



**Review of Scientific Literature Relevant to the
Food/Feed and Environmental Risk Assessment of
5307 Maize**

Literature Review

TEST GUIDELINE(S):

Not Applicable

AUTHOR(S):



COMPLETION DATE:

October 26, 2021

PERFORMING LABORATORY:

Syngenta Crop Protection, LLC
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

LABORATORY PROJECT ID:

Report Number: SSB-109-21

SPONSOR(S):

Syngenta Crop Protection, LLC
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

STATEMENT OF DATA CONFIDENTIALITY CLAIMS

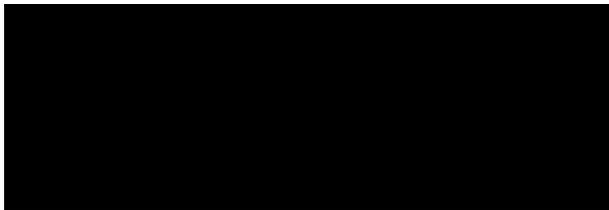
The following statement applies to submissions to the United States Environmental Protection Agency (US EPA).

Statement of No Data Confidentiality Claim

No claim of confidentiality is made for any information contained in this report on the basis of its falling within the scope of Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 10 (d) (1) (A), (B), or (C).

Company: *Syngenta Seeds, LLC*

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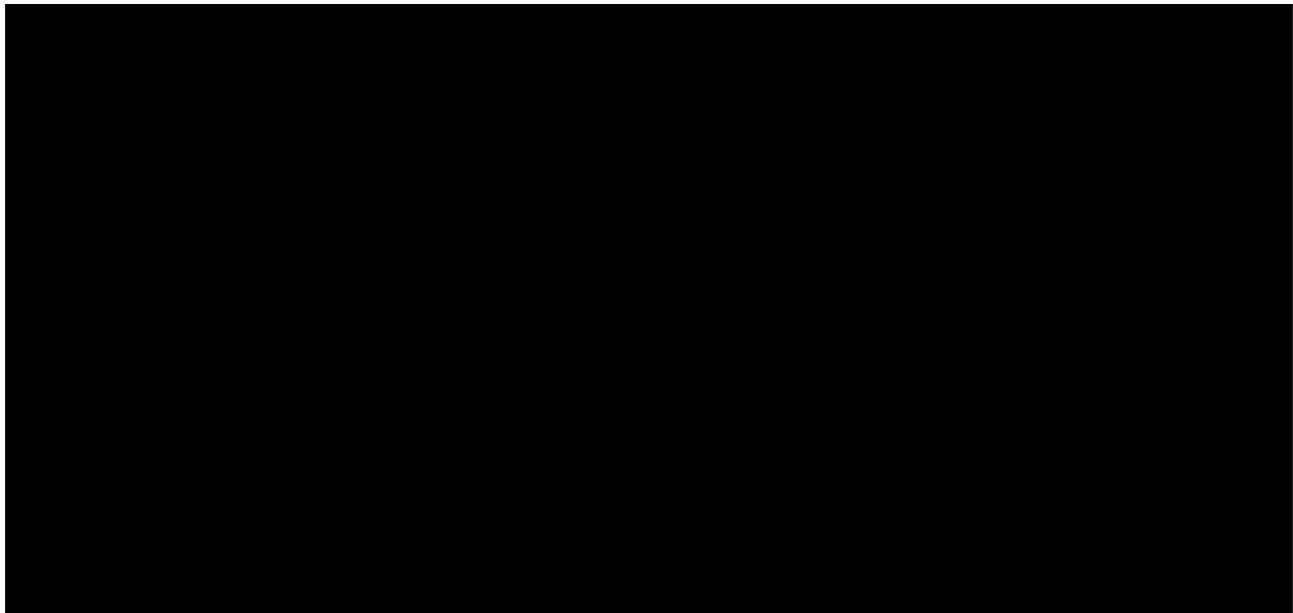


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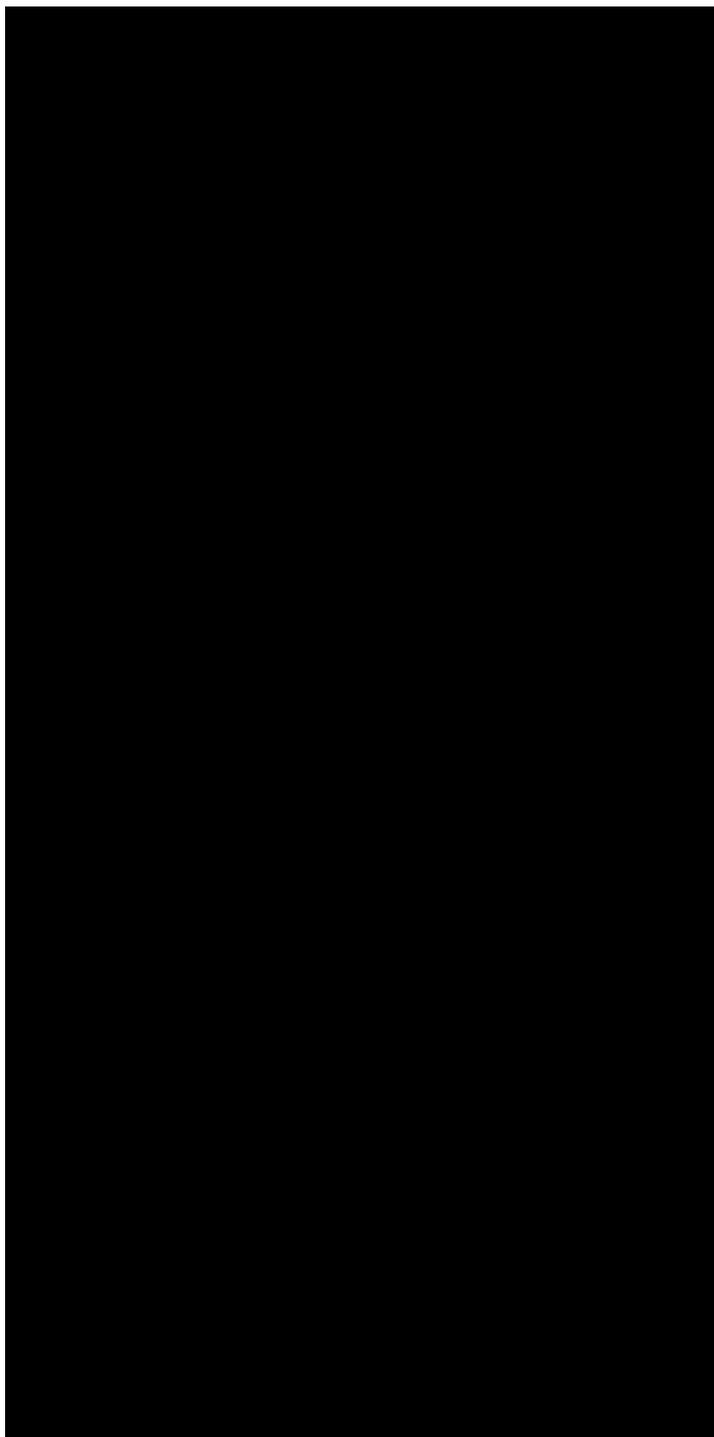
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GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

This is not a study as defined by 40 CFR Part 160.3 and is therefore not subject to Federal Insecticide, Fungicide, and Rodenticide Act Good Laboratory Practice Standards (GLPS; US EPA, 1989). However, all components of this analysis were performed according to accepted scientific practices, and relevant records have been retained.



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GENERAL INFORMATION

Sponsor

Syngenta Crop Protection, LLC
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

Key Study Personnel

Name	Role	Affiliation
	Author and Record Reviewer	Syngenta Crop Protection, LLC
	Record Reviewer	Syngenta Crop Protection, LLC
	Tie Breaker Reviewer	Syngenta Crop Protection, LLC
	Data Manager	Syngenta Crop Protection, LLC
	Information Specialist	Syngenta Crop Protection, LLC

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LIST OF ACRONYMS AND ABBREVIATIONS

CAB	Commonwealth Agricultural Bureaux
EFSA	European Food Safety Authority
ERA	Environmental Risk Assessment
EU	European Union
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
GMO	Genetically Modified Organism
ISAAA	International Service for the Acquisition of Agri-Biotech Applications
MEDLINE	MEDical Literature Analysis and Retrieval System Online
NA	Not Applicable
NTO	Nontarget organism
PICO/PECO	Population, Intervention/Exposure, Comparator, Outcomes
PMEM	Post-Market Environmental Monitoring
PMI	Phosphomannose isomerase

1.0 EXECUTIVE SUMMARY

Syngenta has developed maize (*Zea mays* L., corn) line derived from transformation event 5307.

A systematic literature search and scoping review for the 5307 maize was conducted following the requirements of the European Food Safety Authority (EFSA) technical note on literature searching to GMO risk assessment guidance in the context of an annual post-market environmental monitoring (PMEM) report on GMOs (EFSA 2019).

A broad literature search was performed using a pre-defined comprehensive search strategy over a collection of bibliographic databases, covering a database entry period from June 01, 2020 to July 01, 2021. A total of four public databases based on their coverage of scientific literature were searched via Ovid search interface. The records were de-duplicated after combining records retrieved from all the databases to generate unique references. Similarly, the internet pages of regulatory agencies and risk assessment bodies that are involved in the risk assessment of GMOs and post their risk assessments on their websites were searched.

This literature search identified a total of 220 records from database search, of which 219 were excluded at the title review stage and 1 record was found relevant after the full-text review stage. Similarly, the literature search identified a total of 77 records from the internet search, of which all of the 77 records were excluded at the full-text review stage. The assessment of the relevant information obtained from these records does not change the risk assessment for 5307 maize.

Therefore, the literature search results, and review support the existing safety assessment of the 5307 maize.

2.0 METHODS

2.1 Objective of the Scoping Review

The objective of this systematic literature search and scoping review was to search scientific publications in order to collect, identify, and assess evidence that is relevant to the risk assessment of 5307 maize in the context of an annual post-market environmental monitoring (PMEM) report on GMOs authorized in the EU market.

