

**Annual general surveillance report in 2021/2022 season for
genetically modified maize products* authorised in accordance with
Commission Implementing Decisions (EU)**

**2015/683¹, 2015/684², 2015/2279³, 2015/2281⁴, 2017/1207⁵, 2018/2045⁶,
2018/2046⁷, 2019/1307⁸, 2019/1308⁹, 2021/60¹⁰, 2021/61¹¹, 2021/63¹²,
2021/65¹³, 2021/67¹⁴, 2021/1393¹⁵, 2021/1394¹⁶**

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*** ¹MON 87460, ²NK603, ³NK603 × T25, ⁴MON 87427, ⁵MON 810, ⁶NK603 × MON 810, ⁷MON 87427 × MON 89034 × 1507 × MON 88017 × 59122, and (part of its subcombinations), ⁸MON 87403, ⁹MON 87411, ¹⁰MON 87427 × MON 89034 × MIR162 × NK603, and (part of its subcombinations), ¹¹MON 87427 × MON 87460 × MON 89034 × MIR162 × NK603, and (part of its subcombinations), ¹²MON 89034, ¹³MON 87427 × MON 89034 × MIR162 × MON 87411, and (part of its subcombinations), ¹⁴MON 88017, ¹⁵MON 88017 × MON 810, ¹⁶MON 87427 × MON 87460 × MON 89034 × 1507 × MON 87411 × 59122 and (part of its subcombinations)**

Data protection.

This application contains scientific data and other information which are protected in accordance with Art. 31 of Regulation (EC) No 1829/2003.

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1. General Information

| 1.1 Crop/trait(s) ¹ | 1.2 Decision authorisation number under Directive 2001/18/EC and number and date of consent under Directive 2001/18/EC | 1.3 Decision authorisation number and date of authorisation under Regulation (EC) No 1829/2003 ^{2,3} | 1.4 Unique identifier | 1.5 Reporting period | 1.6 Other monitoring reports have been submitted in respect of cultivation |
|-----------------------------------|---|--|---------------------------|-------------------------|---|
| Maize MON 87460 | N/A | Commission Implementing Decision (EU) 2015/683 of 24 April 2015 | MON 87460-4 | July 2021 – June 2022 | No |
| Maize NK603 | N/A | Commission Implementing Decision (EU) 2015/684 of 24 April 2015 | MON-00603-6 | July 2021 – June 2022 | No |
| Maize NK603 × T25 | N/A | Commission Implementing Decision (EU) 2015/2279 of 4 December 2015 | MON-00603-6 × ACS-ZM003-2 | July 2021 – June 2022 | No |
| Maize MON 87427 | N/A | Commission Implementing Decision (EU) 2015/2281 of 4 December 2015 | MON 87427-7 | July 2021 – June 2022 | No |
| Maize MON 810 | N/A | Commission Implementing Decision (EU) 2017/1207 of 4 July 2017 | MON-00810-6 | July 2021 – June 2022 | Yes |
| Maize NK603 × MON 810 | N/A | Commission Implementing Decision (EU) 2018/2045 of 19 December 2018 | MON-00603-6 × MON-00810-6 | July 2021 – June 2022 | No |

¹ Hereafter, referenced as Bayer GM maize products.

² EU: The decisions have been amended by Commission Implementing Decision (EU) 2019/1579 of 18 September 2019 and Commission Implementing Decision (EU) 2021/184 of 12 February 2021, as regards the representative of the authorisation holder.

³ GB: Commission decisions adopted prior to 31 December 2020 have been transposed into GB legislation.

| 1.1 Crop/trait(s) ¹ | 1.2 Decision authorisation number under Directive 2001/18/EC and number and date of consent under Directive 2001/18/EC | 1.3 Decision authorisation number and date of authorisation under Regulation (EC) No 1829/2003 ^{2,3} | 1.4 Unique identifier | 1.5 Reporting period | 1.6 Other monitoring reports have been submitted in respect of cultivation |
|--|---|--|---|-------------------------|---|
| Maize MON 87427 × MON 89034 × 1507 × MON 88017 × 59122 and part of its sub-combinations ⁴ | N/A | Commission Implementing Decision (EU) 2018/2046 of 19 December 2018 | MON-87427-7 × MON-89034-3 × DAS-01507-1 × MON-88017-3 × DAS-59122-7 and part of its sub-combinations ⁵ | July 2021 – June 2022 | No |
| Maize MON 87403 | N/A | Commission Implementing Decision (EU) 2019/1307 of 26 July 2019 | MON-87403-1 | July 2021 – June 2022 | No |
| Maize MON 87411 | N/A | Commission Implementing Decision (EU) 2019/1308 of 26 July 2019 | MON-87411-9 | July 2021 – June 2022 | No |

