



CORN SEED MOLTIPLICATION IN ITALY: 6,000 ha





The seed of maize may not be placed on the market unless it has been officially certified as "basic seed" or "certified seed".

Hybrids and inbred lines of maize should be sufficiently uniform and stable variety.



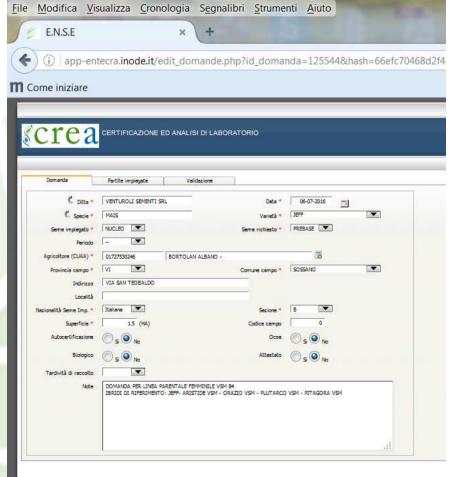


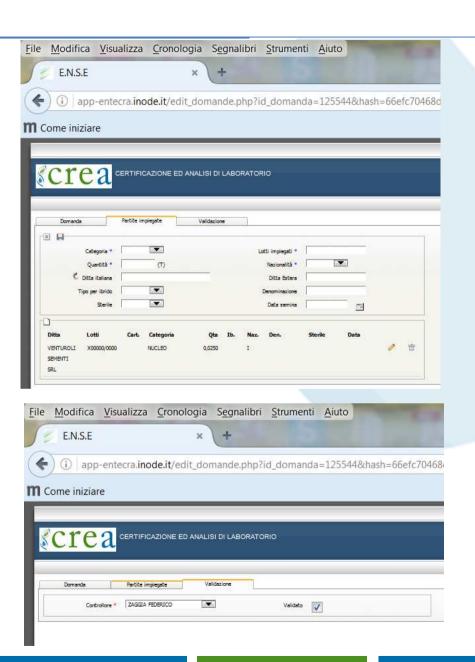
CORN FIELD INSPECTION

FIELD DATA:

- Name of hybrid or parental lines
- Farmer
- Ratio M/F (only for hybrid)
- Seed sown (lot number, category.....)







At least the following number of official field inspections shall be made: 3

The field shall be so cultivated and the crop at such a stage of development as to permit an adequate check of identity and varietal purity, of health status and, in the case of maize, of the identity and purity of inbred lines and of emasculation for the production of seed of hybrid varieties.



For maize, the minimum distances from neighbouring crops of other varieties or inbred lines of the same species and from crops of the same variety or inbred lines which do not comply with the conditions for purity for the production of seed of the same category shall be:

Crop	Minimum distance
for the production of basic seed of simple hybrids, open-pollinating varieties, parental lines	200 m

For simple hybrid the field should be surrounded by two rows of male







	Crop	Minimum distance
for	the production of certified seed	200 m

These distances can be disregarded if there is sufficient protection from any undesirable foreign pollination.

e.g.: 1 row of the same pollinator (excluding the rows included in the field) every 10 meters of lack of minimum distance. The row of the same pollinator should be not more than 10 meters far from the field. The distance of undesirable foreign pollination should not be lass than 70 meters.

The rows of protection should shed pollen sufficiently.





The presence of undesiderable foreign pollination from different color varieties from that in the crop or from sweet corn, at a distance less than prescribed, can not be tolerated even with the presence of border rows.



They must also be considered foreign pollinators:

- mixtures for grass, even if sterile, if not harvested before flowering
- not certified crops (even if sterile and even if with the same pollinator)

Crops of corn in different cycle of maturity are not considered undesiderable if the difference between flowering is more than 20 days running from the beginning of the flowering of a field by the end of flowering of the other field or vice versa.

26/07/2016



VARIETAL IDENTITY AND PURITY



For seed crops of open-pollinated corn, hybrid corn and inbred lines of corn, in order to assess the variety the seed crop inspector should have the description of the variety, or the male and/or female parental lines being inspected.