Syngenta developed maize plants derived from transformation event contains the gene *ecry3.1Ab*, which encodes the insecticidal protein eCry3.1Ab, and the gene *pmi*, which encodes the enzyme phosphomannose isomerase (PMI). The engineered protein eCry3.1Ab is a chimera of mCry3A and Cry1Ab. The native, full-length Cry1Ab from the soil bacterium *Bacillus thuringiensis* subsp. *kurstaki* is active against certain lepidopteran insect pests; however, the portion of Cry1Ab included in eCry3.1Ab has not preserved the activity of Cry1Ab against lepidopterans. The native Cry3A from *B. thuringiensis* subsp. *tenebrionis* is active against certain coleopteran insect pests of maize; it was modified to have enhanced activity against Western corn rootworm (*Diabrotica virgifera virgifera*) and other related coleopteran pests. The gene *pmi* (also known as *manA*) was derived from *Escherichia coli*

strain K-12. PMI enables transformed plant cells to utilize mannose as a primary carbon source; it was used as a selectable marker in the development of 5307 maize.

2.2 Formulating Review Questions and Clarifying Their Purpose

2.2.1 Review Question

The review question associated with this literature search was:

Do either food/feed products derived from 5307 maize or the intended traits have adverse effects on human and animal health and/or the environment?

This review question followed the PICO/PECO structure with key elements “Population, Intervention/Exposure, Comparator, and Outcomes” (Table 1).

TABLE 1 Review Question in PICO/PECO Structure

Element	Components of Review Question
<u>P</u> opulation	human and animal health and the environment
<u>I</u> ntervention/ <u>E</u> xposure	5307 maize, derived food/feed products, eCry3.1Ab and closely related variants and phosphomannose isomerase (PMI)
<u>C</u> omparator	conventional counterpart (if applicable)
<u>O</u> tcomes	adverse effects

2.2.2 Eligibility/Inclusion Criteria

High level key concepts for inclusion/exclusion criteria intended to establish relevance of retrieved records are provided in the order of importance or ease of finding information on the criteria within a publication (Table 2). The first failed eligibility/inclusion criterion was used as the primary reason for exclusion, and the remaining criteria were not assessed.

Expert knowledge on data used in the risk assessment of the GMO is required. Some examples of relevant data/information on the information/data requirements concept included in Table 2 are listed in Table 3. If certain data are considered event-specific or specific to the transgenic protein expressed in 5307 maize, it is noted. If the record does not contain enough information to determine if the protein being evaluated is a closely related variant then, it will be included.

TABLE 2 Eligibility/inclusion Criteria to Establish Relevance

Concepts	Criteria	Comment
Intervention/exposure	5307 maize, derived food/feed products, and/or the intended or closely related trait(s)	Intended traits include coleopteran pest resistance and mannose metabolism. Closely related variants of eCry3.1Ab (i.e., those that share the same tertiary level of Crickmore nomenclature) will be included as relevant. Any records on enzymes classified as PMI will be considered relevant.
Information/data requirements	Data inform one or more information/data requirement(s) for the GMO and derived food/feed products under consideration, including the intended trait(s)	Publications that potentially contribute to the knowledge informing the risk assessment of 5307 maize (information/data requirements provided in Table 3) will be considered relevant. Publications addressing issues such as benefits, socio-economics, ethics, crop protection, detection methods, efficacy, public perception, and risk communication will be excluded using this criterion, as they are not relevant to the risk assessment as defined in this document.
Scope of GMO application	The pathways and level of exposure to the GMO, derived food/feed products, and the intended trait(s) addressed in the publication are relevant for the intended uses of the GMO and derived food/feed products under regulatory review	Publications must address pathways and levels of exposure relevant to the scope of the application: import and processing of 5307 maize for food/feed uses.
Reporting format	Original/primary data are presented in the publication or it is a risk assessment from a relevant key organization (such as regulatory agencies and risk assessment bodies involved in the risk assessment of GMOs)	Records that do not present original/primary data (e.g., reviews, editorials, position papers) will be excluded. Risk assessments performed and reported by relevant key organizations will be included if they address 5307 maize, eCry3.1Ab, or closely related variants and PMI.
Previously risk assessed publications	As indicated by EFSA, a publication should be included if it has not been previously risk assessed by EFSA and/or its GMO Panel and is not cited/referenced in an EFSA/GMO Panel output	If a publication has previously been considered by EFSA it will be excluded. Any cited/referenced publications contained within documents produced by EFSA and/or its GMO Panel will be excluded.
Access	Full-text document is accessible	If potentially relevant full-text documents could not be obtained, then they will be listed in a table with a description of the (unsuccessful) methods that have been used to try to obtain a copy.

Concepts	Criteria	Comment
Population	Human and animal health, and/or the environment are addressed as general protection goals	All of the information/data requirements categories described in Table 3 are thought to inform the risk assessment related to human and animal health, and/or the environment. Therefore, if a publication meets the inclusion criteria described in this Table and is relevant to the information/data requirements in Table 3 it will be considered relevant.
Outcomes	Effects/impacts on human and animal health, and/or the environment are addressed	Publications that address 5307 maize need to address effects/impacts on entities of concern, and potential determinants of exposure that place these entities at risk in order to be relevant to the risk assessment of 5307 maize.
Comparator	If the publication is a comparative study that uses plant material as a test material, eligible publications must report a non-GM variety	Publications that address 5307 maize must also include a conventional counterpart as a comparator in those cases where comparative analysis is conducted and plant material is used as test material. Any uncertainties about the appropriateness of the comparator will be addressed in the assessment of the publication.
Plant species	The publication addresses the same plant species as the GMO under consideration, but could also address any plant species producing the eCry3.1Ab or PMIroteins.	This review question addresses the safe use of the intended traits(s) of 5307 maize. Therefore, GMOs that contain eCry3.1Ab or PMI or closely related variants, but are introduced into another plant species may be included. For certain types of data, the presence of the transgenic proteins in a different plant species will not impact the assessment of 5307 maize. Those types of data are identified as event specific in Table 3.
Target pest/organisms	Target pests/organisms addressed in the study are established in the EU	Records related to the intervention/exposure and target pests/organisms will be excluded because the scope of the application is import for food/feed uses and this would be relevant for cultivation applications only.
Reporting format	A study should only be presented once, but if it is presented in more than one publication, all publications should be listed and grouped.	Duplicate publications will be excluded at the initial screening stage. Only one copy of a study will be presented even if it is reported in different publications.

TABLE 3 Overview of Main Categories of Information/Data Requirements

Information/data requirement	Non-exhaustive list of specific information/data requirements
Molecular characterization of the genetic modification of the GMO	<ul style="list-style-type: none"> • Information on the insert including: sequence, size, copy number, genetic element arrangement, deletions, location, sequence similarity searches, and analysis of open reading frames (5307 maize only) • Expression data of inserted/modified sequences (5307 maize only) • Genetic stability (5307 maize only) • Molecular and biochemical characterization of the protein(s) such as: primary structure, molecular weight, post-translational modifications (eCry3.1Ab or PMI as expressed in 5307 maize only) • Assessment of enzymatic activity including substrate specificity and reaction products with respect to safety and/or nutritional balance • Data on the equivalence between plant-produced and microbially-produced proteins (eCry3.1Ab or PMI from 5307 maize plants and a microbial source)
Agronomic, phenotypic and compositional characterization of the GM plant	<ul style="list-style-type: none"> • Comparative assessment of agronomic and phenotypic characteristics under field or controlled conditions (5307 maize only) • Comparative analysis of key nutritional constituents (5307 maize only)
Toxicological assessment of newly expressed protein(s), new constituents other than proteins, and the whole GM food/feed	<ul style="list-style-type: none"> • Amino acid sequence comparison between the newly expressed protein(s) (eCry3.1Ab or PMI as expressed in 5307 maize only) and toxic proteins • Stability of the protein(s) under relevant processing and storage conditions • Investigation of proteolytic susceptibility of the newly expressed proteins • Toxicity studies • Feeding studies that used plant material (5307 maize only)
Allergenicity assessment of the newly expressed protein and the GM food/feed, and adjuvanticity	<ul style="list-style-type: none"> • Amino acid sequence comparison between the newly expressed protein(s) and known allergens or celiac disease peptide sequences (eCry3.1Ab or PMI as expressed in 5307 maize only) • Serum screening • Pepsin susceptibility testing • <i>In vivo</i> tests in animal models • Expression data for endogenous allergens in maize (5307 maize only) • Comparison of newly expressed proteins to known strong adjuvants
Nutritional assessment of the newly expressed protein(s), other new constituents, as well as potential alterations in the total diet of the consumer or the animal	<ul style="list-style-type: none"> • Anticipated dietary intake of food/feed from 5307 maize and the resulting nutritional impact • Comparative growth performance studies with young rapidly growing animal species (5307 maize only if the diet contains transgenic plant material)

Information/data requirement	Non-exhaustive list of specific information/data requirements
Post-market monitoring	<ul style="list-style-type: none"> Description of mechanisms for determining actual changes to overall dietary intake patterns of the GM food, to what extent this has occurred and whether or not the product induces known (side) effects or unexpected side effects Information on the reliability, sensitivity and specificity of the post market monitoring
Persistence and invasiveness assessment, including plant-to-plant gene transfer	<ul style="list-style-type: none"> Measurements of volunteer occurrence and establishment (5307 maize only) Replacement capacity (i.e., # of plants present at specific observation time/# of plants present after initial sowing) (5307 maize only) Fitness of the GM plant expressing eCry3.1Ab or PMI in various environmental conditions – in the same or in different plant species may be considered relevant
Assessment of plant to micro-organism gene transfer	<ul style="list-style-type: none"> Homology searches at nucleotide level between the GM event and microorganisms. (5307 maize only)
Assessment of interactions with target organisms	<ul style="list-style-type: none"> Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of 5307 maize in the EU. According to the EFSA ERA Guidance (EFSA 2010): “...resistance development is only relevant for applications with scope cultivation of GM plants and not for applications restricted to import and processing of GM plants and their products” (EFSA 2010). Therefore, an assessment of the potential resistance development in target organisms resulting from the import, processing and food and feed use, 5307 maize is not relevant for this application.
Assessment of interactions with nontarget organisms (NTO)	<ul style="list-style-type: none"> The EFSA ERA Guidance (EFSA 2010) states that: “In cases where the application does not include cultivation in the EU, direct environmental exposure of NTOs to the GM plant is via accidental release into the environment of seeds or propagules during transportation and processing. This may result in sporadic occurrence of feral plants and therefore exposure of NTO populations is likely to be negligible. The ERA will then focus on indirect exposure to products of the GM plant (e.g., through manure and faeces from animals fed the GM plant, and other by-products of industrial processes)...”. Therefore, any publications that discuss direct exposure in test protein(s) and laboratory studies or field survey data can be considered not relevant based on scope of application.
Assessment of interactions with biogeochemical and abiotic processes	<ul style="list-style-type: none"> Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of 5307 maize in the EU. According to the EFSA ERA Guidance (EFSA 2010): “applications concerning food/feed uses and import and processing do not require scientific information on possible environmental effects associated with the cultivation of the plant” therefore, an assessment of the impacts of 5307 maize on biogeochemical processes resulting from specific cultivation, management and harvesting techniques is not relevant given the scope of this application.

