

**2019 Post-Market Environmental Monitoring (PMEM) Report for**  
**Bt11 x MIR162 x MIR604 x GA21**  
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**MIR162 x MIR604**  
**MIR162 x GA21**  
**MIR604 x GA21**  
**Maize Uses Other than Cultivation**

This document is complete as of November 2019. It may be subject to later amendment or replacement. The information may also be supplemented with additional material requested by regulatory authorities. As such, it may only be considered properly with reference to those later amendments or supplementary materials and in the context of the dossier as a whole.

*Statement of Property Rights:*

[REDACTED]

## **MONITORING REPORT FOR GMO USES OTHER THAN CULTIVATION**

Format for presenting the monitoring results for GMO uses other than cultivation in accordance with: Articles 19(3), 20(1) and Annex VII to Directive 2001/18/EC and Articles 9(1) and 21(1) of Regulation (EC) No 1829/2003.

### **1. General information**

- 1.1 Crop/trait(s):** Maize / insect resistance, herbicide tolerance
- 1.2 Decision authorisation number under Directive 2001/18/EC and number and date of consent under Directive 2001/18/EC:** not applicable
- 1.3 Decision authorisation number and date of authorisation under Regulation (EC) No 1829/2003:** Commission Implementing Decision (EU) 2016/1685; 16 September 2016
- 1.4 Unique identifier:**
- SYN-BTØ11-1 x SYN-IR162-4 x SYN-IR6Ø4-5 x MON-ØØØ21-9  
SYN-BTØ11-1 x SYN-IR162-4 x SYN-IR6Ø4-5  
SYN-BTØ11-1 x SYN-IR162-4 x MON-ØØØ21-9  
SYN-BTØ11-1 x SYN-IR6Ø4-5 x MON-ØØØ21-9  
SYN-IR162-4 x SYN-IR6Ø4-5 x MON-ØØØ21-9  
SYN-BTØ11-1 x SYN-IR162-4  
SYN-BTØ11-1 x SYN-IR6Ø4-5  
SYN-BTØ11-1 x MON-ØØØ21-9  
SYN-IR162-4 x SYN-IR6Ø4-5  
SYN-IR162-4 x MON-ØØØ21-9  
SYN-IR6Ø4-5 x MON-ØØØ21-9
- 1.5 Reporting period:** July 2018 – June 2019
- 1.6 Other monitoring reports have been submitted in respect of:**
- cultivation:** Yes ☐ No ☒

### **2. Executive summary**

Taking into account the reports from the European trade associations (operators involved in the import, handling and processing of viable Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations<sup>1</sup>), who are selected as the most appropriate participants in the general surveillance network, and the lack of adverse findings from independent research, available through the public literature, there is, to the best of our knowledge, no relevant

<sup>1</sup> For the purpose of this PMEM report, “sub-combinations” are the GM maize combining two or three different single GM events Bt11, MIR162, MIR604 and GA21. Among the 10 sub-combinations, 5 have an authorisation for cultivation in at least one country around the world: Bt11 x MIR162 x GA21, Bt11 x MIR604 x GA21, Bt11 x MIR162, Bt11 x MIR604 and Bt11 x GA21, hereby named “cultivated” sub-combinations.

information suggesting the occurrence of any adverse effects from Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations.

### **3. Uses of GMOs other than cultivation**

Please note that this section relates to the monitoring of the environmental effects of GMO uses other than cultivation. Such uses include the use of Food and Feed containing or consisting of GMOs (living organisms).

