



TWINNING
BA/12/IB/AG 01
Sarajevo, 2016/07/24-29

Corn field inspections



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Giovanni Corsi

CORN SEED MULTIPLICATION IN ITALY: 6,000 ha



NO OGM
(legislation for monitoring italian seed production and re-packaging and re-labelling seed)

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.....)

File Modifica Visualizza Cronologia Segnalibri Strumenti Aiuto

E.N.S.E

app-entecra.inode.it/edit_domande.php?id_domanda=125544&hash=66efc70468d2f4

m Come iniziare

crea CERTIFICAZIONE ED ANALISI DI LABORATORIO

Domande Partite impiegate Validazione

Ditta * VENTUROLI SEMENTI SRL Data * 06-07-2016

Specie * MAIS Varietà * JEFF

Seme impiegato * NUCLEO Seme richiesto * PREBASE

Periodo * --

Agricoltore (CUAA) * 01727530246 BORTOLAN ALBANO -

Provincia campo * VI Comune campo * SOSSANO

Indirizzo VIA SAN TEOBALDO

Località

Nazionalità Seme Imp. * Italiana Sezione * B

Superficie * 1.5 (HA) Codice campo 0

Autocertificazione S No

Biologico S No

Oltre S No

Attestato S No

Tardività di raccolta

Note
DOMANDA PER LINEA PARENTALE FEMMINILE VSM 84
IBRIDI DI RIFERIMENTO: JEFF- ARISTIDE VSM - ORAZIO VSM - PLUTARCO VSM - PITAGORA VSM

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Categoria * Lotti impiegati *

Quantità * (T) Nazionalità *

Ditta italiana Ditta Estera

Tipo per ibrido Denominazione

Sterile Data semina

Ditta	Lotti	Cart.	Categoria	Qta	Ib.	Naz.	Den.	Sterile	Data
VENTUROLI SEMENTI SRL	X00000/0000		NUCLEO	0,0250	I				

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Controllare * ZAGGIA FEDERICO Validato

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 less than 70 meters.

The rows of protection should shed pollen sufficiently.



The presence of undesirable 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 undesirable 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.

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 anthers;
- 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	
- inbred 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

DESEASES



Diseases which reduce the usefulness of the seed, in particular Ustilagineae, shall be at the lowest possible level.

OTHER DESEASES:



Diabrotica virgifera:

containment programmes to
limit the further spread of
Diabrotica virgifera virgifera
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 pale-green 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**

Field n. MO11
Date of Sowing 05-05-2016

Specie CORN (ZEA MAYS)
Variety X13H045

LOT NUMBER : **B09491201600**

Applicant	PIONEER HI-BRED ITALIA SEMENTI SRL		
Farmer	SOC.AGR.SOGESTA DI MISEROCCHI M.C. E AL.	Province RA	Comune RAVENNA Frazione
Seed Category	BASIC	Address	località San Marco - Via Santuzza, 32
Surface of seed multiplication (ha)	47,9500		

Date	NUMBER OF FIELD INSPECTION	ISOLATION	EMASCULATION	% INFLORESCENZE		NOTE
				% ♂	% ♀	
	1					
	2					
	3					
	4					
	5					

Approved ha	Expected production t/ha	Disapproved ha

Data relating to the seed sown

Male		Cat.		Seed origin		Lot number	Parental lines:
Number of official labels				Kg.			
Female		Cat.		Seed origin		Lot number	
Number of official labels				Kg.			

