

**FORMAT FOR THE PRESENTATION OF THE RESULT OF
DELIBERATE RELEASE INTO THE ENVIRONMENT OF
GENETICALLY MODIFIED HIGHER PLANTS
IN ACCORDANCE WITH ARTICLE 10 OF DIRECTIVE 2001/18/EC**

1 GENERAL INFORMATION

1.1 European notification number: B/ES/05/17

1.2 Member State of notification: Spain

1.3 Date of consent and consent number: May 3rd 2005 in Navarra, May 24th 2005 in Madrid, June 6th 2005 in Cataluña

2 REPORT STATUS

2.1 Please indicate whether, according to Article 3 of the present Decision, the current report is:

- the final report
- ~~a post-release monitoring report~~
- ~~final~~ — ~~intermediary~~

3 CHARACTERISTICS OF THE RELEASE

3.1 Scientific name of the recipient organism: *Zea mays*

3.2 Transformation event(s) (acronym(s) or vectors¹ used (if transformation event identity not available): 59122x1507xNK603

3.3 Unique identifier, if available : DAS-59122-7xDAS-Ø15Ø7-1xMON-ØØ6Ø3-6

3.4 Please provide the following information as well as the field(s) layout:

¹ In the case of small-scale field trials where several lines may be tested, the vectors used should be mentioned, which gives insight into the introduced traits and/or genetic elements. In the case of larger-scale trials, the number of events notified is limited to only one or a few events.

Geographical location(s) (administrative region and, where appropriate, grid reference)	Size of the release site(s) (²) (m ²)	Identity (³) and approximate number of GM higher plants per event actually released (number of seeds/plants per m ²)	Duration of the release(s) (from ... (day/month/year... until... (d/m/y)
Alguaire Lérida (Cataluña)	- Total surface of the release: 36437m ² - GM plant area: 5606m ²	59122x1507xNK603 maize: ~ 6 plants/m ²	From: 27/06/05 to: 03/12/05
Alpicat Lérida (Cataluña)	- Total surface of the release: 1734m ² - GM plant area: 95m ²	59122x1507xNK603 maize: ~ 6 plants/m ²	From: 29/06/05 to: 09/12/05
Estremera (Madrid)	- Total surface of the release: 689m ² - GM plant area: 23m ²	59122x1507xNK603 maize: ~ 6 plants/m ²	From: 21/06/05 to: 20/12/05
Fustiñana (Navarra)	- Total surface of the release: 689 m ² - GM plant area: 23m ²	59122x1507xNK603 maize: ~ 6 plants/m ²	From: 07/07/05 to: 13/12/05

(²) Specify the size of the GM area and, where appropriate, the size of the non-GM area (e.g. non-GM border)

(³) Vectors used

See the trial layouts in Annex 1.

4 ANY KIND OF PRODUCT THAT THE NOTIFIER INTENDS TO NOTIFY AT A LATER STAGE

4.1 Does the notifier intend to notify the released transformation event(s) as product(s) for placing on the market under Community legislation(s) at a later stage ?

- YES (by another juridical entity of the group) NO Unknown to date

If yes, indicate the country(ies) of notification: via EFSA (the European Food Safety Authority)

If yes, specify for which use(s):

- Import
- Cultivation (eg ; seed/planting material production)
- Food
- Feed
- Pharmaceutical use (or processing for pharmaceutical use)
- Processing for
 - Food use
 - Feed use
 - Industrial use
- Others (specify) : It will be used like any commercial maize

5 TYPE(S) OF DELIBERATE RELEASE(S)

Please select the main type(s) (in boxes) as well as subtype(s) of the release(s). In the case of multi-sites, multi-events and/or multi-annual release(s), please provide a general overview of the type(s) of deliberate release(s) which has/have been carried out for the full duration of the consent. Please tick the appropriate type(s):

5.1 Deliberate release(s) for research purposes

5.2 Deliberate release(s) for development purposes

- Event screening

- Proof of concept ²

- Agronomic performances (e.g. efficiency/selectivity of plant protection product, yield capacity, germination capacity, crop establishment, plant vigour, plant height, susceptibility to climatic factors/diseases, etc.) (specify)

- Altered agronomic properties (e.g. disease/pest/drought/frost-resistance, etc.) (specify)

- Altered qualitative properties (prolonged shelf-life, enhanced nutritional value, modified composition, etc.) (specify)

- Stability of the expression

- Multiplication of lines

² For example, testing the new trait under environmental conditions.

