

## Technical questionnaire

### Maize (agricultural, pop- and sweetcorn)

#### Version 8

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

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

*Zea mays* L.

*Zea mays* L. subsp. *mays* (Maize Group)

*Zea mays* L. subsp. *mays* (Popcorn Group)

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#### 02 . Application code:

For office use only

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#### 03 . Breeder's reference

Breeder's Ref.

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#### 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
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(		)x(
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**04 . 02.01.02 . Three-Way hybrid**

female parent of single hybrid - A

male parent of single hybrid - B

(		)x(
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single hybrid used as parent - AB

male or female parent of three-way hybrid - C

(		)x(
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Three-way hybrid - (AB)C

(		)x(
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**04 . 02.01.03 . Double Hybrid**

female parent of single hybrid - A

male parent of single hybrid - B

(		)x(
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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(
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Double hybrid (AB) (CD)

(		)x(
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**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

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

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**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