

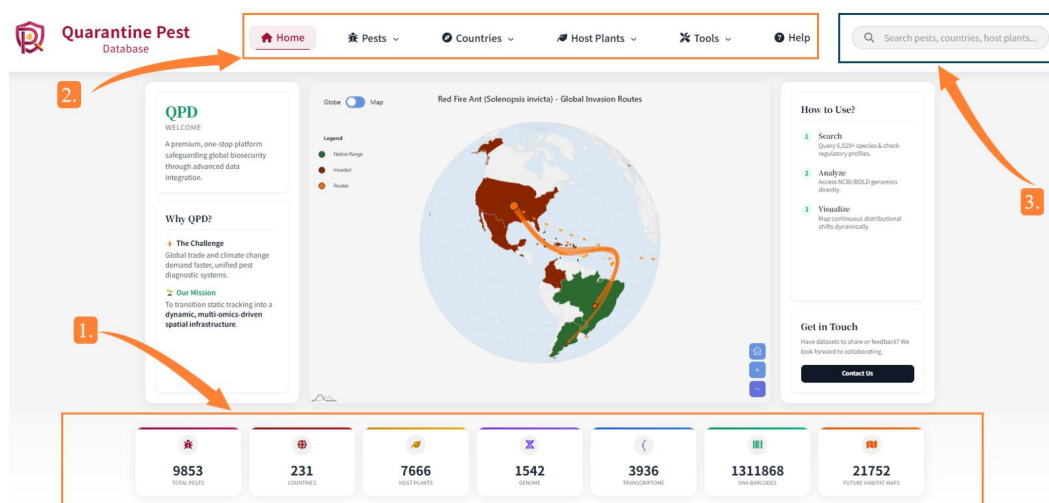
Quarantine Pest Database

- QPD Introduction and User Guide –

0. Home Page	1
1. Pest Pages	2
1.1 Pest Categories	2
1.2 Pest List	3
1.3 Pest Detail	4
1.4 Pest All Genomes	9
1.5 Pest All Transcriptomes	10
1.6 Pest All DNA Barcodes	11
2. Countries Pages	12
2.1 Country Overview	12
2.2 Country Regulation Management	13
2.3 Country Detail	14
2.4 Country All Notifications	19
3. Host Plant Pages	20
3.1 Host Plant Overview	20
3.2 Host Plant List	21
3.3 Host Plant Detail	22
3.4 Host Plant Taxonomy Tree	23
4. Tools Pages	24
4.1 DNA Barcodes BLAST	24
4.2Future Habitat Tracker	25

Quarantine Pest Database: A comprehensive resource for quarantine pests for professional use.

0. Home Page



1. QPD Species Quarantine Data Overview

QPD was designed to provide free access to the following information:

- 9,855 pest organism records with over 5,000 omics data entries, 1,311,868 DNA barcode records, and 19,364 photos.
- Notification and regulation files from 231 countries and regions, and statistical lists on the presence of quarantine species in each country or region.
- 7,666 host plant records with 6,818 photos.
- 21,752 projected future habitat maps for pests up to the 22nd century.

Click any item to access the corresponding page.

2. Main Menu Bar

The main bar menu provides rapid access to:

- Home Page, click to return to the home page.
- Pests Pages, including organism details and omics data.
- Countries Pages, including notification and regulation files.
- Host Plants Page, including host plant details.
- Tools Pages, including DNA Barcode BLAST and Future Habitat Tracker.
- Help Page, click to download this user guide.

3. Browser

Enter a scientific or common name of a pest or host plant to access the detail page. You can also enter a country or region name to access the detail page.

1. Pest Pages

1.1 Pest Categories

Quarantine Pest Database

[Home](#)
[Pests](#)
[Countries](#)
[Host Plants](#)
[Tools](#)

1.

Pests' Categories

Arthropods
5570 pests

Fungal organisms
1546 pests

Weeds
1075 pests

Virus/Viroid
809 pests

Prokaryote
295 pests

Molluscs
271 pests

Nematodes
263 pests

Protozoa
12 pests

Vertebrates
9 pests

Flatworms
1 pests

2.

Top 300 Most Frequently Regulated Quarantine Pests

SCIENTIFIC NAME	PHYLUM	CLASS	CATEGORY	COUNTRY COUNT
<i>Synchytrium endobioticum</i>	Chytridiomycota	Chytridiomycetes	Fungal organisms	96
<i>Globodera rostochiensis</i>	Nematoda	Chromadorea	Nematodes	96
<i>Globodera pallida</i>	Nematoda	Chromadorea	Nematodes	87
<i>Rhagoletis pomonella</i>	Arthropoda	Insecta	Arthropods	86
<i>Anastrepha ludens</i>	Arthropoda	Insecta	Arthropods	86
<i>Ditylenchus dipsaci</i>	Nematoda	Chromadorea	Nematodes	82
<i>Leptinotarsa decemlineata</i>	Arthropoda	Insecta	Arthropods	82
<i>Ceratitis capitata</i>	Arthropoda	Insecta	Arthropods	81
<i>Popillia japonica</i>	Arthropoda	Insecta	Arthropods	80
<i>Conotrachelus nenuphar</i>	Arthropoda	Insecta	Arthropods	79
<i>Ralstonia solanacearum</i>	Pseudomonadota	Betaproteobacteria	Prokaryote	78
<i>Erwinia amylovora</i>	Pseudomonadota	Gamma proteobacteria	Prokaryote	76
<i>Tilletia indica</i>	Basidiomycota	Exobasidiomycetes	Fungal organisms	76
<i>Phymatotrachelus omnivora</i>	Ascomycota	Pezizomycetes	Fungal organisms	75
<i>Ditylenchus destructor</i>	Nematoda	Chromadorea	Nematodes	75
<i>Bactrocera tryoni</i>	Arthropoda	Insecta	Arthropods	74
<i>Thecaphora solani</i>	Basidiomycota	Ustilaginomycetes	Fungal organisms	73
<i>Meloidogyne chitwoodi</i>	Nematoda	Chromadorea	Nematodes	72
<i>Bursaphelenchus xylophilus</i>	Nematoda	Chromadorea	Nematodes	72
<i>Xylophilus ampelinus</i>	Pseudomonadota	Betaproteobacteria	Prokaryote	70