Off-types may have one or more traits differing from the normal characteristics of the variety or inbred line.

Traits showing differences include, but are not limited to:

- antocyanin coloration of brace roots;
- time of flowering
- antocyanin coloration at base of glume;
- antocyanin coloration of glumes excluding base;
- antocyanin coloration of fresh anters;
- density of spikelets;
- angle between main axes and lateral branches;
- curvature of lateral branches;
- number of primary lateral branches;
- time of silk emergence;
- antocyanin coloration of silk;
- antocyanin coloration of sheath;

the percentage by number of plants which are recognisable as obviously not being true to the inbred line or to the component shall not exceed:

1. for the production of basic seed:	
- inbred lines	0.1 %
- simple hybrids (each component)	0.1 %
- open pollination	0.5 %
2. for the production of certified seed:	
a. components of hybrid variety	
- imbred line	0.2 %
- simple hybrid	0.2 %
- open pollination variety	1.0 %
b. open pollination variety	1.0 %



Counts for Receptive Silks and Tassels Shedding Pollen

With regard to emasculation for the production of seed of hybrid varieties, the seed crop inspector must take a minimum of three counts of 200 plants per count for fields less than 2 hectares and a minimum of five counts of 200 plants per count for field more than 2 hectares to measure the percentages of receptive silks, and shedding tassels.



The seed crop inspector must conduct the counts at a time when at least 5% of the female parent plants have receptive silks.

The percentage of plants of the female parent ascertained to have emitted pollen shall not exceed 1% at any one official field inspection and shall not exceed 2% in all the official field inspections carried out.

The stigmas are considered receptive when emerging from the ear for at least 1 cm





OTHER DESEASES:



Diabrotica virgifera:

containment programmes to limit the further spread of <u>Diabrotica virgifera virgifera</u> Le Conte in Community areas where its presence is confirmed

Pantoea stewartii





P. stewartii subsp. stewartii may be transmitted in seed and occasionally overwinters in maize stalks

On sweetcorn

Susceptible hybrids wilt rapidly leaves develop palegreen to yellow, longitudinal streaks, with irregular or wavy margins

On corn

Hybrids are generally resistant to the wilt phase, but are susceptible to leaf blight



REPORT

The Report should be completed by the seed crop inspector as soon as possible after the three detailed inspections have been completed as follow:

- the date and time of each detailed inspection visit;
- respected of the distances to potential contaminating sources;
- counts for:
 - female plants with silks;
 - female plants with receptive silks;
 - male plants with tassels shedding pollen;
 - female plants with tassels shedding pollen;



- contaminating corn plants with tassels shedding pollen; and
- off-types and their descriptions (male and female);
- hectares approved and/or rejected;
- estimation of production;
- seed lot used for sowing;
- number of male and female rows;

All required reports must be completed in full, and include the seed crop inspector's signature and the applicant's signature.



VERBALE DI CONTROLLO IN CAMPO

CRA-SCS

CENTRO DI SPERIMENTAZIONE E CERTIFICAZIONE DELLE SEMENTI



Date of Sowing 05-05-2016

Field n. MO11

Variety X13H045

CORN (ZEA MAYS)

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VERBALE DI CONTROLLO IN CAMPO

Campo 0 Specie MAIS Seminato il Varietà LICA29S17

CRA-SCS

CENTRO DI SPERIMENTAZIONE E CERTIFICAZIONE DELLE SEMENTI

PARTITA NUMERO : **B08729201500**

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DELL'ECONOMIA AGRARIA

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VERBALE DI CONTROLLO IN CAMPO SOTTO SORVEGLIANZA UFFICIALE

(ART. 26 BIS DEL D.P.R 1065/73)

Campo CA19	Specie	MAIS	
Seminato il 22-04-2015	Varietà	P1758	

CRA-SCS

CENTRO DI SPERIMENTAZIONE E CERTIFICAZIONE DELLE SEMENTI

Attività di gestione ex ense

PARTITA NUMERO: B059932015A0



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