



**Review of Scientific Literature Relevant to the  
Food/Feed and Environmental Risk Assessment of  
Bt11 × MIR162 × 1507 × GA21 Maize**

**Literature Review**

**TEST GUIDELINE(S):**

Not Applicable

**AUTHOR(S):**



**COMPLETION DATE:**

October 25, 2021

**PERFORMING LABORATORY:**

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**LABORATORY PROJECT ID:**

Report Number: SSB-112-21

**SPONSOR(S):**

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## STATEMENT OF DATA CONFIDENTIALITY CLAIMS

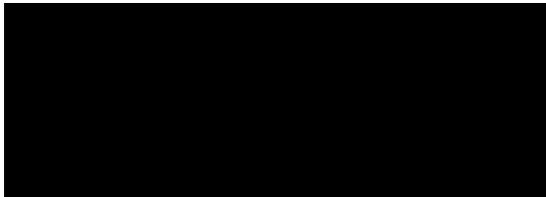
*The following statement applies to submissions to the United States Environmental Protection Agency (US EPA).*

### 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*

**Company Representative:**

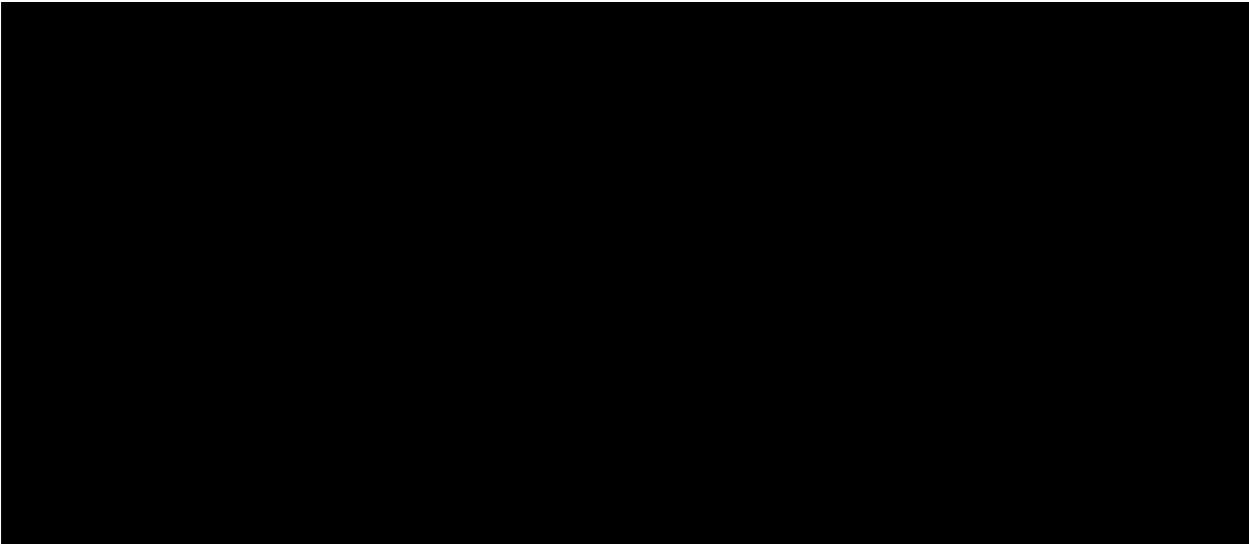


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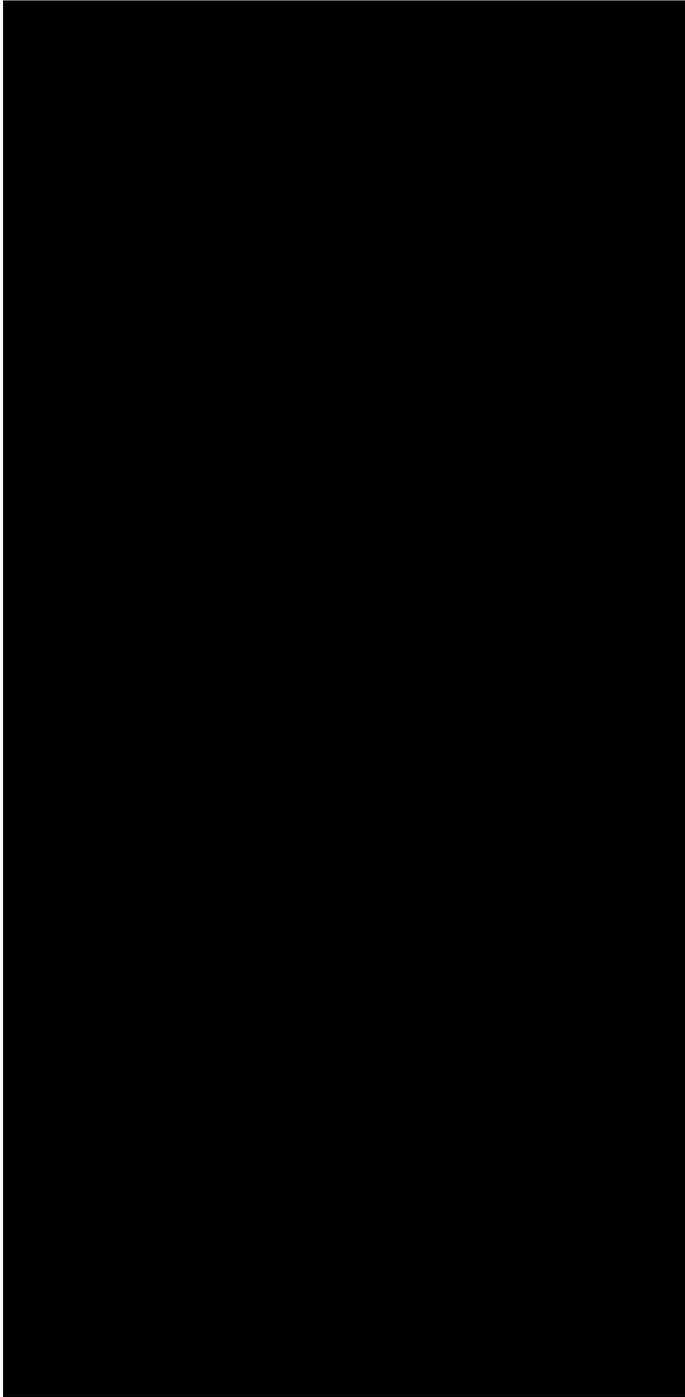
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## GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

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

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## LIST OF ACRONYMS AND ABBREVIATIONS

CAB	Commonwealth Agricultural Bureaux
EFSA	European Food Safety Authority
ERA	Environmental Risk Assessment
EPSPS	5-enolpyruvylshikimate-3-phosphate synthase
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
mEPSPS	double-mutated 5-enolpyruvylshikimate-3-phosphate synthase
NA	Not Applicable
NTO	Nontarget organism
PAT	Phosphinothricin acetyltransferase
PICO/PECO	Population, Intervention/Exposure, Comparator, Outcomes
PMEM	Post-Market Environmental Monitoring
PMI	Phosphomannose isomerase

## 1.0 EXECUTIVE SUMMARY

Syngenta has developed Bt11 x MIR162 x 1507 x GA21 maize (*Zea mays* L., corn) by combining four individual transformation events using conventional breeding.

A systematic literature search and scoping review for the Bt11 x MIR162 x 1507 x GA21 stack maize and all sub-combinations in scope 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 stacks and post their risk assessments on their websites were searched.

This literature search identified a total of 205 records from database search, of which all 205 records were excluded and no subsequent steps of reviews were carried out. Similarly, the literature search identified a total of 11 records from the internet search, of which all 11 records were excluded.

Therefore, the literature search results, and review support the existing safety assessment of the Bt11 x MIR162 x 1507 x GA21 stack maize and all sub-combinations in scope.

## 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 Bt11 x MIR162 x 1507 x GA21 stack maize and all sub-combinations in scope in the context of an annual post-market environmental monitoring (PMEM) report on GMOs authorized in the EU market.

Syngenta developed Bt11 x MIR162 x 1507 x GA21 maize (*Zea mays* L., corn) by combining four individual transformation events using conventional breeding. Maize plants derived from transformation Event Bt11 contain the transgene *cry1Ab*, which encodes the insecticidal protein Cry1Ab, and the transgene *pat*, which encodes the enzyme phosphinothricin acetyltransferase (PAT). The native, full-length Cry1Ab produced by the soil bacterium *Bacillus thuringiensis* subsp. *kurstaki* is active against certain lepidopteran insect pests of maize, including *Ostrinia nubilalis* and *Sesamia nonagrioides*. The Cry1Ab produced by Bt11 maize is a truncated version of native Cry1Ab that retains activity against lepidopterans. The transgene *pat* was derived from the soil bacterium *Streptomyces viridochromogenes*. PAT acetylates glufosinate-

ammonium, thus inactivating it and conferring tolerance to glufosinate-ammonium in herbicide products. PAT was used as a selectable marker in the development of Bt11 maize.

