raíz tuberosa: color secundario de la piel** |  |  |
| **QN** |  | absent | absente | fehlend | ausente | Koganesengan | 1 |
|  |  | white | blanche | weiß | blanco | Tamayutaka | 2 |
|  |  | yellow | jaune | gelb | amarillo |  | 3 |
|  |  | orange | orange | orange | anaranjado |  | 4 |
|  |  | pink | rose | rosa | rosa | Koukei 14 | 5 |
|  |  | red | rouge | rot | rojo | Nakamurasaki | 6 |
|  |  | purple | pourpre | purpurn | púrpura | Benikomachi | 7 |
|  |  | brown | brune | braun | marrón | Koganesengan | 8 |

*Proposed new wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
| **23.** | **VG** | **Storage root: secondary color of skin** | **Racine de réserve : couleur secondaire de la peau** | **Speicherwurzel: Sekundärfarbe der Schale** | **Raíz tuberosa: color secundario de la piel** |  |  |
| **QN** |  | absent | absente | fehlend | ausente | ~~Koganesengan,~~　Beniazuma | 1 |
|  |  | white | blanche | weiß | blanco | ~~Tamayutaka~~ | 2 |
|  |  | yellow | jaune | gelb | amarillo |  | 3 |
|  |  | orange | orange | orange | anaranjado |  | 4 |
|  |  | pink | rose | rosa | rosa | ~~Koukei 14~~ | 5 |
|  |  | red | rouge | rot | rojo | Nakamurasaki | 6 |
|  |  | purple | pourpre | purpurn | púrpura | Benikomachi | 7 |
|  |  | brown | brune | braun | marrón | ~~Koganesengan~~ | 8 |

## Proposed revision of characteristic 24 “Storage root: main color of flesh”

*Current wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **24. (\*) (+)** | **VG** | **Storage root: main color of flesh** | **Racine de réserve : couleur de la chair** | **Speicherwurzel: Hauptfarbe des Fleisches** | **Raíz tuberosa: color principal de la pulpa** |  |  |
| **PQ** | **(e)** | white | blanche | weiß | blanco | Hayanmi,  Shirosengan | 1 |
|  |  | beige | beige | beige | beige | Nakamurasaki, Koukei 14 | 2 |
|  |  | yellow | jaune | gelb | amarillo | Benikomachi, Yulmi | 3 |
|  |  | orange | orange | orange | anaranjado | Benihayato, Hayatoimo, Juhwangmi | 4 |
|  |  | purple | pourpre | purpurn | púrpura | Ayamurasaki, Borami | 5 |

*Proposed new wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **24. (\*) (+)** | **VG** | **Storage root: main color of flesh** | **Racine de réserve : couleur de la chair** | **Speicherwurzel: Hauptfarbe des Fleisches** | **Raíz tuberosa: color principal de la pulpa** |  |  |
| **PQ** | **(e)** | white | blanche | weiß | blanco | Hayanmi,  Shirosengan | 1 |
|  |  | ~~beige~~ light yellow brown | ~~beige~~ brun-jaune clair | ~~beige~~ hellgelbbraun | ~~beige~~ marrón amarillento claro | ~~Nakamurasaki,~~ Koukei 14 | 2 |
|  |  | yellow | jaune | gelb | amarillo | Benikomachi, Yulmi | 3 |
|  |  | orange | orange | orange | anaranjado | Benihayato, Hayatoimo, Juhwangmi | 4 |
|  |  | pink | rose | rosa | rosa |  | 5 |
|  |  | red | rouge | rot | rojo |  | 6 |
|  |  | purple red | rouge-pourpre | purpurrot | rojo púrpura | Origin Ruby | 7 |
|  |  | purple | pourpre | purpurn | púrpura | Ayamurasaki, Borami | 8 |

[End of document]

1. held via electronic means, from May 27 to 30, 2024 [↑](#footnote-ref-2)