#### **3.1 Commodity imports into the Community**

**3.1.1 Commodity crop (GM + non-GM) imports into the Community by country of origin**

Country of origin <sup>2</sup>	Quantity of total maize grain imported (tons) <sup>3</sup>	Estimated data of GMO share in imports (where not possible approximate share of cultivation in the country of origin) <sup>4,5</sup>						
	July 2018 - June 2019 <sup>6</sup>	Bt11 x MIR162 x MIR604 x GA21	Bt11 x MIR162	Bt11 x MIR604	Bt11 x GA21	Bt11 x MIR162 x GA21	Bt11 x MIR604 x GA21	Total
<u>Ukraine</u>	15658048.0	■	■	■	■	■	■	■
<u>Brazil</u>	4029556.2	■	■■■■	■	■■■■■	■■■■■	■	■■■■■
<u>Canada</u>	2036703.6	■	■■■■■	■■■■■	■■■■■	■■■■■	■■■■■	■■■■■
<u>Serbia</u>	829269.0	■	■	■	■	■	■	■
<u>Argentina</u>	401039.8	■	■■■■	■	■■■■■	■■■■■	■	■■■■■
<u>Russia</u>	327066.1	■	■	■	■	■	■	■
<u>Moldova</u>	326310.1	■	■	■	■	■	■	■
<u>United States</u>	281242.5	■■■■■	■■■■■	■■■■■	■■■■■	■■■■■	■■■■■	■■■■■
<u>South Africa</u>	190994.8	■	■	■	■	■	■	■

<sup>2</sup> Data are provided for (a) the top 10 (*i.e.* main) exporting countries (making up approximately 99.8% of total maize imports in the EU); these countries are underlined, (b) countries where Bt11 x MIR162 x MIR604 x GA21 maize and/or its cultivated sub-combination are being cultivated, but that do not fall within the category of main exporting countries, and (c) all other remaining countries combined that export maize.

<sup>3</sup> Quantities are total EU-28 imports.

<sup>4</sup> Syngenta is not an operator directly involved in the import of maize grain into the EU. Therefore, Syngenta is not in a position to report directly on globally traded volumes of grain from Bt11 x MIR162 x MIR604 x GA21 maize and/or its cultivated sub-combinations. However, in order to provide an idea of the amount of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations that could possibly be imported into the EU, the approximate share of cultivation of Bt11 x MIR162 x MIR604 x GA21 maize and/or its cultivated sub-combinations in the country of origin is provided (rounded up figure). It must be kept in mind that these figures are estimates only, and that the amount of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations that will be exported to the EU will only represent a portion of the cultivated amounts.  
nc: GM maize in question not cultivated in the country.

<sup>5</sup> <0.01%: indicates the threshold below which some insignificant amount of GM maize in question may be derived as a result of diverse minor sources such as field trials or Mendelian segregation of the harvested grain from a transformation stack hybrid (containing the GM maize in question) cultivated in that country during the same period.

<sup>6</sup> Source: Eurostat (2019). All data are provided in Annex 1.

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<u>Mexico</u>	42701.2	■	■	■	■	■	■	■
Colombia	9.7	■	■	■	■	■	■	■
Paraguay	< 0.1	■	■	■	■	■	■	■
Philippines	3.2	■	■	■	■	■	■	■
Uruguay	< 0.1	■	■	■	■	■	■	■
Vietnam	11.5	■	■	■	■	■	■	■
All other countries	59787.0	■	■	■	■	■	■	■
<b>Total</b>	24182742.7	■	■	■	■	■	■	<b>4.26%</b>