Maize plants derived from Event MIR162 contain the transgene *vip3Aa20*, which encodes the insecticidal protein Vip3Aa20, and the transgene *pmi*. Vip3Aa20 is a variant of the native Vip3Aa1 protein from the soil bacterium *B. thuringiensis* strain AB88, and is active against certain lepidopteran pests of maize, including *Spodoptera frugiperda* and *Helicoverpa zea*. PMI was used as a selectable marker in the development of MIR162 maize.

Maize plants derived from transformation Event 1507 (TC1507) contain the gene *cry1F* which encodes the insecticidal protein Cry1F, and the gene *pat*. The native, full-length Cry1F produced by *B. thuringiensis* var. *aizawai* is active against certain lepidopteran insect pests of maize, including *Ostrinia nubilalis* and *Spodoptera frugiperda*. The Cry1F produced by 1507 maize is a truncated version of the native Cry1F that retains activity against lepidopterans. PAT was used as a selectable marker in the development of 1507 maize.

Maize plants derived from transformation Event GA21 contain the transgene *mepsps*, which encodes the enzyme double-mutated 5-enolpyruvylshikimate-3-phosphate synthase (mEPSPS). The native 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS) from *Z. mays* is involved in synthesis of aromatic amino acids and is inhibited by glyphosate. The double-mutated mEPSPS produced by GA21 maize has low affinity for glyphosate compared to the native EPSPS, thus conferring tolerance to glyphosate in herbicide products.

## 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 Bt11 × MIR162 × 1507 × GA21 maize including all sub-combinations in scope or the combined 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, Outcomes” (Table 1).

**TABLE 1** Review Question in PICO/PECO Structure

Element	Components of Review Question
Population	Human and animal health and the environment
Intervention/Exposure	Bt11 × MIR162 × 1507 × GA21 maize and all relevant sub-combinations, derived food/feed products, and/or relevant combinations of Cry1Ab, phosphinothricin acetyltransferase (PAT), Vip3Aa20, phosphomannose isomerase (PMI), Cry1F, or mEPSPS and closely related variants
Comparator	conventional counterpart (if applicable)
Outcome	adverse effects

Because the search approach was not exclusionary (i.e., did not exclude the presence of any other events in retrieved records) searching the name of any of the single events comprising the Bt11 × MIR162 × 1507 × GA21 maize stack has the possibility to return literature relevant to the stack of interest and all sub-combinations. A binary search term approach was developed to return literature on those titles related to all the possible stack combinations of this application. A similar approach was used for the proteins associated with the events. The sub-combinations relevant to Bt11 × MIR162 × 1507 × GA21 maize EU market authorization are listed in Table 2.

**TABLE 2 List of Sub-combinations in Scope for Bt11 × MIR162 × 1507 × GA21 Maize Application**

<b>Highest order stack</b>	<b>Bt11 × MIR162 × 1507 × GA21</b>
<b>Two sub-combinations of three events</b>	Bt11 × MIR162 × 1507 MIR162 × 1507 × GA21
<b>One sub-combination of two events</b>	MIR162 × 1507

### 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 3). The first failed eligibility/inclusion criterion was used as the primary reason for exclusion, and the remaining criteria were not assessed.

**TABLE 3 Eligibility/inclusion Criteria to Establish Relevance**

Concepts	Criteria	Comment
Stacked events obtained by conventional crosses/subcombinations	A publication addresses the highest order breeding stack and/or a sub-combination or sub-combinations of the single events of the highest order breeding stack independently of its/their origin.	This permits the selection of publications on the higher order breeding stack and/or sub-combinations of the single events of the higher order that are in scope of the Bt11 × MIR162 × 1507 × GA21 application, independently of their origin. This permits the exclusion of publications only on the single events of the higher stacked event, because the risk assessment of GMO applications for stacked events covers only products in the scope of the GMO application – i.e., the higher order and sub-combinations of the singles involved, independently of their origin.
Intervention/exposure	Bt11 × MIR162 × 1507 × GA21 maize and all sub-combinations in scope, derived food/feed products, and/or the intended or closely related trait(s)	Intended traits include lepidopteran insect resistance, glufosinate herbicide tolerance, and glyphosate herbicide tolerance. Closely related variants of the insecticidal proteins included as relevant were those that shared the same tertiary level of Crickmore nomenclature for Cry1Ab. Closely related variants of Cry1F and Vip3Aa20 include those with the same secondary level of Crickmore nomenclature. Any enzyme classified as a 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS) was considered relevant if the EPSPS protein imparts the glyphosate tolerance trait. Any enzyme classified as a phosphinothricin acetyl transferase (PAT) was considered relevant. Any enzyme as a phosphomannose isomerase (PMI) was considered relevant. Only unique protein combinations relevant to the stack and its sub-combinations were in scope.
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 Bt11 × MIR162 × 1507 × GA21 maize and all sub-combinations in scope were considered relevant. Based on the scope of the application certain information/data requirements are excluded. More details on this concept are provided in Table 4. Publications addressing issues such as benefits, socio-economics, ethics, crop protection, detection methods, efficacy, public perception and risk communication were 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	Publications must address pathways and levels of exposure relevant to the scope of the application: import and processing of Bt11 × MIR162 × 1507 × GA21 maize and all sub-combinations in scope for food/feed uses.

Concepts	Criteria	Comment
	for the intended uses of the GMO and derived food/feed products under regulatory review	
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., editorials, reviews, position papers) were excluded. Risk assessments performed and reported by relevant key organizations were included as relevant if they address Bt11 × MIR162 × 1507 × GA21 maize, any of the relevant sub-combinations, and unique combinations of Cry1Ab, PAT, Vip3Aa20, PMI, Cry1F, or mEPSPS and closely related variants.
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 was excluded. Any cited/referenced publications contained within documents produced by EFSA and/or its GMO Panel were excluded.
Access	Full-text document is accessible	If potentially relevant full-text documents cannot be obtained, then they were listed in a table with a description of the (unsuccessful) methods used to try to obtain a copy.
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 4 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 4 it was considered relevant.
Outcomes	Effects/impacts on human and animal health, and/or the environment are addressed.	Publications that address Bt11 × MIR162 × 1507 × GA21 maize, or sub-combinations in scope also 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 Bt11 × MIR162 × 1507 × GA21 maize, or sub-combinations in scope.
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 Bt11 × MIR162 × 1507 × GA21 maize or sub-combinations in scope, 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 was addressed in the assessment of the publication.

Concepts	Criteria	Comment
Plant species	The publication may address the same plant species as the GMO under consideration, but could also address any plant species producing unique combinations of Cry1Ab, PAT, Vip3Aa20, PMI, Cry1F, and mEPSPS proteins in the stack or sub-combinations in scope of the application.	The review question addresses the safe use of the intended trait(s) of Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope. Therefore, GMOs that contain combinations of Cry1Ab, PAT, Vip3Aa20, PMI, Cry1F, and mEPSPS or closely-related variants unique to the product and sub-combinations in scope, 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 does not impact the assessment of Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope. Those types of data are identified as event specific in Table 4.
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 were 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 were excluded at the initial screening stage. Only one copy of a study was presented even if it is reported in different publications.

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 3 are listed in Table 4. If certain data are considered stack/sub-combination specific or specific to the unique transgenic protein combinations expressed in Bt11 × MIR162 × 1507 × GA21 maize and the sub-combinations in scope, it is noted. If the record did not contain enough information to determine if the protein being evaluated is a closely-related variant, then it was included.

