



Technical questionnaire

Maize

Version 8

Mandatory fields or sections are marked with an asterisk ()*

01 . Botanical taxon: name of the genus, species or sub-species to which the variety belongs:

Zea mays L.

02 . Application code:

For office use only

03 . Breeder's reference:

Breeder's Ref.

04 . Information on the breeding scheme and propagation of the variety *

04 . 01 . Breeding scheme *

04 . 01.01 . Type of material *

(this question could be confidential)

inbred line

Please specify the genetic origin:

single-cross hybrid

three-way cross hybrid

double-cross hybrid

open-pollinated variety

other

Indicate formula

04 . 01.01.01 . Variety use *

agricultural

sweet

pop

04 . 01.02 . Variety resulting from: *

04 . 01.02.01 . Crossing

(this question could be confidential)

controlled cross (indicate parent varieties)

partially known cross (indicate known parent variety(ies))

unknown cross

04 . 01.02.02 . Mutation

(this question could be confidential)

Please state parent variety

04 . 01.02.03 . Discovery and development *

(this question could be confidential)

Please state when the variety was discovered *

Please state where the variety was discovered *

Please state how the variety has been developed *

04 . 01.02.04 . Other information on the origin of the variety

(this question could be confidential)

Please specify

04 . 02 . Method of propagation of the variety *

04 . 02.01 . In the case of hybrid varieties the production scheme should be provided. This should provide details of all the parent lines required for propagating the hybrid e.g.

04 . 02.01.01 . Single hybrid*(this question could be confidential)*

| | |
|---|---|
| Denomination or breeder's reference of female parental line of single hybrid | Denomination or breeder's reference of male parental line of single hybrid |
|---|---|

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

04 . 02.01.02 . Three-Way hybrid

female parent of single hybrid - A

male parent of single hybrid - B

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

single hybrid used as parent - AB

male or female parent of three-way hybrid - C

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

Three-way hybrid - (AB)C

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

04 . 02.01.03 . Double Hybrid

female parent of single hybrid - A

male parent of single hybrid - B

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

female parent of single hybrid - C

male parent of single hybrid - D

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

single hybrid A x B used as female parent

single hybrid C x D used as female parent

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

Double hybrid (AB) (CD)

| | | |
|---|-----|---|
| (|)x(|) |
|---|-----|---|

04 . 02.01.04 . The production scheme should identify in particular:*(this question could be confidential)*

any male sterile female parent lines

maintenance system of male sterile female parent lines

04 . 02.02 . Open-pollinated variety*(this question could be confidential)*

Please provide details

04 . 02.03 . Other information on the method of propagating the variety*(this question could be confidential)*

Please specify

04 . 03 . Notification concerning a technical examination carried out with a DUS system of breeders participation (e.g. French maize testing system) *

In case of hybrids, please give the requested information for each component too (you may use the confidential part of the technical questionnaire to indicate this information):

No, the variety has not been notified for being tested under such system

Yes, the variety has been notified for being tested under this system

Breeder's Ref.

04 . 03.01 . Breeders participation system

If you notified the Examination Office on your intention to use the breeders participation system (for the hybrid and/or its components), please attach a copy of the notification(s)

05 . Characteristics of the variety to be indicated *

(the number in brackets refers to the corresponding characteristic in the CPVO Technical Protocol; please mark the state of expression which best corresponds)

05 . 01 . Tassel: time of anthesis (6) (G) *

| | |
|-------------------------|--|
| 1 - very early | Please indicate comparable variety(ies) of your choice |
| 2 - very early to early | Please indicate comparable variety(ies) of your choice |
| 3 - early | Please indicate comparable variety(ies) of your choice |
| 4 - early to medium | Please indicate comparable variety(ies) of your choice |
| 5 - medium | Please indicate comparable variety(ies) of your choice |
| 6 - medium to late | Please indicate comparable variety(ies) of your choice |
| 7 - late | Please indicate comparable variety(ies) of your choice |
| 8 - late to very late | Please indicate comparable variety(ies) of your choice |
| 9 - very late | Please indicate comparable variety(ies) of your choice |

05 . 02 . Tassel: anthocyanin coloration at base of glume (7) (G) *

| | |
|---------------------------|--------------------|
| 1 - absent or very weak | W117, Royalty (SC) |
| 2 - very weak to weak | |
| 3 - weak | F66, Boston (SC) |
| 4 - weak to medium | |
| 5 - medium | F107 |
| 6 - medium to strong | |
| 7 - strong | EP1 |
| 8 - strong to very strong | |
| 9 - very strong | |

05 . 02.01.00 . Tassel: anthocyanin coloration of glumes excluding base (8)

1 - absent or very weak

2 - very weak to weak

3 - weak

4 - weak to medium

5 - medium

6 - medium to strong

7 - strong

8 - strong to very strong

9 - very strong

05 . 02.02.00 . Tassel: anthocyanin coloration of anthers (9)

1 - absent or very weak

2 - very weak to weak

3 - weak

4 - weak to medium

5 - medium

6 - medium to strong

7 - strong

8 - strong to very strong

9 - very strong

05 . 03.00 . Ear: anthocyanin coloration of silks (14) (G) *

1 - absent or very weak

2 - very weak to weak

3 - weak

4 - weak to medium

5 - medium

6 - medium to strong

7 - strong

8 - strong to very strong

9 - very strong

05 . 04.01 . Only inbred lines and varieties with ear type of grain: sweet or pop: Plant: length (22.1) (G) *

| | |
|-------------------------|--|
| 1 - very short | Please indicate length in cm and/or comparable example varieties |
| 2 - very short to short | Please indicate length in cm and/or comparable example varieties |
| 3 - short | Please indicate length in cm and/or comparable example varieties |
| 4 - short to medium | Please indicate length in cm and/or comparable example varieties |
| 5 - medium | Please indicate length in cm and/or comparable example varieties |
| 6 - medium to long | Please indicate length in cm and/or comparable example varieties |
| 7 - long | Please indicate length in cm and/or comparable example varieties |
| 8 - long to very long | Please indicate length in cm and/or comparable example varieties |
| 9 - very long | Please indicate length in cm and/or comparable example varieties |