**3.1.2 Commodity Crop (GM + non-GM) imports into the Community by country of destination**

<b>Country by destination<sup>9</sup></b>	<b>Quantity of maize grain exported by main exporting country (tons): July 2018 to June 2019<sup>7,8</sup></b>										<b>Total<sup>10</sup></b>
	Ukraine	Brazil	Canada	Serbia	Argentina	Russia	Moldova	United States	South Africa	Mexico	
Spain	3998099.3	2279279.6	375092.9	60089.0	115976.1	0.0	3561.1	248057.9	0.0	42580.4	7131161.6
Netherlands	4142968.9	560496.3	75378.9	8200.0	33938.7	12912.0	15066.3	1624.1	0.7	5.4	4851080.9
Italy	1660731.1	32843.2	113664.7	76090.8	3815.1	0.0	130256.0	336.6	184519.1	37.1	2202562.9
United Kingdom	931140.4	249166.9	531945.7	0.0	186856.5	22404.2	4300.0	23938.5	1164.8	58.8	1951371.1
Portugal	921518.8	641687.4	192475.7	0.0	390.0	0.0	0.0	80.2	0.0	0.0	1756152.1
Germany	1600277.1	13.9	0.0	23347.0	18229.0	17569.4	0.9	941.7	67.6	0.0	1661347.3
Ireland	404527.7	206920.2	748139.8	0.0	179.0	31792.1	0.0	1167.6	0.0	0.0	1392727.2
Belgium	688982.1	27.7	0.0	0.0	94.1	0.0	0.0	284.8	0.0	0.2	689775.4
Slovenia	16123.0	58835.5	0.0	381609.3	0.0	0.0	5.0	0.0	0.0	0.0	456572.8
Denmark	434625.2	0.0	0.0	0.0	2573.1	17929.4	0.0	233.8	0.0	16.2	455381.5
<b>Total<sup>11</sup></b>	<b>15658048.0</b>	<b>4029556.2</b>	<b>2036703.6</b>	<b>829269.0</b>	<b>401039.8</b>	<b>327066.1</b>	<b>326310.1</b>	<b>281242.5</b>	<b>190994.8</b>	<b>42701.2</b>	<b>24182742.7</b>

<sup>7</sup> The main exporting countries make up approximately 99.8% of total maize imports in the EU.

<sup>8</sup> Source: Eurostat (2019). All data are provided in Annex 1.

<sup>9</sup> Data are provided for the top 10 EU importing countries (making up approximately 93.2% of total maize imports in the EU)

<sup>10</sup> Total for all exporting countries (including the top 10) per EU importing country indicated.

<sup>11</sup> Total for all EU importing countries (including the top 10) per exporting country indicated.

### 3.1.3 Analysis of data provided in tables 3.1.1 and 3.1.2

The maize grain (GM and non-GM) import data from suppliers to the EU from outside the EU-28 (extra-EU) is presented in **Tables 3.1.1** and **3.1.2**, and is based on the Eurostat data for the reporting period July 2018 to June 2019 on EU maize imports by Member State and by exporting country collected by the European Association for Bioindustries (EuropaBio).

Extra-EU maize imports vary from year to year depending on EU maize harvest and the demand of the feed industry. Bulk shipments of maize entering the EU are usually processed into compound animal feed, whereby the processed animal feed is unlikely to contain whole maize kernels. The handling of the shipments is the same across Europe; upon arrival, the shipments are unloaded into silos at the port of the importing Member State and transferred from there to the feed processing plant present at the port.

The top 10 largest suppliers of extra-EU maize to the EU in the reporting period July 2018 to June 2019 are Ukraine, Brazil, Canada, Serbia, Argentina, Russia, Moldova, United States, South Africa and Mexico. Together, they accounted for approximately 99.8% of total extra-EU maize imports in the period July 2018 to June 2019. Of these countries, as can be seen in **Table 3.1.1**, only Argentina, Brazil, Canada and USA cultivated Bt11 x MIR162 x MIR604 x GA21 maize and/or its “cultivated” sub-combinations. Annex 1 provides the EU maize imports by Member State and by exporting country in tons for the reporting period July 2018 to June 2019.

Taking into account the estimated share of cultivation of Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations in the exporting countries and the relative weight of these countries among the import origins, it could be estimated that 4.26% of the total imported maize grain in the EU might contain the Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations.

**Table 3.1.2** provides maize import data from the top 10 largest EU importing countries of extra-EU maize in the reporting period July 2018 to June 2019. These countries are Spain, Netherlands, Italy, United Kingdom, Portugal, Germany, Ireland, Belgium, Slovenia and Denmark. Together, they accounted for approximately 93.2% of total maize imports into the EU in the reporting period July 2018 to June 2019.