⁴ MON 87427 × MON 89034 × 1507 × MON 88017, MON 87427 × MON 89034 × 1507 × 59122, MON 87427 × MON 89034 × MON 88017 × 59122, MON 87427 × 1507 × MON 88017 × 59122, MON 87427 × MON 89034 × 1507, MON 87427 × MON 89034 × MON 88017, MON 87427 × MON 89034 × 59122, MON 87427 × 1507 × MON 88017, MON 87427 × 1507 × 59122, MON 87427 × MON 88017 × 59122, MON 87427 × 1507, MON 87427 × MON 88017, MON 87427 × 59122, MON 89034 × MON 88017

⁵ MON-87427-7 × MON-89034-3 × DAS-01507-1 × MON-88017-3; MON-87427-7 × MON-89034-3 × DAS-01507-1 × DAS-59122-7; MON-87427-7 × MON-89034-3 × MON-88017-3 × DAS-59122-7; MON-87427-7 × DAS-01507-1 × MON-88017-3 × DAS-59122-7; MON-87427-7 × MON-89034-3 × DAS-01507-1; MON-87427-7 × MON-89034-3 × MON-88017-3; MON-87427-7 × MON-89034-3 × DAS-59122-7; MON-87427-7 × DAS-01507-1 × MON-88017-3; MON-87427-7 × DAS-01507-1 × DAS-59122-7; MON-87427-7 × MON-88017-3 × DAS-59122-7; MON-87427-7 × DAS-01507-1; MON-87427-7 × MON-88017-3; MON-87427-7 × DAS-59122-7; MON-89034-3 × MON-88017-3

| 1.1 Crop/trait(s) ¹ | 1.2 Decision authorisation number under Directive 2001/18/EC and number and date of consent under Directive 2001/18/EC | 1.3 Decision authorisation number and date of authorisation under Regulation (EC) No 1829/2003 ^{2,3} | 1.4 Unique identifier | 1.5 Reporting period | 1.6 Other monitoring reports have been submitted in respect of cultivation |
|--|---|--|--|-------------------------|---|
| Maize MON 87427 × MON 89034 × MIR162 × NK603 and part of its sub-combinations ^{6,11} | N/A | Commission Implementing Decision (EU) 2021/60 of 22 January 2021 ⁷ | MON-87427-7 × MON-89034-3 × SYN-IR162-4 × MON-00603-6 and part of its sub-combinations ⁸ | July 2021 – June 2022 | No |
| Maize MON 87427 × MON 87460 × MON 89034 × MIR162 × NK603 and part of its sub-combinations ^{9,11} | N/A | Commission Implementing Decision (EU) 2021/61 of 22 January 2021 ⁷ | MON-87427-7 × MON-87460-4 × MON-89034-3 × SYN-IR162-4 × MON-00603-6 and part of its sub-combinations ¹⁰ | July 2021 – June 2022 | No |
| Maize MON 89034 ¹¹ | N/A | Commission Implementing Decision (EU) 2021/63 of 22 January 2021 ⁷ | MON-89034-3 | July 2021 – June 2022 | No |

⁶ MON 87427 × MON 89034 × MIR162, MON 87427 × MON 89034 × NK603, MON 87427 × MIR162 × NK603, MON 89034 × MIR162 × NK603, MON 87427 × MON 89034, MON 87427 × NK603, MON 87427 × MIR162, MON 89034 × NK603, MON 89034 × MIR162, MIR162 × NK603