- Hybrid vigour study
- Molecular farming³
- Phyto-remediation
- Others : (specify) Collect the data required by the EU community regulations for the placing on the market of varieties which may be sprayed with the registered herbicide

5.3 Official testing

- Variety registration on a national variety catalogue
 - DUS (=Distinctness, Uniformity and Stability)
 - VCU (=Value of Cultivation and Use)
- Others : (specify) :

5.4 Herbicide authorization

5.5 Deliberate release(s) for demonstration purposes

5.6 Seeds multiplication

5.7 Deliberate release(s) for biosafety/risk assessment research

- Vertical gene transfer studies
 - Out-crossing with conventional crops
 - Out-crossing with wild relatives
- Horizontal gene transfer studies (gene transfer to micro-organisms)
- Management of volunteers
- Potential changes in persistence or dispersal
- Potential invasiveness
- Potential effects on target organisms
- Potential effects on non-target organisms
- Observation of resistant relatives
- Observation of resistant insects
- Others : (describe)

5.8 Other(s) type(s) of deliberate release(s) :

(Describe) :

³ « Molecular farming » means the production of substances (for instance, proteins, pharmaceuticals) by plants, which have been genetically modified for a particular trait. “Molecular farming” could be defined as well as the production of plant-synthesized pharmaceuticals, plant-made pharmaceuticals, plant-based proteins production, etc.

6 METHOD(S), RESULT(S) OF THE RELEASE, MANAGEMENT AND MONITORING MEASURE(S) IN RESPECT OF ANY RISK TO HUMAN HEALTH OR THE ENVIRONMENT

6.1 Risk management measure(s)

Please report the risk-management measures, which have been used to avoid or minimize the spread of the GMO(s) outside the site(s) of release, and in particular those measures:

- Which were not originally notified in the application,
- Which were applied in addition to the conditions in the consent,
- Which the consent required only under certain conditions (e.g. dry periods, flooding),
- For which the consent allowed the notifier a choice among different measures.

Tick the examples where appropriate:

6.1.1 Before the sowing/planting:

- Clear labelling of the GM seeds (distinct from other seeds/tubers/etc.) (describe)
Seeds were packed in paper bags which remained closed until planting. Each paper bag was clearly labeled with the test entry code comparable to the code in the protocol. Each paper bag contained the seed for one plot.
- Segregation during the processing and transport of the seed/planting material (describe the method involved; provide example(s) of containment to prevent spillage during the processing and transport)
Transport of the seed to the field was done on the day of planting, in the original bags in which the seed was received, ordered according to the trial design, and placed inside conveniently closed boxes. No processing was done to the seed before planting.
- Destruction of superfluous seeds/planting material (describe the method involved).
The remaining genetically modified seed were burnt on the site of release.
- Temporal isolation (specify)
- Rotation (specify the previous crop)
- Other(s): (specify)

6.1.2 During the sowing/planting activities:

- Method of sowing/planting (describe)
Seeds were planted manually, with a sowing machine or with a special sowing machine designed for micro-plot testing, depending on the trials.
- Emptying and cleaning of the sowing machinery on the field of release
After each individual plot sowing, the seeds remaining in the machine (if any) were sown at the end of the plot. That way, all the seeds intended to be planted in that plot were planted in the surface limited for that purpose. The sowing machine was carefully cleaned before leaving the site of release.
- Segregation during the sowing (provide example of containment to prevent spillage during the sowing/planting)
No seed mixing occurred as the seeds for each plot came to the field in individual bags, and each bag was opened only once the previous plot was planted and the machine cleaned.
- Other(s): (specify)
Nobody from outside the company got access to the experimental seeds.