Information/data requirement	Non-exhaustive list of specific information/data requirements
Assessment of impact of specific cultivation, management, and harvesting techniques	<ul style="list-style-type: none"> Excluded based on the scope of the application. The scope of this application covers the import, processing, and food and feed use of 5307 maize in the EU. Cultivation of 5307 maize in the EU is not included in the scope. According to the EFSA ERA guidance (EFSA 2010): “...for GM plants for import and processing that are not intended for cultivation in the EU, there is no need for an ERA for altered cultivation, management and harvesting techniques”. Therefore, an assessment of impact of specific cultivation, management and harvesting techniques of 5307 maize is not relevant for this application.
Risk mitigation	<ul style="list-style-type: none"> Excluded based on the scope of the application. Risk mitigation measures such as high dose/refuge strategy, isolation distance from protected habitats hosting species of conservation concern that are at risk, integrated pest/weed management are only relevant to cultivation. The scope of this application covers the import, processing, and food and feed use of 5307 maize.
Post-market environmental monitoring	<ul style="list-style-type: none"> Excluded based on the scope of the application. Monitoring such as insect resistance is relevant only to cultivation. The scope of this application covers the import, processing, and food and feed use of 5307 maize.

3.0 SEARCHING FOR/IDENTIFYING RELEVANT PUBLICATIONS

3.1 Electronic Bibliographic Databases

To search for different types of publications and unpublished work that could provide information on the review question, multidisciplinary citation databases which include grey literature (i.e., not peer reviewed) was used. A total of four public databases including MEDical Literature Analysis and Retrieval System Online (Medline), Agricola, Commonwealth Agricultural Bureaux (CAB) Abstracts, and BIOSIS Previews® were searched via Ovid search interface (provided by Ovid Technologies). Each of the databases has a thesaurus. These databases were selected based on their coverage of scientific literature for relevant subjects including, but not limited to, biomedicine, plant diseases, agriculture, life sciences, pesticides, human health and nutrition, animal health, plant science, biotechnology, and environmental studies. The document types in these databases include journal articles, technical letters and notes, conference proceedings, book chapters, reports, and articles in press.

Due to the use of multiple (i.e., 4) multi-disciplinary databases and redundancy in coverage it is unlikely that late edition of a publication would be missed.

3.2 Internet Searches

3.2.1 Key organizations

The internet pages of regulatory agencies and risk assessment bodies that are involved in the risk assessment of GMOs and post their risk assessments on their websites (Table 4) were searched for documents related to 5307 maize.

TABLE 4 Key Organization Pages Included in the Search

Regulatory agency/risk assessment body	Web address
Food Standards Australia New Zealand	http://www.foodstandards.gov.au/consumer/gmfood/applications/Pages/default.aspx
Health Canada ^a	https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html
Ministry of Agriculture, Forestry and Fisheries	http://www.maff.go.jp/e/
Ministry of Environment, Forest and Climate change	http://moef.gov.in/
National Technical Commission on Biosafety ^b	http://ctnbio.mcti.gov.br/
Office of the Gene Technology Regulator	http://www.ogtr.gov.au/
US Department of Agriculture	https://www.aphis.usda.gov/aphis/ourfocus/biotechnology
US Environmental Protection Agency	https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated
US Food and Drug Administration	https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon

^aAlso searches Environment and Climate Change Canada (<https://www.canada.ca/en/environment-climate-change.html>) and Canadian Food Inspection Agency (<http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790>).

^bReports that reflect individual reviewer opinions are excluded from evaluation since they are considered when developing the official final opinion of the agency.

Note: Regulatory agencies in Mexico (Intersecretarial Commission on Biosafety of GMOs) and Argentina (National Advisory Commission on Agriculture Biotechnology) do not post the relevant document types on their respective agency websites, and were not searched.

3.2.2 Web-based Search Engines and Databases

General search engines such as GOOGLE Scholar and web-based databases known to contain information specifically on effects of GMOs were not searched. The search of the databases and key organization websites is considered to provide an adequately comprehensive search of literature.

3.2.3 Manual Searches

3.2.3.1 Checking Reference Lists

Reviews of methodological publications, guidelines, and scientific opinions from regulatory agencies were retrieved using the search strategy and no documents were classified as relevant to the review question.

3.2.3.2 Hand Searching

Hand searching was not conducted. The search of the databases and key organization websites is considered to provide an adequately comprehensive search of literature.

3.2.3.3 Citation Searching

Citation searching was not conducted. The search of the databases and key organization websites is considered to provide an adequately comprehensive search of literature.

3.3 Constructing the Search Strategy

3.3.1 Database Searching

3.3.1.1 Approaches to Develop Searches

The “lumping” approach was utilized. A single search strategy was developed to capture all categories of information of interest in one search. This strategy was used because previous experience indicated that a manageable number of studies was returned.

3.3.1.2 Search Terms

Identifying search terms

Search terms were identified by:

- Assessing subject indexing terms of relevant publications recorded in those electronic bibliographic databases that use thesauri
 - All publications returned from literature search reports that aim to comply with the EFSA explanatory note and deemed relevant to the review questions were examined to determine the subject indexing terms associated with it.
- Seeking suggestions from experts and stakeholders
 - The search terms were developed using a multi-disciplinary team (i.e., risk assessors, information specialists, regulatory affairs managers).

Free-text terms and subject indexing terms

The searches with the Ovid platform utilized the keyword search in the advanced search window. The keyword search uses a default set of fields designated .mp, which vary by database. Therefore, Ovid uses the term “keyword” to indicate that it is executing a multi-field search. In each database the specific fields searched are a different combination of free-text and controlled vocabulary fields, with Ovid switching automatically to the appropriate fields when a database is selected.¹

In Ovid, the fields used in the .mp keyword search are word searchable, therefore any search only has to find a single word in a controlled vocabulary field that contains phrases to return as search results all references indexed to that subject heading. Thus, a search strategy which includes “genetic*” will return the following (highlighted below):

- **Genetically modified** foods or **genetic engineering** in the Subject Headings field in Agricola,
- **Zea mays: species, maize, common, genetically modified, strain-Bt10 [Gramineae]** in the Organism field in BIOSIS Previews,
- **Genetically engineered organisms** in the Subject Headings field in CAB Abstracts,
- **Plants, Genetically Modified / ge [Genetics]** or **Genetic Engineering** in MeSH Subject Headings in Medline

¹In Agricola the .mp fields are: free-text—abstract; geographic area; identifier; meeting information; map information; note; original title; personal name as subject; title—and controlled vocabulary—category code; subject heading.

In BIOSIS Previews the .mp fields are: free-text—abstract; book title; gene name; miscellaneous descriptors; methods & equipment; original language book title; title—and controlled vocabulary—biosystematic codes; chemicals & biochemicals; concept codes; diseases; geopolitical locations; major concepts; organisms; parts, structure & systems of organisms; sequence data; super taxa; taxa notes; time.

In CAB Abstracts the .mp fields are: free-text—abstract; identifiers; original title; title—and controlled vocabulary—broad terms; geographic location; organism descriptors; subject headings.

In Medline the .mp fields are: free-text—abstract; keyword heading word; original title; synonyms; title; unique identifier—and controlled vocabulary—floating sub-heading word; name of substance word; organism supplementary concept word; protocol supplementary concept word; rare disease supplementary concept word; subject heading word.

Subsequent combining of terms, (**genetic* AND (modif* OR engineer*)**) (in bold), yields all references with these headings to be in the final results for that search set. Therefore, it was not necessary to search each exact controlled phrase in order to return all references for each of the specific headings.

Appendix A provides 1) the search history (including the full strategy used and fields searched as run in the database) and the number of publications identified (line by line) for each bibliographic database prior to de-duplication, and 2) the subject indexing used by each database as shown within the brackets after each search term.

3.3.1.3 Free-text Searching Functions

The search terms were selected to incorporate a wide variety of synonymous and related terms. Truncation and wildcards were used where appropriate to capture different conventions in spelling and variation in the endings of terms.

3.3.1.4 Search Strings

Search strings were combined with Boolean and proximity operators appropriate for the scope of the review.

3.3.1.5 Key Elements of Review Questions to Use for Best Results

A very large number of publications were returned using only the four key elements of Event, Intended trait, newly expressed protein(s), and Trade Name. To prevent a very large number of publications from being returned while still achieving sensitivity, additional key elements were added to the search strategy. Sensitivity was defined as the ability to return the previously deemed relevant articles with the new search string. ‘A very large number’ is not defined in the Explanatory Note (EFSA 2019); however, the number returned with other search strategies (e.g., (Event OR Intended Trait OR Newly Expressed Protein(s) OR Trade Name) or (Event OR Trade name OR ((Intended Trait OR Newly Expressed Protein(s)) AND (Plant Species or GMO)))) was so large that it could not be de-duplicated by the search platform.

Therefore, the search structure included the following search concepts/key elements; Event, Trade Name, Newly Expressed Protein(s), or Intended Trait in the same publications as terms describing plant species and/or GMO general terms. The search strategy employed was:

- Event OR Trade name OR (Newly expressed proteins AND (GMO general OR plant species)) OR (Intended trait - insecticidal AND (GMO general AND Plant species)) OR GMO general x intended traits

The search strategy employed captured literature relevant to 5307 maize (Table 5). The same search string was used in all databases. Since the Ovid search platform simultaneously searches free-text and subject headings there is no disadvantage to using all search terms in all databases. For example, if ‘Genetically engineered organisms’ is a subject heading in CAB Abstracts but not in Agricola including this term in the search of the Agricola databases still allows for free-text searching of this term.