⁷ GB application under review

⁸ MON-87427-7 × MON-89034-3 × SYN-IR162-4, MON-87427-7 × MON-89034-3 × MON-00603-6, MON-87427-7 × SYN-IR162-4 × MON-00603-6, MON-89034-3 × SYN-IR162-4 × MON-00603-6, MON-87427-7 × MON-89034-3, MON-87427-7 × MON-00603-6, MON-87427-7 × MIR162, MON-89034-3 × MON-00603-6, MON-89034-3 × SYN-IR162-4, SYN-IR162-4 × MON-00603-6

⁹ MON 87427 × MON 87460 × MON 89034 × MIR162, MON 87427 × MON 87460 × MON 89034 × NK603, MON 87427 × MON 87460 × MIR162, MON 87427 × MON 87460 × NK603, MON 87460 × MIR162 × NK603, MON 87460 × MON 89034 × MIR162, MON 87460 × MON 89034 × NK603, MON 87427 × MON 87460, MON 87460 × MIR162, MON 87460 × NK603, MON 87460 × MON 89034

¹⁰ MON-87427-7 × MON-87460-4 × MON-89034-3 × SYN-IR162-4, MON-87427-7 × MON-87460-4 × MON-89034-3 × MON-00603-6, MON-87427-7 × MON-87460-4 × SYN-IR162-4 × MON-00603-6, MON-87460-4 × MON-89034-3 × SYN-IR162-4 × MON-00603-6, MON-87427-7 × MON-87460-4 × MON-89034-3, MON-87427-7 × MON-87460-4 × SYN-IR162-4, MON-87427-7 × MON-87460-4 × MON-00603-6, MON-87460-4 × SYN-IR162-4 × MON-00603-6, MON-87460-4 × MON-89034-3 × SYN-IR162-4, MON-87460-4 × MON-89034-3 × MON-00603-6, MON-87427-7 × MON-87460-4, MON-87460-4 × SYN-IR162-4, MON-87460-4 × MON-00603-6, MON-87460-4 × MON-89034-3

¹¹ Authorisation in GB is covered by Statutory Instrument 2022 [No. 137](#) (Scotland), [No. 472](#) (W. 116) (Wales) and [No. 486](#) (England)

| 1.1 Crop/trait(s) ¹ | 1.2 Decision authorisation number under Directive 2001/18/EC and number and date of consent under Directive 2001/18/EC | 1.3 Decision authorisation number and date of authorisation under Regulation (EC) No 1829/2003 ^{2,3} | 1.4 Unique identifier | 1.5 Reporting period | 1.6 Other monitoring reports have been submitted in respect of cultivation |
|---|---|--|--|-------------------------|---|
| Maize MON 87427 × MON 89034 × MIR162 × MON 87411 and part of its sub-combinations ^{11,12} | N/A | Commission Implementing Decision (EU) 2021/65 of 22 January 2021 ⁷ | MON-87427-7 × MON-89034-3 × SYN-IR162-4 × MON-87411-9 and part of its sub-combinations ¹³ | July 2021 – June 2022 | No |
| Maize MON 88017 ¹¹ | N/A | Commission Implementing Decision (EU) 2021/67 of 22 January 2021 ⁷ | MON-88017-3 | July 2021 – June 2022 | No |
| Maize MON 88017 × MON 810 | N/A | Commission Implementing Decision (EU) 2021/1393 of 17 August 2021 ⁷ | MON-88017-3 × MON-0810-6 | July 2021 – June 2022 | No |

¹² MON 87427 × MON 89034 × MON 87411, MON 87427 × MIR162 × MON 87411, MON 89034 × MIR162 × MON 87411, MON 87427 × MON 87411, MON 89034 × MON 87411, MIR162 × MON 87411

¹³ MON-87427-7 × MON-89034-3 × MON-87411-9, MON-87427-7 × SYN-IR162-4 × MON-87411-9, MON-89034-3 × SYN-IR162-4 × MON-87411-9, MON-87427-7 × MON-87411-9, MON-89034-3 × MON-87411-9, SYN-IR162-4 × MON-87411-9

2. Executive Summary

In accordance with Directive 2001/18/EC and the product specific Commission Implementing Decisions as mentioned in Section 1.3, the authorisation holder Bayer, is accountable for general surveillance of the placing on the market of genetically modified (GM) whole-grain maize in the European union (EU) and Great Britain (GB) for the duration of the validity of the consents.