6.1.3 During the period of release

- Isolation distance (x meters)

- From sexually compatible commercial plant species

An isolation distance of at least 200 m was kept from any other maize crops.

In the location of Fustiñana (Navarra), we noticed a plot planted with maize after the planting of the trials at a distance lower than 200 m. We immediately informed the competent authority of the “Gobierno de Navarra” and it was agreed that this maize plot would be destroyed before it could be pollinated by the genetically modified plants from our trials. This maize plot was destroyed before the flowering of the genetically modified plants, which was verified by a representative of the “Departamento de Agricultura Ganadería y Alimentación del Gobierno de Navarra” on July 22.

- ~~From sexually compatible wild relatives~~

- Border rows (with the same crop or a different one, with a non-transgenic crop, x meters, etc)

Four border rows of non-genetically modified maize of a similar relative maturity were planted around the trial. At the end of the release, these border rows were destroyed like the rest of the plants in the trial.

- Cage/net/fence/signpost (specify)

- Pollen trap (specify): Four border rows of non-genetically modified maize of a similar relative maturity were planted around the trial as a pollen trap. At the end of the release, these border rows were destroyed like the rest of the trial.

- Removal of GM inflorescences before flowering (indicate the frequency of removal)

In some of the trials carried out in Alguaire (Lérida) and Alpicat (Lérida), inflorescences of the genetically modified plants were removed before flowering.

- Other(s): (specify)

For the needs of certain studies in Alguaire (Lérida), Alpicat (Lérida), Estremera (Madrid), Fustiñana (Navarra), the inflorescences of the genetically modified plants used for samplings were bagged prior to flowering (daily monitoring of the trial from some days before flowering to the end of auto-pollinations). After pollinations, the tassels were cut, some of them only remaining bagged for the samplings.

In one type of trial, carried out in Alguaire (Lérida), a second planting was done on November 4, 2005 but the plants did not emerge due to the low temperatures.

6.1.4 At the end of the release

- Harvest/destruction methods (of crop or part of it) / other means (e.g.: sampling) (describe)

Different plant tissues were sampled at several stages of maize development in view of their analysis in a specialized laboratory. The remaining plant materials were destroyed by several chopping and/or disks and incorporated into the soil by ploughing.

- Harvest / destruction before the ripeness of the seeds

In one trial carried out in Alguaire (Lérida), the plants were destroyed before they reach the physiological maturity stage of the grain. All the plant material was chopped and incorporated into the soil by ploughing.

- Effective removal of plant parts

- Segregated storage and transport of crop/waste (provide examples of containment to prevent spillage of collected seeds/crops/wastes) The samples taken for analysis were hermetically packed on the site of release.
- Clean up of machinery on the release site. The machinery used was cleaned on the release site.
- Destination of the waste, treatment of waste/ surplus yield/plant residues (describe)
All the remaining plant materials were destroyed by chopping and incorporated into the soil by ploughing.
- Post-harvest treatment and cultivation measures on the release site (describe the method for preparing and managing the release site at the end of the release, including cultivation practices)
Trials area has been chopped several times to destroy the plant material and ploughed to incorporate the plant waste into the soil.
- Other(s) (describe): In addition, a flooding irrigation of the field where the trials were carried out was done in Estremera (Madrid) and Fustiñana (Navarra) in order to help the decomposition of the buried residues.
A representative of the “Departamento de Agricultura, Ganadería y Alimentación del Gobierno de Navarra” attended to the final destruction of the trials in Fustiñana (Navarra) and wrote a report certifying the correct field destruction.

