

Technical Working Party for Vegetables
TWV/51/4
Fifty-First Session
Roelofarendsveen, Netherlands, July 3 to 7, 2017
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**PARTIAL REVISION OF THE TEST GUIDELINES FOR ARTICHOKE, CARDOON
(DOCUMENT TG/184/4)**
Document prepared by an expert from Spain
Disclaimer: this document does not represent UPOV policies or guidance

1. The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Artichoke, Cardoon (document TG/184/4).
2. The Technical Working Party for Vegetables (TWV), at its fiftieh session, held in Brno, Czech Republic, from June 27 to July 1, 2016, agreed that the Test Guidelines for Artichoke, Cardoon (document TG/184/4) be partially revised in order to add a new characteristic male sterility (see document TWV/50/25 "Report", Annex IV).
3. The following changes are proposed:
 - (a) To add a new characteristic "Artichoke varieties only: Male sterility" after Characteristic 40 "Plant: number of lateral heads on main stem" at the end of the Table of Characteristics
 - (b) To add the new characteristic "Artichoke varieties only: Male sterility" as grouping characteristics for Artichoke to Chapter 5.3
 - (c) To add an explanation for the new characteristic "Artichoke varieties only: Male sterility" in Chapter 8.2 "Explanations for individual characteristics"
 - (d) To add the new characteristic "Artichoke varieties only: Male sterility" to Section 5.10 "Characteristics of the variety to be indicated" of Chapter 10 "Technical Questionnaire"
4. The proposed changes are presented below in highlight and underline (insertion).
5. Comments received on the proposed changes by the Subgroup of Interested Experts and the replies to those comments by the Leading Expert are presented in the Annex to this document.

Proposed change to add a new characteristic “Artichoke varieties only: Male sterility” after Characteristic 40
 “Plant: number of lateral heads on main stem” at the end of the Table of Characteristics

Current wording:

| 40. (*) | VG/MS | Plant: number of lateral heads on main stem | Plante : nombre de têtes latérales sur la tige principale | Pflanze: Anzahl seitlicher Blütenköpfe am Haupttrieb | Planta: número de capítulos laterales en el tallo principal | |
|------------|-------|---|---|--|---|-----------------|
| QN | | very few | très petit | sehr gering | muy escaso | 1 |
| | | few | petit | gering | escaso | Blanc hyérois 3 |
| | | medium | moyen | mittel | medio | Salambo 5 |
| | | many | grand | groß | elevado | Chrysanthème 7 |
| | | very many | très grand | sehr groß | muy elevado | Cynamed 9 |

Proposed new wording:

| 40. (*) | VG/MS | Plant: number of lateral heads on main stem | Plante : nombre de têtes latérales sur la tige principale | Pflanze: Anzahl seitlicher Blütenköpfe am Haupttrieb | Planta: número de capítulos laterales en el tallo principal | |
|-------------------|-------|---|---|--|---|---------------------------|
| QN | | very few | très petit | sehr gering | muy escaso | 1 |
| | | few | petit | gering | escaso | Blanc hyérois 3 |
| | | medium | moyen | mittel | medio | Salambo 5 |
| | | many | grand | groß | elevado | Chrysanthème 7 |
| | | very many | très grand | sehr groß | muy elevado | Cynamed 9 |
| 41. (*) (+) | VG | <u>Artichoke varieties only: Male sterility</u> | <u>Variétés d'artichaut uniquement : Stérilité mâle</u> | <u>Nur Artischockensorten: Männliche Sterilität</u> | <u>Sólo variedades de la alcachofa: Androesterilidad</u> | |
| QL | | <u>absent</u> | <u>absente</u> | <u>fehlend</u> | <u>ausente</u> | <u>Blanca de Tudela</u> 1 |
| | | <u>present</u> | <u>présente</u> | <u>vorhanden</u> | <u>presente</u> | 9 |

Proposed change to add the new characteristic “Artichoke varieties only: Male sterility” as grouping characteristics for Artichoke to Chapter 5.3

Current wording:

5.3 The following characteristics are used for grouping of varieties into Artichoke or Cardoon:

- (a) Midrib: thickness at 35 cm from base (characteristic 14)
- (b) Main stem: diameter (characteristic 19)
- (c) Central flower head: length (characteristic 20)
- (d) Central flower head: diameter (characteristic 21)
- (e) Outer bract: thickness at base (characteristic 39)
- (f) Plant: number of lateral heads on main stem (characteristic 40)

The following have been agreed as useful grouping characteristics within Artichoke:

- (a) Leaf: intensity of lobing (characteristic 3)
- (b) Artichoke varieties only: Main stem: time of beginning of elongation (characteristic 17)
- (c) Artichoke varieties only: Central flower head: shape in longitudinal section (characteristic 22)
- (d) Artichoke varieties only: Outer bract: violet color on external side (characteristic 30)

The following have been agreed as useful grouping characteristics within Cardoon:

- (a) Leaf: intensity of lobing (characteristic 3)
- (b) Cardoon varieties only: Midrib: color (characteristic 9)
- (c) Midrib: length of spines (characteristic 16)

Proposed new wording:

5.3 The following characteristics are used for grouping of varieties into Artichoke or Cardoon:

- (a) Midrib: thickness at 35 cm from base (characteristic 14)
- (b) Main stem: diameter (characteristic 19)
- (c) Central flower head: length (characteristic 20)
- (d) Central flower head: diameter (characteristic 21)
- (e) Outer bract: thickness at base (characteristic 39)
- (f) Plant: number of lateral heads on main stem (characteristic 40)

The following have been agreed as useful grouping characteristics within Artichoke:

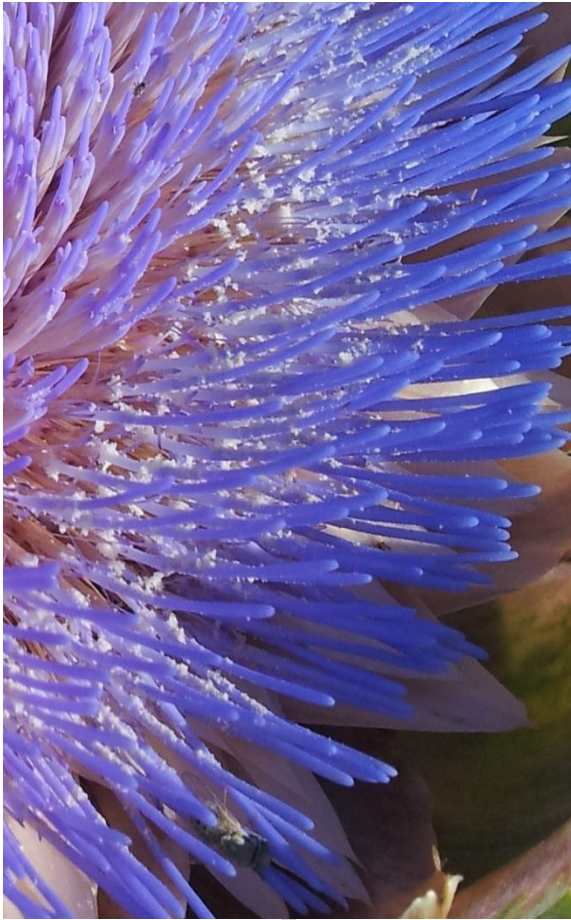
- (a) Leaf: intensity of lobing (characteristic 3)
- (b) Artichoke varieties only: Main stem: time of beginning of elongation (characteristic 17)
- (c) Artichoke varieties only: Central flower head: shape in longitudinal section (characteristic 22)
- (d) Artichoke varieties only: Outer bract: violet color on external side (characteristic 30)
- (e) Artichoke varieties only: Male sterility (characteristic 41)

The following have been agreed as useful grouping characteristics within Cardoon:

- (a) Leaf: intensity of lobing (characteristic 3)
- (b) Cardoon varieties only: Midrib: color (characteristic 9)
- (c) Midrib: length of spines (characteristic 16)

Proposal to add an explanation for the new characteristic “Artichoke varieties only: Male sterility” in Chapter 8.2 “Explanations for individual characteristics”

Ad. 41: Artichoke varieties only: Male sterility



1
absent



9
present

The male sterility up to now is present only in certain artichoke parent lines varieties. So no example variety is indicated for present.

Proposal to add the new characteristic “Artichoke varieties only: Male sterility” to Section 5.10
 “Characteristics of the variety to be indicated” of Chapter 10 “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 |
|---|--------------------|--------------|
| [...] | | |
| 5.12 (30) <u>Artichoke varieties only: Outer bract: violet color on external side</u> | | |
| absent to very weak | Harmony | 1 [] |
| weak | Violet de Provence | 2 [] |
| medium | Chrysanthème | 3 [] |
| strong | Concerto, Salambo | 4 [] |
| very strong | Velours | 5 [] |
| 5.13 (41) <u>Artichoke varieties only: Male sterility</u> | | |
| <u>absent</u> | | <u>1 []</u> |
| <u>present</u> | | <u>9 []</u> |
| [...] | | |

[Annex follows]

ANNEX

COMMENTS RECEIVED ON THE PROPOSED CHANGES BY THE SUBGROUP OF INTERESTED EXPERTS

France:

To add “Only for artichoke varieties” previous to the name of the characteristic, in several paragraphs of the draft.

Leading Expert: Incorporated to the draft

European Seed Association (ESA)

ESA together with ISF have one more comment about the artichoke UPOV protocol. In fact we prefer to remove the reference variety XXX as this is a parental line. The example pictures speak for themselves and the reference variety is not adding in this particular case. If possible a hybrid should be mentioned

Leading Expert: Example variety for present is deleted in the draft. A sentence is added to the explanation Ad 41.

[End of Annex and of document]