In view of the obligation to submit annual monitoring reports for viable GM maize, Bayer has undertaken a number of general surveillance activities accompanying the placing on the market of each Bayer GM maize in the EU and GB and the status on these activities is given in this annual report.

This annual general surveillance report for the 2021/2022 season presents the monitoring results of Bayer GM maize as listed in Section 1 of this report. During the last year, taking into account our extensive experience with these products; the lack of adverse findings from independent research, available through the public literature; and the fact that no reports of adverse effects of these products have been communicated; there is, to the best of our knowledge, no information available that questions the conclusion that any Bayer GM maize as referred to in this monitoring report does not pose any risk to health or the environment greater than conventional maize.

Therefore, the general surveillance accompanying the placing on the market of Bayer GM maize in the EU and GB indicates that, to date, there have been no adverse health or environmental effects associated with the importation or use of any Bayer GM maize in the EU and GB.

3. Uses of GMOs Other Than Cultivation

3.1 Maize imports into the EU and UK²

3.1.1 Maize (GM + non-GM) imports into the EU and UK by country of origin from countries where Bayer GM maize is cultivated (2021/2022)

Table 3.1.1 Maize grain (GM + non-GM) imports into the EU and UK by country of origin

| Maize products | Maize imports into the EU and UK from where Bayer GM maize was cultivated and approximate share of Bayer GM maize cultivation in the country of origin | | | | | | | | | | | Total maize imports from the countries where Bayer GM maize was cultivated | Total maize imports from GM and non-GM maize cultivating countries |
|---|--|----------------|----------|----------------|-----------|----------|------------------|------------------|---------|-------------|----------|--|--|
| | Brazil | Canada | USA | South Africa | Argentina | Paraguay | Vietnam | Colombia | Uruguay | Philippines | Honduras | | |
| GM + non-GM imports into the EU¹/UK² | | | | | | | | | | | | | |
| 2021/2022 (Quantity 10 ³ tonnes) | 3 751 / 87 | 1 332 / 379 | 718 / 23 | 244 / 0.808 | 142 / 171 | 0.11 / 0 | 0.015 / 0.107 | 0.024 / 0.002 | 0 / 0 | 0 / 0 | 0 / 0 | 6 188 / 661 | 16 077 / 1 027 |
| Share of GM cultivation in 2021³ | | | | | | | | | | | | | |
| MON 87460 | | | | | | | | | | | | NA | NA |
| NK603 | | | | | | | | | | | | | |
| NK603 × T25 | | | | | | | | | | | | | |
| MON 87427 | | | | | | | | | | | | | |
| MON 810 | | | | | | | | | | | | | |
| NK603 × MON 810 | | | | | | | | | | | | | |
| MON 87427 × MON 89034 × 1507 × MON 88017 × 59122 | | | | | | | | | | | | | |
| MON 89034 × MON 88017 | | | | | | | | | | | | | |
| MON 87403 | | | | | | | | | | | | | |
| MON 87411 | | | | | | | | | | | | | |
| MON 87427 × MON 89034 × MIR162 × NK603 | | | | | | | | | | | | | |
| MON 89034 × NK603 | | | | | | | | | | | | | |
| MON 87427 × MON 87460 × MON 89034 × MIR162 × NK603 | | | | | | | | | | | | | |

| | | | |
|---|--|--|--|
| MON 87460 × MON 89034 × NK603 | | | |
| MON 89034 | | | |
| MON 87427 × MON 89034 × MIR162 × MON 87411 | | | |
| MON 88017 | | | |
| MON 88017 × MON 810 | | | |
| MON 87427 × MON 87460 × MON 89034 × 1507 × MON 87411 × 59122 | | | |