**TABLE 4 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 Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in the scope	<ul style="list-style-type: none"> <li>• Information on the inserted/modified DNA including: sequence, size, copy number, genetic element arrangement, deletions, location, sequence similarity searches, analysis of open reading frames for each individual events in the stack maize (stack/sub-combination specific)</li> <li>• Expression data of inserted/modified sequences (stack/sub-combination specific)</li> <li>• Genetic stability (stack/sub-combination specific)</li> <li>• Data on the equivalence between plant-produced and microbially-produced proteins (stack/sub-combination specific)</li> </ul>
Agronomic, phenotypic and compositional characterization of the Bt11 × MIR162 × 1507 × GA21 maize	<ul style="list-style-type: none"> <li>• Comparative assessment of agronomic and phenotypic characteristics under field or controlled conditions (stack/sub-combination specific)</li> <li>• Comparative analysis of key nutritional constituents (stack/sub-combination specific)</li> </ul>
Toxicological assessment of newly expressed protein(s), new constituents other than proteins, and the whole GM food/feed	<ul style="list-style-type: none"> <li>• Toxicity studies in rodents (protein combinations in scope)</li> <li>• Whole food/feed animal feeding studies (stack/sub-combination specific)</li> </ul>
Allergenicity assessment of the newly expressed protein and the GM food/feed, and adjuvanticity	<ul style="list-style-type: none"> <li>• Serum screening (protein combinations in scope)</li> <li>• <i>In vivo</i> tests in animal models</li> <li>• Expression data for endogenous allergens in maize (stack/sub-combination specific)</li> </ul>
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"> <li>• Anticipated dietary intake of food/feed and the resulting nutritional impact (stack/sub-combination specific)</li> <li>• Comparative growth performance studies with young rapidly growing animal species (stack/sub-combination specific).</li> </ul>
Post-market monitoring	<ul style="list-style-type: none"> <li>• Description of mechanisms for determining actual changes to overall dietary intake patterns of the Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope, to what extent this has occurred and whether or not the product induces known (side) effects or unexpected side effects</li> <li>• Information on the reliability, sensitivity and specificity of the post market monitoring methods.</li> </ul>

Information/data requirement	Non-exhaustive list of specific information/data requirements
Persistence and invasiveness assessment, including plant-to-plant gene transfer	<ul style="list-style-type: none"> <li>• Measurements of volunteer occurrence and establishment (stack/sub-combination specific)</li> <li>• Replacement capacity (stack/sub-combination specific)</li> <li>• Fitness of the Bt11 × MIR162 × 1507 × GA21 plant in various environmental conditions – if the relevant combinations or sub-combinations of newly expressed proteins are expressed in a different plant species then the publication may be considered relevant.</li> </ul>
Assessment of plant to micro-organism gene transfer	<ul style="list-style-type: none"> <li>• This type of data is covered in the scope of the single event literature review.</li> </ul>
Assessment of interactions with target organisms	<ul style="list-style-type: none"> <li>• Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in the scope in the EU. According to the EFSA ERA Guidance (EFSA 2010): “<i>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</i>” (EFSA 2010). Therefore, an assessment of the potential resistance development in target organisms resulting from the import, processing and food and feed use Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope is not relevant for this application.</li> </ul>
Assessment of interactions with nontarget organisms	<ul style="list-style-type: none"> <li>• The EFSA ERA Guidance (EFSA 2010) states that: “<i>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)</i>”. Therefore, any publications that discuss direct exposure in test protein and laboratory studies or field survey data was considered not relevant based on scope of application.</li> </ul>
Assessment of interactions with biogeochemical and abiotic processes	<ul style="list-style-type: none"> <li>• Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope in the EU. According to the EFSA ERA Guidance (EFSA 2010): “<i>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</i>” therefore, an assessment of the impacts of Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope on biogeochemical processes resulting from specific cultivation, management and harvesting techniques is not relevant given the scope of this application.</li> </ul>
Assessment of impact of specific cultivation, management and harvesting techniques	<ul style="list-style-type: none"> <li>• Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in the scope in the EU. Cultivation of Bt11 × MIR162 × 1507 × GA21 maize in the EU is not included in the scope. According to the EFSA ERA guidance (EFSA 2010): “<i>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</i>”. Therefore, an assessment of impact of specific cultivation, management and harvesting techniques of Bt11 × MIR162 × 1507 × GA21 maize is not relevant for this application.</li> </ul>

<b>Information/data requirement</b>	<b>Non-exhaustive list of specific information/data requirements</b>
Risk mitigation	<ul style="list-style-type: none"><li>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 Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope.</li></ul>
Post-market environmental monitoring	<ul style="list-style-type: none"><li>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 Bt11 × MIR162 × 1507 × GA21 maize and sub-combinations in scope.</li></ul>

### 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<sup>®</sup> 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 stacks and post their risk assessments on their websites (Table 5) were searched for documents related to Bt11 × MIR162 × 1507 × GA21 maize.

**TABLE 5 Key Organization Pages Included in the Search**

<b>Regulatory agency/risk assessment body</b>	<b>Web address</b>
US Environmental Protection Agency	<a href="https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated">https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated</a>
Health Canada <sup>a</sup>	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>
Office of the Gene Technology Regulator	<a href="http://www.ogtr.gov.au/">http://www.ogtr.gov.au/</a>
National Technical Commission on Biosafety <sup>b</sup>	<a href="http://ctnbio.mctic.gov.br/inicio">http://ctnbio.mctic.gov.br/inicio</a>
Ministry of Agriculture, Forestry and Fisheries	<a href="http://www.maff.go.jp/e/">http://www.maff.go.jp/e/</a>

<sup>a</sup>Also 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>).

<sup>b</sup>Reports that reflect individual reviewer opinions are excluded from evaluation because 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 will not be 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, and 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.<sup>1</sup>

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

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**

<sup>1</sup>In 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.

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:

- Single event combinations OR Trade name OR Newly expressed protein combinations, OR (((Intended trait AND GMO general) OR GMO general × Intended trait) AND Plant species) OR GMO general × Intended trait - insecticidal

The search strategy employed captured literature relevant to Bt11 × MIR162 × 1507 × GA21 maize (Table 6). 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 6 Search String Strategy**

Set	Field	Search String	Concepts/Key Elements
1	Topic	MIR162 OR MIR 162 OR SYN-IR162-4	Event MIR162
2	Topic	DAS15?7 OR DAS 15?7 OR DAS15?7 OR DAS I5?7 OR 15?7 OR 15?7 OR TC 15?7 OR TC15?7 OR TC I5?7 OR TC15?7 OR DAS-?15?7-1 OR DAS?15?71	Event TC1507
3		1 AND 2	Binary terms for MIR162 and 1507 combination Will pick up all relevant combinations in Table 7
4	Topic	Agrisure* ADJ2 Viptera*	Trade name of the highest order stack, single events and subcombinations <sup>a</sup>
5	Topic	Herculex* 1* OR Herculex* 1* OR Herculex* CB*	Trade names for single event TC1507
6		4 AND 5	Trade names for MIR 162 and 1507 combined
7	Topic	Vip3AA20* OR Vip3 AA20* OR Vip3 AA 20* OR Vip3A A 20*	Newly expressed protein in MIR162
8	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 MIR162
9	Topic	Cry1F* OR Cry 1F* OR Cry 1 F* OR Cry1 F* OR CryIF* OR Cry IF* OR Cry I F* OR CryI F*	Newly expressed protein in TC1507
10	Topic	Phosphinothricin N acetyltransferase OR Phosphinothricin N acetyl transferase OR Phosphinothricin acetyltransferase OR Phosphinothricin acetyl transferase OR PPT acetyltransferase OR PPT acetyl transferase OR PT N acetyltransferase OR PT N acetyl transferase OR Glufosinate acetyltransferase OR Glufosinate acetyl transferase OR Glufosinate acetyltransferase OR Glufosinate acetyl transferase OR pat OR 111069-93-3 OR EC 2.3.1.183 OR E.C. 2.3.1.183	Relevant protein combination
11		7 AND 9	Relevant protein combination
12		7 AND 10	Relevant protein combination
13		8 AND 9	Relevant protein combination
14		8 AND 10	Relevant protein combination
15		11 OR 12 OR 13 OR 14	Newly expressed protein in MIR162

Set	Field	Search String	Concepts/Key Elements
16	Topic	((Insect OR insects OR lepidoptera* OR pest OR pests OR stalkborer* OR stalk borer* OR borer* OR cornborer* OR corn borer* OR noctuidae OR Crambidae OR earworm* OR ear worm* OR armyworm* OR army worm* OR cutworm* OR cut worm* OR Ostrinia OR O nubilalis OR Diatraea OR D grandiosella OR D crambidoides OR Helicoverpa OR H zea OR Spodoptera OR S frugiperda OR S exigua OR Papaipema OR P nebris OR Elasmopalpus OR E lignosellus OR D saccharalis OR Striacosta OR S albicosta OR Agrotis OR A ipsilon OR Feltia OR F jaculifera OR Pseudaletia OR P unipuncta OR ECB OR SWCB OR SCSB OR CEW OR FAW OR SCB OR WBC) ADJ2 (toleran* OR resistan* OR protect* OR control*)) OR B thuringiensis OR Bacillus thuringiensis OR ((glufosinate* OR gluphosinate* OR Basta* OR Liberty* OR Ignite* OR Rely* OR Finale* OR Challenge* OR gl?phosate OR gl?fosate OR roundup* OR round up* OR herbicide* OR pesticide*) ADJ2 (toleran* OR resistan* OR protect*))	Intended traits
17	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*)) OR stack*	GMO general
18		#16 AND #17	Intended traits AND GMO general
19	Topic	GMHT OR GEHT OR GMHR OR GEHR OR GMHTs OR GEHTs OR GMHRs OR GEHRs	GMO general x intended traits – herbicidal
20		#18 OR #19	(Intended traits AND GMO general) OR GMO general x intended traits – herbicidal
21	Topic	Maize* OR corn* OR Zea mays OR Z mays	Plant species
22		#20 AND #21	((Intended traits AND GMO general) OR GMO general x intended traits - herbicidal) AND plant species
23	Topic	((Bt OR Bacillus thuringiensis OR B thuringiensis) ADJ5 (maize* OR corn* OR mays)) OR Btmaize* OR Btcorn*	GMO general x intended traits
24		#3 OR #6 OR #15 OR #22 OR #23	(Combinations of Single event) OR (Trade names) OR (Newly expressed protein) OR (((Intended traits AND GMO general) OR GMO general x intended traits – herbicidal) AND Plant species) OR (GMO general x intended traits)

<sup>a</sup>Trade names for all of the single events, the highest order stack and commercial sub-combinations all have Agrisure in their names. Therefore, by simply searching Agrisure it is possible to capture all relevant literature.