TABLE 5 Search String Strategy

Set	Field	Search string	Concepts/Key elements
1	Topic	5307 OR *SYN-25377-1	Single Event 5307
2	Topic	Duracade*	Trade name for 5307
3		#1 OR #2	Event OR Trade name
4	Topic	"eCry3.1AB" OR "e-Cry3.1AB" OR eCry3 1AB OR e-Cry3 1AB OR "eCry3.1 AB" OR "e-Cry3.1" AB OR eCry3 1 AB OR e-Cry3 1 AB OR "eCry 3.1AB" OR "e-Cry 3.1AB" OR eCry 3 1AB OR e-Cry 3 1AB OR "eCry 3.1" AB OR "e-Cry 3.1 AB" OR eCry 3 1 AB OR e-Cry 3 1 AB	Newly expressed protein in 5307 (Insecticidal)
5	Topic	Phosphomannoisomerase OR Mannose 6-phosphate isomerase OR Phosphomannoseisomerase OR Phosphomannose isomerase OR 9023-88-5 OR AAA24109 OR "EC 5.3.1.8" OR "E.C. 5.3.1.8"	Newly expressed protein in 5307
6		#4 OR #5	Newly expressed proteins
7	Topic	((Insect OR insects OR coleoptera* OR pest OR pests OR rootworm* OR root worm* OR Diabrotica OR D virgifera OR D barberi OR MCR OR MCRW OR NCRW OR WCRW OR WCR) ADJ2 (toleran* OR resistan* OR protect* OR control*)) OR Bacillus thuringiensis OR B thuringiensis	Intended traits - insecticidal
8	Topic	GMO* OR LMO* OR GM OR GE OR transgen* OR ((genetic* OR living OR biotech*) ADJ3 (modif* OR transform* OR manipul* OR improv* OR engineer* OR deriv*))	GMO general
9	Topic	Maize* OR corn* OR Zea mays OR Z mays	Plant species
10	Topic	((Bt OR Bacillus thuringiensis OR B thuringiensis) ADJ5 (maize* OR corn* OR mays)) OR Btmaize* OR Btcorn*	GMO general x intended traits
11		#6 AND (#8 OR #9)	Newly expressed proteins AND (GMO general OR plant species)
12		#7 AND (#8 AND #9)	Intended trait - insecticidal AND (GMO general AND Plant species)
13		#3 OR #11 OR #12 OR #10	Event OR Trade name OR (Newly expressed proteins AND (GMO general OR plant species)) OR (Intended trait - insecticidal AND (GMO general AND Plant species)) OR GMO general x intended traits

3.3.1.6 Use of Multiple Languages

The search terms used were in the English language or utilized the Roman alphabet. For the event name and trade names that do not use words in the English language, translations are unlikely to exist.

3.3.1.7 Time Period

Due to the use of multiple (i.e., 4) multi-disciplinary databases and redundancy in coverage, it is unlikely that late edition of a publication would be missed. Therefore, the returned literature was limited to that which was published between June 1, 2020 and the date of the last database update prior to the search. Searches were executed on or after July 1, 2021.

Internet websites were searched, and the results were manually excluded if the records were dated outside the period of June 1, 2020 and the date the search was conducted. Searches were executed on or after July 1, 2021. If a date was undetermined on an internet website or result record, the result(s) was reviewed using the criteria in Tables 2 and 3.

3.3.1.8 Internet Searching of Regulatory Agency Webpages

The search terms selected are the event and protein names from the International Service for the Acquisition of Agri-Biotech Applications (ISAAA) (Table 6). The descriptions and information for the top 50 hits or 10% of the total hits (whichever is greater) for each search term/web page was collected.

Internet websites were searched and the results were manually excluded if the records were dated outside the period of June 1, 2020 until July 1, 2021. If a date was undetermined on an internet website or result record, the results were reviewed using the criteria in Tables 2 and 3.

TABLE 6 Nomenclature For the Single Event and Newly Expressed Proteins from the ISAAA Database for use in Searching Regulatory Agency Web Pages

Event	Search term	Concepts/Key elements
5307	5307	Event name
5307	eCry3.1Ab	Newly expressed protein
5307	Phosphomannose isomerase	Newly expressed protein

3.4 Reference Publications

The search strategy is the same as the one that was previously validated with reference publications ().

4.0 SUMMARIZING AND REPORTING THE DATA

4.1 Selecting Publications

4.1.1 Database Records

The process for selecting relevant publications is conducted in two stages. The first stage, Stage 1 requires a preliminary assessment of titles and abstracts. Those records that are clearly not relevant from reviewing the title only are excluded from further review. For those records that appear relevant or have unclear relevance, the abstracts are reviewed. A kappa test is performed after the Stage 1 review and before any discussion of abstracts over which there was

disagreement by the reviewers. Those records that are clearly not relevant from reviewing the abstract are excluded from further review, while records that are relevant or have unclear relevance are reviewed in Stage 2.

Full-length articles are reviewed in Stage 2. An explanation of exclusion is provided for any full-length records that are deemed not relevant in Stage 2. Any relevant records identified in Stage 2 are subjected to reliability assessment and evaluation of the implications of the record on the food and feed, or environmental risk assessments.

Two independent reviewers examined the records for inclusion/exclusion for each eligible information/data requirement at all stages of review. During the preliminary assessment process (Stage 1), only records that were deemed clearly not relevant by all reviewers were excluded from further review. This conservative approach ensured that all potentially relevant records were evaluated until they were deemed to be either relevant or clearly not relevant in Stage 2. Following the Stage 1 reviews, reviewers scored the records as either 1) relevant or unclear relevance, 2) clearly not relevant.

4.1.2 Internet Records from Key Organizations

The records returned from searching the websites of key organizations were considered relevant if they were risk assessments, scientific opinions/reports concerning the commercial release of GMO being examined or documents on the biology of the crop of interest sponsored by the key organization. The regulatory agency webpages that were searched do not post primary data; therefore, all other document types were not considered relevant. The eligibility/inclusion criteria do not include risk assessments/dossiers submitted to regulatory authorities, only risk assessments performed and reported by relevant key organizations. Documents must have been authored by the key organizations and not the applicants to qualify as relevant.

The format of records returned from regulatory agency websites does not often meet those (i.e., title and abstract is not often provided) required to assess them using the 2-stage process followed for the database records. Those websites at which the records are published in English were assessed by two independent reviewers. Due to their format, internet full-text documents were assessed to determine their relevance in stage 2 only. For those websites where the records are not published in English, the results were translated into English and two independent reviewers determined if it met the criteria for inclusion.

The rationale for exclusion was provided only when records were classified as one of the relevant document types and were authored by the agency and excluded based on other eligibility criteria.

The following process applied to the types of internet agency documents described below. We defined a unique internet record, for the purpose of reporting the statistics, as a unique URL. Documents clearly labeled as draft or with a line for a signature that is blank were not reviewed and were classified as not relevant. If the URLs for two documents were identical except for file format (e.g., pdf versus .doc or .docx), one of the documents was considered a duplicate document and it was excluded from statistical accounting. For the group of relevant

records, it was confirmed that there were no duplicate records in that group by visual examination.

4.2 Results of the Publication Selection Process

For electronic bibliographic databases, the date on which the search was conducted, the date of the most recent update of the database, the service provider used, date span of the search, any limits applied to the search (e.g., study types, dates, languages) and the total number of records retrieved across all databases was recorded (Table 7). The records were de-duplicated after combining records retrieved from all the databases. Additionally, the line-by-line strategy with the number of publications identified per line was presented in the final report. See Appendix A.

For records from websites, the following were recorded (if available): the website name and service publisher used, justification for choosing the source, the URL, the date on which the search was conducted, the date of the most recent website update at the time it was searched, the date span of the search, the search terms used, any limits to the search, and the number of relevant records retrieved (Table 8). The results of the selection process from both database and internet searches are recorded in Table 9.

Of the 220 records reviewed from the databases at Stage 1, both the reviewers agreed to exclude 219 records. This yielded a kappa test score of 0. Because of the format of documents retrieved from internet searching of key organizations (i.e., title and abstract is not often provided) the kappa test was conducted only on the output of the database search. For the remaining 1 record reviewed from the databases at Stage 2, both the reviewers agreed on the record to be relevant (Table 10) and no record was excluded (Table 11). The information obtained from these records does not change the risk assessment for 5307 maize.

Of the 77 records reviewed from the internet search at Stage 2, both the reviewers agreed to exclude all of the 77 records (Table 14). No internet records were found to be relevant (Table 13).

4.3 Relevant Publications

There was 1 relevant full-text document retrieved from the database search. A list of the full bibliographic references for all relevant publications (if any), ordered by category of information/data requirement is recorded in Tables 10 and 13.

4.4 Excluded Publications After Detailed Assessment of Full-Text Documents

A list of references for all excluded studies (if any) retrieved from database and internet searching after detailed assessment of full-text documents for relevance (i.e. stage 2), with justification for their exclusion, is recorded in Tables 11 and 14.

4.5 Unobtainable Publications

No publications were considered unobtainable.

4.6 Unclear Publications

No publications were considered unclear.

4.7 Full-Text Documents

Full text documents for all relevant publications were compiled using a reference management software (.RIS format) and accompany this final report.

4.8 Implications of Relevant Publications on Risk Assessment

The implications of the relevant publications on the risk assessment was assessed by considering whether the record presents new hazards, modified exposure pathways or new scientific uncertainties.

The information obtained from the relevant records does not change the risk assessment for 5307 maize. Therefore, the literature search results, and review support the existing safety assessment of the 5307 maize.

The record reliability and its implication on the risk assessment was recorded in Tables 12 and 15.

TABLE 7 Electronic Bibliographic Database Search Results

Database	Search Date dd/mm/yyyy	Service provider	Date span of the search dd/mm/yyyy^a	Any limits applied to the search	Number of records retrieved^b
Agricola	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	64
BIOSIS Previews	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	223
CAB Abstracts	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	135
Medline	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	172
Total					594

^aOvid only allows results to be limited by year. The frequency of database update varies. Ovid has provided us with the following update information: Agricola updated monthly on the 1st of the month, BIOSIS Previews updated weekly on Mondays, CAB Abstracts updated weekly on Mondays and Medline updated daily.

^b The results were de-duplicated after combining records retrieved from all the databases.