## 3.2 General surveillance

### 3.2.1 Description of general surveillance

The current approach used for general surveillance represents the consensus between all consent/authorisation holders within EuropaBio and has been endorsed by the operators involved in the trade of viable maize commodity (listed in Section 3.2.2).

Syngenta is not involved in commodity trade with Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations. The monitoring methodology hence needs to be predominantly based on collaboration with third parties, such as operators involved in the import, handling and processing of viable Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations. They are exposed to the imported viable Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations and therefore are the best placed to observe and report any unanticipated adverse effects in the framework of their routine surveillance of the commodities they handle and use. The routine surveillance is based on the HACCP principles.

Since traders may commingle Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations with other commercial maize, including authorised GM maize, Syngenta is working together with other members of the plant biotechnology industry within EuropaBio and trade associations representing the relevant operators in order to implement a harmonised monitoring methodology.

The different parties agreed to collaborate on the following basis:

⇒ The consent holder represented by EuropaBio shall:

- Agree with the operators before adding or amending activities that fall under their responsibility in accordance with the proposed PMEM plan.
- Inform operators concerning the authorisation, safety and general characteristics of Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations and of the conditions as to general surveillance.
- Set up and maintain a website dedicated to operators that provides an overview and detailed information on approved GM plant products subject to general surveillance. The website, hosted on the EuropaBio website under

<http://www.europabio.org/information-operators-introduction>, contains the following information:

- An introduction to the purpose of the website
- A table giving an overview of all currently approved GM plant products subject to general surveillance
- A profile for every approved GM plant product providing documentation on characteristics and safety, positive EFSA opinion(s) and Commission Decisions(s) authorising the GM plant product in the EU

- A contact point at EuropaBio for information exchange on any of the GM plant products

The website will be regularly updated in order to further facilitate and ensure a transparent process for general surveillance and easy access to relevant information for operators.

- Contact the selected networks of operators annually, providing them with an update on the approved GM plant products subject to general surveillance and reminding them of their agreement to report on any unanticipated adverse effects (or absence thereof).

⇒ The selected networks of operators (European trade associations) shall:

- Inform and remind their member organisations and companies on an annual basis
  - to monitor for potential unanticipated adverse effects
  - that, in the framework of their management or safety standards (ISO, HACCP, etc.), procedures must be in place and implemented to limit losses and spillage of viable maize and to routinely eradicate adventitious populations on their premises – any such adventitious populations, resisting routine eradication procedures, shall be treated as potential adverse effects
  - to inform and remind their own member companies of this requirement
  - to report back any adverse effect reported to them to the European trade associations
- Report to the consent holders directly or via EuropaBio
  - at least annually, regardless of whether an adverse effect was observed or not
  - immediately any adverse effects reported to them

Consequently, the European trade associations shall notify EuropaBio of the results of the general surveillance on an annual basis. The report shall cover all approved GM plant products subject to general surveillance. EuropaBio shall forward this report to the respective consent/authorisation holders for inclusion in their annual report to the European Commission.

The general surveillance information reported to and collected by Syngenta from the European trade associations or other sources shall be analysed for its relevance. Where information indicates the possibility of an unanticipated adverse effect, Syngenta will immediately investigate to determine and confirm whether a significant correlation between the effect and Bt11 x MIR162 x MIR604 x GA21 maize or its sub-combinations can be established. If the investigation establishes that Bt11 x MIR162 x MIR604 x GA21 maize or its sub-combinations was present when the adverse effect was identified, and confirms that Bt11 x MIR162 x MIR604 x GA21 maize or its sub-combinations is the cause of the adverse effect, Syngenta shall immediately inform the European Commission. Syngenta, in collaboration with the European Commission and based on a scientific evaluation of the potential consequences of the observed adverse effect, shall define and implement management measures to protect human and animal health or the

environment, as necessary. It is important that the remedial action is proportionate to the significance of the confirmed effect.