Various single event and sub-combinations within the scope of this literature review include:

Bt11 x TC1507 x MIR162 x GA21 - Agrisure Viptera 3220, Agrisure Viptera 3220A, Agrisure Viptera 3220 E-Z Refuge, Agrisure 3220A E-Z Refuge, and Agrisure Viptera 3220 Refuge Renew

Because the binary search strategy is not exclusionary, it allowed for the possibility of returning records on all of the subcombinations in scope of the application without searching all of the subcombinations separately (see Table 7 for an example matrix for the event terms).

**TABLE 7** Matrix for the Event Terms in Scope for Bt11 × MIR162 × 1507 × GA21 Maize

	Binary search terms
Stacks in scope of the application	MIR162 × 1507
Bt11 × MIR162 × 1507 × GA21	X
Bt11 × MIR162 × 1507	X
MIR162 × 1507 × GA21	X
MIR162 × 1507	X

**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 3 and 4.

**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 8). 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 3 and 4.

**TABLE 8** 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
MIR162	MIR162	Event name
MIR162	Vip3Aa20	Newly expressed protein
MIR162	Phosphomannose isomerase	Newly expressed protein

1507	TC1507	Event name
1507	cry1F	Newly expressed protein

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### **3.4 Reference Publications**

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

## **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 9). 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.

Of the 205 records reviewed from the databases at Stage 1, both the reviewers agreed to exclude all of the 205 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. Since all of the 205 records were excluded, no subsequent steps of reviews were carried out and no tie breaker review was needed.

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 10). The results of the selection process from both database and internet searches are recorded in Table 11.

Of the 11 records reviewed from the internet records from key organizations, both the reviewers agreed to exclude all of the 11 records (Table 12).

### **4.3 Relevant Publications**

The reviewers determined that zero publications were relevant for this scoping review.

### **4.4 Excluded Publications After Detailed Assessment of Full-Text Documents**

The reviewers determined that zero publications from the review were relevant for this scoping review. Therefore, all 11 records reviewed from the internet records from key organizations were excluded (Table 12).

### **4.5 Unobtainable Publications**

No publications were considered unobtainable.

### **4.6 Unclear Publications**

No publications were considered unclear.

### **4.7 Full-Text Documents**

No publications were considered relevant for full-text documents.

### **4.8 Implications of Relevant Publications on Risk Assessment**

No publications were considered relevant for full-text documents.

**TABLE 9 Electronic Bibliographic Database Search Results**

<b>Database</b>	<b>Search Date dd/mm/yyyy</b>	<b>Service provider</b>	<b>Date span of the search dd/mm/yyyy<sup>a</sup></b>	<b>Any limits applied to the search</b>	<b>Number of records retrieved<sup>b</sup></b>
Agricola	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	66
BIOSIS Previews	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	217
CAB Abstracts	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	144
Medline	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	161
<b>Total</b>					<b>588</b>

<sup>a</sup>Ovid 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 1<sup>st</sup> of the month, BIOSIS Previews updated weekly on Mondays, CAB Abstracts updated weekly on Mondays and Medline updated daily.

<sup>b</sup>The results were de-duplicated after combining records retrieved from all the databases.

**TABLE 10 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 <sup>a</sup>	Total number of records retrieved after removing duplicates	Number of relevant records
Health Canada <sup>b</sup>	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>	21/07/2021	21/04/2021	No limitations	4	0
Ministry of Agriculture, Forestry and Fisheries	<a href="http://www.maff.go.jp/e/">http://www.maff.go.jp/e/</a>	07/07/2021	NA	No limitations	6	0
National Technical Commission on Biosafety <sup>c</sup>	<a href="http://ctnbio.mcti.gov.br/">http://ctnbio.mcti.gov.br/</a>	01/07/2021	NA	No limitations	1	0
Office of the Gene Technology Regulator	<a href="http://www.ogtr.gov.au/">http://www.ogtr.gov.au/</a>	16/07/2021	16/07/2021	No limitations	0	0
US Environmental Protection Agency	<a href="https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated">https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated</a>	20/07/2021	14/07/2021	No limitations	0	0

<sup>a</sup>Records published prior to June 1, 2020 were manually excluded (if any).

<sup>b</sup>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>)

<sup>c</sup>Partial 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 11 Results of the Publication Selection Process, for Each Review Question and or Group of Information/data Requirements Searched**

<b>Review question and/or category of information/data requirement(s) captured in the search</b>	<b>Subcategories</b>	<b>Number of publications</b>
Publications identified after all <sup>a</sup> searches of the scientific literature (excluding duplicates*)	Databases	205
	Internet	11
	Manual	0
	<b>Total</b>	<b>216</b>
Publications excluded from the search results after screening of title and abstracts (stage 1)	Databases	205
	Internet <sup>b</sup>	NA
	Manual	0
	<b>Total</b>	<b>205</b>
Publications screened using full-text (stage 2)	Databases	0
	Internet	11
	Manual	0
	<b>Total</b>	<b>11</b>
Publications excluded after full-text screening	Databases	0
	Internet	11
	Manual	0
	<b>Total</b>	<b>11</b>
Unobtainable / Unclear publications	Unobtainable	0
	Unclear	0
	<b>Total</b>	<b>0</b>
Publications considered relevant	Databases	0
	Internet	0
	References	0
	<b>Total</b>	<b>0</b>

\*A total of 588 publications were identified from the database search, of them 383 publications were duplicates and were removed.

<sup>a</sup>Both from electronic bibliographic databases and other sources of scientific literature.

<sup>b</sup>Internet results are not screened at stage 1 because they have no title or abstract.

NA= Not Applicable

**TABLE 12 Report of all the Publications Excluded from Risk Assessment after Detailed Assessment of Full-Text Internet Documents**

<b>List of references for publications excluded from the risk assessment, classified by authors</b>			
<b>Study (Author(s))</b>	<b>Title</b>	<b>Source</b>	<b>Reason(s) for exclusion based on eligibility/inclusion criteria table</b>
National Technical Commission on Biosafety (CTNBio 2021)	Tabela de Plantas Aprovadas para Comercialização	<a href="http://ctnbio.mctic.gov.br/documents/566529/1684467/Tabela+de+Plantas+Aprovadas+para+Comercializa%C3%A7%C3%A3o/">http://ctnbio.mctic.gov.br/documents/566529/1684467/Tabela+de+Plantas+Aprovadas+para+Comercializa%C3%A7%C3%A3o/</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document 5-2	<a href="https://www.maff.go.jp/j/council/sizai/siryou/22_21/pdf/data5-2.pdf">https://www.maff.go.jp/j/council/sizai/siryou/22_21/pdf/data5-2.pdf</a>	Intervention/Exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	cry1Ab, cry1F , cry1A.105, cry2Ab2, cry1Ac, vip3A, cry3Bb1, cry3Aa2	<a href="http://www.maff.go.jp/j/syouan/nouan/carta/c_data/pdf/gutairei.pdf">http://www.maff.go.jp/j/syouan/nouan/carta/c_data/pdf/gutairei.pdf</a>	Intervention/Exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Movements surrounding China's grain imports-Part 1	<a href="https://www.maff.go.jp/j/zyukyu/jki/j_rep/monthly/201405/pdf/21_motnthly_topics_china_im_1405.pdf">https://www.maff.go.jp/j/zyukyu/jki/j_rep/monthly/201405/pdf/21_motnthly_topics_china_im_1405.pdf</a>	Intervention/Exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Recombinant DNA technology application Feed safety confirmation Yield increase and herbicides	<a href="https://www.maff.go.jp/j/council/sizai/siryou/55/attach/pdf/index-13.pdf">https://www.maff.go.jp/j/council/sizai/siryou/55/attach/pdf/index-13.pdf</a>	Intervention/Exposure
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Chapter 2 Introduction of GM crops in China and future prospects	<a href="https://www.maff.go.jp/j/kokusai/kokusei/kaijigai_nogyo/k_syokuryo/h22/pdf/asia_h22_02.pdf">https://www.maff.go.jp/j/kokusai/kokusei/kaijigai_nogyo/k_syokuryo/h22/pdf/asia_h22_02.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF 2021)	crops	<a href="https://www.maff.go.jp/j/syouan/nouan/carta/torikumi/">https://www.maff.go.jp/j/syouan/nouan/carta/torikumi/</a>	Information/data requirements
Health Canada (2021)	Plants with novel traits (PNT) and novel feeds from plant sources approved in Canada	<a href="https://inspection.canada.ca/active/netapp/plantnoveltraitpnt-vegearnouvcn/pntvcne.aspx">https://inspection.canada.ca/active/netapp/plantnoveltraitpnt-vegearnouvcn/pntvcne.aspx</a>	Date out of range
Health Canada (2021)	The biology of Zea mays L. (maize) - Canadian Food Inspection Agency	<a href="https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/applicants/directive-94-08/biology-">https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/applicants/directive-94-08/biology-</a>	Reporting Format