05 . 04.02 . Only hybrids and open-pollinated varieties, excluding varieties with ear type of grain: sweet or pop:
Plant: length (22.2) (G) *

| | |
|-------------------------|--|
| 1 - very short | Please indicate length in cm and/or comparable example varieties |
| 2 - very short to short | Please indicate length in cm and/or comparable example varieties |
| 3 - short | Please indicate length in cm and/or comparable example varieties |
| 4 - short to medium | Please indicate length in cm and/or comparable example varieties |
| 5 - medium | Please indicate length in cm and/or comparable example varieties |
| 6 - medium to long | Please indicate length in cm and/or comparable example varieties |
| 7 - long | Please indicate length in cm and/or comparable example varieties |
| 8 - long to very long | Please indicate length in cm and/or comparable example varieties |
| 9 - very long | Please indicate length in cm and/or comparable example varieties |

05 . 04.03 . Only sweet or pop: Ear:length (26) *

| | |
|-------------------------|--|
| 1 - very short | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 2 - very short to short | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 3 - short | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 4 - short to medium | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 5 - medium | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 6 - medium to long | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 7 - long | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 8 - long to very long | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 9 - very long | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |

05 . 04.04 . Only sweet or pop: Ear: diameter (in middle) (27) *

| | |
|-------------------------|--|
| 1 - very small | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 2 - very small to small | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 3 - small | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 4 - small to medium | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 5 - medium | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 6 - medium to large | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 7 - large | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 8 - large to very large | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 9 - very large | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |

05 . 04.05 . Only sweet or pop: Ear: shape (28) *

| | |
|------------------------|----------------------|
| 1 - conical | F16, Wombat (SC) |
| 2 - conico-cylindrical | F816, Centurion (SC) |
| 3 - cylindrical | F66, GH2547 (SC) |

05 . 04.06 . Only sweet or pop: Ear: number of rows of grain (29) *

| | |
|-----------------------|--|
| 1 - very few | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 2 - very few to few | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 3 - few | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 4 - few to medium | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 5 - medium | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 6 - medium to many | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 7 - many | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 8 - many to very many | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |
| 9 - very many | Please fill in a well known variety and the raw data requested for both varieties, candidate and well known variety. |

05 . 04.07 . Only sweet or waxy: Ear: number of colours of grains (30) *

- 1 - one
- 2 - two

05 . 05.00 . Ear: type of grain (34) (G) *

- 1 - flint
- 2 - flint-like
- 3 - intermediate
- 4 - dent-like
- 5 - dent
- 6 - sweet
- 7 - pop
- 8 - waxy
- 9 - flour

05 . 05.01 . Only sweet: Ear: shrinkage of top of grain (35) *

- | | |
|----------------------|-----------------|
| 1 - weak | Zarja (SC) |
| 2 - weak to medium | |
| 3 - medium | Merkur (SC) |
| 4 - medium to strong | |
| 5 - strong | Dessert 73 (SC) |

05 . 05.02.00 . Ear: colour of top of grain (36) *

- 1 - white
- 2 - yellowish white
- 3 - yellow
- 4 - yellow orange
- 5 - orange
- 6 - red orange
- 7 - red
- 8 - purple
- 9 - brownish
- 10 - blue black

05 . 06.00 . Excluding varieties with ear type of grain: sweet: Ear: colour of dorsal side of grain (37) *

- 1 - white
- 2 - yellowish white
- 3 - yellow
- 4 - yellow orange
- 5 - orange
- 6 - red orange
- 7 - red
- 8 - purple
- 9 - brownish
- 10 - blue black

05 . 07.00 . Ear: anthocyanin coloration of glumes of cob (39) (G) *

1 - absent or very weak

2 - very weak to weak

3 - weak

4 - weak to medium

5 - medium

6 - medium to strong

7 - strong

8 - strong to very strong

9 - very strong

06 . Similar varieties and differences from these varieties

Please note that the information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing.

06 . 01 . Are there any similar varieties known? *

Yes

No

06 . 02 . Similar varieties and differences from these varieties: *

| Denomination of similar variety | Characteristic in which the similar variety is different | State of expression of similar variety | State of expression of candidate variety |
|---------------------------------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

07 . Additional information which may help to distinguish the variety *

07 . 01 . In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? *

Yes, specify

No

07 . 02 . Are there any special conditions for growing the variety or conducting the examination? *

Yes, specify

No

07 . 03 . Other information *

07 . 03.01 . Sweet corn varieties only: type

normal sweet varieties (su1)

sugary enhanced varieties (se)

super sweet varieties (sh2)

other type

Please specify

07 . 03.03 . Other information *

Yes, specify

No

07 . 04 . Resistance to pests and diseases *

Yes, specify

No

08 . GMO-information *

08 . 01 . GMO-information required *

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

Yes

If yes, please attach in point 08.02 a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

No

08 . 02 . In case of GMO, joint attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

DECLARATIONS *

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Place

Date

Name

Signature