As described in the bullet points above, Syngenta shall submit an annual monitoring report including results of the general surveillance in accordance with the conditions of the authorisation. The report shall contain information on any unanticipated adverse effects that have arisen from handling and use of viable Bt11 x MIR162 x MIR604 x GA21 maize or its “cultivated” sub-combinations.

The report will include a scientific evaluation of the confirmed adverse effect, a conclusion of the safety of Bt11 x MIR162 x MIR604 x GA21 maize or its “cultivated” sub-combinations and, as appropriate, the measures that were taken to ensure the safety of human and animal health or the environment.

### **3.2.2 Details of industry, environmental, food and/or feed related surveillance networks used during general surveillance**

Syngenta, together with other members of the plant biotechnology industry and EuropaBio, will implement general surveillance of viable GM maize, including Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations, with the help of the selected networks described below, according to the methodology outlined in the authorisation holder’s general surveillance plan and as detailed in Section 3.2.1. The following networks are currently involved:

#### *⇒ Importers / Traders*

COCERAL is the European association of trade in cereals, rice, feedstuffs, oilseeds, olive oil, oils and fats and agro supply. It represents the interests of the European collectors, traders, importers, exporters and port silo storekeepers of the above mentioned agricultural products. The main importers of cereals and feedstuffs into the EU are members of COCERAL.

Also see: <http://www.coceral.com/>.

#### *⇒ Silo Operators*

UNISTOCK is the European association representing professional storekeepers for agribulk commodities in the EU. UNISTOCK full and extraordinary members are present in twelve countries and UNISTOCK is itself a full member of COCERAL. Commodity imports enter the EU by sea and transit through sea-port silos. The main storekeepers managing these silos are members of UNISTOCK.

Also see: <http://www.unistock.be/>.

#### *⇒ Processors*

FEDIOL, the federation of the EU vegetable Oil and Protein Meal Industry, represents the interests of the European crushers of oilseeds, meal producers and vegetable oil producers/processors. Its members represent around 85% of the EU industry.

Also see: <http://www.fediol.eu/>.

These associations represent the majority of European operators importing, handling and processing viable maize commodity. They work closely together with a continuous and efficient flow of communication between them, particularly, through the documentation that needs to accompany any shipment containing GMOs in accordance with the labelling and traceability requirements of Regulation (EC) No 1830/2003, and are therefore best placed to observe and report any unanticipated adverse effects.

Other networks consisting of operators further down the food and feed chain have not been selected for the general surveillance of viable Bt11 x MIR162 x MIR604 x GA21 maize or its sub-combinations, because they focus on processed, non-viable material.

### **3.2.3 Details of information and/or training provided to importers, traders, handlers, processors, etc.**

Accordingly to the general surveillance plan agreed with the operators, EuropaBio acts as the focal point for exchanging information on Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations.

EuropaBio maintain a website dedicated to operators that provides an overview and detailed information on approved GM plant products subject to general surveillance. The website, hosted on the EuropaBio website under <http://www.europabio.org/information-operators-introduction>, contains the following information:

- An introduction to the purpose of the website
- A table giving an overview of all currently approved GM plant products subject to general surveillance
- A profile for every approved GM plant product providing documentation on characteristics and safety, positive EFSA opinion(s) and Commission Decisions(s) authorising the GM plant product in the EU
- A contact point at EuropaBio for information exchange on any of the GM plant products

Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations information was introduced immediately after the publication of the Commission Decision.

The information on Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations contains:

- Trade Name, Company Development Code and Unique Identifier.
- A Fact-sheet with information on Bt11 x MIR162 x MIR604 x GA21 and its sub-combinations.
- The Opinion of the Scientific Panel on Genetically Modified Organisms on the application.

- The authorisations granted in the EU:
  - Community Register for GM Food and Feed Entry for Bt11 x MIR162 x MIR604 x GA21 maize

In addition, following the publication of the Commission Decision, Syngenta informed directly to relevant stakeholders (including international maize traders, processing companies, North American maize growers and the general public) of the regulatory progress made in the EU.