TABLE 8 Regulatory Agency Webpage Search Details

Regulatory agency name	URL	Date of search dd/mm/yyyy	Date of most recent website update dd/mm/yyyy	Date span of search ^a	Total number of records retrieved after removing duplicates	Number of relevant records
Health Canada ^b	https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html	21/07/2021	21/04/2021	No limitations	24	0
Ministry of Agriculture, Forestry and Fisheries	http://www.maff.go.jp/e/	07/06/2021 07/07/2021	NA	No limitations	39	0
National Technical Commission on Biosafety ^c	http://ctnbio.mcti.gov.br/	01/07/2021	NA	No limitations	1	0
Office of the Gene Technology Regulator	http://www.ogtr.gov.au/	16/07/2021	16/07/2021	No limitations	0	0
US Environmental Protection Agency	https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated	20/07/2021	14/07/2021	No limitations	0	0
Genetic Engineering Approval Committee	http://moef.gov.in/	16/07/2021	NA	No limitations	0	0
Food Standards Australia New Zealand	http://www.foodstandards.gov.au/consumer/gmfood/applications/Pages/default.aspx	23/07/2021	NA	No limitations	7	0
US Food and Drug Administration	https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon	21/07/2021	16/03/2021	No limitations	0	0
US Department of Agriculture	https://www.aphis.usda.gov/aphis/ourfocus/biotechnology	20/07/2021	NA	No limitations	6	0

^aRecords published prior to June 1, 2020 were manually excluded (if any).

^b Searching these two websites leads to the same documents as the document results from the Health Canada website Environment and Climate Change Canada (<https://www.canada.ca/en/environment-climate-change.html>) and Canadian Food Inspection Agency (<http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790>).

^cPartial reports are excluded from review and statistics since there is no new information contained in these reports and they are not the official final opinion of the agency.

NA=Not Applicable.

TABLE 9 Results of the Publication Selection Process, for Each Review Question and or Group of Information/data Requirements Searched

Review question and/or category of information/data requirement(s) captured in the search	Subcategories	Number of publications
Publications identified after all ^a searches of the scientific literature (excluding duplicates ^b)	Databases	220
	Internet	77
	Manual	0
	Total	297
Publications excluded from the search results after screening of title and abstracts (stage 1)	Databases	219
	Internet ^c	NA
	Manual	0
	Total	219
Publications screened using full-text (stage 2)	Databases	1
	Internet	77
	Manual	0
	Total	78
Publications excluded after full-text screening	Databases	0
	Internet	77
	Manual	0
	Total	77
Unobtainable / Unclear publications	Unobtainable	0
	Unclear	0
	Total	0
Publications considered relevant	Databases	1
	Internet	0
	References	0
	Total	1

^a Both from electronic bibliographic databases and other sources of scientific literature.

^b A total of 594 publications were identified for the database search, of them 374 publications were duplicates and were removed.

^c Internet results are not screened at stage 1 because they have no title or abstract.

NA=Not Applicable.

TABLE 10 **Report of all Relevant Publications Retrieved After Detailed Assessment of Full-text Database Documents for Relevance**

List of bibliographic references for all relevant publications, classified by category of information/data requirements			
Category of information/data requirement(s)	Study (Author(s) and year)	Title	Source
Allergenicity assessment of the newly expressed protein and the GM food/feed, and adjuvanticity	Herman <i>et. al.</i> 2021	History of safe exposure and bioinformatic assessment of phosphomannose-isomerase (PMI) for allergenic risk	Transgenic Research

TABLE 11 **Report of all the Publications Excluded from the Risk Assessment After Detailed Assessment of Full-text Database Documents**

List of bibliographic references for all publications excluded from the risk assessment, classified by authors			
Study author(s) and year	Title	Source	Reason(s) for exclusion based on eligibility/inclusion criteria table
No publications in this category			

TABLE 12 Report of the Reliability and Implications for the Risk Assessment of all Relevant Publications Retrieved after Detailed Assessment of Full-text Database Documents

List of bibliographic references for all relevant publications, classified by category of information/data requirements			
Category of information/data requirement(s)	Study (Author(s) and year)	Summary of reliability appraisal	Implications for the risk assessment
Allergenicity assessment of the newly expressed protein and the GM food/feed, and adjuvanticity	Herman <i>et. al.</i> 2021	Not assignable because this document is an assessment and not an original study	This document is a risk assessment. Risk assessment describes bioinformatics analyses identified an eight-amino acid contiguous match between PMI and a frog parvalbumin allergen (CAC83047.1). Short amino acid matches have been shown to be a poor predictor of allergen cross-reactivity. The match was shown to be of negligible risk of causing cross-reactivity with known allergens and confirmed past results for the PMI sequence. Also, PMI has been expressed in commercialized genetically engineered crops since 2010 with no known reports of allergy. Therefore, the information does not change the conclusion of the risk assessment of 5307 maize.

TABLE 13 Report of all Relevant Publications Retrieved After Detailed Assessment of Full-text Internet Documents for Relevance

List of references for all relevant publications, classified by category of information/data requirements			
Category of information/data requirement(s)	Study (Author(s) and year)	Title	Source
No publications in this category			

TABLE 14 Report of all the Publications Excluded from the Risk Assessment After Detailed Assessment of Full-text Internet Documents

List of references for publications excluded from the risk assessment, classified by authors			
Study (Author(s) and year)	Title	Source	Reason(s) for exclusion based on eligibility/inclusion criteria table
Food Standards Australia New Zealand (2020)	A1202 CFS	https://www.foodstandards.gov.au/code/applications/Documents/A1202%20CFS.pdf	Information/data requirements
Food Standards Australia New Zealand (2020)	A1202 SD1	https://www.foodstandards.gov.au/code/applications/Documents/A1202%20SD1.pdf	Information/data requirements
Food Standards Australia New Zealand (2021)	A1202_Approval Report post Board	https://www.foodstandards.gov.au/code/changes/circulars/Documents/A1202_Approval%20Report%20post%20Board.pdf	Information/data requirements
Food Standards Australia New Zealand (2021)	Applications and current status	https://www.foodstandards.gov.au/consumer/gmfood/applications	Intervention/exposure
Food Standards Australia New Zealand (n.d.)	Comparison of CFS1 to CFS2 Schedules	https://www.foodstandards.gov.au/code/proposals/Documents/Comparison%20of%20CFS1%20to%20CFS2%20Schedules.pdf	Intervention/exposure
Food Standards Australia New Zealand (n.d.)	P1025_CFS_Attach_A2_Schedules	https://www.foodstandards.gov.au/code/proposals/Documents/P1025_CFS_Attach_A2_Schedules.pdf	Intervention/exposure
Food Standards Australia New Zealand (n.d.)	Release 1 - Food nutrient database	https://www.foodstandards.gov.au/science/monitoringnutrients/afcd/Documents/Release%201%20-%20Food%20nutrient%20database.xlsx	Intervention/exposure
Health Canada (2020)	Decision Documents – Determination of Environmental and Livestock Feed Safety - Canadian Food Inspection Agency	https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/decision-documents/eng/1303704378026/1303704484236	Date out of range
Health Canada (2020)	Browse Organization	http://geds.gc.ca/en/GEDS?dn=ou%3DGCPC-CPGC%2C%3DRGPB-DGRGP%2COU%3DPSPC-SPAC%2Co%3Dgc%2Cc%3Dca&pgid=014	Information/data requirements
Health Canada (2020)	Browse Organization	http://geds.gc.ca/en/GEDS?dn=ou%3DHRD-DGRH%2C%3DCORS-	Information/data requirements

		GSG%2Cou%3DTC-TC%2Co%3Dgc%2Cc%3Dca&pgid=014	
Health Canada (2020)	Person Information	http://geds.gc.ca/en/GEDS?dn=cn%3DAvshalo%2C%2C+Maya%2C%3DDSMG-DSMG%2Co%3DGAC-AMC%2Co%3Dgc%2Cc%3Dca&pgid=015	Information/data requirements
Health Canada (2020)	Hardware and Abrasives - Buyandsell.gc.ca	https://buyandsell.gc.ca/procurement-data/goods-and-services-identification-number/gsin/53	Information/data requirements
Health Canada (2020)	Hardware and Abrasives - Buyandsell.gc.ca	https://buyandsell.gc.ca/procurement-data/goods-and-services-identification-number/gsin/53?order=title_en&sort=desc	Information/data requirements
Health Canada (2020)	Studs - Buyandsell.gc.ca	https://buyandsell.gc.ca/procurement-data/goods-and-services-identification-number/gsin/5307?order=code_label&sort=asc	Information/data requirements
Health Canada (2020)	Studs - Buyandsell.gc.ca	https://buyandsell.gc.ca/procurement-data/goods-and-services-identification-number/gsin/5307?order=title_en&sort=asc	Information/data requirements
Health Canada (2020)	Biotechnology notices of submission - Canadian Food Inspection Agency	https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790	Information/data requirements
Health Canada (2021)	Analysis	https://www150.statcan.gc.ca/n1/en/type/analysis	Intervention/exposure
Health Canada (2021)	Browse GSIN Codes - Buyandsell.gc.ca	https://buyandsell.gc.ca/procurement-data/goods-and-services-identification-number/gsin?page=13	Information/data requirements
Health Canada (2021)	Canadian Food Inspection Agency - Balvividalav	https://inspection.canada.ca/english/plaveg/pbrpov/croreport/im/app00006174e.shtml	Intervention/exposure
Health Canada (2021)	Collection Search (Beta) - Library and Archives Canada	http://www.bac-lac.gc.ca/eng/collectionsearch/Pages/collectionsearch.aspx?DataSource=Library%7CLacCat&DateBucket=1540-1549&LangAuth=heb&SearchInText_1=29-1&SearchIn_1=findingAidNumber&enviro=prod&lang=eng&num=10&start=0	Information/data requirements

Health Canada (2021)	Collections and Fonds – 105575 - Library and Archives Canada	http://www.bac-lac.gc.ca/eng/CollectionSearch/Pages/record.aspx?IdNumber=105575&app=fonandcol	Date out of range
Health Canada (2021)	Collections and Fonds – 195029 - Library and Archives Canada	http://www.bac-lac.gc.ca/eng/CollectionSearch/Pages/record.aspx?IdNumber=195029&app=FonAndCol	Date out of range
Health Canada (2021)	Completed safety assessments of novel foods including genetically modified (GM) foods	https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html	Reporting format
Health Canada (2021)	Data	https://www150.statcan.gc.ca/n1/en/type/data	Intervention/exposure
Health Canada (2021)	Geography - Find information by region or area	https://www150.statcan.gc.ca/n1/en/geo?geotxt=Canada%20%5BCountry%5D&geocode=A000011124	Intervention/exposure
Health Canada (2021)	List of Interested Suppliers for B-8 Gym Renovations Dorchester (EC016-161368/A) - Buyandsell.gc.ca	https://buyandsell.gc.ca/procurement-data/tender-notice/PW-PWA-104-5307/list-of-interested-suppliers	Information/data requirements
Health Canada (2021)	National Library Collections – 43731234 - Library and Archives Canada	http://www.bac-lac.gc.ca/eng/CollectionSearch/Pages/record.aspx?IdNumber=43731234&app=lacat	Date out of range
Health Canada (2021)	Notice to industry: Update on the pilot project to allow veterinary health products in livestock feed - Canadian Food Inspection Agency	https://inspection.canada.ca/animal-health/livestock-feeds/feed-industry-notices/notice-to-industry-2021-03-02/eng/1614370714334/1614370714709	Intervention/exposure
Health Canada (2021)	Regulating the Environmental Release of Stacked Plant Products in Canada - Canadian Food Inspection Agency	https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/stacked-traits/eng/1337653008661/1337653513037	Information/data requirements
Health Canada (2021)	The biology of Zea mays L. (maize) - Canadian Food Inspection Agency	https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/applicants/directive-94-08/biology-documents/zea-mays-l-maize-/eng/1330985739405/1330985818367	Reporting format
Health Canada (2021)	William Van Every - The Canadian Virtual War Memorial - Veterans Affairs Canada	https://www.veterans.gc.ca/eng/remembrance/memorials/canadian-virtual-war-memorial/detail/425886	Intervention/exposure