click

click

Showing entries 1 to 20 of 300 in total

Page 1 of 15

>

>>

1. Pest Categories

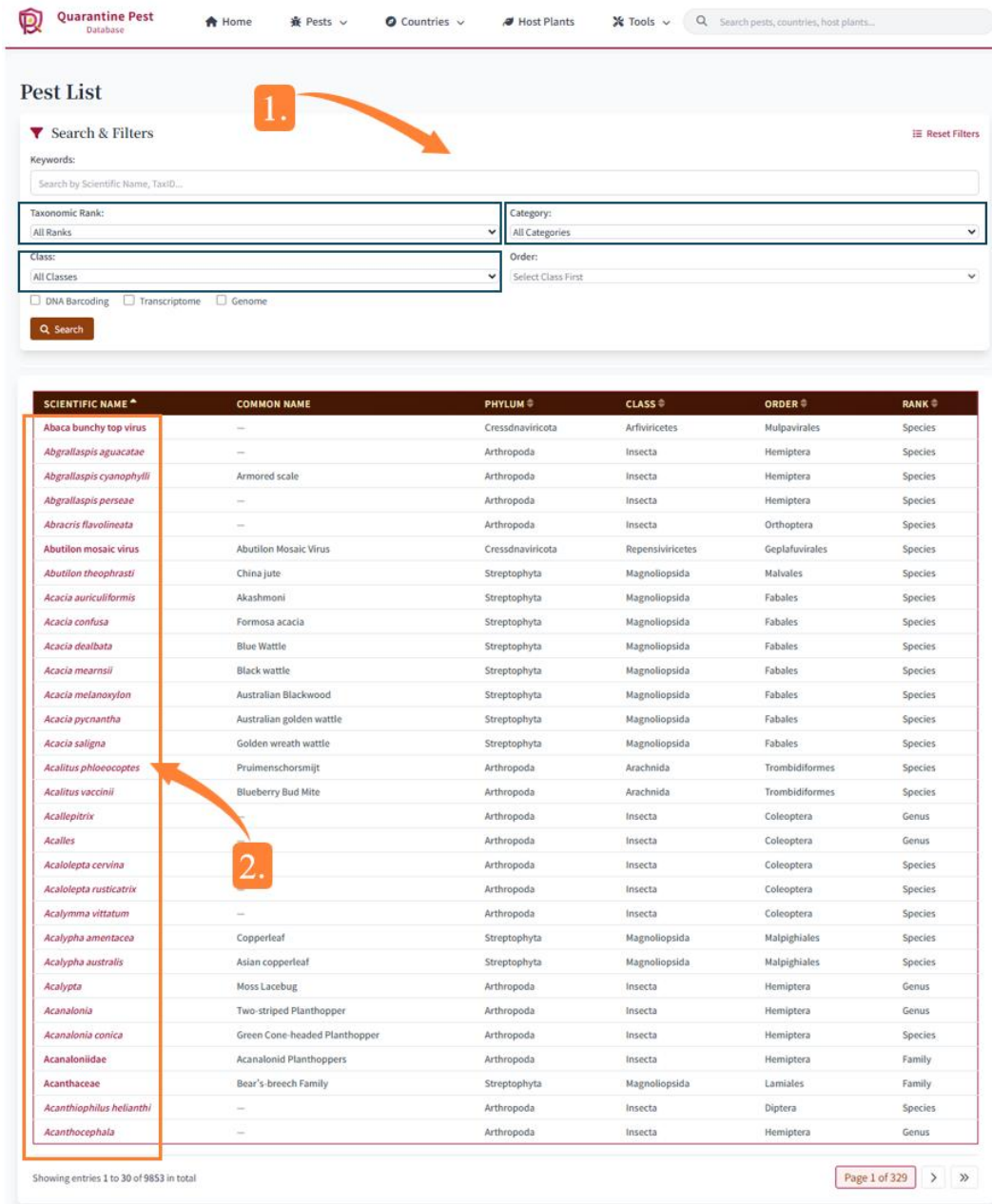
Pests in QPD are classified into 10 categories by phylum and class. Click an image to access the pest information page for the corresponding category.

2. Top 300 Most Frequently Regulated Quarantine Pests

QPD has compiled a list of the 300 most regulated pest species across countries and regions. You can view them here and quickly find your target species. Click a scientific name to access the pests detail page. Click a category name to expand the pest information page under that category.

1.2 Pest List

You will be directed to this page by clicking the pest category in other pages.



Pest List

Search & Filters Reset Filters

Keywords:
Search by Scientific Name, TaxID...

Taxonomic Rank: All Ranks
Category: All Categories

Class: All Classes
Order: Select Class First

☐ DNA Barcoding ☐ Transcriptome ☐ Genome

Search

SCIENTIFIC NAME ^	COMMON NAME	PHYLUM	CLASS	ORDER	RANK
Abaca bunchy top virus	—	Cressdnaviricota	Arfiviricetes	Mulpavirales	Species
Abgrallaspis aguacatae	—	Arthropoda	Insecta	Hemiptera	Species
Abgrallaspis cyanophylli	Armored scale	Arthropoda	Insecta	Hemiptera	Species
Abgrallaspis perseae	—	Arthropoda	Insecta	Hemiptera	Species
Abraicris flavolineata	—	Arthropoda	Insecta	Orthoptera	Species
Abutilon mosaic virus	Abutilon Mosaic Virus	Cressdnaviricota	Repensiviricetes	Gepiflavirales	Species
Abutilon theophrasti	China jute	Streptophyta	Magnoliopsida	Malvales	Species
Acacia auriculiformis	Akashmoni	Streptophyta	Magnoliopsida	Fabales	Species
Acacia confusa	Formosa acacia	Streptophyta	Magnoliopsida	Fabales	Species
Acacia dealbata	Blue Wattle	Streptophyta	Magnoliopsida	Fabales	Species
Acacia mearsii	Black wattle	Streptophyta	Magnoliopsida	Fabales	Species
Acacia melanoxylon	Australian Blackwood	Streptophyta	Magnoliopsida	Fabales	Species
Acacia pycnantha	Australian golden wattle	Streptophyta	Magnoliopsida	Fabales	Species
Acacia saligna	Golden wreath wattle	Streptophyta	Magnoliopsida	Fabales	Species
Acalitus phloeocoptes	Pruimenschorsmijt	Arthropoda	Arachnida	Trombidiformes	Species
Acalitus vaccinii	Blueberry Bud Mite	Arthropoda	Arachnida	Trombidiformes	Species
Acallepatrix	—	Arthropoda	Insecta	Coleoptera	Genus
Acalles	—	Arthropoda	Insecta	Coleoptera	Genus
Acalolepta cervina	—	Arthropoda	Insecta	Coleoptera	Species
Acalolepta rusticatrix	—	Arthropoda	Insecta	Coleoptera	Species
Acalymma vittatum	—	Arthropoda	Insecta	Coleoptera	Species
Acalypha amentacea	Copperleaf	Streptophyta	Magnoliopsida	Malpighiales	Species
Acalypha australis	Asian copperleaf	Streptophyta	Magnoliopsida	Malpighiales	Species
Acalypta	Moss Lacebug	Arthropoda	Insecta	Hemiptera	Genus
Acanalonia	Two-striped Planthopper	Arthropoda	Insecta	Hemiptera	Genus
Acanalonia conica	Green Cone-headed Planthopper	Arthropoda	Insecta	Hemiptera	Species
Acanaloniidae	Acanaloniid Planthoppers	Arthropoda	Insecta	Hemiptera	Family
Acanthaceae	Bear's-breech Family	Streptophyta	Magnoliopsida	Lamiales	Family
Acanthophilus helianthi	—	Arthropoda	Insecta	Diptera	Species
Acanthocephala	—	Arthropoda	Insecta	Hemiptera	Genus