Syngenta keeps direct communication with operators through their industry associations in the exporting countries and in the EU.

### 3.2.4 Result of general surveillance

The reporting by the trade associations takes place at the end of their business year, i.e. end of June. Therefore, EuropaBio reminded the trade associations to provide their annual report on any occurrence of unanticipated adverse effects arising from the approved GM products, including Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations, placed on the market during the period from July 2018 to June 2019.

The trade associations implemented the monitoring in the framework of their routine surveillance of the commodities (GM and non-GM) they handle and use. As required in the monitoring plan, they reminded their members *“to monitor for potential unanticipated adverse effects; that, in the framework of their management or safety standards (ISO, HACCP, etc.), procedures must be in place and implemented to limit losses and spillage of viable GMOs and to routinely eradicate adventitious populations on their premises – any such adventitious populations, resisting routine eradication procedures, shall be treated as potential adverse effects; to inform and remind their own member companies of this requirement; and, to report back any adverse effect reported to them to the European trade associations”*.

COCERAL, UNISTOCK and FEDIOL members have in place Good Hygiene Practices and Good Manufacturing Practices in their daily operations, at the level of imports, storage, handling, and internal transport of grains and oilseeds commodities, as well as at the level of oilseed crushing and vegetable oil refining, irrespective of the botanical species of the commodity. Such practices form the pre-requisite programmes which are the foundation upon which their HACCP systems are built. Measures implemented in this context to limit losses and spillage of viable grains and oilseeds, as well as clean-up and eradication measures (in case of accidental spillage), allow trade associations to report any adverse effect that would be considered as “unusual” or “unanticipated” and potentially attributable to GMOs.

The trade associations informed EuropaBio in a format that reiterates the terms of the agreement of the general surveillance system and reports on the outcome of the monitoring. The format allows the authorisation holder(s) to comply with the requirement to give evidence to the Commission and the Competent Authorities that the system is in place; that the trade associations are aware of the requirement to monitor; and, that they are providing information on any observed unanticipated adverse effects, if any.

The reports received from COCERAL, UNISTOCK and FEDIOL indicate that no adverse effects were reported from their members, thus implying that no adverse effects were linked to the presence of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations in the time period from July 2018 to June 2019 (see Annexes 2 and 3). Furthermore, no incidents in relation to the placing on the market of Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations have been reported to EuropaBio or the authorisation holder since July 2019 to date.

### 3.2.5 Additional information

Bt11 x MIR162 x MIR604 x GA21 stacked maize is approved (directly or due to the individual event status) for cultivation and food and feed in Argentina, Brazil, Canada, Colombia and USA. In addition it is approved only for food and feed use in EU, Korea, Mexico, Philippines, Russia, South Africa and Taiwan; for food use in Australia/New Zealand and Japan.

Bt11 x MIR162 stacked maize is approved (directly or due to the individual event status) for cultivation and food and feed in Argentina, Brazil, Canada, Paraguay, Uruguay and USA. In addition it is approved only for food and feed use in Colombia, EU, Japan, Korea, Mexico, Philippines, Russia, South Africa and Taiwan.

Bt11 x MIR604 stacked maize is approved (directly or due to the individual event status) for cultivation and food and feed in Argentina, Canada and USA. In addition it is approved only for food and feed use in Colombia, EU, Korea, Mexico, Philippines, Russia and South Africa; for food use in Australia/New Zealand, Japan and Taiwan.

Bt11 x GA21 stacked maize is approved (directly or due to the individual event status) for cultivation and food and feed in Argentina, Brazil, Canada, Colombia, Philippines, South Africa, Uruguay, Vietnam and USA. In addition it is approved only for food and feed use in EU, Japan, Korea, Mexico, Russia and Taiwan; for food use in Australia/New Zealand.