Seeding ratio	$\frac{\sigma}{\varphi}$	N. _____	MALE STERILITY OF FEMALE LINE	<input type="checkbox"/>	<input type="checkbox"/>
		N. _____		YES	NO

NOTES OF THE OFFICE
HYBRID IN PROGRESS FOR LISTING (2 nd YEAR OF TESTING)

NAME AND SURNAME OF THE FIELD CERTIFIER (SIGNATURE)

APPLICANT (SIGNATURE)

VERBALE DI CONTROLLO IN CAMPO

CRA-SCS

CENTRO DI SPERIMENTAZIONE E CERTIFICAZIONE DELLE SEMENTI



Campo 0
Seminato il

Specie MAIS
Varietà LICA29S17

PARTITA NUMERO : **B08729201500**

Ditta Richiedente	COOPSEMENTI SOC.COOP.AGRICOLA		
Coltivatore	GUARATO ALBANO	Provincia VI	Comune SOSSANO Frazione
Categoria seme imp.	NUCLEO	Indirizzo	
Superficie richiesta ha	1,0000		

DATA	VISITE	ISOLAMENTO	EMASCU LAZIONE	% INFIORESCENZE		NOTE
				% ♂	% ♀	
04/07	1	RISPARMIATO				
16/07	2		FUORI TIPO 04			
25/07	3		FUORI TIPO 05			
07/08	4					VERIFICA PRIMA ZONA
	5					

DATI INERENTI AL SEME IMPIEGATO

Approvati ha	Produzione prevista t/ha	Disapprovati ha
1-2	20-22	

Maschio		Cat.		Provenienza		Lotti		Linee parentali:
N° cart. ritirati				Kg. Tot. utilizzati				
Femmina		Cat.		Provenienza		Lotti		
N° cart. ritirati				Kg. Tot. utilizzati				

Rapporto semina ♂ N. / ♀ N. LINEA FEMMINILE MASCHIO STERILE SI NO

Spazio riservato all'Ufficio CRA-SCS

gl62(imp) *sup.*

COGNOME E NOME DEL TECNICO

ZAGGIA FEDERICO

[Handwritten signature]

PER IL RICHIEDENTE

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COOPSEMENTI SOSSANO (VI)

**VERBALE DI CONTROLLO IN CAMPO
SOTTO SORVEGLIANZA UFFICIALE
(ART. 26 BIS DEL D.P.R. 1065/73)**

CRA-SCS

**CENTRO DI SPERIMENTAZIONE E CERTIFICAZIONE
DELLE SEMENTI**

Attività di gestione ex ense

PARTITA NUMERO : **B059932015A0**



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

Ditta Richiedente	PIONEER HI-BRED ITALIA SEMENTI SRL		
Coltivatore	SOC.AGR.SAN BASILIO SS	Provincia	RO
		Comune	ARIANO NEL POLESINE
		Frazione	
Categoria seme imp.	BASE	Indirizzo	VIA SAN BASILIO, 56
Superficie richiesta ha	31,9300		

DATA	VISITE	ISOLAMENTO	EMASCULAZIONE	% INFIORESCENZE		NOTE
				% ♂	% ♀	
30/06	1	RISPETTATO			<5	INVESTIMENTO DELLA LINEA
03/07	2		TOLLERABILE	0	>5	MASCHILE RIDOTTO IN ALCUNE
07/07	3			0,1	>5	ZONE DELL'ADDESSAMENTO
13/07	4			0	>5	
	5					

DATI INERENTI AL SEME IMPIEGATO

Approvati ha	Produzione prevista t/ha	Disapprovati ha
31,43	4,3	0

Maschio	PHCHP	Cat.	BASE	Provenienza	N. ZELANDA	Lotti	F0673H198819A04	Linee parentali:
N° cart. ritirati	12			Kg. Tot. utilizzati	240			PHCHP
Femmina	PHV5Y	Cat.	BASE	Provenienza	FRANCIA	Lotti	F0673K473007A04	PHV5Y
	28				560			

Rapporto semina ♂ N. 2 LINEA FEMMINILE MASCHIO STERILE SI NO
 ♀ N. 6

Spazio riservato all'Ufficio CRA-SCS
TECNICO SCACCAGLIA MATTEO

COGNOME E NOME DEL TECNICO AUTORIZZATO
SCACCAGLIA MATTEO

PER IL RICHIEDENTE