Showing entries 1 to 30 of 9853 in total

Page 1 of 329

1. Search & Filters

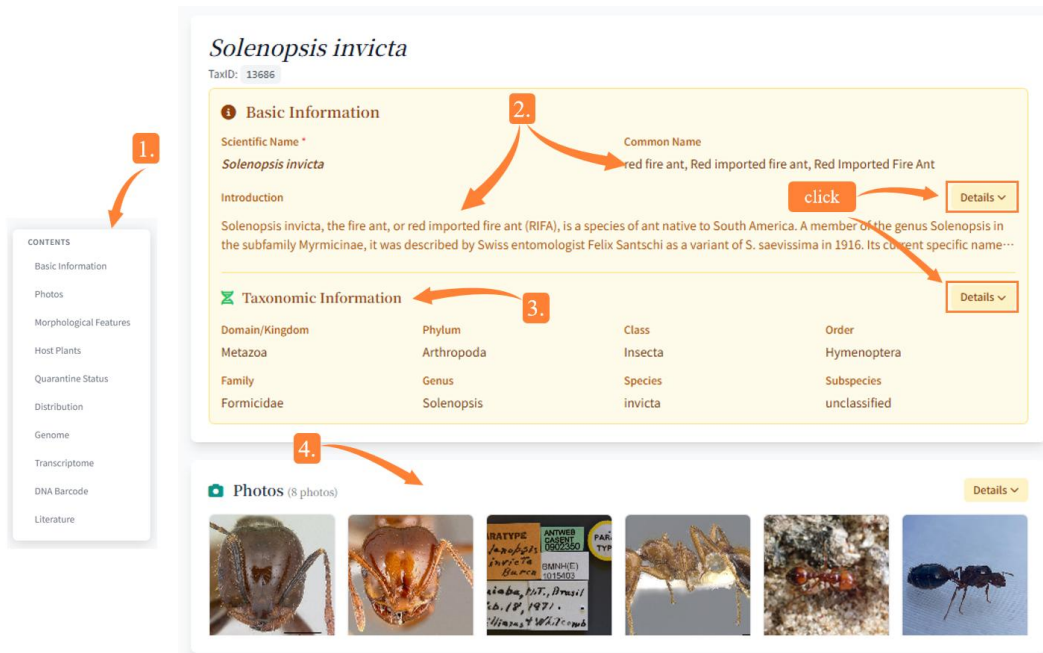
QPD provides six filtering options to help narrow down your search.

- Keywords: Filter by scientific name or taxid (from NCBI).
- Taxonomic Rank: Filter by taxonomic rank, from class to under_species ranks.
- Category: Filter by category.
- Class: Filter by class.
- Omics data: Filter by omics data, including DNA Barcoding/Transcriptome/Genome.

2. Click a scientific name to access the pest detail page.

1.3 Pest Detail

You will be directed to this page by clicking the pest scientific name on other pages.



The screenshot shows the pest detail page for *Solenopsis invicta* (TaxID: 13686). A sidebar on the left contains a 'CONTENTS' menu with 11 items. The main content area is divided into sections: 'Basic Information' (with 'Scientific Name' and 'Common Name'), 'Introduction' (with a paragraph and a 'click' button), 'Taxonomic Information' (with a table of classification), and 'Photos' (with 8 photos). Numbered annotations point to: 1. The 'CONTENTS' menu, 2. The 'Basic Information' section, 3. The 'Taxonomic Information' table, and 4. The 'Photos' section.

CONTENTS

- Basic Information
- Photos
- Morphological Features
- Host Plants
- Quarantine Status
- Distribution
- Genome
- Transcriptome
- DNA Barcode
- Literature

Basic Information

Scientific Name *
Solenopsis invicta

Common Name
red fire ant, Red imported fire ant, Red Imported Fire Ant

Introduction

Solenopsis invicta, the fire ant, or red imported fire ant (RIFA), is a species of ant native to South America. A member of the genus Solenopsis in the subfamily Myrmicinae, it was described by Swiss entomologist Felix Santschi as a variant of *S. saevissima* in 1916. Its current specific name...

Taxonomic Information

Domain/Kingdom	Phylum	Class	Order
Metazoa	Arthropoda	Insecta	Hymenoptera
Family	Genus	Species	Subspecies
Formicidae	Solenopsis	invicta	unclassified

Photos (8 photos)

1. Contents

Each Pest-Detail page usually includes 11 sections:

- Basic Information
- Taxonomic Information
- Photos
- Morphological Features
- Host Plants
- Quarantine Status
- Distribution
- Genome
- Transcriptome
- DNA Barcode
- Literature

Use the contents guide to jump directly to the target section.

2. Basic Information

For each pest included in QPD, basic information was collected from [Wikipedia](#), [GBIF](#), and [EPPO Global Database](#), and curated by QPD. Click "Details" to view detailed basic information for the corresponding pest.

3. Taxonomic Information

For each pest included in QPD, taxonomic information was collected from [NCBI](#) and curated by QPD. Click "Details" to view detailed taxonomic information for the corresponding pest.

4. Photos

QPD collected available pest photos (no more than five photos per pest) from [Wikipedia](#) and [iNaturalist](#). Copyright information is provided for each image. Click the image to view the full-size version.


Photos (5 photos)
Details ▾


Morphological Features
5.

Head capsule orange-brown, with lateral margins parallel, converging to about 85% of width at anterior; vertex and frons slightly depressed and slightly rugose. Head and pronotum covered with short (0.1–0.15 mm) setae; pronotum also with medium-long setae (0.15–0.25 mm). Pronotum crescent-shaped, posterior margin evenly rounded to anterolateral corners. Mandibles with robust basal hump about 3/4 length from apical points.

Source: GBIF
Life Stage: Not specified
Source Type: Taxonomic treatment

Citation:
 Plazi taxonomic treatment
Reference URL: <https://treatment.plazi.org/id/57FDAF67EBEE98CCA3E3AE87C87746F4>

5. Morphological Features

QPD collected over 1,500 pest morphological records from [Plazi TreatmentBank](#), [OpenAlex](#), [Crossref](#) and [BHL](#), and used LLMs with web search tools ([Serper](#)) to curate and synthesize the information into complete descriptions.


Host Plants (5 host plants)
6.

Data source: EPPO Global Database and relevant literature.

SCIENTIFIC NAME	STATUS
Arachis hypogaea	Host
Citrus reticulata	Host
Glycine max	Host
Solanum tuberosum	Host
Zea mays	Host

click


Quarantine Status (37 records)
7.

Data sources: IPPC website and national quarantine websites; verified by human review and large language models.

COUNTRY	STATUS	YEAR ADDED
Austria	IAS of Union concern	2022
Belgium	IAS of Union concern	2022
Bulgaria	IAS of Union concern	2022
China	Quarantine pests	2021
Cyprus	IAS of Union concern	2022
Czechia	IAS of Union concern	2022
Germany	IAS of Union concern	2022
Denmark	IAS of Union concern	2022
Spain	IAS of Union concern	2022
Estonia	IAS of Union concern	2022

click

<< < Previous Page 1 of 4 Next > >>

6. Host Plants

For each pest included in the database, QPD lists the host plants for this pest, with current status information sourced from the [EPPO Global Database](#) and relevant literature. Click a scientific name of host plant to access its detail page.

7. Quarantine Status

For each pest included in the database, QPD lists the countries and regions where this pest is subject to quarantine, with current status information sourced from the [IPPC](#) and national quarantine websites. Click a country name to access the country detail page.

8. Distribution (32 countries)

Distribution data are sourced from the EPPO Global Database and the GBIF database.

28 Present 4 Absent 0 Unknown/Other

COUNTRY	STATUS	STATE
Antigua and Barbuda	Present	—
Angola	Present	—
Albania	Present	—
Algeria	Present	—
Argentina	Present	—
Australia	Present	View
Australia	Absent	View
Bahamas	Present	—
Brazil	Present	View
China	Present	—

Page 1 of 4

Distribution Map (Latitude and longitude coordinates sourced from GBIF)



8. Distribution

For each pest included in the database, QPD lists the countries and regions where this pest has been recorded, with relevant information sourced from the [EPPO Global Database](#) and [GBIF](#). Click a country name to access the country detail page.

Based on the latitude and longitude coordinates of pest distribution sites sourced from [GBIF](#), QPD generated a "Distribution Map" to visually illustrate the global distribution of the pest. Click on the spots to zoom in on the distribution point.

 Genomes (7 records) 9.

Data source: NCBI.