- ¹ Source: EUROSTAT (2022) data covers 27 EU Member States (July 2021 to June 2022). Data are obtained through CropLife Europe (CLE) in October 2022 and show total maize imports into the EU in 2021/2022 from countries where Bayer GM maize was also cultivated in 2021. The EUROSTAT data showing all maize exporters into the EU are provided as an Annex to this document.
- ² Source: HMRC/AHDB (2022) data for UK cover Great Britain and Northern Ireland (July 2021 to June 2022). Data are obtained through CLE in September 2022 and show total maize imports into the UK in 2021/2022 from countries where Bayer GM maize was also cultivated in 2021. The HMRC/AHDB data showing all maize exporters into the UK are provided as an Annex to this document.
- ³ Bayer is not an operator directly involved in the import of maize grain into the EU and UK. Therefore, Bayer is not in a position to report directly on globally traded volumes of GM maize grain. However, in order to provide an idea of the amount of GM maize that could possibly be imported into the EU and UK, the approximate share of cultivation in the country of origin is provided, expressed as “-“ (no cultivation), 0-20%, 20-40%, 40-60%, 60-80% or 80-100%. It must be kept in mind that information on approximate share of cultivation are estimates only, and that the amount of GM maize that will be exported to the EU and UK will only represent a portion of the cultivated amounts.

NA = Not applicable

3.1.2 Commodity Crop (GM + non-GM) imports into the EU and UK by country of destination (2021/2022)

Table 3.1.2 Maize grain (GM + non-GM) imports into the EU and UK by country of destination

| Country of destination | Quantity (10 ³ tonnes) in 2021/2022 |
|------------------------|--|
| Spain | 6 121 |
| Netherlands | 2 467 |
| Portugal | 1 549 |
| Italy | 1 536 |
| Ireland | 999 |
| Poland | 709 |
| Belgium | 523 |
| Slovenia | 423 |
| Hungary | 402 |
| Romania | 272 |
| Greece | 239 |
| Latvia | 163 |
| Cyprus | 148 |
| Austria | 144 |
| Germany | 123 |
| Lithuania | 112 |
| Slovakia | 66 |
| Croatia | 39 |
| Bulgaria | 12 |
| Finland | 10 |
| France | 5 |
| Czechia | 4 |
| Denmark | 4 |
| Estonia | 2 |
| Sweden | 1 |
| Malta | 0 |
| Luxembourg | 0 |
| TOTAL EU | 16 077 |
| TOTAL UK | 1 027 |

Sources: EUROSTAT (2022) data cover 27 EU Member States. HMRC/AHDB (2022) data for UK cover Great Britain and Northern Ireland. Period covers July 2021 to June 2022.

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 and the United Kingdom (UK) from outside the EU and UK is presented in **Tables 3.1.1** and **3.1.2**.

Extra-EU/UK maize imports vary from year to year depending on several factors (*e.g.* EU maize harvest, weather conditions, commodity price).

For the **EU**, total extra-EU maize imports in 2021/2022 were approximately 16.1 million tonnes.

In 2021/2022, the suppliers of extra-EU maize to the EU were Ukraine, Brazil, Canada, Serbia, USA, Moldova, Russia, South Africa and Argentina¹⁶. Of these, Brazil, Canada, South Africa and Argentina cultivated Bayer GM maize in 2021 (**Table 3.1.1**).

Table 3.1.2 summarises the total maize imports into the EU by country of destination. These data indicate that Spain, the Netherlands, Portugal, Italy, Ireland, Poland, Belgium, Slovenia and Hungary are the main importers of extra-EU maize in the EU in 2021/2022, accounting for over 92 % of the total maize import volume.

For UK, total maize imports in 2021/2022 were approximately 1.027 million tonnes.

In 2021/2022, the suppliers of maize import into UK were Canada, Ukraine, Argentina, Brazil, Turkey, USA and Russia¹⁷. Of these, Canada, Argentina, Brazil, and USA cultivated Bayer GM maize in 2021 (**Table 3.1.1**).

Table 3.1.2 summarises the total maize imports into UK.

Bulk shipments of maize entering the EU and UK 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 and UK; 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.