Ministry of Agriculture, Forestry and Fisheries	2008-Reiwa 2nd year production	https://www.maff.go.jp/j/seisan/jyukyu/komeseisaku/attach/pdf/index-98.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Changes in planting and production status of new demand rice, etc. by use (2008 production-Reiwa ...	https://www.maff.go.jp/j/seisan/jyukyu/komeseisaku/attach/pdf/index-116.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	2017 New Demand Rice Initiative Plan Certification Status (PDF: 71KB)	https://www.maff.go.jp/j/seisan/jyukyu/komeseisaku/attach/pdf/index-25.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF 2021)	2-2 Divided forestry [PDF: 128KB]	https://www.rinya.maff.go.jp/j/kokuyu_rinya/tokei/2021/pdf_excel/2-2-72.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF 2021)	By crop, order of approval	https://www.maff.go.jp/j/syuan/nouan/carta/to rikumi/attach/pdf/index-254.pdf	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF 2021)	List of selection status of production area varieties and brands by registered inspection agency (usually dakka wheat)	http://www.maff.go.jp/kyusyu/syokuryou/s_sh ohi/pdf/futuuhadakamugisantihinsyumeigara21 0902.pdf	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	(4) Number of agricultural workers by age (sales farmers) A Men and women B Men C Women	http://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/27-28sougou/attach/pdf/27-28sougou-88.pdf	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	** 10 * 2015 * Akira ***** Reference 10 ABCDEFGHIJK 1 2 2 Agriculture ...	http://www.maff.go.jp/hokuriku/stat/data/nenp ou26_27/other/cen10-3_n.xls	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	?-2 (6) (7) ABCDEFGHIJKLMNQRSTU 1 2 Agricultural management ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/30-r1sougou/attach/xls/30-r1sougou-73.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	?-2 (16-1) ABCDEFGHIJKLMNQRSTU VWX 1 2 ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/r1-r2sougou/attach/xls/r1-r2sougou-81.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	?-5 (4) ABCDEFGHIJKLMNQRSTU VWX 1 2 3 (4 ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/30-r1sougou/attach/xls/30-r1sougou-58.xls	Intervention/exposure

Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	?-6-4 ABCDEFGHJKLMNOPQRSTU VWX 1 2 3 (4 ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/29-30sougou/attach/xls/29-30sougou-65.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	1-4 Forest type, volume by needle wide	https://www.rinya.maff.go.jp/tohoku/kikaku/attach/pdf/30zigyoutokei-45.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	3 Agricultural product production cost statistics (continued)	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/r1-r2sougou/attach/pdf/r1-r2sougou-62.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	170 ABCDEFGHIJK 1 170 Part 11 6th Industry 2 3 6th Industry 4 5 (1 ...	https://www.maff.go.jp/chushi/kohoshi/kankoubutu/38ehime/attach/xls/28_nenpo-66.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	278 ***** Fortune-telling 278 ABCDEFGHJIJ 1 2 7 Fishery management (2015 individual ...	https://www.maff.go.jp/hokuriku/stat/data/nenpou27_28/attach/xls/fukui-93.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	cry1Ab, cry1F, cry1A.105, cry2Ab2, cry1Ac, vip3A, cry3Bb1, cry3Aa2 ...	http://www.maff.go.jp/j/syouan/nouan/carta/c_data/pdf/gutairei.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document 5-2	http://www.maff.go.jp/j/council/sizai/siryou/22_21/pdf/data5-2.pdf	Dae out of range
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document I-35 ABCDEFGHJKLMNO 1 Number of forest fires and ...	https://www.rinya.maff.go.jp/j/kikaku/hakusyo/r1hakusyo_h/all/other/s1_35.xlsx	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document II-23 ABCDEFGHJKLMN 1 Number of forest fires and ...	http://www.rinya.maff.go.jp/j/kikaku/hakusyo/27hakusyo_h/all/other/s2_23.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document II-28 ABCDEFGHJKLMN 1 Number of forest fires and ...	http://www.rinya.maff.go.jp/j/kikaku/hakusyo/26hakusyo_h/all/other/s2_28.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document II-28 ABCDEFGHJKLMNO 1 Number of forest fires and ...	https://www.rinya.maff.go.jp/j/kikaku/hakusyo/29hakusyo_h/all/other/s2_28.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document II-30 ABCDEF 1 Certified forest area and its ratio in major countries 2 3 ...	http://www.rinya.maff.go.jp/j/kikaku/hakusyo/27hakusyo_h/all/other/s2_30.xls	Intervention/exposure

Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Fig. 3-5-9 ABCDEF 1 P193 2 Fig. 3-5-9 3 Wheat production, consumption destination ...	https://www.maff.go.jp/j/wpaper/w_maff/h24_h/trend/part1/other/P193_d3_5_09.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Fishery Management ABCDEFGHIJKLMNQRSTU VWXYZ AA 1 ...	https://www.maff.go.jp/chushi/kohoshi/kankoubutu/24nenpou/32matue/attach/xls/pdf-69.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	List of selection status of production area varieties and brands by registered inspection agency (Kumamoto Prefecture) (Paddy rice uru ...	http://www.maff.go.jp/kyusyu/syokuryou/s_shohi/pdf/kumamotoken.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	List of selection status of production area varieties and brands by registered inspection agency (usually dakka wheat)	https://www.maff.go.jp/kyusyu/syokuryou/s_shohi/attach/pdf/tourokukensakikanbetusantihin_syumeigaraitiranhyou-29.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	List of selection status of production area varieties and brands by registered inspection agency (ordinary wheat)	http://www.maff.go.jp/kyusyu/syokuryou/s_shohi/pdf/senntakumeigarakomugi.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	n548_549 ABCDEFGHIJKLMNQRSTU VWXYZ AA ...	https://www.maff.go.jp/e/data/stat/91th/attach/xls/index-96.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	n564_565 ABCDEFGHIJKLMNQRSTU VWXYZ AA ...	https://www.maff.go.jp/e/data/stat/92nd/attach/xls/index-68.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Outline of Winners of "Thinning / Thinned Wood Utilization Contest" Part 1 Gate 2 Award 3 Winner ...	https://www.rinya.maff.go.jp/puresu/h13-10gatu/sonota/kanbatu/j2.htm	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	PDF: 154KB	https://www.rinya.maff.go.jp/j/kanbatu/kanbatu/attach/pdf/H12-20kanbatsucontest-10.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Population 1 ABCDEFGHIJK 1 2 3 2 Population 4 Units Number of households Population :: Households ...	https://www.maff.go.jp/kyusyu/toukei/hensyu/attach/xls/64nenpou-15.xlsx	Intervention/exposure

Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	R2 ABCD 1 [Reiwa 2nd year, new demand, rice, etc., by use] 2 3 Agriculture and forestry ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/database/nougyou/attach/xls/nougyou-464.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Reiwa 3rd year location map Tsukimoushi Daiichi National Forest 432 Robayashi Subgroup Outside 19 Hayashi Subgroup (1 ...	https://www.rinya.maff.go.jp/tohoku/apply/publicsale/tono/attach/pdf/seisann0311_1-9.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	sou-b-2-6_7 ABCDEFGHIJKLMNOPQRSTU 1 2 Agriculture ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/28-29sougou/attach/xls/28-29sougou-23.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	sou-b-6-4 ABCDEFGHIJKLMNOPQRSTU VWX 1 2 3 ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/28-29sougou/attach/xls/28-29sougou-63.xls	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Specific examples of genetically modified plants that may eliminate the need for isolation field tests cry1Ab ...	http://www.maff.go.jp/j/syouan/nouan/carta/tetuduki/attach/pdf/index-19.pdf	Intervention/exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	V-3 (4-1) ABCDEFGHIJKL 1 3 Agricultural product production cost statistics (continued) 2 3 ...	https://www.maff.go.jp/hokkaido/toukei/kikaku/nenpou/r1-r2sougou/attach/xls/r1-r2sougou-90.xls	Intervention/exposure
National Technical Commission on Biosafety (CTNBio 2021)	Tabela de Plantas Aprovadas para Comercialização	http://ctnbio.mctic.gov.br/documents/566529/1684467/Tabela+de+Plantas+Aprovadas+para+Comercializa%C3%A7%C3%A3o/	Information/data requirements
US Department of Agriculture (USDA 2020)	USDA APHIS HRDG 4550 - Premium Pay - Section E ...	https://www.aphis.usda.gov/aphis/ourfocus/business-services/forms_publications/hr_desk_guide/hrdg_4550/4550_sec_e_sub_a	Intervention/exposure
US Department of Agriculture (USDA 2020)	USDA APHIS HRDG 4550 - Premium Pay - Section K	https://www.aphis.usda.gov/aphis/ourfocus/business-services/Forms_Publications/HR_Desk_Guide/HRDG_4550/4550_sec_k	Intervention/exposure
US Department of Agriculture (USDA 2020)	USDA APHIS HRDG 4630 - Absence and Leave - Section H ...	https://www.aphis.usda.gov/aphis/ourfocus/business-services/forms_publications/hr_desk_guide/hrdg_4630/4630_sec_h_sub_e	Intervention/exposure