Bt11 x MIR162 x GA21 stacked maize is approved (directly or due to the individual event status) for cultivation and food and feed in Argentina, Brazil, Canada, Colombia, Paraguay, Uruguay and USA. In addition it is approved only for food and feed use in EU, Korea, Mexico, Philippines, Russia, South Africa and Taiwan; for food use in Australia/New Zealand and Japan.

Bt11 x MIR604 x GA21 stacked maize is approved (directly or due to the individual event status) for cultivation and food and feed in Argentina, Canada and USA. In addition it is approved only for food and feed use in Colombia, EU, Korea, Mexico, Philippines, Russia, South Africa and Taiwan; for food use in Australia/New Zealand and Japan.

There have been no reports on adverse health or environmental effects associated with the use of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations.

No unanticipated adverse effects were observed.

### 3.2.6 Review of peer-reviewed publications – Appendix

Syngenta has performed a review of all publications which have emerged during the reporting period including peer-reviewed publications and any additional studies or other sources of information relevant to the importation and processing and to food and/or feed use of the Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations. These publications are listed and details provided as per the Annex 4.

No indication of adverse effect of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations in the context of the authorization has been found.

### 3.3 Case-specific monitoring

#### 3.3.1 Description and results of case-specific monitoring (if applicable)

Not applicable.

#### 3.3.2 Processing (if applicable)

Not applicable.

EU Member State	Point of entry / site of cultivation	Point of processing	Distance from point of entry / site of cultivation	Transport used

#### 3.3.3 Monitoring and reporting of adverse effects resulting from accidental spillage (if applicable)

Syngenta has informed operators about appropriate management measures to be taken in the event of accidental grain spillage. No further case-specific monitoring measures are required.

### 3.4 Concluding remarks

There have been no reports on adverse health or environmental effects associated with the use of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations in any of the places where it is being planted and/or consumed.

#### 4. Summary of results and conclusions

The top 10 largest suppliers of extra-EU maize to the EU in the reporting period July 2018 to June 2019 are Ukraine, Brazil, Canada, Serbia, Argentina, Russia, Moldova, United States, South Africa and Mexico. Together, they accounted for approximately 99.8% of total extra-EU maize imports in the period July 2018 to June 2019. Of these countries, as can be seen in **Table 3.1.1**, only Brazil, United States and Argentina cultivated Bt11 x MIR162 x MIR604 x GA21 maize and/or its “cultivated” sub-combinations.

Taking into account the estimated share of cultivation of Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations in the exporting countries and the relative weight of these countries among the import origins, it could be estimated that 4.26% of the total imported maize grain in the EU might contain the Bt11 x MIR162 x MIR604 x GA21 maize and its “cultivated” sub-combinations.

The reports received from COCERAL, UNISTOCK and FEDIOL show that no adverse effects linked to the presence of Bt11 x MIR162 x MIR604 x GA21 maize and/or its “cultivated” sub-combinations were recorded in the time period from July 2018 to June 2019.

Syngenta has not received any adverse report or indication from operators handling Bt11 x MIR162 x MIR604 x GA21 maize and/or its “cultivated” sub-combinations in the EU.

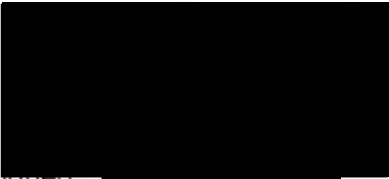
There have been no reports on adverse health or environmental effects associated with the use of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations in the countries where it is being commercialized.

No indication of adverse effect of Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations in the context of the authorization has been found in the literature search.

In summary, there is, to the best of our knowledge, no information available that questions the conclusion that Bt11 x MIR162 x MIR604 x GA21 maize and/or its sub-combinations do pose any greater risk to health or the environment than conventional maize in the context of its EU authorization.

#### 5. Adaptation of the monitoring plan and associated methodology for future years

In view of the results given in this report, no revisions to the general surveillance plan are considered necessary for Bt11 x MIR162 x MIR604 x GA21 maize and its sub-combinations.

Signed: 

Date: November 19, 2019