Health Canada (2020)	Decision Documents – Determination of Environmental and Livestock Feed Safety	<a href="https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/decision-documents/eng/1303704378026/1303704484236">documents/zea-mays-l-maize- /eng/1330985739405/1330985818367 https://inspection.canada.ca/plant- varieties/plants-with-novel-traits/approved- under-review/decision- documents/eng/1303704378026/13037044 84236</a>	Date out of range
Health Canada (2021)	Completed safety assessments of novel foods including genetically modified (GM) foods	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health- canada/services/food-nutrition/genetically- modified-foods-other-novel- foods/approved-products.html</a>	Reporting Format

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## **APPENDIX SECTION**

## **APPENDIX A Search History and Subject Indexing**



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▼ **Search History** (199)

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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	MIR162.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	29	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	MIR 162.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	3	SYN-IR162-4.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	4	1 or 2 or 3	32	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	5	DAS15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	6	DAS 15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	7	DAS15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	8	DAS 15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	9	15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	11861	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	10	I5?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	11	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	11	TC 15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	12	TC15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	46	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	13	TC 15?7.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	16	DAS?15?71.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	17	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16	11920	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	18	4 and 17	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	19	Agrisure*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	19	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	20	Viptera*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	17	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	21	(Agrisure* adj2 Viptera*).mp.	16	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	22	Herculex* I*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	23	Herculex* 1*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	24	Herculex* CB*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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<input type="checkbox"/>	25	22 or 23 or 24	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	26	21 and 25	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	27	Vip3AA20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	17	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	28	Vip3 AA20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	29	Vip3 AA 20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	30	Vip3A A 20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	31	27 or 28 or 29 or 30	17	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	32	Phosphomannoisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	33	Mannose 6-phosphate isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	42	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	34	Phosphomannoseisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	35	Phosphomannose isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	114	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	36	9023-88-5.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	37	AAA24109.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	38	"EC 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	39	"E.C. 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	40	32 or 33 or 34 or 35 or 36 or 37 or 38 or 39	150	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	41	Cry1F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	247	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	42	Cry 1F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	43	Cry 1 F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	44	Cry1 F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	24	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	45	Cry1F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	12	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	46	Cry 1F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	47	Cry 1 F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	48	Cry1 F*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	285	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	21	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	abstract, heading words]					
<input type="checkbox"/>	52 Phosphinothricin acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	218	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	53 Phosphinothricin acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	48	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	54 PPT acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	55 PPT acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	56 PT N acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	57 PT N acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	58 Glufosinate acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	59 Glufosinate acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	60 Gluphosinate acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	61 Gluphosinate acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	62 pat.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2654	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	63 111069-93-3.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	64 "EC 2.3.1.183".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	65 "E.C. 2.3.1.183".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	66 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	2842	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	67 31 and 49	5	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	68 31 and 66	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	69 40 and 49	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	70 40 and 66	8	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	71 67 or 68 or 69 or 70	13	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	72 Insect.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	189989	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	73 insects.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	241742	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	74 lepidoptera*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	38851	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	75 pest.mp. [mp=meeting information, title, original title, map	73680	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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	information, note, abstract, heading words]					
<input type="checkbox"/>	76	pests.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	343147	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	77	stalkborer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	30	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	78	stalk borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	351	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	79	borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10496	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	80	combore*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	14	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	81	corn borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2857	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	82	noctuidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7867	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	83	Crambidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1079	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	84	earworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1068	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	85	ear worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	86	armyworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3219	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	87	army worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	153	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	88	cutworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1413	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	89	cut worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	34	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	90	Ostrinia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2601	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	91	O nubilalis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	293	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	92	Diatraea.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1024	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	93	D grandiosella.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	22	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	94	D crambidoides.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	95	Heliooverpa.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5143	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	96	H zea.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	492	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	97	Spodoptera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8598	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	98	S frugiperda.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	550	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	99	S exigua.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	573	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	100	Papaipema.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	68	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	101	P nebris.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	102	Elasmopalpus.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	141	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	—
<input type="checkbox"/>	103	E lignosellus.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	11	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	104	D saccharalis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	105	Striacosta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	35	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	106	S albicosta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	16	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	107	Agrotis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1072	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	108	A ipsilon.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	92	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	109	Feltia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	43	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	110	F jaculifera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	111	Pseudaletia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	454	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	112	P unipuncta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	23	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	113	ECB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	347	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	114	SWCB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	33	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	115	SCSB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	116	CEW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	82	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	117	FAW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	175	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	118	SCB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	526	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	119	WBC.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1664	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	120	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119	473928	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	121	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118733	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	122	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	297995	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	123	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	280684	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	124	control*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	996464	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	125	121 or 122 or 123 or 124	1495326	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨
<input type="checkbox"/>	126	((Insect or insects or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or comborer* or corn borer* or noctuidae or Crambidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or Ostrinia or O nubilalis or Diatraea or D	120191	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	🗨

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grandiosella or D crambicoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC) adj2 (toleran\* or resistan\* or protect\* or control\*).mp.

<input type="checkbox"/>	127	B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1712	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	128	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10817	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	129	glufosinate*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1235	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	130	gluphosinate*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	131	Basta*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	477	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	132	Liberty*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	642	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	133	Ignite*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	852	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	134	Rely*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	19030	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	135	Finale*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	107	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	136	Challenge*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137718	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	137	gl?phosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7811	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	138	gl?fosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	139	roundup*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1350	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	140	round up*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	132	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	141	herbicide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	57827	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	142	pesticide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	127013	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	143	129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142	320754	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	144	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118733	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	145	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	297995	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	146	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	280684	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	147	144 or 145 or 146	643901	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	148	((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	10338	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	149	126 or 127 or 128 or 148	137156	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	150	GMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1563	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	151	LMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	583	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	152	GM.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8118	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	153	GE.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5843	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	154	transgen*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	53695	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	155	genetic*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	636904	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	156	living.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	60524	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	157	biotech*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	47024	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	158	155 or 156 or 157	728772	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	159	modif*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	255021	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	160	transform*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	181673	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	161	manipulat*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41486	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	162	improv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	557913	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	163	engineer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	147392	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	164	deriv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	308361	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	165	159 or 160 or 161 or 162 or 163 or 164	1281876	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	166	((genetic* or living or biotech*) adj3 (modif* or transform* or manipul* or improv* or engineer* or deriv*).mp.	61871	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	167	stack*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	15200	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	168	150 or 151 or 152 or 153 or 154 or 166 or 167	123363	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	169	149 and 168	7803	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	170	GMHT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	28	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	171	GEHT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	80	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	172	GMHR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	173	GEHR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	174	GMHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	175	GEHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	176	GMHRs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	177	GEHRs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	178	170 or 171 or 172 or 173 or 174 or 175 or 176 or 177	118	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	179	169 or 178	7893	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	180	Maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69677	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	181	corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137687	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	182	Zea mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	52068	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	183	Z mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	373	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	184	180 or 181 or 182 or 183	178394	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	185	179 and 184	1894	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	186	Bt.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7040	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	187	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10817	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	188	B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1712	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	189	186 or 187 or 188	14440	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	190	maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69677	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	193	190 or 191 or 192	178526	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	194	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	1281	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	195	Btmaize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	196	Btcorn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	197	194 or 195 or 196	1282	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	198	18 or 26 or 71 or 185 or 197	2185	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	199	limit 198 to yr="2020 -Current"	66	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

Save Remove Combine with: AND OR

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1 Resource selected | [Hide](#) | [Change](#)

i **AGRICOLA** 1970 to June 2021

Enter keyword or phrase (\* or \$ for truncation)
  **Keyword**
 Author
  Title
  Journal