ASSEMBLY ACCESSION	ASSEMBLY LEVEL	GENOME SIZE (MB)	CONTIG N50 (KB)	SCAFFOLD N50 (KB)	BUSCO %	DOWNLOADS	ACTIONS
GCF_016802725.1	Chromosome	-	-	-	-	 FASTA  GFF3	 Details
GCF_000188075.2	Scaffold	-	-	-	-	 FASTA  GFF3	 Details
GCA_018691235.1	Chromosome	-	-	-	-	 FASTA  GFF3	 Details
GCA_010367695.1	Chromosome	-	-	-	-	 FASTA  GFF3	 Details
GCA_009650705.1	Chromosome	-	-	-	-	 FASTA  GFF3	 Details
GCA_009299975.1	Chromosome	-	-	-	-	 FASTA  GFF3	 Details
GCA_009299965.1	Chromosome	-	-	-	-	 FASTA  GFF3	 Details

10. Transcriptomes (3 records)

Data source: NCBI.

RUN ID	BIOPROJECT	EXPERIMENT ID	STUDY ID	READ COUNT	LOCATION	ACTIONS
SRR3708771	PRJNA1417262	SRX32034166	SRP674236	22578509	China:NanNing	 Download  Details
SRR3708770	PRJNA1417262	SRX32034167	SRP674236	18615387	China:NanNing	 Download  Details
SRR3708769	PRJNA1417262	SRX32034168	SRP674236	19801614	China:NanNing	 Download  Details

11. DNA Barcode (367 records)

Data source: BOLD.

PROCESS ID	BIN	MARKER	LENGTH	COUNTRY	DATE	LAT/LON	SEQUENCE
USFOR283-10	BOLD:AAG5042	COI-5P	621	United States	2009-05-23	30.556, -100.81	 View
USFOR282-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-23	30.556, -100.81	 View
USFOR278-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-23	30.556, -100.81	 View
USFOR277-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-23	30.556, -100.81	 View
USFOR275-10	BOLD:AAG5042	COI-5P	632	United States	2009-05-23	30.556, -100.81	 View
USFOR274-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-23	30.556, -100.81	 View
USFOR272-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-23	30.556, -100.81	 View
USFOR214-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-22	29.7873, -98.4166	 View
USFOR211-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-22	29.7873, -98.4166	 View
USFOR210-10	BOLD:AAG5042	COI-5P	658	United States	2009-05-22	29.7873, -98.4166	 View

< Page 1 of 37 > >>

9. Genomes

For each pest included in the database, available genome assemblies were collected from [NCBI](#) and curated by QPD. QPD displays the Assembly Level, Genome Size, Contig N50, Scaffold N50 and BUSCO scores for each genome assembly, allowing users to quickly browse these information. Click "Details" to view detailed information, or click "FASTA"/"GFF" to download the corresponding FASTA or GFF file.

10. Transcriptomes

For each pest included in the database, available transcriptome sequencing records (no more than 3 records per pest)

were collected from [NCBI](#) and curated by QPD. Click "*Details*" to view detailed information, or click "*Download*" to download the corresponding sequencing data.

11. DNA Barcode

For each pest included in the database, available DNA barcode records were collected from [BOLD](#) and curated by QPD. QPD displays comprehensive information for each DNA barcode, including the Process ID, Barcode Index Number(BIN), marker, sequence length, country, collection date, geographic coordinates, and nucleotide sequence (Click "*View*" to view the complete sequence), providing a rapid identification resource for the target pest.

 Literature 12. click

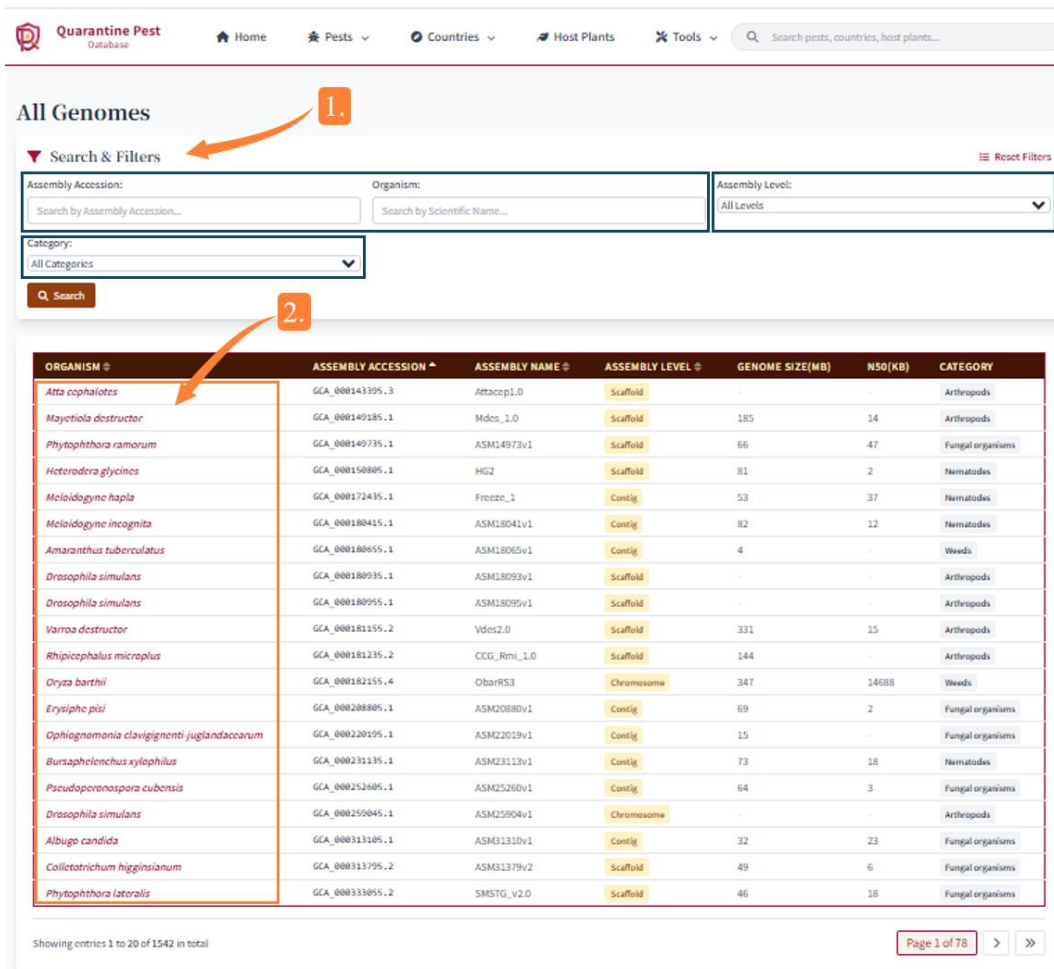
TITLE	JOURNAL	YEAR	PMID/DOI
Plant derived biopesticides for controlling imported fire ants (<i>Solenopsis</i> spp.): a comprehensive review on biochemical traits, promising alternatives, and mechanisms of action.	Front Plant Sci	2026	PMID: 42519604 DOI: 10.3389/fpls.2026.1848932
Farmers' Perceptions of the Agricultural, Economic, and Health Impacts of Fire Ants in the Brazilian Atlantic Forest.	Insects	2026	PMID: 42505809 DOI: 10.3390/insects17070698
Viral influence on chemical communication in eusocial insects: insights and emerging research priorities.	J Insect Sci	2026	PMID: 42486481 DOI: 10.1093/jisesa/ieag063
First Records and Expanding Distribution of a Small Big-Headed Ant, <i>Pheidole parva</i> , in Florida, USA.	Neotrop Entomol	2026	PMID: 42479329 DOI: 10.1007/s13744-026-01416-4
The neuronal A-to-I RNA editome of <i>Solenopsis invicta</i> expands conserved recoding repertoire between two ant species.	BMC Genomics	2026	PMID: 42469614 DOI: 10.1186/s12864-026-13199-4
LC-MS-Based Untargeted Metabolomics Reveals the Effects of Pyrethrins-Mediated Silver Nanoparticles on the Metabolism of <i>Solenopsis invicta</i> .	Int J Mol Sci	2026	PMID: 42450093 DOI: 10.3390/ijms27135821
How hitchhiking by fire ants, <i>Solenopsis invicta</i> (Hymenoptera: Formicidae), challenges efforts for their eradication in Australia.	J Econ Entomol	2026	PMID: 42435037 DOI: 10.1093/jee/toag205
To repel the red imported fire ant: a review of progress, limitations, and prospects.	Curr Opin Insect Sci	2026	PMID: 42385879 DOI: 10.1016/j.cois.2026.101572
Genetic Structure Analyses of Red Imported Fire Ants in Zhejiang Reveal Multiple Introduction Sources in Eastern China.	Insects	2026	PMID: 42355330 DOI: 10.3390/insects17060597
Agricultural residue as fire ant (Hymenoptera: Formicidae) bait: effect of carrier type and oil content on transport behavior and control effectiveness.	J Econ Entomol	2026	PMID: 42348453 DOI: 10.1093/jee/toag178