US Department of Agriculture (USDA 2020)	USDA APHIS Example Weed Risk Assessments	https://www.aphis.usda.gov/aphis/ourfocus/bio/technology/biotech-rule-revision/2016-340-rule/sample_wra	Scope of GMO application
US Department of Agriculture (USDA n.d.)	USDA APHIS Home Landing Page	https://www.aphis.usda.gov/brs/data/brs-processed-move.json	Intervention/exposure
US Department of Agriculture (USDA n.d.)	USDA APHIS Home Landing Page	https://www.aphis.usda.gov/brs/data/moa-data.xlsx	Reporting format

TABLE 15 **Report of the Reliability and Implications for the Risk Assessment of all Relevant Publications Retrieved after Detailed Assessment of Full-text Internet Documents**

List of references for all relevant publications, classified by category of information/data requirements			
Category of information/data requirement(s)	Study (Author(s) and year)	Summary of reliability appraisal	Implications for the risk assessment
No publications in this category			

APPENDIX SECTION

APPENDIX A Search History and Subject Indexing

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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	"5307".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	31	Advanced	Display Results More	Contract
<input type="checkbox"/>	2	SYN-75377-1.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	3	1 or 2	31	Advanced	Display Results More	
<input type="checkbox"/>	4	Duracade*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More	
<input type="checkbox"/>	5	3 or 4	32	Advanced	Display Results More	
<input type="checkbox"/>	6	"eCry3.1AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	20	Advanced	Display Results More	
<input type="checkbox"/>	7	"e-Cry3.1AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	8	eCry3 1AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	9	e-Cry3 1AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	10	"eCry3.1 AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	11	"e-Cry3.1 AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	12	eCry3 1 AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	13	e-Cry3 1 AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	14	"eCry 3.1AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	15	"e-Cry 3.1AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	16	eCry 3 1AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	17	e-Cry 3 1AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	18	"eCry 3.1 AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	19	"e-Cry 3.1 AB".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
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<input type="checkbox"/>	21	e-Cry 3 1 AB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	22	6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21	20	Advanced	Display Results More	
<input type="checkbox"/>	23	Phosphomannoisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	Display Results More	

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<input type="checkbox"/>	24	Mannose 6-phosphate isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	42	Advanced	Display Results More	
<input type="checkbox"/>	25	Phosphomannoseisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	26	Phosphomannose isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	114	Advanced	Display Results More	
<input type="checkbox"/>	27	9023-88-5.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	28	AAA24109.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	29	"EC 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	Display Results More	
<input type="checkbox"/>	30	"E.C. 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	Display Results More	
<input type="checkbox"/>	31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30	150	Advanced	Display Results More	
<input type="checkbox"/>	32	22 or 31	170	Advanced	Display Results More	
<input type="checkbox"/>	33	Insect.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	189989	Advanced	Display Results More	
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<input type="checkbox"/>	38	rootworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1536	Advanced	Display Results More	
<input type="checkbox"/>	39	root worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	42	Advanced	Display Results More	
<input type="checkbox"/>	40	Diabrotica.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1946	Advanced	Display Results More	
<input type="checkbox"/>	41	D virgifera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	64	Advanced	Display Results More	
<input type="checkbox"/>	42	D barberi.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	57	Advanced	Display Results More	
<input type="checkbox"/>	43	MCR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1160	Advanced	Display Results More	
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<input type="checkbox"/>	46	WCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
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<input type="checkbox"/>	49	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118733	Advanced	Display Results More	
<input type="checkbox"/>	50	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	297995	Advanced	Display Results More	

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<input type="checkbox"/>	52	control*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	996464	Advanced	Display Results More	
<input type="checkbox"/>	53	49 or 50 or 51 or 52	1495326	Advanced	Display Results More	
<input type="checkbox"/>	54	((Insect or insects or coleoptera* or pest or pests or rootworm* or root worm* or Diabrotica or D virgifera or D barberi or MCR or MCRW or NCRW or WCRW or WCR) adj2 (toleran* or resistan* or protect* or control*)),mp.	119287	Advanced	Display Results More	
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<input type="checkbox"/>	57	54 or 55 or 56	126881	Advanced	Display Results More	
<input type="checkbox"/>	58	GMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1563	Advanced	Display Results More	
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<input type="checkbox"/>	65	biotech*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	47024	Advanced	Display Results More	
<input type="checkbox"/>	66	63 or 64 or 65	728772	Advanced	Display Results More	
<input type="checkbox"/>	67	modif*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	255021	Advanced	Display Results More	
<input type="checkbox"/>	68	transform*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	181673	Advanced	Display Results More	
<input type="checkbox"/>	69	manipulat*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41486	Advanced	Display Results More	
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<input type="checkbox"/>	71	engineer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	147392	Advanced	Display Results More	
<input type="checkbox"/>	72	deriv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	308361	Advanced	Display Results More	
<input type="checkbox"/>	73	67 or 68 or 69 or 70 or 71 or 72	1281876	Advanced	Display Results More	
<input type="checkbox"/>	74	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)),mp.	61871	Advanced	Display Results More	
<input type="checkbox"/>	75	58 or 59 or 60 or 61 or 62 or 74	108658	Advanced	Display Results More	
<input type="checkbox"/>	76	Maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69677	Advanced	Display Results More	
<input type="checkbox"/>	77	corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137687	Advanced	Display Results More	
<input type="checkbox"/>	78	Zea mays.mp. [mp=meeting information, title, original	52068	Advanced	Display Results More	

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	title, map information, note, abstract, heading words]					
<input type="checkbox"/>	79 Z mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	373	Advanced	Display Results	More	
<input type="checkbox"/>	80 76 or 77 or 78 or 79	178394	Advanced	Display Results	More	
<input type="checkbox"/>	81 Bt.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7040	Advanced	Display Results	More	
<input type="checkbox"/>	82 Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10817	Advanced	Display Results	More	
<input type="checkbox"/>	83 B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1712	Advanced	Display Results	More	
<input type="checkbox"/>	84 81 or 82 or 83	14440	Advanced	Display Results	More	
<input type="checkbox"/>	85 maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69677	Advanced	Display Results	More	
<input type="checkbox"/>	86 corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137687	Advanced	Display Results	More	
<input type="checkbox"/>	87 mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	52252	Advanced	Display Results	More	
<input type="checkbox"/>	88 85 or 86 or 87	178526	Advanced	Display Results	More	
<input type="checkbox"/>	89 ((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	1281	Advanced	Display Results	More	
<input type="checkbox"/>	90 Btmaize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results	More	
<input type="checkbox"/>	91 Btcorn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	92 89 or 90 or 91	1282	Advanced	Display Results	More	
<input type="checkbox"/>	93 75 or 80	280096	Advanced	Display Results	More	
<input type="checkbox"/>	94 32 and 93	87	Advanced	Display Results	More	
<input type="checkbox"/>	95 75 and 80	6956	Advanced	Display Results	More	
<input type="checkbox"/>	96 57 and 95	1569	Advanced	Display Results	More	
<input type="checkbox"/>	97 5 or 92 or 94 or 96	1963	Advanced	Display Results	More	
<input type="checkbox"/>	98 limit 97 to yr="2020 -Current"	64	Advanced	Display Results	More	

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1
3
5307
9023-88-5
aaa24109
b
thuringiensis
bacillus
biotech*
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btmaize*
coleoptera*
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duracade*
e-cry
ab
1ab
3.1
3.1ab
e-cry3
e-cry3.1
e-cry3.1ab
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5.3.1.8
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 pests
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 phosphomannose
 phosphomannoseisomerase
 protect*
 resistan*
 root
 worm*
 rootworm*
 syn-?53?7-1
 toleran*
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<input type="checkbox"/>	1	"5307".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	275	Advanced	Display Results More	Contract
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<input type="checkbox"/>	3	1 or 2	275	Advanced	Display Results More	
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<input type="checkbox"/>	5	3 or 4	275	Advanced	Display Results More	
<input type="checkbox"/>	6	"eCry3.1AB".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	38	Advanced	Display Results More	
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	title (non-english), book title (english), title, heading words]					
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<input type="checkbox"/>	22 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21	39	Advanced	Display Results More		
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	english), book title (english), title, heading words]					
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	(non-english), book title (english), title, heading words]			Display Results	More	
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<input type="checkbox"/>	72 deriv*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1581772	Advanced	Display Results	More	
<input type="checkbox"/>	73 67 or 68 or 69 or 70 or 71 or 72	5575440	Advanced	Display Results	More	
<input type="checkbox"/>	74 ((genetic* or living or biotech*) adj3 (modif* or transform* or manipul* or improv* or engineer* or deriv*).mp.	179012	Advanced	Display Results	More	
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<input type="checkbox"/>	80 76 or 77 or 78 or 79	355139	Advanced	Display Results	More	
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<input type="checkbox"/>	92 89 or 90 or 91	2242	Advanced	Display Results	More	
<input type="checkbox"/>	93 75 or 80	885312	Advanced	Display Results	More	
<input type="checkbox"/>	94 32 and 93	180	Advanced	Display Results	More	
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<input type="checkbox"/>	97 5 or 92 or 94 or 96	4785	Advanced	Display Results	More	
<input type="checkbox"/>	98 limit 97 to yr="2020 -Current"	223	Advanced	Display Results	More	

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- 3
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- 9023-88-5
- aaa24109
- b
- thuringiensis
- bacillus
- biotech*
- bt
- btcom*
- btmaize*
- coleoptera*
- control*
- com*
- d
- barberi
- virgifera
- deriv*
- diabrotica
- duracade*
- e-cry
- ab
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- 3,1
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- e-cry3
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- e-cry3.1ab
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lmo*
maize*
manipulat*
mannose
6-phosphate
isomerase
mays
mcr
mcrw
modif*
ncrw
pest
pests
phosphomannoisomerase
phosphomannose
phosphomannoseisomerase
protect*
resistan*
root
worm*
rootworm*
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<input type="checkbox"/>	21	e-Cry 3 1 AB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	22	6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21	24	Advanced	Display Results More	
<input type="checkbox"/>	23	Phosphomannoisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3	Advanced	Display Results More	
<input type="checkbox"/>	24	Mannose 6-phosphate isomerase.mp. [mp=abstract, title,	124	Advanced	Display Results More	

