

**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/06/27

1.2 Member State of notification: Spain

1.3 Date of consent and consent number: decision of April 18th 2006 in Aragon (received on April 24th 2006), decision of March 23rd 2006 in Castilla-La Mancha (received on April 17th, 2006), decision of April 12th 2006 in Cataluña (received on May 5th 2006), decision number 0828 of April 4th 2006 in Navarra (received on April 10th 2006)

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⁾ (m²)	Identity ⁽³⁾ and approximate number of GM higher plants per event actually released (number of seeds/plants per m²)	Duration of the release(s) (from ... (day/month/year... until... (d/m/y)
Gurrea de Gállego Huesca (Aragón)	- Total surface of the release: ~ 6400 m ² - 59122x1507xNK603 maize area: 246m ²	59122x1507xNK603 maize: ~ 5 plants/m ²	From: 09/06/06 to: 30/11/06
Zuera Zaragoza (Aragón)	- Total surface of the release: ~ 6000 m ² - 59122x1507xNK603 maize area: 246m ²	59122x1507xNK603 maize: ~ 5 plants/m ²	From: 15/06/06 to: 16/11/06
Alpera Albacete (Castilla-La Mancha)	- Total surface of the release: ~ 1600 m ² - 59122x1507xNK603 maize area: 72 m ²	59122x1507xNK603 maize: ~ 5 plants/m ²	From: 09/06/06 to: 13/12/06
Alguaire Lérida (Cataluña)	- Total surface of the release: ~51000m ² - 59122x1507xNK603 maize area: 5646 m ²	59122x1507xNK603 maize: ~ 5 to 9 plants/m ²	From: 13/06/06 to: 20/11/06
Alpicat Lérida (Cataluña)	- Total surface of the release: ~ 1200 m ² - 59122x1507xNK603 maize area: 48 m ²	59122x1507xNK603 maize: ~ 5 plants/m ²	From: 14/06/06 to: 30/11/06
Cortes Navarra (Navarra)	- Total surface of the release: ~ 5300 m ² - 59122x1507xNK603 maize area: 246m ²	59122x1507xNK603 maize: ~ 5 plants/m ²	From: 29/06/06 to: 11/12/06

⁽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)

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 bag or small paper bags which remained closed until planting. Each bag or small paper bag was clearly labeled with the test entry code comparable to the code in the protocol. Each bag or small 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 or small paper 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).
All the genetically modified seeds were planted. There were no remaining genetically modified seeds.
- Temporal isolation (specify)
- Rotation (specify the previous crop)
- Other(s): (specify) The isolation distance to other maize crop was verified to be in accordance with the permit conditions (at least 200 m).

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 or small paper 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.
 - ~~From sexually compatible wild relatives~~
- Border rows (with the same crop or a different one, with a non-transgenic crop, x meters, etc)
At least six border rows of non-genetically modified maize of a similar maturity surrounded the trials. At the end of the release, these border rows were destroyed like the rest of the plants in the trials.
- Cage/net/fence/signpost (specify) As requested by the autonomous community of Castilla-La Mancha, the trial site in Alpera was protected from predators by a fence.
- Pollen trap (specify): At least six border rows of non-genetically modified maize of a similar relative maturity were planted around the trials as a pollen trap. At the end of the release, these border rows were destroyed like the rest of the trials.
- Removal of GM inflorescences before flowering (indicate the frequency of removal)
- Removal of bolters/relatives/hybrid partners (indicate the frequency of the removal, x meters around the GM field, etc)
- Other(s): (specify)

6.1.4 At the end of the release

- Harvest/destruction methods (of crop or part of it) / other means (e.g.: sampling) (describe)
At the locations of Alguaire (Cataluña), Alpicat (Cataluña), Gurrea de Gállego (Aragón), Zuera (Aragón) and Cortes (Navarra), when needed, plant tissues were sampled at different stages of maize development. The remaining plant materials were destroyed by several chopping and incorporated in the soil by ploughing. At Alguaire (Cataluña), Gurrea de Gállego (Aragón), Zuera (Aragón) and Cortes (Navarra), when needed, the grain from each micro-plot was harvested, weighed and destroyed like all the remaining plant materials by chopping and incorporated into the soil by ploughing. At the Alpera (Castilla-La Mancha) location, the grain was hand-harvested, weighed and destroyed by burying it in a hole dugged at the site of release, the remaining plant materials were destroyed by several chopping and the soil was cultivated.
- Harvest / destruction before the ripeness of the seeds
In one type of trial carried out in Alguaire (Cataluña), Gurrea de Gállego (Aragón), Zuera (Aragón) and Cortes (Navarra), the plants were destroyed before they reach the physiological maturity stage of the grain. At the end of the release, all the plant material was destroyed by several choppings 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 in

some trials were hermetically packed on the site of release. They were individually identified and labeled for their shipment to the laboratory in charge of the analysis.