6.1.5 *Post-harvest measures:*

Please indicate which measures were taken on the release site after harvest:

Frequency of visits (average) Approximately every two months

- Subsequent crop (specify)
The following crop will be any crop different from marketable maize
- Crop rotation (specify)
The following year will be any crop different from marketable maize
- Fallow/no crop (specify)
- Superficial soil work / no deep ploughing
- False-sowing beds
- Control of volunteers (specify intervals and duration).
The release site will be visited at least three times after the trial destruction. As the main concern is controlling potential volunteers and being sure that the farmer will not sow marketable maize on that site, the visits will be done during the months close to the maize sowing time (mid-February, soil preparation; mid-May, maize sowing time), later at mid-June another visit will be done in order to check the control of volunteers. If needed, any undesired plant emerged would be destroyed mechanically or by a herbicide treatment (other than glufosinate or glyphosate)
- Appropriate chemical treatment(s) (specify)
- Appropriate soil treatment(s) (specify)
- Other(s) (specify)

6.1.6 *Other(s) measure(s): (describe)*

6.1.7 *Emergency plan(s)*

Indicate :

- a) If the release proceeded as planned :
- Yes
 - ~~No (describe for which reason, e.g. vandalism, climatic conditions, etc.)~~
- b) If measures according to the emergency plan(s) (Article 6(2)(a)(vi) and Annex III.B of Directive 2001/18/EC) had to be taken
- No
 - ~~Yes (describe)~~

6.2 Post-release monitoring measures

Due to the fact that the current report format can be used for the final and post-release monitoring report(s), the notifier is asked to clearly make the difference between both types of report through this section 2 of Chapter 6. Please indicate whether

- ***The post-release monitoring plan will start*** (in the case of a final report, after the last harvest of the GM higher plants),
- ***The post-release monitoring plan is ongoing*** (in the case of an intermediary post-release monitoring report),
- ***The post-release monitoring plan has been completed*** (in the case of the final post-release monitoring report)
- ***No post-release monitoring plan has to be fulfilled.***

The results of this monitoring are meant to confirm or invalidate earlier assumptions in the risk assessment.

According to the aforementioned cases, please indicate which monitoring measure(s) will be/are/were taken and where (on the release site/near the site (e.g. on field edges)). Please be aware that all post-release monitoring measures taken during the whole post-release period shall be indicated here.

The destruction of the trials was made on December 3rd in Alguaire (Lérida), December 9th in Alpicat (Lérida), December 13th in Fustiñana (Navarra) and December 20th in Estremera (Madrid). The post-release monitoring plan is ongoing. Until December 2006 the trial sites will be visited regularly in order to check the presence of volunteers. If they were any, they would be controlled mechanically or by an herbicide treatment (other than glufosinate or glyphosate). There were no volunteers in the trial sites so far. No marketable maize will be sown in these sites during 2006.

Specify:

- Monitoring measures within site

Duration: from December 2005 to December 2006

Frequency of visits (average): approximately every two months

- ~~Observation of resistant relatives~~
- ~~Observation of resistant insects~~
- Control of volunteers (specify intervals and duration) Regular visits, more frequent if some volunteers are detected and destroyed.
- ~~Monitoring of gene flow (specify)~~
- ~~Appropriate chemical treatment(s) and/or soil treatment(s)~~

- Others (specify)
- Monitoring measures of adjacent areas: Not applicable
- Duration
- Frequency of visits (average):
- Area monitored:
- Observation of resistant relatives
 - Observation of resistant insects
 - Control of volunteers and/or monitoring of feral populations (specify intervals and duration)
 - Monitoring of gene flow (specify)
 - Appropriate chemical treatment(s) and/or soil treatment(s)
 - Others (specify)

6.3 Plan for observation(s)/methods(s) involved

In this section the observation plan and the methods used to collect the effects which have to be reported under the next section (section 6.4) need to be specified. Any amendments or modifications to the plan as proposed in the application and the SNIF⁴ part B need to be specified in detail.

During the time between the notification and the final report submission, new scientific insights or methods may be developed which cause a change in the methods used. In particular these modifications need to be specified under this section.

The observations were and will be done visually.

6.4 Observed effect(s)

6.4.1 Explanatory note

All results of the deliberate release(s) in respect of any risk for human health or the environment shall be stated, without prejudice to whether the results indicate that any risk is increased, reduced or remains unchanged.