< Page 1 of 5 > >>

12. Literature

For each pest included in the database, relevant literature records were collected from PubMed and curated by QPD. QPD displays the title, journal, publication year, and PMID/DOI for each article, and provides a real-time update service to track the latest publications related to this pest. Click PMID or DOI to access the corresponding article page.

1.4 Pest All Genomes



All Genomes

Search & Filters Reset Filters

Assembly Accession: Organism: Assembly Level:

Category:

Search

ORGANISM	ASSEMBLY ACCESSION	ASSEMBLY NAME	ASSEMBLY LEVEL	GENOME SIZE(MB)	N50(KB)	CATEGORY
<i>Atta cephalotes</i>	GCA_000143395.3	Attacep1.0	Scaffold	-	-	Arthropods
<i>Mayetiola destructor</i>	GCA_000149185.1	Mdes_1.0	Scaffold	185	14	Arthropods
<i>Phytophthora ramorum</i>	GCA_000149735.1	ASM14973v1	Scaffold	66	47	Fungal organisms
<i>Heterodera glycines</i>	GCA_000150805.1	HG2	Scaffold	81	2	Nematodes
<i>Meloidogyne hapla</i>	GCA_000172435.1	Freeze_1	Contig	53	37	Nematodes
<i>Meloidogyne incognita</i>	GCA_000180415.1	ASM18041v1	Contig	82	12	Nematodes
<i>Amaranthus tuberculatus</i>	GCA_000180655.1	ASM18065v1	Contig	4	-	Weeds
<i>Drosophila simulans</i>	GCA_000180935.1	ASM18093v1	Scaffold	-	-	Arthropods
<i>Drosophila simulans</i>	GCA_000180955.1	ASM18095v1	Scaffold	-	-	Arthropods
<i>Varmoa destructor</i>	GCA_000181155.2	Vdes2.0	Scaffold	331	15	Arthropods
<i>Rhipicephalus microplus</i>	GCA_000182135.2	CCG_Rmi_1.0	Scaffold	144	-	Arthropods
<i>Oryza barthii</i>	GCA_000182155.4	ObarRS3	Chromosome	347	14688	Weeds
<i>Erysiphe pisi</i>	GCA_000208805.1	ASM20880v1	Contig	69	2	Fungal organisms
<i>Ophiognomonia clavignenti juglandacearum</i>	GCA_000220195.1	ASM22019v1	Contig	15	-	Fungal organisms
<i>Bursaphelenchus xylophilus</i>	GCA_000231135.1	ASM23113v1	Contig	73	18	Nematodes
<i>Pseudoperonospora cubensis</i>	GCA_000252605.1	ASM25260v1	Contig	64	3	Fungal organisms
<i>Drosophila simulans</i>	GCA_000259045.1	ASM25904v1	Chromosome	-	-	Arthropods
<i>Albugo candida</i>	GCA_000313105.1	ASM31310v1	Contig	32	23	Fungal organisms
<i>Colletotrichum higginsianum</i>	GCA_000313795.2	ASM31379v2	Scaffold	49	6	Fungal organisms
<i>Phytophthora lateralis</i>	GCA_000333055.2	SMSTG_v2.0	Scaffold	46	18	Fungal organisms

Showing entries 1 to 20 of 1542 in total

Page 1 of 78

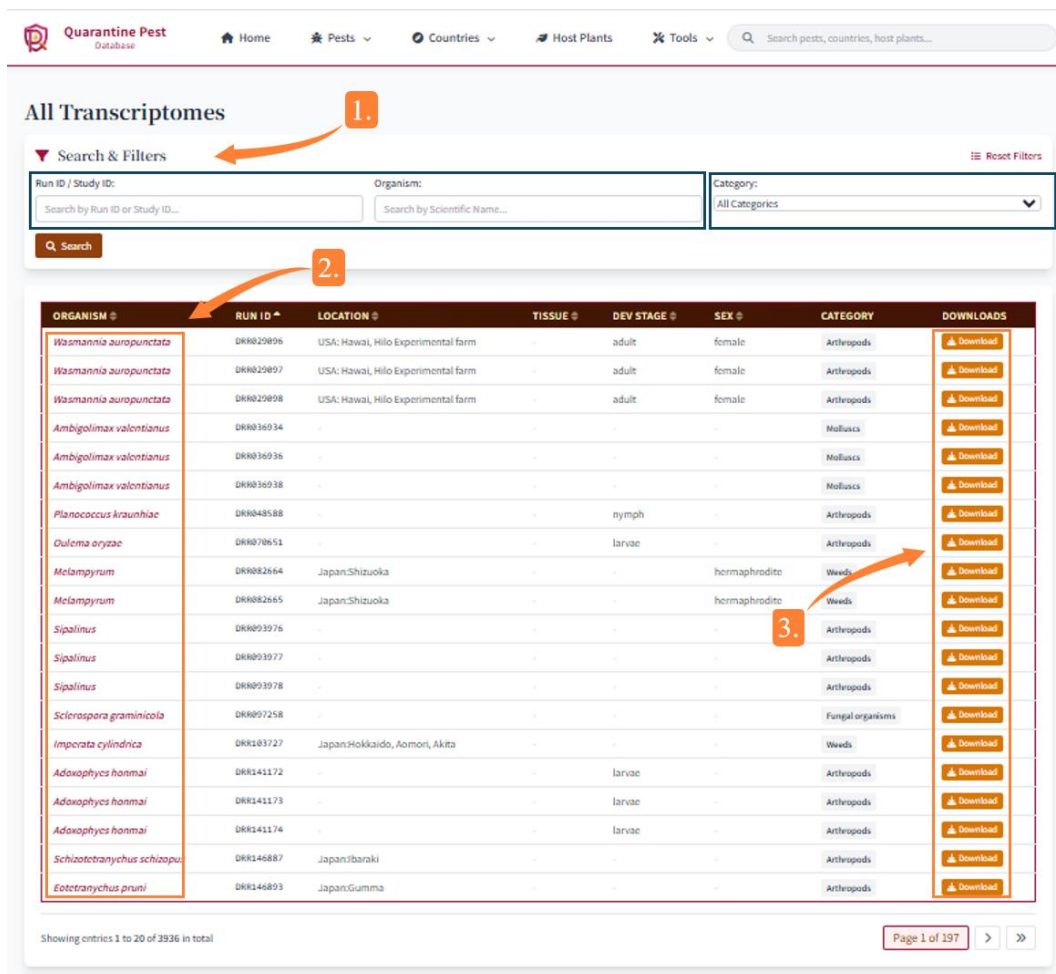
1. Search & Filters

QPD provides four filtering options to help find the target pest genome assemblies.