**Limits** *(expand)*
 Include Multimedia
  Map Term to Subject Heading

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Options

Print Email Export + My Projects Keep Selected

**View By**

Text (66 Results)

Multimedia (0 Results)

**Search Information**

**You searched:**  
limit 198 to yr="2020 -Current"

**Search terms used:**

1  
162  
111069-93-3  
1577  
9023-88-5  
a  
epsilon  
aaa24109  
agrisure\*  
agrotis  
army  
worm\*  
armyworm\*  
b  
thuringiensis  
bacillus  
basta\*  
biotech\*  
borer\*  
bt  
btcom\*  
btmaize\*  
cew  
challenge\*  
control\*  
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combore\*  
crambidae  
cry  
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1f\*  
i  
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cry1  
cry1f\*  
cryi  
cryif\*  
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d  
cramboides  
grandiosella  
saccharalis  
das  
i577  
das-?1577-1  
das1577  
das?15771  
dasi577  
deriv\*  
diatraea

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1. [Prevalence of genetically modified soybean in animal feedingsuffs in Poland](#)

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2. [Sweet Corn Sentinel Monitoring for Lepidopteran Field-Evolved Resistance to Bt Toxins](#)

[Cite](#) [+ My Projects](#) [+ Annotate](#)

3. [Extended investigation of field-evolved resistance of the corn earworm \*Helicoverpa zea\* \(Lepidoptera: Noctuidae\) to \*Bacillus thuringiensis\* Cry1A.105 and Cry2Ab2 proteins in the southeastern United States](#)

[Cite](#) [+ My Projects](#) [+ Annotate](#)

4. [Assessment of damage caused by evolved fall armyworm on native and transgenic maize in South Africa](#)

[Cite](#) [+ My Projects](#) [+ Annotate](#)

5. [Use of taxonomic and trait-based approaches to evaluate the effect of Bt maize expressing the Cry1Ie protein on non-target collembola: A case study in Northeast China](#)

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e  
lignosellus  
e.c.  
2.3.1.183  
5.3.1.8  
ear  
earworm\*  
ec  
ecb  
elasmopalpus  
engineer\*  
f  
jaculifera  
faw  
feltia  
finale\*  
ge  
gehr  
gehrs  
geht  
gehts  
genetic\*  
gf?fosate  
gf?phosate  
glufosinate  
acetyl  
transferase  
acetyltransferase  
glufosinate\*  
gluphosinate  
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gm  
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gmo\*  
h  
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helicoverpa  
herbicide\*  
herculex\*  
1\*  
cb\*  
i\*  
ignite\*  
improv\*  
insect  
insects  
lepidoptera\*  
liberty\*  
living  
lmo\*  
maize\*  
manipulat\*  
mannose  
6-phosphate  
isomerase  
mays  
mir  
mir162  
modif\*  
noctuidae  
o  
nubilalis  
ostrinia

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p  
 nebris  
 unipuncta  
 papaiipema  
 pat  
 pest  
 pesticide\*  
 pests  
 phosphinothricin  
 n  
 phosphomannoisomerase  
 phosphomannose  
 phosphomannoseisomerase  
 ppt  
 protect\*  
 pseudalletia  
 pt  
 rely\*  
 resistan\*  
 round  
 up\*  
 roundup\*  
 s  
 albicosta  
 exigua  
 frugiperda  
 scb  
 scsb  
 spodoptera  
 stack\*  
 stalk  
 stalkborer\*  
 striacosta  
 swcb  
 syn-ir162-4  
 tc  
 tc1577  
 tc1577  
 toleran\*  
 transform\*  
 transgen\*  
 vip3  
 aa  
 20\*  
 aa20\*  
 vip3a  
 vip3aa20\*  
 vipitera\*  
 wbc  
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**Search Returned:**  
 66 text results

**Sort By:**

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**Filter By**

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[Selected Only \(0\)](#)

▼ **Years**

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[What's New](#)

▼ **Search History** (199)

[View Saved](#)

<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	MIR162.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	104	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	MIR 162.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	16	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	3	SYN-HR162-4.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	4	1 or 2 or 3	116	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	5	DAS15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	6	DAS 15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	7	DAS15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	8	DAS 15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	9	15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	74724	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	12	TC15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	111	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	13	TC 15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	14	TC15?7.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	15	DAS-?15?7-1.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	16	DAS?15?71.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	17	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16	74888	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	18	4 and 17	12	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	19	Agrisure*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	32	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	20	Viptera*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	34	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	21	(Agrisure* adj2 Viptera*).mp.	29	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	22	Herculex* 1*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	23	Herculex* 1*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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	title (non-english), book title (english), title, heading words]					
<input type="checkbox"/>	24	Herculex* CB*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	25	22 or 23 or 24	9	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	26	21 and 25	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	27	Vip3AA20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	45	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	28	Vip3 AA20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	30	Vip3A A 20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	31	27 or 28 or 29 or 30	45	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	32	Phosphomannoisomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	17	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	33	Mannose 6-phosphate isomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	135	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	34	Phosphomannoseisomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	35	Phosphomannose isomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	416	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	36	9023-88-5.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	371	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	37	AAA24109.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	38	"EC 5.3.1.8".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	310	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	39	"E.C. 5.3.1.8".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	310	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	40	32 or 33 or 34 or 35 or 36 or 37 or 38 or 39	650	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	41	Cry1F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	528	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	42	Cry 1F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	18	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	43	Cry 1 F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	15	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	44	Cry1 F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	74	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	45	Cry1F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	46	Cry 1F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	48	Cryl F*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	629	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	48	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	12	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	217	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	63	111069-93-3.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	145	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	64	"EC 2.3.1.183".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	49	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	49	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	66	50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	7239	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	67	31 and 49	18	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	68	31 and 66	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	69	40 and 49	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	

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<input type="checkbox"/>	70	40 and 66	9	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	71	67 or 68 or 69 or 70	27	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	72	Insect.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	189067	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	73	insects.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	912502	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	74	lepidoptera*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	172054	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	75	pest.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	463523	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	76	pests.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	66438	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	78	stalk borer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	381	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	81	com borer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2712	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	82	noctuidae.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	11537	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	83	Crambidae.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2560	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	85	ear worm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	30	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	88	cutworm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1497	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	92	Diatraea.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1039	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	93	D grandiosella.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	34	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	95	Helicoverpa.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	9078	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	<input type="checkbox"/>

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	words]						
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<input type="checkbox"/>	98	S frugiperda.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1356	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	107	Agrotis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1374	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	111	Pseudaletia.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	462	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	112	P unipuncta.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	46	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	113	ECB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1501	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	114	SWCB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	32	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	115	SCSB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	70	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	119	WBC.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	28089	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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<input type="checkbox"/>	120	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119	1245371	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	121	toleran*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	392224	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	123	protect*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1164552	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	125	121 or 122 or 123 or 124	6857277	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	126	((Insect or insects or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or comborer* or corn borer* or noctuidae or Crambidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC) adj2 (toleran* or resistan* or protect* or control*).mp.	439051	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	127	B thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4106	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	128	Bacillus thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	19208	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	129	glufosinate*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1832	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	131	Basta*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1231	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	139	roundup*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2076	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	140	round up*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	398	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	169	149 and 168	19045	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	174	GMHTs.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	178	170 or 171 or 172 or 173 or 174 or 175 or 176 or 177	144	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	179	169 or 178	19108	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	180	Maize*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	112016	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	185	179 and 184	3733	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	194	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays).mp.	2242	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	197 194 or 195 or 196	2242	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	198 18 or 26 or 71 or 185 or 197	4594	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	199 limit 198 to yr="2020 -Current"	217	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>

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Search terms used:  
1  
162  
111069-93-3  
1577  
9023-88-5  
a  
ippsilon  
aaa24109  
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army  
worm\*  
armyworm\*  
b  
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borer\*  
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btcom\*  
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challenge\*  
control\*  
com  
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combore\*