The main objectives of the information given in this section are:

- *To confirm or invalidate any assumption regarding the occurrence and impact of potential effect(s) of the GMO(s) which was/were identified in the environmental risk assessment,*
- *To identify effect(s) of the GMO(s) which was/were not anticipated in the environmental risk assessment.*

*The observed **effect(s)/interaction(s)** of the GMO(s)*

- *with respect to any risk to human health,*
- *with respect to any risk to the environment*

shall be reported under this section.

Particular attention shall be drawn to unexpected and unintended effect(s).

⁴ Summary notification information format (=SNIF)

Indications as regards the effects, that the notifier may have to report, are provided hereunder. The effects have obviously to be considered in the light of the crop, the new trait, the receiving environment as well as the conclusions of the environmental risk assessment, which is carried out on a case-by-case basis.

In order to structure the information and to facilitate and efficient search within the given information, the notifier shall use, as far as possible, specific keywords to fill in the text fields under Chapter 6, especially sections 6.4.2, 6.4.3 and 6.4.4. A most updated list of those specific keywords is available on the Internet at : <http://gmoinfo.jrc.it>.

6.4.2 Expected effect(s)

This section concerns « expected effects », that is to say, potential effects which were already identified in the environmental risk assessment of the notification and could therefore be anticipated.

Notifiers should supply data from the deliberate release(s) which validate the assumptions made in the environmental risk assessment.

The potential reduction in the control of certain lepidopteran insects, such as the European corn borer (*Ostrinia nubilalis*) and certain coleopteran insects, such as the Western corn rootworm (*Diabrotica virgifera virgifera*), if the target insect pests develop resistance to the insecticidal proteins as expressed in the genetically modified 59122x1507xNK603 maize, has been identified in the environmental risk assessment of the notification, as the only potential risk resulting from the interaction between the genetically modified maize and the target organisms. No development of resistance was detected in the target lepidopteran insects in the trials carried out. This confirms that, in the case of the trials carried out, the likelihood of the occurrence of this potential identified adverse effect was negligible, taking into account the small surface occupied by the trials. The presence of the target coleopteran insects, *Diabrotica*, has not been recorded to date, thus no development of resistance in the target insects was detected in the case of the trials carried out.

6.4.3 Unexpected effect(s) ⁵

“Unexpected effects” refer to effects on human health or the environment which were not foreseen or identified in the environmental risk assessment of the notification. This part of the report should contain any information with regard to unexpected effects or observations relevant for the initial environmental risk assessment. In case of any observed unexpected effects or observations, this section should be as detailed as possible to allow a proper interpretation of the data.

Neither damage nor any kind of negative effects on human health or environment were observed.

⁵ Without prejudice to Article 8 of Directive 2001/18/EC as regards handling of modifications or new information.

6.4.4 Other information

Notifiers are encouraged to supply information, which is outside the scope of the notification but which might be relevant to the field trials in question. This may also include observations of beneficial effects.

None

7 CONCLUSION

In this chapter, the notifier should specify the conclusions drawn and the measures taken or to be taken on the basis of the results of the release with regard to further release(s) and where appropriate, make reference to any kind of product the notifier intends to notify at a later stage.

In the case of the releases, all the control measures were taken to avoid the spreading of pollen and grains of the genetically modified maize plants.

No negative effect of any kind has been observed that has or could have effects on the human health or the environment.