¹⁶ According to EUROSTAT 2022 data, the suppliers of extra-EU maize to the EU in 2021/2022 were by decreasing order of importance: Ukraine, Brazil, Canada, Serbia, USA, Moldova, Russia, South Africa, Argentina, Turkey, Bosnia and Herzegovina, Belarus, Peru, North Macedonia, Thailand, Mexico, Kenya, Madagascar, Paraguay, Switzerland, Ivory Coast, Lebanon, India, Sri Lanka, China, Bolivia, Vietnam, Chile, Malaysia, Somalia, Ghana, Morocco, Syria, Australia, Iran, Togo, Mozambique, Cameroon, Burundi, Nepal, Egypt, South Korea, United Arab Emirates, Uganda, Israel, Nigeria, Bangladesh, Pakistan, Benin, Ecuador, Norway, Philippines, Ethiopia, Myanmar, Saudi Arabia, Taiwan, Kazakhstan, Zimbabwe, Japan, Georgia, Senegal, Congo, Indonesia, Cabo Verde, Guinea, Tanzania, Tunisia and New Zealand. The EUROSTAT data showing all maize exporters into the EU are provided as Annex to this document.

¹⁷ According to HMRC/AHDB 2022 data, the suppliers of maize to GB in 2021/2022 were by decreasing order of importance: Canada, Ukraine, Argentina, Brazil, Turkey, USA, Russia, South Africa, India, Vietnam, Panama, Mexico, Egypt, Peru, Ghana, Pakistan, China, Lebanon, Thailand, Kenya, Nigeria, Colombia, Sri Lanka and United Arab Emirates. The HMRC/AHDB data showing all maize exporters into GB are provided as Annex to this document.

Regulation (EC) No 178/2002 regarding the general principles and requirements of food law and food safety procedures, Regulation (EC) No 852/2004 on the hygiene of foodstuffs, and Regulation (EC) No 183/2005 regarding feed hygiene, and their amendments, contain operational rules and standards applicable to the handling of maize imports. In accordance with these Regulations, the principles of HACCP (Hazard Analysis and Critical Control Points) apply.

3.2 General Surveillance

3.2.1 Description of General Surveillance

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

Bayer is not involved in commodity trade with GM maize. 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 GM maize. They are exposed to the imported viable GM maize 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 as reflected on the website of the trade associations representing the operators involved in the PMEM (*see below*).

Since traders may commingle GM maize with other commercial maize, including other authorised GM maize, Bayer is working together with other members of the plant biotechnology industry within CropLife Europe 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 CropLife Europe shall:

- Agree with the operators before adding or amending activities that fall under their responsibility in accordance with the proposed monitoring plan.
- Inform the operators in a timely fashion of any newly approved GM plant products for import and processing under Regulation (EC) No 1829/2003 or Directive 2001/18/EC subject 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 website¹⁸ 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 CropLife Europe 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 agreement¹⁸ 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, ...), 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 a potential adverse effect
 - 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 CropLife Europe

¹⁸ CropLife Europe - <https://croplifeeurope.eu/product-information/> - Accessed on 28 September 2022.

- 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 COCERAL, UNISTOCK and FEDIOL shall notify CropLife Europe of the results of the general surveillance on an annual basis. The report shall cover all approved GM plant products subject to general surveillance. CropLife Europe shall forward this report to the respective consent holders for inclusion in their annual report to the European Commission (EC) and to Food Standards Agency (FSA).

The general surveillance information reported to and collected by the consent holder from the European trade associations or other sources shall be analysed for its relevance. Where information indicates the possibility of an unanticipated adverse effect, the consent holder shall immediately investigate to determine and confirm whether a significant correlation between the effect and a specific GM maize can be established. If the investigation establishes that a specific GM maize is the cause of the adverse effect, the consent holder shall immediately inform the EC and FSA. The consent holder, in collaboration with the EC and FSA 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 observed effect.

As described in the bullet points above, the consent holder shall submit an annual monitoring report including results of the general surveillance in accordance with the conditions of the consent. The report shall contain information on any unanticipated adverse effects that have arisen from handling and use of the viable GM maize.

The report will include a scientific evaluation of the confirmed adverse effect, if any, a conclusion of the safety of the GM maize 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

Bayer, together with other members of the plant biotechnology industry and CropLife Europe, implements the general surveillance of viable GM maize, with the help of selected networks, according to the methodology outlined in Bayer'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 and GB are members of COCERAL.