- Clean up of machinery on the release site. All 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.
- 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)
The trial area has been chopped several times to destroy the plant material and the plant waste was incorporated into the soil.
- Other(s) (describe):

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 maize
- Crop rotation (specify) The following year will be any crop different from 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 after the trial destruction. As the main concern is controlling potential volunteers and being sure that the farmer will not sow 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 potential volunteers. If needed, any undesired plant emerged would be destroyed mechanically and/or by application of an herbicide other than glyphosate or glufosinate-ammonium.

- 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 November 16th, 2006 in Zuera (Aragon), November 20th, 2006 in Alguaire (Cataluña), November 30th, 2006 in Gurrea de Gállego (Aragon) and Alpicat (Cataluña), December 11th, 2006 in Cortes (Navarra) and December 14th, 2006 in Alpera (Castilla-La Mancha). The post-release monitoring plan has started since that dates. Until December 2007, the trial sites will be visited regularly in order to check the presence of volunteers. If they were any, they would be controlled mechanically and/or by application of an herbicide different than glyphosate or glufosinate. There were no volunteers in the trial sites so far. No maize will be planted in these plots in 2007.

Specify:

- Monitoring measures within site
 - Duration: from December 2006 to December 2007
 - 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.

Moreover, to our knowledge, the release sites were visited by inspectors.

Indeed, a representative of the “Centro de Semillas y Plantas de Vivero de la Diputación General de Aragón” attended to the planting of the trials in Zuera (Zaragoza) and Gurrea de Gállego (Huesca), verifying that all operations were done correctly. He visited the trials carried out at both locations on September 26, 2006. Also, the trial sites in Zuera (Zaragoza) and Gurrea de Gállego (Huesca) were visited on November 16th and 30th, 2006, respectively, to verify the correct trial destruction.

A representative of the “Departamento de Agricultura, Ganadería y Alimentación del Gobierno de Navarra” attended to the planting of the trials in Cortes (Navarra), verifying that all operations were done correctly. A representative also attended to the final destruction of the trials in Cortes (Navarra) to verify the correct field destruction.

A representative of the “Consejería de Agricultura de la Comunidad Autónoma de Castilla-La Mancha” attended to the planting of the trials in Alpera (Castilla-La Mancha), verifying that it was done correctly. A representative also attended to the harvest destruction in Alpera (Castilla-La Mancha), verifying the correct destruction of the plant material.

On September 14 2006, an inspector of the “Centro de Protección Vegetal de Lérida” visited the Alguaire (Cataluña) trial location.

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:

⁴ Summary notification information format (=SNIF)

- 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).

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.

In the trial carried out, no loss of efficacy of 59122x1507xNK603 maize plants on European corn borer was detected. Concretely, no damages caused by the European corn borer were observed on 59122x1507xNK603 maize plants, which lead to the conclusion that there was no developed resistance in the target lepidopteran insects. This confirms that, in the case of the trial carried out, the likelihood of the occurrence of this potential identified adverse effect was negligible, taking into account the small surface occupied by the trial. 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 trial 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.

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.