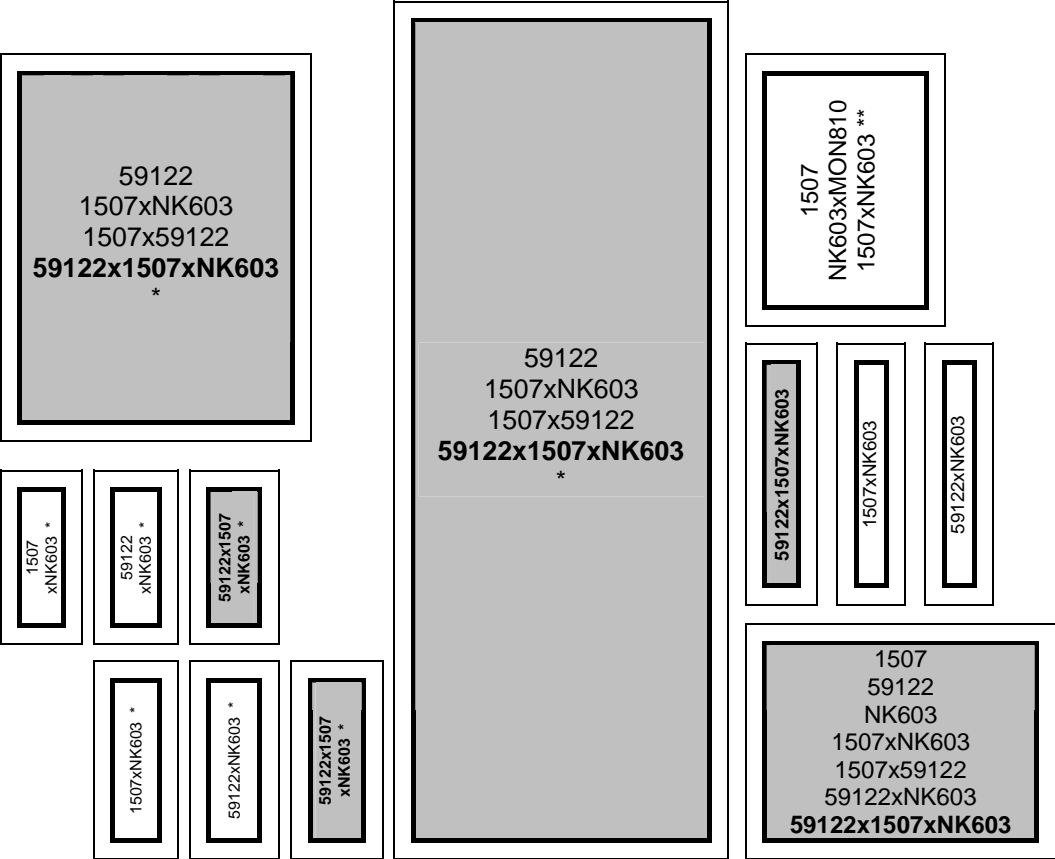
No risk for the human health or the environment has been identified as a result of the deliberate release of the genetically modified maize in these trials.

The measures proposed in the notification and the control measures taken seem to be consistent with the purpose of guarantying the safety of the environment and of the human health.

DATE : 13th February 2006

ANNEX 1...Field Layout

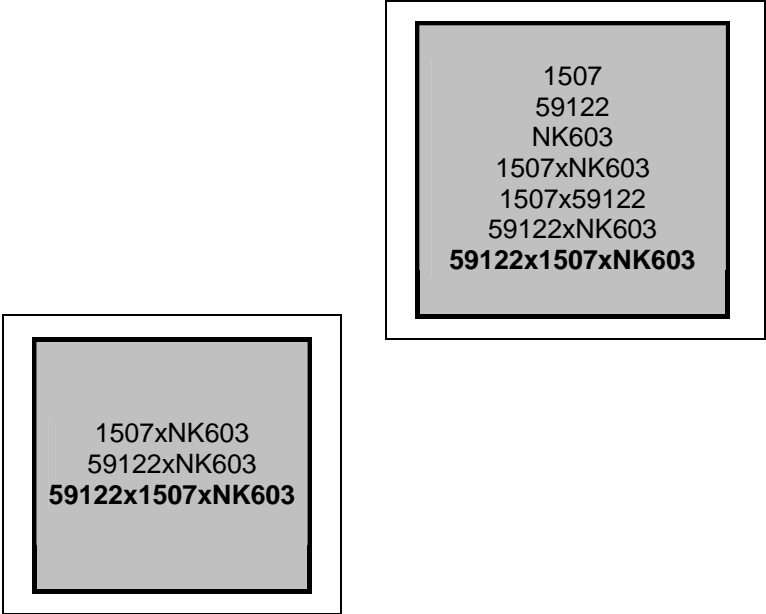
Location: Alguaire (Lérida)