Also see: <http://www.coceral.com> - Accessed on 28 September 2022.

⇒ *Silo Operators*

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

Also see: <http://www.unistock.be> - Accessed on 28 September 2022.

⇒ *Processors*

FEDIOL, the federation of the EU vegetable Oil and Protein Meal Industry, represents the interests of the European crushers of oilseed meal producers and vegetable oils producers/processors. Its members represent 85% of the EU industry and hold more than 180 oilseeds processing and vegetable oils and fats production facilities across Europe.

Also see: <http://www.fediol.eu> - Accessed on 28 September 2022.

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 1831/2003 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 GM maize, because they focus on processed, non-viable material.

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

Following the Commission (Implementing) Decisions regarding the placing of Bayer GM maize on the market pursuant to Regulation (EC) No 1829/2003, Bayer informs the operators in the EU and GB who handle and process bulk mixtures of imported maize grains of the regulatory progress made in the EU and GB. This notice also included a description of the establishment of a general surveillance plan.

Additionally, specific information concerning the safety, general characteristics and the general surveillance conditions for each of Bayer GM maize were uploaded on the website dedicated to trade associations representing the relevant operators that import, handle and process viable maize commodity in the EU and GB, providing an overview and detailed information on approved GM plant products subject to general surveillance. The website¹⁸, hosted by CropLife Europe, contains the following information for each Bayer GM maize product:

- A fact sheet
- A contact point
- The EFSA Opinion for food and feed uses, import and processing
- The Commission Decision concerning the placing on the market
- A link to the entries in the Community Register for GM Food and Feed

3.2.4 Results of General Surveillance

The reporting by the trade associations takes place at the end of their business year, *i.e.* end of June. Therefore, CropLife Europe reminded the trade associations to provide their annual report on any occurrence of unanticipated adverse effects arising from the approved GM products, including Bayer GM maize products as listed in Section 1 placed on the market during the period from July 2021 to June 2022.

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 CropLife Europe 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 EC, FSA 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 Bayer GM maize products as listed in Section 1 in the time period from July 2021 to June 2022 (*see Appendix 1*). Furthermore, no incidents in relation to the placing on the market of Bayer GM maize products as listed in Section 1 have been reported to CropLife Europe or the authorisation holder since July 2021 to date.

3.2.5 Additional Information

Operators in the food and feed supply chain and/or any other person wishing to report a potential adverse effect associated with the import or use of Bayer GM maize in the EU and GB, can refer to a contact point at CropLife Europe website¹⁸. This contact will record any reports of potential adverse effects by means of a standardised adverse effect reporting form (**Appendix 2**). Reports of adverse effects are analysed in the annual general surveillance report.

Additionally, the Bayer Product Stewardship page offers a global contact point for reporting any safety concern¹⁹.

To date, no adverse effects associated with the import or use of any Bayer GM maize products in the EU and GB or in other parts of the world have been reported.

3.2.6 Literature search

As part of the general surveillance requirements for Bayer GM maize, a literature search that complies with the recommendations outlined in the 2019 EFSA explanatory note on literature searching²⁰ has been conducted on a quarterly basis covering the time span June 2021 – May 2022 and is provided along with the Appendix E – completeness checklist in **Appendix 3**.

Bayer confirms that the literature search, conducted in accordance with the 2019 EFSA explanatory note on literature searching and within the context of the general surveillance for the Bayer GM maize products in the EU and GB, identified no relevant publications that would invalidate the initial conclusions of the risk assessment for Bayer GM maize products as listed in Section 1.

¹⁹ Bayer - <https://www.bayer.com/en/product-stewardship.aspx> - Accessed on 28 September 2022.

²⁰ EFSA - <https://www.efsa.europa.eu/en/supporting/pub/en-1614> - Accessed on 28 September 2022.

3.3 Case-Specific Monitoring

3.3.1. Description and results of Case-Specific Monitoring (if applicable)

The scientific evaluation of the characteristics of any Bayer GM maize in the environmental risk assessment (ERA) has shown that the risk for potential adverse effects on human and animal health or the environment is negligible in the context of the intended uses of Bayer GM maize. It is therefore considered that there is no need for case-specific monitoring.