- Assembly Accession: Filter by Assembly Accession.
- Organism: Filter by pest scientific name.
- Assembly Level: Filter by Assembly Level, including Complete Genome, Chromosome, Scaffold and Contig. (Genome assemblies below the Contig level were excluded from QPD.)
- Category: Filter by category (mentioned in Section 1.1).

2. Click a scientific name to access the pest detail page, where the genome assembly can be downloaded.

1.5 Pest All Transcriptomes



All Transcriptomes

Search & Filters Reset Filters

Run ID / Study ID: Organism: Category:

ORGANISM	RUN ID	LOCATION	TISSUE	DEV STAGE	SEX	CATEGORY	DOWNLOADS
<i>Wasmannia auropunctata</i>	DRK020896	USA: Hawaii, Hilo Experimental farm	-	adult	female	Arthropoda	Download
<i>Wasmannia auropunctata</i>	DRK020897	USA: Hawaii, Hilo Experimental farm	-	adult	female	Arthropoda	Download
<i>Wasmannia auropunctata</i>	DRK020898	USA: Hawaii, Hilo Experimental farm	-	adult	female	Arthropoda	Download
<i>Ambigolimax valentianus</i>	DRK036934	-	-	-	-	Molluscs	Download
<i>Ambigolimax valentianus</i>	DRK036936	-	-	-	-	Molluscs	Download
<i>Ambigolimax valentianus</i>	DRK036938	-	-	-	-	Molluscs	Download
<i>Planococcus kraunhiae</i>	DRK048588	-	-	nymph	-	Arthropoda	Download
<i>Oulema eryae</i>	DRK070651	-	-	larvae	-	Arthropoda	Download
<i>Melampyrum</i>	DRK082664	Japan:Shizuoka	-	-	hermaphrodite	Weeds	Download
<i>Melampyrum</i>	DRK082665	Japan:Shizuoka	-	-	hermaphrodite	Weeds	Download
<i>Sipalinus</i>	DRK093976	-	-	-	-	Arthropoda	Download
<i>Sipalinus</i>	DRK093977	-	-	-	-	Arthropoda	Download
<i>Sipalinus</i>	DRK093978	-	-	-	-	Arthropoda	Download
<i>Sclerospora graminicola</i>	DRK097258	-	-	-	-	Fungal organisms	Download
<i>Imperata cylindrica</i>	DRK103727	Japan:Hokkaido, Aomori, Akita	-	-	-	Weeds	Download
<i>Adoxophyes honmai</i>	DRK141172	-	-	larvae	-	Arthropoda	Download
<i>Adoxophyes honmai</i>	DRK141173	-	-	larvae	-	Arthropoda	Download
<i>Adoxophyes honmai</i>	DRK141174	-	-	larvae	-	Arthropoda	Download
<i>Schizotetranychus schizopus</i>	DRK146887	Japan:Ibaraki	-	-	-	Arthropoda	Download
<i>Eotetranychus pruni</i>	DRK146893	Japan:Gumma	-	-	-	Arthropoda	Download

Showing entries 1 to 20 of 3936 in total

Page 1 of 197

1. Search & Filters

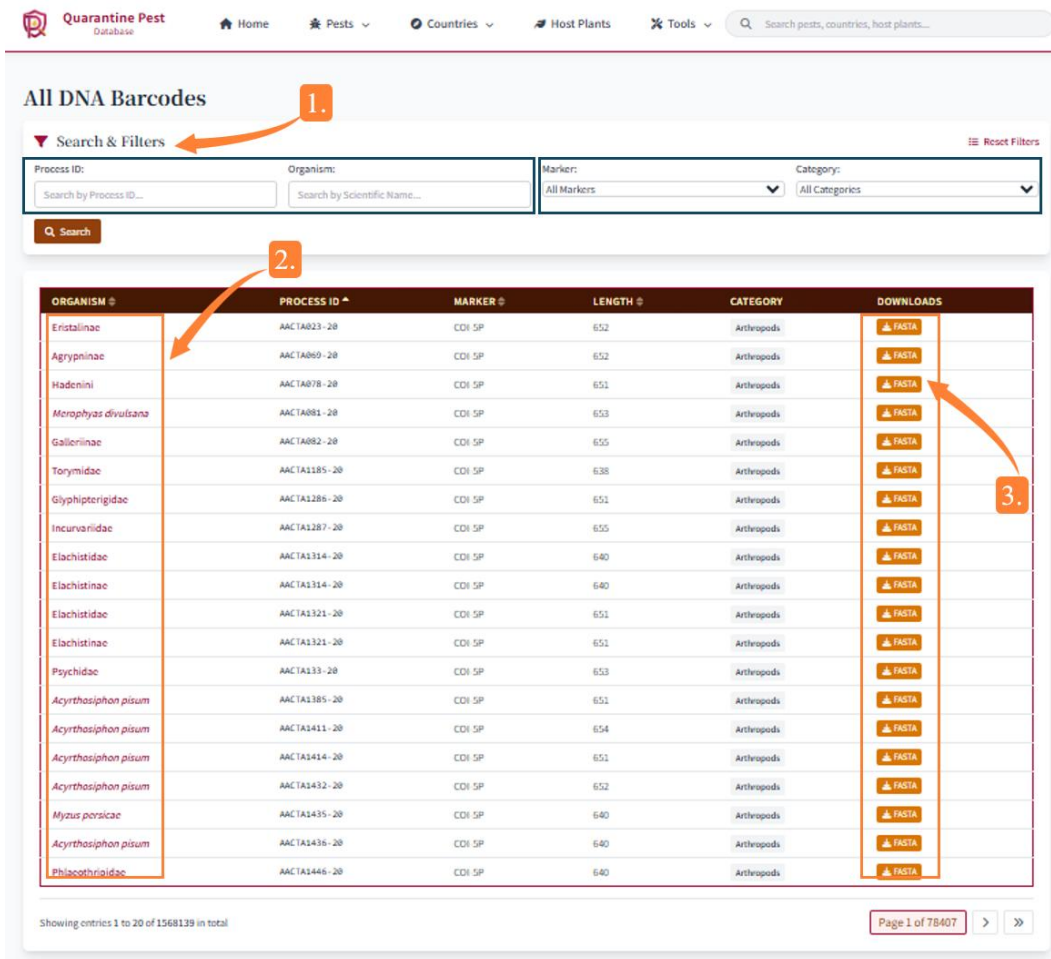
QPD provides three filtering options to help find the target pest transcriptome sequencing records.

- Run ID/Study ID: filtering by Run ID or Study ID.
- Organism: Filter by pest scientific name.
- Category: Filter by category (mentioned in 1.1).