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crambidae  
 cry  
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 i  
 if\*  
 cry1  
 cry1f\*  
 cryi  
 cryif\*  
 cut  
 outworm\*  
 d  
 crambidooides  
 grandiosella  
 saccharalis  
 das  
 i5??  
 das-?15?7-1  
 das15??  
 das?15?71  
 dasi5??  
 dentv\*  
 diatraea  
 e  
 lignosellus  
 e.c.  
 2.3.1.183  
 5.3.1.8  
 ear  
 earworm\*  
 ec  
 ecb  
 elasmopalpus  
 engineer\*  
 f  
 jaculifera  
 faw  
 felita  
 finale\*  
 ge  
 gehr  
 gehrs  
 geht  
 gehts  
 genetic\*  
 g?fosate  
 g?phosate  
 glufosinate  
 acetyl  
 transferase  
 acetyltransferase  
 glufosinate\*  
 gluphosinate  
 gluphosinate\*  
 gm  
 gmhr  
 gmhrs  
 gmht  
 gmhts  
 gmo\*  
 h  
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 helicoverpa  
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improv\*  
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insects  
lepidoptera\*  
liberty\*  
living  
lmo\*  
maize\*  
manipulat\*  
mannose  
6-phosphate  
isomerase  
mays  
mir  
mir162  
modif\*  
noctuidae  
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nubilalis  
ostrinia  
p  
nebris  
unipuncta  
papalipema  
pat  
pest  
pesticide\*  
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resistan\*  
round  
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albicosta  
exigua  
frugiperda  
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scsb  
spodoptera  
stack\*  
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stalkborer\*  
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syn-ir162-4  
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toleran\*  
transform\*  
transgen\*  
vip3

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aa  
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vip3a  
vip3aa20\*  
viptera\*  
wbc  
z

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217 text results

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**Selected Only ( 0 )**

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Current year  
Past 3 years  
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<input type="checkbox"/>	16	DAS?15?71.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	17	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16	31617	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	18	4 and 17	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	19	Agrisure*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	29	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	20	Viptera*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	36	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	21	(Agrisure* adj2 Viptera*).mp.	22	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	22	Herculex* 1*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	13	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	23	Herculex* 1*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	24	Herculex* CB*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	<input type="checkbox"/>

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<input type="checkbox"/>	25	22 or 23 or 24	13	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	26	21 and 25	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	27	Vip3AA20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	35	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	28	Vip3 AA20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	29	Vip3 AA 20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	30	Vip3A A 20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	31	27 or 28 or 29 or 30	35	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	32	Phosphomannoisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	33	Mannose 6-phosphate isomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	124	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	34	Phosphomannoseisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	35	Phosphomannose isomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	152	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	36	9023-88-5.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	37	AAA24109.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	38	"EC 5.3.1.8".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	39	"E.C. 5.3.1.8".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	40	32 or 33 or 34 or 35 or 36 or 37 or 38 or 39	232	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	41	Cry1F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	386	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	42	Cry 1F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	12	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	43	Cry 1 F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	44	Cry1 F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	30	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	45	Cry1F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	12	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	46	Cry 1F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	47	Cry I F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	48	Cry1 F*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	441	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	29	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	290	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	55	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	61	Gluphosinate acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	62	pat.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2261	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	63	111069-93-3.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	67	31 and 49	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	68	31 and 66	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	69	40 and 49	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	70	40 and 66	9	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	71	67 or 68 or 69 or 70	26	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	72	Insect.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	387581	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	73	insects.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	773080	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	74	lepidoptera*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	170459	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	76	pests.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	411107	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	77	stalkborer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	46	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	78	stalk borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	709	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	79	borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	26919	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	80	combore*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	25	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	81	corn borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3392	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	82	noctuidae.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	48888	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	83	Crambidae.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1861	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	84	earworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	885	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	85	ear worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	18	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	86	armyworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9623	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	87	army worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	216	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	88	cutworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2150	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	89	cut worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	76	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	90	Ostrinia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4793	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	91	O nubilalis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1074	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	92	Diatraea.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1745	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	93	D grandiosella.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	104	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	94	D crambidoides.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	95	Helicoverpa.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	15132	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	96	H zea.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1393	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	97	Spodoptera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	17378	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	98	S frugiperda.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1855	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	99	S exigua.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1561	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	100	Papaipema.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	53	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	101	P nebris.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	18	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	102	Elasmopalpus.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	238	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	103	E lignosellus.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	64	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	104	D saccharalis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	514	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	105	Striacosta.mp. [mp=abstract, title, original title, broad	42	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>

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	terms, heading words, identifiers, cabicodes]					
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<input type="checkbox"/>	107 Agrotis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2796	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	108 A ipsilon.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	455	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	109 Feltia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	81	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	110 F jaculifera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	111 Pseudaletia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	651	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	112 P unipuncta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	38	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	113 ECB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	525	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	114 SWCB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	34	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	115 SCSB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	116 CEW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	96	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	117 FAW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	389	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	118 SCB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	701	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	119 WBC.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6005	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	120 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119	920812	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	121 toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	242959	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	122 resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	666081	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	123 protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	515307	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	124 control*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1986807	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	125 121 or 122 or 123 or 124	2884816	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	126 ((Insect or insects or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or cornborer* or corn borer* or noctuidae or Crambidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC) adj2 (toleran* or resistan* or protect* or control*).mp.	188969	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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<input type="checkbox"/>	127	B thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5794	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	128	Bacillus thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20769	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	129	glufosinate*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2977	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	130	glufosinate*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	30	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	131	Basta*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1565	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	132	Liberty*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	965	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	133	Ignite*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	888	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	134	Rely*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	27289	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	135	Finale*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	304	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	136	Challenge*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	235071	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	137	gl?fosate.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	19522	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	138	gl?fosate.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	37	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	139	roundup*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3085	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	140	round up*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	213	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	141	herbicide*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	148816	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	142	pesticide*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	841241	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	143	129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142	1118824	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	144	toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	242959	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	145	resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	666081	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	146	protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	515307	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	147	144 or 145 or 146	1272062	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	148	((glufosinate* or glufosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?fosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	26433	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	149	126 or 127 or 128 or 148	224231	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	152	GM.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20651	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	153	GE.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7189	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	154	transgen*.mp. [mp=abstract, title, original title, broad	98634	Advanced		

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	terms, heading words, identifiers, cabicodes]			<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	155 genetic*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1016464	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	156 living.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	147739	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	157 biotech*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	232611	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	158 155 or 156 or 157	1268576	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	159 modif*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	387780	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	160 transform*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	234900	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	161 manipulat*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	102582	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	163 engineer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	195782	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	164 deriv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	447233	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	165 159 or 160 or 161 or 162 or 163 or 164	2006400	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	169 149 and 168	17161	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	170 GMHT.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	94	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	171 GEHT.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	112	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	172 GMHR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	173 GEHR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	174 GMHTs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	175 GEHTs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	8	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	178 170 or 171 or 172 or 173 or 174 or 175 or 176 or 177	224	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	179 169 or 178	17286	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	180 Maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	283183	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	181 corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	345536	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	182 Zea mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	228293	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	183 Z mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1101	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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<input type="checkbox"/>	184	180 or 181 or 182 or 183	387469	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	185	179 and 184	3374	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	186	Bt.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	14954	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	190	maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	283183	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	191	corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	345536	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	192	mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	228351	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	193	190 or 191 or 192	387512	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	194	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	2254	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	196	Btcorn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	197	194 or 195 or 196	2254	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	198	18 or 26 or 71 or 185 or 197	4116	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	199	limit 198 to yr="2020 -Current"	144	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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 162  
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 9023-88-5  
 a  
 epsilon  
 aaa24109  
 agrisure\*  
 agrotis  
 army  
 worm\*  
 armyworm\*  
 b  
 thuringiensis  
 bacillus  
 basta\*  
 biotech\*  
 borer\*  
 bt  
 btcom\*  
 btmaize\*  
 cew  
 challenge\*  
 control\*  
 com  
 com\*  
 comborer\*  
 crambidae  
 cry  
 f\*  
 1f\*  
 i  
 if\*  
 cry1  
 cry1f\*  
 cryi  
 cryif\*  
 cut  
 cutworm\*  
 d  
 cramboides  
 grandiosella  
 saccharalis  
 das  
 i5?7  
 das-?15?7-1  
 das15?7  
 das?15?71  
 dasi5?7  
 deriv\*  
 diatraea  
 e  
 lignosellus  
 e.c.  
 2.3.1.183  
 5.3.1.8  
 ear  
 earworm\*  
 ec  
 ecb  
 elasmopalpus  
 engineer\*  
 f

2. **Are glyphosate and glufosinate-ammonium totally selective for transgenic maize containing the CP4-EPSPS and PAT genes?**

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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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jaculifera  
faw  
feltia  
finale\*  
ge  
gehr  
gehrrs  
geht  
gehts  
genetic\*  
gl?fosate  
gl?phosate  
glufosinate  
acetyl  
transferase  
acetyltransferase  
glufosinate\*  
gluphosinate  
gluphosinate\*  
gm  
gmhr  
gmhrs  
gmht  
gmhts  
gmo\*  
h  
zea  
helicooverpa  
herbicide\*  
herculex\*  
t\*  
cb\*  
i\*  
ignite\*  
improv\*  
insect  
insects  
lepidoptera\*  
liberty\*  
living  
lmo\*  
maize\*  
manipulat\*  
mannose  
6-phosphate  
isomerase  
mays  
mir  
mir162  
modif\*  
noctuidae  
o  
nubilalis  
ostrinia  
p  
nebris  
unipuncta  
papalipema  
pat  
pest  
pesticide\*  
pests  
phosphinothricin  
n  
phosphomannoisomerase  
phosphomannose