3.3.2 Processing (if applicable)

Not applicable, *see* Section 3.3.1.

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

Not applicable, *see* Section 3.3.1.

3.4 Concluding remarks

To date, the general surveillance accompanying the placing on the market of any Bayer GM maize in the EU and GB indicates that there have been no adverse health or environmental effects associated with the importation or use of any Bayer GM maize.

4. Summary of results and conclusions

In accordance with the Commission (Implementing) Decisions for the Bayer GM maize presented in Section 1, the consent holder, Bayer CropScience, is accountable for general surveillance of the placing on the market of these GM maize products in the EU and GB for the duration of the validity of each consent.

Taking into account a) the favourable scientific evaluations by scientists and regulatory agencies around the world; b) our extensive commercial experience with these products; c) the lack of adverse findings from independent research, available through the public literature; and d) the fact that no reports of adverse effects of these products have been communicated; there is, to the best of our knowledge, no information available that questions the conclusion that Bayer GM maize products as referred to in this monitoring report do not pose any risk to health or the environment greater than conventional maize.

Therefore, the general surveillance accompanying the placing on the market of Bayer GM maize in the EU and GB indicates that, to date, there have been no adverse health or environmental effects associated with the importation or use of these products in the EU and GB.

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 any Bayer GM maize product.

October 2022

ANNEX. EUROSTAT and HMRC/AHDB data showing all maize exporters into the EU and UK, respectively

EUROSTAT data showing all maize exporters into the EU

July 2022 until June 2022 EU Corn Imports by Member State and by NACE Register to Type (NACE Rev. 2)

| Exporter | Austria | Belgium | Bulgaria | Czechia | Cyprus | Denmark | Germany | France | Greece | Hungary | Ireland | Italy | Lithuania | Latvia | Luxembourg | Malta | Netherlands | Poland | Portugal | Romania | Slovakia | Slovenia | Spain | Sweden | Other |
|-------------|---------|---------|----------|---------|--------|---------|---------|--------|--------|---------|---------|-------|-----------|--------|------------|-------|-------------|--------|----------|---------|----------|----------|-------|--------|-------|
| Austria | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Belgium | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Bulgaria | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Czechia | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Cyprus | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Denmark | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Germany | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Greece | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| France | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Italy | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Lithuania | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Latvia | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Luxembourg | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Malta | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Netherlands | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Poland | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Portugal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Romania | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Slovakia | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Slovenia | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Spain | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Sweden | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Other | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Commodity Code Ch 100000 Maize (incl. seed for sowing)

Source: Eurostat
Date: October 2022

HMRC/AHDB data showing all maize exporters into the UK

July 2021 until June 2022 - UK Maize Imports in Tons (CN 10059000) (CN 10051018) (CN 10051090) (CN 10051019)

| Reporter/Period | United Kingdom |
|-----------------|---------------------|
| Canada | 378 526,43 |
| Ukraine | 326 330,94 |
| Argentina | 171 233,12 |
| Brazil | 86 906,84 |
| Turkey | 27 263,60 |
| USA | 23 443,93 |
| Russia | 11 812,26 |
| South Africa | 808,13 |
| India | 197,11 |
| Vietnam | 106,82 |
| Panama | 101,32 |
| Mexico | 57,25 |
| Egypt | 24,00 |
| Peru | 20,57 |
| Ghana | 15,69 |
| Pakistan | 11,21 |
| China | 10,70 |
| Lebanon | 9,68 |
| Thailand | 3,49 |
| Kenya | 3,00 |
| Nigeria | 2,83 |
| Colombia | 2,45 |
| Sri Lanka | 1,86 |
| UAE | 1,05 |
| Total | 1 026 893,23 |

Source: HMRC, via the Agriculture and Horticulture Development Board <https://ahdb.org.uk/cereals-oilseeds/trade-data>

Date: September 2022

Commodity codes:

10059000 (Maize (excl. seed for sowing))

10051018: Hybrid maize seed for sowing (excl. three-cross and simple hybrid seed),

10051090 (Maize seed for sowing (excl. hybrid))

10051019 (Hybrid maize seed (excl. double, top cross, three-cross and simple hybrid maize seed))