2. Click a scientific name to access the pests detail page.

3. Click "Download" to download the corresponding sequencing data.

1.6 Pest All DNA Barcodes



All DNA Barcodes

Search & Filters

Process ID: Organism: Marker: Category:

ORGANISM	PROCESS ID	MARKER	LENGTH	CATEGORY	DOWNLOADS
Eristaliniae	AACTA023-20	CDI 5P	652	Arthropods	FASTA
Agrypninae	AACTA069-20	CDI 5P	652	Arthropods	FASTA
Hadenini	AACTA078-20	CDI 5P	651	Arthropods	FASTA
Morophyas divulsana	AACTA081-20	CDI 5P	653	Arthropods	FASTA
Galleriinae	AACTA082-20	CDI 5P	655	Arthropods	FASTA
Torymidae	AACTA1185-20	CDI 5P	638	Arthropods	FASTA
Glyptopterigidae	AACTA1286-20	CDI 5P	651	Arthropods	FASTA
Incurvaridae	AACTA1287-20	CDI 5P	655	Arthropods	FASTA
Elachistidae	AACTA1314-20	CDI 5P	640	Arthropods	FASTA
Elachistinae	AACTA1314-20	CDI 5P	640	Arthropods	FASTA
Elachistidae	AACTA1321-20	CDI 5P	651	Arthropods	FASTA
Elachistinae	AACTA1321-20	CDI 5P	651	Arthropods	FASTA
Psychidae	AACTA133-20	CDI 5P	653	Arthropods	FASTA
Acyrtosiphon pisum	AACTA1385-20	CDI 5P	651	Arthropods	FASTA
Acyrtosiphon pisum	AACTA1411-20	CDI 5P	654	Arthropods	FASTA
Acyrtosiphon pisum	AACTA1414-20	CDI 5P	651	Arthropods	FASTA
Acyrtosiphon pisum	AACTA1432-20	CDI 5P	652	Arthropods	FASTA
Myzus persicae	AACTA1435-20	CDI 5P	640	Arthropods	FASTA
Acyrtosiphon pisum	AACTA1436-20	CDI 5P	640	Arthropods	FASTA
Phlaeothripidae	AACTA1446-20	CDI 5P	640	Arthropods	FASTA

Showing entries 1 to 20 of 1568139 in total

Page 1 of 78407

1. Search & Filters

QPD provides four filtering options to help find the target pest DNA barcode records.

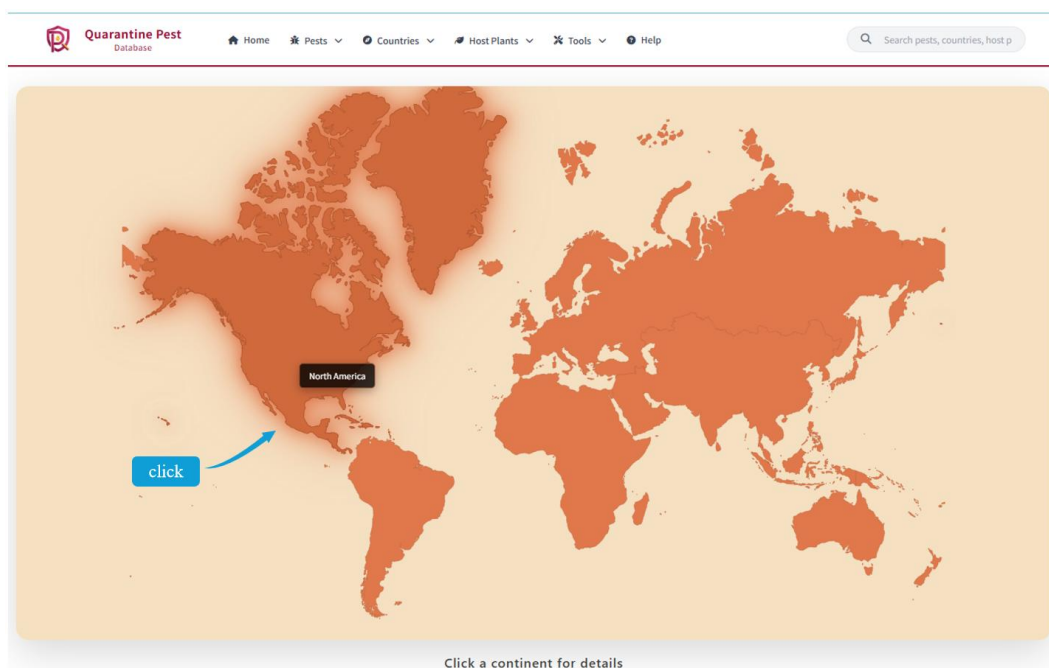
- Process ID: filtering by Process ID (unique specimen barcode identifier assigned by [BOLD](#)).
- Organism: Filter by pest scientific name.
- Marker: Filter by Marker (genetic marker used for DNA barcoding).
- Category: Filter by category (mentioned in 1.1).

2. Click a scientific name to access the pests detail page.

3. Click "Download" to download the corresponding DNA barcode FASTA file.

2. Countries Pages

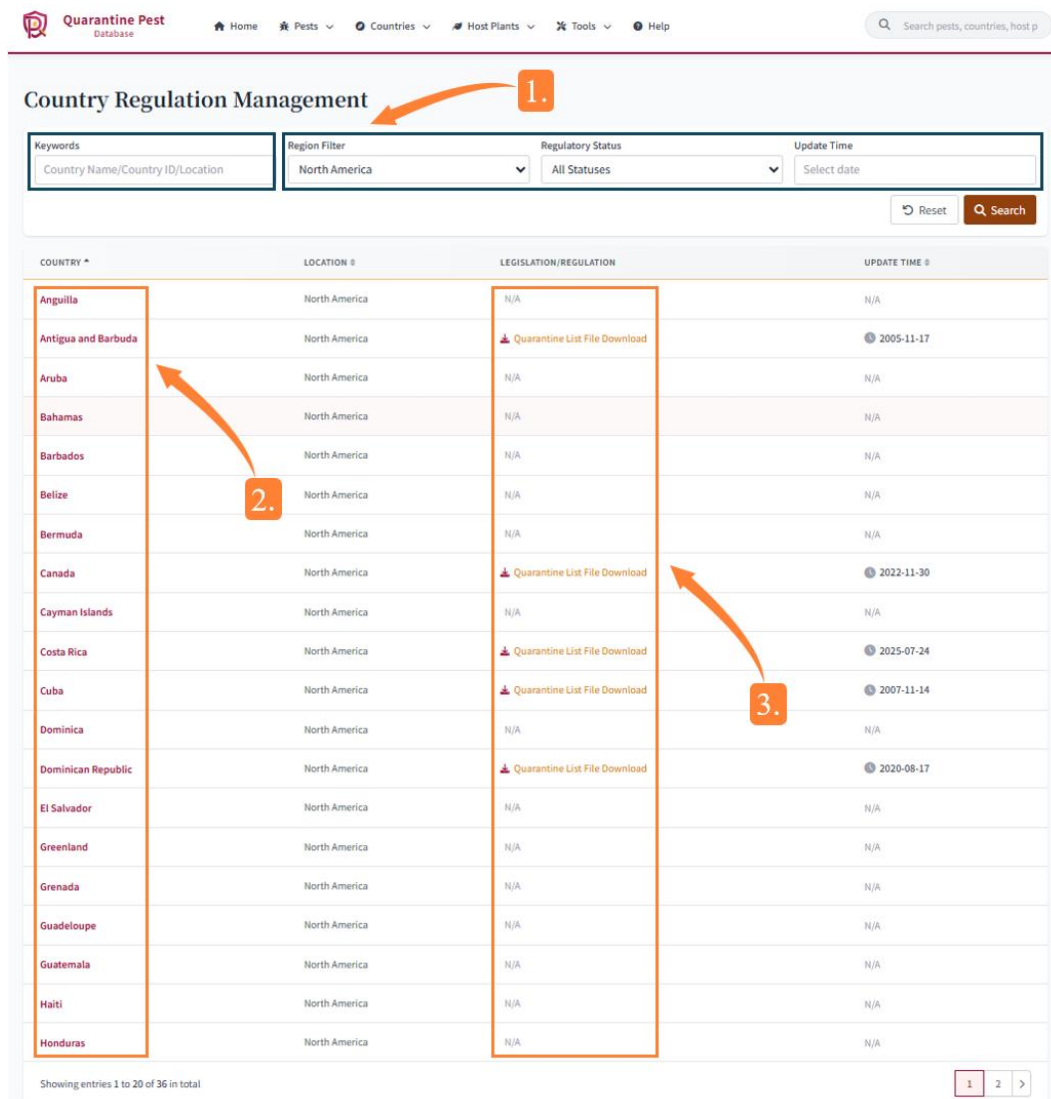
2.1 Country Overview



Based on the world map, QPD divides 231 countries and regional organizations into six continents. Click a continent for details.