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phosphomannoseisomerase  
ppt  
protect\*  
pseudaletia  
pt  
rely\*  
resistan\*  
round  
up\*  
roundup\*  
s  
albicosta  
exigua  
frugiperda  
scb  
scsb  
spodoptera  
stack\*  
stalk  
stalkborer\*  
striacosta  
swcb  
syn-ir162-4  
tc  
tc1577  
tc1577  
toleran\*  
transform\*  
transgen\*  
vip3  
aa  
20\*  
aa20\*  
vip3a  
vip3aa20\*  
viptera\*  
wbc  
z

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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	MIR162.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]	50	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<a href="#">Contract</a>
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<input type="checkbox"/>	4	1 or 2 or 3	57	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	11 TC 15?77.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]	9	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	18 4 and 17	8	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	19 Agrisure*.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]	9	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	21 (Agrisure* adj2 Viptera*).mp.	8	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	22 Herculex* l*.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]	6	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	24	Herculex* CB*.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	25	22 or 23 or 24	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	26	21 and 25	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	27	Vip3AA20*.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]	22	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	28	Vip3 AA20*.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	29	Vip3 AA 20*.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	30	Vip3A A 20*.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	31	27 or 28 or 29 or 30	22	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	32	Phosphomannoisomerase.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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	33	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	34	Phosphomannoseisomerase.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]	5	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	35	Phosphomannose 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]	259	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	36	9023-88-5.mp. [mp=title, abstract, original title, name of	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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	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]					
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<input type="checkbox"/>	38 "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	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	39 "E.C. 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	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	40 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39	496	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	41 Cry1F*.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]	273	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	42 Cry 1F*.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]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	43 Cry 1 F*.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]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	44 Cry1 F*.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]	42	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	45 CryIF*.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]	7	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	46 Cry IF*.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]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	47 Cry I F*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		

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Ovid: Search Form

	supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	48 Cryl F*.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]	2	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	49 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	327	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	50 Phosphinothricin N acetyltransferase.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]	130	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	51 Phosphinothricin N acetyl transferase.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]	2	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	52 Phosphinothricin acetyltransferase.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]	92	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	53 Phosphinothricin acetyl transferase.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]	39	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	54 PPT acetyltransferase.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]	2	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	55 PPT acetyl transferase.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]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	56 PT N acetyltransferase.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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	57 PT N acetyl transferase.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	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	58 Glufosinate acetyltransferase.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	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	

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	supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	60 Glufosinate acetyl transferase.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	61 Glufosinate acetyl transferase.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	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	63 111069-93-3.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	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	65 "E.C. 2.3.1.183".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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	66 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	5670	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	67 31 and 49	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	68 31 and 66	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	69 40 and 49	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	70 40 and 66	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	71 67 or 68 or 69 or 70	14	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	72 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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	73 insects.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	51946	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	76 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	77 stalkborer*.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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	78 stalk borer*.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]	59	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	79 borer*.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]	2715	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	80 cornborer*.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]	6	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	82 noctuidae.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]	2442	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	83 Crambidae.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]	592	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	84 earworm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	311	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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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"/>	87 army 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]	51	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	91 O nubilalis.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]	188	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	93 D grandiosella.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]	8	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	94 D crambidoides.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	<a href="#">Save</a>	<a href="#">More</a>	

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<input type="checkbox"/>	96	H zea.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]	337	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	97	Spodoptera.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]	11491	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	98	S frugiperda.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]	638	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	99	S exigua.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]	546	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	100	Papaipema.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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	101	P nebris.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]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	103	E lignosellus.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]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	104	D saccharalis.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]	111	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	105	Striacosta.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	31	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	107 Agrotis.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]	305	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	108 A ipsilon.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]	83	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	109 Feltia.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]	11	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	110 F jaculifera.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	<a href="#">Save</a>	<a href="#">More</a>	
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<input type="checkbox"/>	113 ECB.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]	1092	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	114 SWCB.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]	8	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	115 SCSB.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]	77	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	116 CEW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	165	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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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"/>	117 FAW.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]	185	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	118 SCB.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]	1045	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	119 WBC.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]	18397	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	120 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119	217416	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	121 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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	122 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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	123 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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	124 control*.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]	5704609	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	125 121 or 122 or 123 or 124	7344089	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	126 ((Insect or insects or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or comborer* or corn borer* or noctuidae or Crambidae or earworm* or ear worm* or amyworm* or army worm* or cutworm* or cut worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoidea or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or ECB or SWCB	31520	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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or SCSB or CEW or FAW or SCB or WBC) adj2 (toleran\* or resistan\* or protect\* or control\*),mp.

<input type="checkbox"/>	127	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	128	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	129	glufosinate*.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]	512	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	130	gluphosinate*.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]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	131	Basta*.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]	935	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	132	Liberty*.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]	1997	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	133	Ignite*.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]	1768	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	134	Rely*.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]	89088	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	135	Finale*.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]	819	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	136	Challenge*.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]	734869	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	137	gl?phosate.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	4065	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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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"/>	138 gl?fosate.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]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	139 roundup*.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]	1277	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	140 round up*.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]	628	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	141 herbicide*.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]	27099	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	142 pesticide*.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]	63333	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	143 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142	906615	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	144 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	145 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	146 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	147 144 or 145 or 146	2332464	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	148 ((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	9037	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	149 126 or 127 or 128 or 148	46110	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	150 GMO*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	2162	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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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"/>	151 LMO*.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]	2538	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	152 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	153 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	154 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	155 genetic*.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]	4176654	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	156 living.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]	427267	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	157 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	158 155 or 156 or 157	4604815	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	159 modif*.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]	1202834	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	160 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	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	161 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	<a href="#">Display Results</a>	<a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	162 improv*.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]	2761173	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	163 engineer*.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]	286205	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	164 deriv*.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]	2043877	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	165 159 or 160 or 161 or 162 or 163 or 164	6291742	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	166 ((genetic* or living or biotech*) adj3 (modif* or transform* or manipul* or improv* or engineer* or deriv*)).mp.	164740	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	167 stack*.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]	48221	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	168 150 or 151 or 152 or 153 or 154 or 166 or 167	469961	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	169 149 and 168	6036	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	170 GMHT.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]	32	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	171 GEHT.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]	729	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	172 GMHR.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]	7	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	173 GEHR.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]	22	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	174 GMHTs.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	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	175 GEHTs.mp. [mp=title, abstract, original title, name of	39	Advanced			

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<input type="checkbox"/>	176	GMHRs.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	177	GEHRs.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]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	178	170 or 171 or 172 or 173 or 174 or 175 or 176 or 177	829	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	179	169 or 178	6832	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	180	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	181	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	182	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	183	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	184	180 or 181 or 182 or 183	258804	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	185	179 and 184	1497	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	186	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	187	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	188	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	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	189	186 or 187 or 188	22542	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	190	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	191	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	192	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	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	193	190 or 191 or 192	259027	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	194	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	841	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	195	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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	196	Btcom*.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	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	197	194 or 195 or 196	841	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	198	18 or 26 or 71 or 185 or 197	1687	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	199	limit 198 to yr="2020 -Current"	161	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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**Search terms used:**

- 1
- 162
- 111069-93-3
- 15?7
- 9023-88-6
- a
- ippsilon
- aaa24109
- agrisure\*
- agrotis
- army
- worm\*
- armyworm\*
- b
- thuringiensis
- bacillus
- basta\*
- biotech\*
- borer\*
- bt
- btcorn\*
- btmaize\*
- cew
- challenge\*
- control\*
- corn
- corn\*
- cornborer\*
- crambidae
- cry
- f\*
- 1f\*
- i
- if\*
- cry1
- cry1f\*
- cryi
- cryif\*
- cut
- cutworm\*
- d
- crambidoidea
- grandiosella
- saccharalis
- das
- i5?7
- das-?15?7-1
- das15?7
- das?15?71
- das15?7
- deriv\*
- diatraea
- e
- lignosellus
- e.c.
- 2.3.1.183
- 5.3.1.8
- ear
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1. [Assessing the effects of \*Bt\* maize on the non-target pest \*Rhopalosiphum maidis\* by demographic and life-history measurement endpoints.](#)

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2. [Inheritance patterns, cross-resistance and synergism in \*Spodoptera frugiperda\* \(\*Lepidoptera: Noctuidae\*\) resistant to emamectin benzoate.](#)

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3. [Managing resistance evolution to transgenic \*Bt\* maize in corn borers in Spain.](#)

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