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	original title, broad terms, heading words, identifiers, cabicodes]					
<input type="checkbox"/>	25 Phosphomannoseisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results	More	
<input type="checkbox"/>	26 Phosphomannose isomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	152	Advanced	Display Results	More	
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<input type="checkbox"/>	28 AAA24109.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save	More	
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<input type="checkbox"/>	31 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30	232	Advanced	Display Results	More	
<input type="checkbox"/>	32 22 or 31	255	Advanced	Display Results	More	
<input type="checkbox"/>	33 Insect.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	387581	Advanced	Display Results	More	
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<input type="checkbox"/>	40 Diabrotica.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3016	Advanced	Display Results	More	
<input type="checkbox"/>	41 D virgifera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	357	Advanced	Display Results	More	
<input type="checkbox"/>	42 D barberi.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	146	Advanced	Display Results	More	
<input type="checkbox"/>	43 MCR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1373	Advanced	Display Results	More	
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<input type="checkbox"/>	47 WCR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	443	Advanced	Display Results	More	
<input type="checkbox"/>	48 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47	913846	Advanced	Display Results	More	
<input type="checkbox"/>	49 toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	242959	Advanced	Display Results	More	
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<input type="checkbox"/>	51 protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	515307	Advanced			

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	heading words, identifiers, cabicodes]			Display Results More	
<input type="checkbox"/>	52 control*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1986807	Advanced	Display Results More	
<input type="checkbox"/>	53 49 or 50 or 51 or 52	2884816	Advanced	Display Results More	
<input type="checkbox"/>	54 ((Insect or insects or coleoptera* or pest or pests or rootworm* or root worm* or Diabrotica or D virgifera or D barberi or MCR or MCRW or NCRW or WCRW or WCR) adj2 (toleran* or resistan* or protect* or control*)).mp.	187672	Advanced	Display Results More	
<input type="checkbox"/>	55 Bacillus thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20769	Advanced	Display Results More	
<input type="checkbox"/>	56 B thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5794	Advanced	Display Results More	
<input type="checkbox"/>	57 54 or 55 or 56	200131	Advanced	Display Results More	
<input type="checkbox"/>	58 GMO*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	71840	Advanced	Display Results More	
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<input type="checkbox"/>	60 GM.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20651	Advanced	Display Results More	
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<input type="checkbox"/>	63 genetic*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1016464	Advanced	Display Results More	
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<input type="checkbox"/>	67 modifi*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	387780	Advanced	Display Results More	
<input type="checkbox"/>	68 transform*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	234900	Advanced	Display Results More	
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<input type="checkbox"/>	70 improv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1046517	Advanced	Display Results More	
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<input type="checkbox"/>	72 deriv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	447233	Advanced	Display Results More	
<input type="checkbox"/>	73 67 or 68 or 69 or 70 or 71 or 72	2006400	Advanced	Display Results More	
<input type="checkbox"/>	74 ((genetic* or living or biotech*) adj3 (modifi* or transform* or manipul* or improv* or engineer* or deriv*)).mp.	150343	Advanced	Display Results More	
<input type="checkbox"/>	75 58 or 59 or 60 or 61 or 62 or 74	187651	Advanced	Display Results More	
<input type="checkbox"/>	76 Maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	283183	Advanced	Display Results More	
<input type="checkbox"/>	77 corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	345536	Advanced	Display Results More	
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heading words, identifiers, cabicodes]						
<input type="checkbox"/>	80	76 or 77 or 78 or 79	387469	Advanced	Display Results	More
<input type="checkbox"/>	81	Bt.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	14954	Advanced	Display Results	More
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<input type="checkbox"/>	83	B thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5794	Advanced	Display Results	More
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<input type="checkbox"/>	85	maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	283183	Advanced	Display Results	More
<input type="checkbox"/>	86	corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	345536	Advanced	Display Results	More
<input type="checkbox"/>	87	mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	228351	Advanced	Display Results	More
<input type="checkbox"/>	88	85 or 86 or 87	387512	Advanced	Display Results	More
<input type="checkbox"/>	89	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	2254	Advanced	Display Results	More
<input type="checkbox"/>	90	Btmaize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save	More
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<input type="checkbox"/>	92	89 or 90 or 91	2254	Advanced	Display Results	More
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<input type="checkbox"/>	96	57 and 95	2671	Advanced	Display Results	More
<input type="checkbox"/>	97	5 or 92 or 94 or 96	3722	Advanced	Display Results	More
<input type="checkbox"/>	98	limit 97 to yr="2020 -Current"	135	Advanced	Display Results	More

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1
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bacillus
biotech*
bt
btcorn*
btmaize*
coleoptera*
control*
corn*
d
barberi
virgifera
deriv*
diabrotica
duracade*
e-cry
ab
1ab
3.1
3.1ab
e-cry3
e-cry3.1
e-cry3.1ab
e.c.
5.3.1.8
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ecry3
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western corn rootworm (*Diabrotica virgifera virgifera*).

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3. **Physiological response of conventional and transgenic maize to water stress.**

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4. **Influence of transgenic maize on behavior of adult female of *Spodoptera frugiperda* (J. E. Smith) (Lepidoptera: Noctuidae).**

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5. **Comparison of ear damage caused by caterpillar pests in transgenic (Bt) maize hybrids and conventional maize hybrids.**

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transgen*
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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	"5307".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	228	Advanced	Display Results More	Contract
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<input type="checkbox"/>	3	1 or 2	228	Advanced	Display Results More	
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<input type="checkbox"/>	5	3 or 4	228	Advanced	Display Results More	
<input type="checkbox"/>	6	"eCry3.1AB".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	24	Advanced	Display Results More	
<input type="checkbox"/>	7	"e-Cry3.1AB".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save More	
<input type="checkbox"/>	8	eCry3 1AB.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save More	
<input type="checkbox"/>	9	e-Cry3 1AB.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save More	
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	supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	22 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or	24	Advanced		

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17 or 18 or 19 or 20 or 21		Display Results	More
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<input type="checkbox"/>	24 Mannose 6-phosphate isomerase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	384	Advanced Display Results More 
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<input type="checkbox"/>	28 AAA24109.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced Save More 
<input type="checkbox"/>	29 "EC 5.3.1.8".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	18	Advanced Display Results More 
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<input type="checkbox"/>	31 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30	496	Advanced Display Results More 
<input type="checkbox"/>	32 22 or 31	520	Advanced Display Results More 
<input type="checkbox"/>	33 Insect.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	131085	Advanced Display Results More 
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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	36 pest.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	34475	Advanced	Display Results	More	
<input type="checkbox"/>	37 pests.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	13648	Advanced	Display Results	More	
<input type="checkbox"/>	38 rootworm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	606	Advanced	Display Results	More	
<input type="checkbox"/>	39 root worm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	3	Advanced	Display Results	More	
<input type="checkbox"/>	40 Diabrotica.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	614	Advanced	Display Results	More	
<input type="checkbox"/>	41 D virgifera.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	26	Advanced	Display Results	More	
<input type="checkbox"/>	42 D barberi.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	24	Advanced	Display Results	More	
<input type="checkbox"/>	43 MCR.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	5080	Advanced	Display Results	More	
<input type="checkbox"/>	44 MCRW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save	More	
<input type="checkbox"/>	45 NCRW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	0	Advanced	Save	More	

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	heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	46 WCRW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4	Advanced	Display Results	More	
<input type="checkbox"/>	47 WCR.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	267	Advanced	Display Results	More	
<input type="checkbox"/>	48 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47	199966	Advanced	Display Results	More	
<input type="checkbox"/>	49 toleran*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	353108	Advanced	Display Results	More	
<input type="checkbox"/>	50 resistan*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1195961	Advanced	Display Results	More	
<input type="checkbox"/>	51 protect*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	917505	Advanced	Display Results	More	
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<input type="checkbox"/>	53 49 or 50 or 51 or 52	7344089	Advanced	Display Results	More	
<input type="checkbox"/>	54 ((Insect or insects or coleoptera* or pest or pests or rootworm* or root worm* or Diabrotica or D virgifera or D barberi or MCR or MCRW or NCRW or WCRW or WCR) adj2 (toleran* or resistan* or protect* or control*)).mp.	31696	Advanced	Display Results	More	
<input type="checkbox"/>	55 Bacillus thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9108	Advanced	Display Results	More	
<input type="checkbox"/>	56 B thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2344	Advanced	Display Results	More	
<input type="checkbox"/>	57 54 or 55 or 56	37855	Advanced	Display Results	More	
<input type="checkbox"/>	58 GMO*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	2162	Advanced	Display Results	More	

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	heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	60 GM.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	53557	Advanced	Display Results	More	
<input type="checkbox"/>	61 GE.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	20217	Advanced	Display Results	More	
<input type="checkbox"/>	62 transgen*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	227830	Advanced	Display Results	More	
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<input type="checkbox"/>	65 biotech*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	71411	Advanced	Display Results	More	
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<input type="checkbox"/>	68 transform*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	650001	Advanced	Display Results	More	
<input type="checkbox"/>	69 manipulat*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary	210543	Advanced	Display Results	More	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	74 ((genetic* or living or biotech*) adj3 (modif* or transform* or manipul* or improv* or engineer* or deriv*)).mp.	164740	Advanced	Display Results	More	
<input type="checkbox"/>	75 58 or 59 or 60 or 61 or 62 or 74	422647	Advanced	Display Results	More	
<input type="checkbox"/>	76 Maize*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	33513	Advanced	Display Results	More	
<input type="checkbox"/>	77 corn*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	222152	Advanced	Display Results	More	
<input type="checkbox"/>	78 Zea mays.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	38517	Advanced	Display Results	More	
<input type="checkbox"/>	79 Z mays.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	378	Advanced	Display Results	More	
<input type="checkbox"/>	80 76 or 77 or 78 or 79	258804	Advanced	Display Results	More	
<input type="checkbox"/>	81 Bt.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	15981	Advanced	Display Results	More	
<input type="checkbox"/>	82 Bacillus thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9108	Advanced	Display Results	More	
<input type="checkbox"/>	83 B thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	2344	Advanced	Display Results	More	

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heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

<input type="checkbox"/>	84	81 or 82 or 83	22542	Advanced	Display Results More	
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<input type="checkbox"/>	86	corn*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	222152	Advanced	Display Results More	
<input type="checkbox"/>	87	mays.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	38783	Advanced	Display Results More	
<input type="checkbox"/>	88	85 or 86 or 87	259027	Advanced	Display Results More	
<input type="checkbox"/>	89	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	841	Advanced	Display Results More	
<input type="checkbox"/>	90	Btmaize*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save More	
<input type="checkbox"/>	91	Btcorn*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save More	
<input type="checkbox"/>	92	89 or 90 or 91	841	Advanced	Display Results More	
<input type="checkbox"/>	93	75 or 80	673763	Advanced	Display Results More	
<input type="checkbox"/>	94	32 and 93	87	Advanced	Display Results More	
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