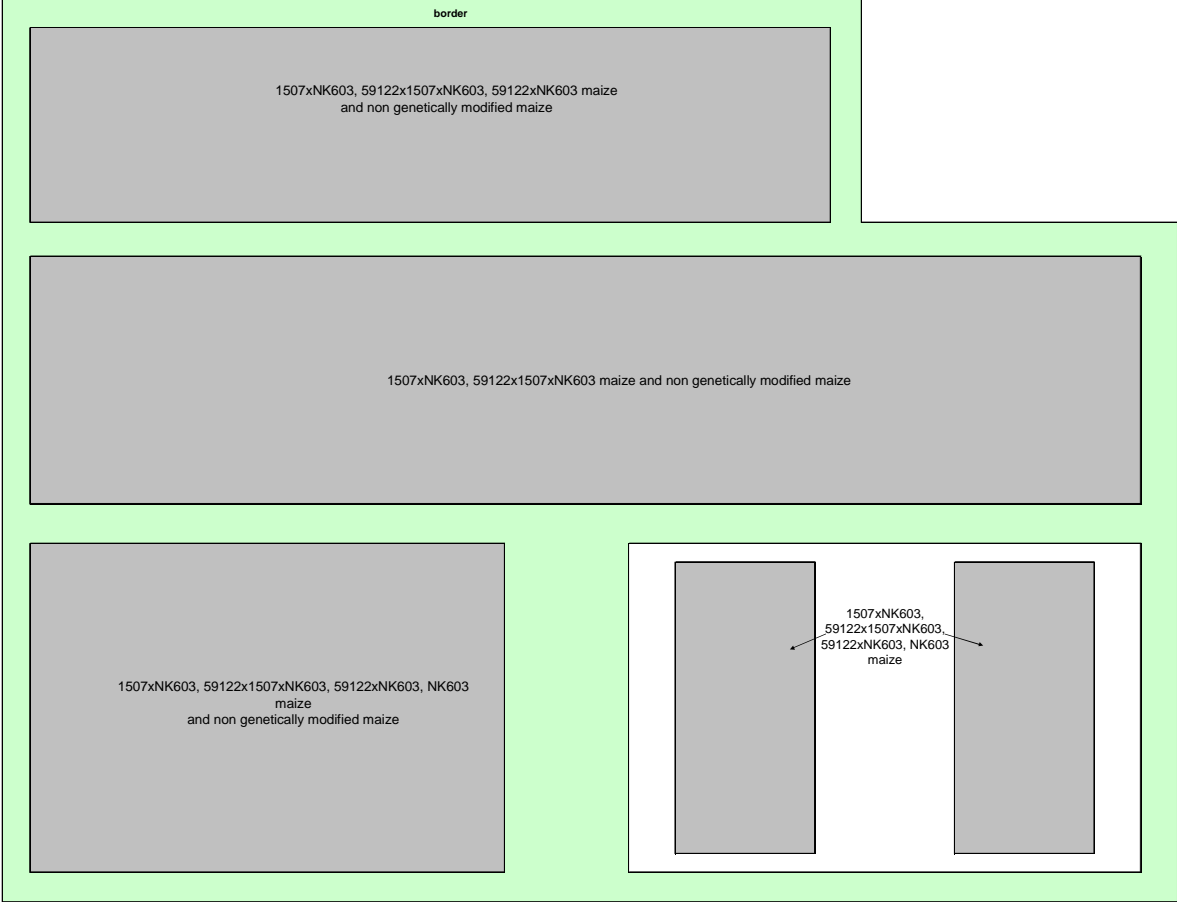
The measures proposed in the notification and the control measures taken seem to be consistent with the purpose of guarantying the safety of the environment and of the human health.

DATE : December 22nd, 2006

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

ANNEX 1...Field Layout

Location: Zuera (Zaragoza, Aragón)



ANNEX 1...Field Layout

Location: Gurrea de Gállego (Huesca, Aragón)



ANNEX 1...Field Layout

Location: Alguaire (Lérida, Cataluña)



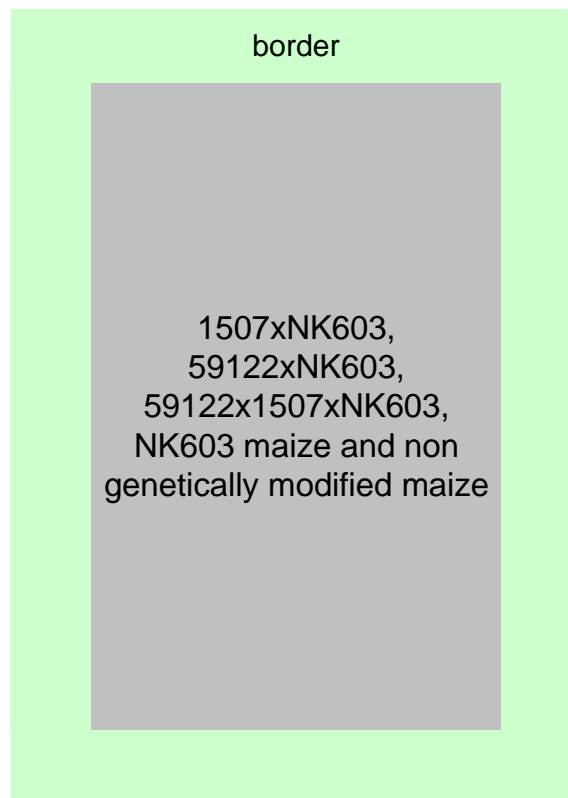
ANNEX 1...Field Layout

Location: Alpicat (Lérida, Cataluña)



ANNEX 1...Field Layout

Location: Alpera (Albacete, Castilla-La Mancha)



ANNEX 1...Field Layout

Location: Cortes (Navarra)