* and non-genetically modified maize
 ** other genetically modified maize and non-genetically modified maize

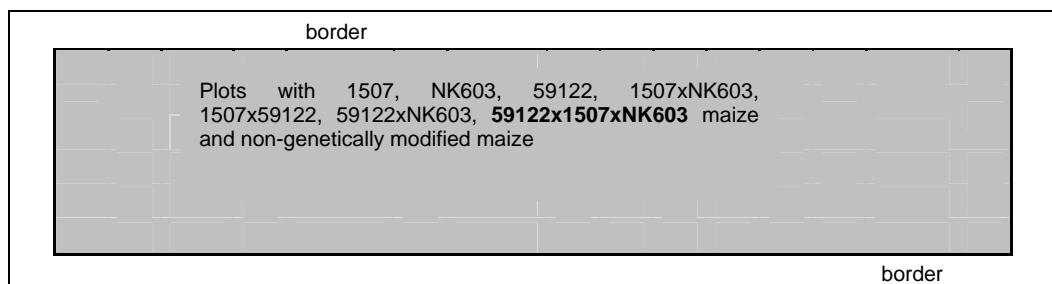
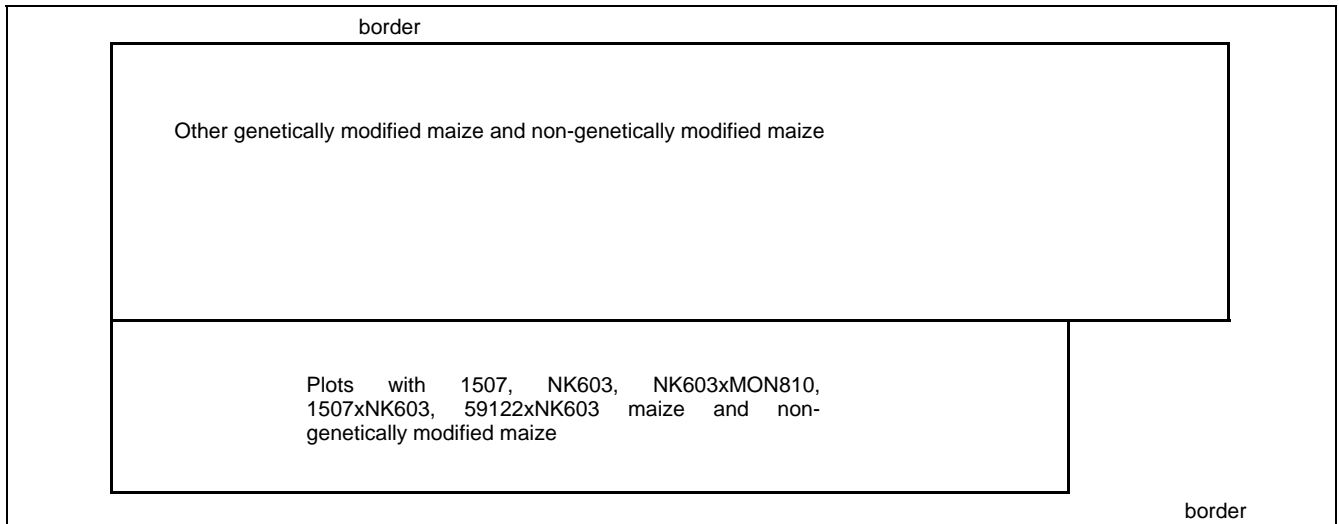
ANNEX 1...Field Layout

Location: Alpicat (Lérida)



ANNEX 1...Field Layout

Location: Estremera (Madrid)



ANNEX 1: Field Layout

Location: Fustiñana (Navarra)