2.2 Country Regulation Management

You will be directed to this page by clicking the continent section on other pages.



Country Regulation Management

Keywords: Country Name/Country ID/Location | Region Filter: North America | Regulatory Status: All Statuses | Update Time: Select date

Reset Search

COUNTRY	LOCATION	LEGISLATION/REGULATION	UPDATE TIME
Anguilla	North America	N/A	N/A
Antigua and Barbuda	North America	Quarantine List File Download	2005-11-17
Aruba	North America	N/A	N/A
Bahamas	North America	N/A	N/A
Barbados	North America	N/A	N/A
Belize	North America	N/A	N/A
Bermuda	North America	N/A	N/A
Canada	North America	Quarantine List File Download	2022-11-30
Cayman Islands	North America	N/A	N/A
Costa Rica	North America	Quarantine List File Download	2025-07-24
Cuba	North America	Quarantine List File Download	2007-11-14
Dominica	North America	N/A	N/A
Dominican Republic	North America	Quarantine List File Download	2020-08-17
El Salvador	North America	N/A	N/A
Greenland	North America	N/A	N/A
Grenada	North America	N/A	N/A
Guadeloupe	North America	N/A	N/A
Guatemala	North America	N/A	N/A
Haiti	North America	N/A	N/A
Honduras	North America	N/A	N/A

Showing entries 1 to 20 of 36 in total

1. Search & Filters

QPD provides four filtering options to help users search for quarantine regulations by country, region or regional organization.

- Keywords: Filter by country name, country ID, or location.
- Regions: Filter by one of the six continents or the regional organization.
- Regulatory Status: Filter by the current regulatory status. Based on the last update time, QPD classifies the status into Fresh (updated within 2 years), Regular (updated within 5 years) and Stable (updated over 5 years).
- Update Time: Filter by the exact update time.

2. Click a country name to access its detail page.

3. Click "*Quarantine List File Download*" to download the corresponding quarantine list file.

2.3 Country Detail

You will be directed to this page by clicking the country or region name on other pages.



1. Contents

Each Country-Detail page usually includes five sections:

- Country Info
- Statistics
- Regulated List
- Pests Reported
- Notifications

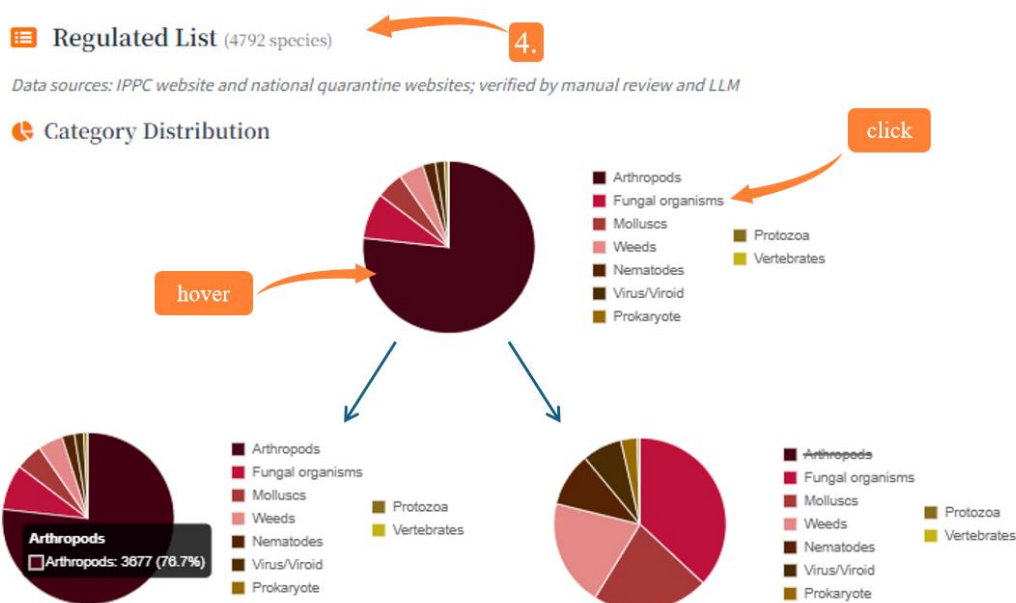
Use the contents guide to jump directly to the target section.

2. Country Info

For each country or region included in the database, QPD developed a Country ID system based on the ISO Alpha-3 standard. This section also displays the corresponding continent.

3. Statistics

For each country or region included in the database, QPD curated the number of reported pests, regulated pests, notifications, and regulation files. These statistics are displayed in this section. Click "View" to view and download the corresponding regulation file.



4. Regulated List

For each country or region included in the database, regulated pest lists were collected from [IPPC](#) and national quarantine websites. QPD classified the pests in the regulated lists into different categories and displays the proportion of each category in a pie chart. Hover over a chart segment to view the number and proportion of the corresponding pest category. Click a category name to hide the category from the chart.

Keywords:

Category:
All Categories

Search

Reset

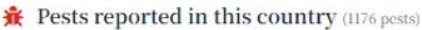
PEST	QUARANTINE STATUS	YEAR ADDED
<i>Abgrallaspis aguacatae</i>	Quarantine pests	/
<i>Abgrallaspis perseae</i>	Quarantine pests	/
<i>Abracris flavolineata</i>	Quarantine pests	/
<i>Acalitus phloeocoptes</i>	Quarantine pests	/
<i>Acalitus vaccinii</i>	Quarantine pests	/
<i>Acallepitrix</i>	Quarantine pests	/
<i>Acalles</i>	Quarantine pests	/
<i>Acalymma vittatum</i>	Quarantine pests	/
<i>Acalypta</i>	Quarantine pests	/
<i>Acanalonia</i>	Quarantine pests	/
<i>Acanaloniidae</i>	Quarantine pests	/
<i>Acanthaceae</i>	Quarantine pests	/
<i>Acanthiophilus helianthi</i>	Quarantine pests	/
<i>Acanthocephala</i>	Quarantine pests	/
<i>Acanthocheila</i>	Quarantine pests	/
<i>Acanthocinini</i>	Quarantine pests	/
<i>Acanthocinus carinulatus</i>	Quarantine pests	/
<i>Acanthococcus</i>	Quarantine pests	/
<i>Acanthococcus lagerstroemiae</i>	Quarantine pests	/
<i>Acanthoderes</i>	Quarantine pests	/

< Previous
1
2
3
Next >

Showing 1 to 20 of 4792 species

Based on the entries in the regulated pest lists, QPD manually curated and classified the quarantine status of regulated pests into four categories: "Absent", "Present", "Unknown", and "Quarantine Pest" (used when no detailed status is provided in the regulated pest lists).

QPD also provides a search tool for quickly checking whether a specific pest is listed as a regulated pest. Click a scientific name to access the corresponding pest detail page.

 **5.**

Data sources: EPPO Global Database and GBIF.

1008
Present

158
Absent

1176
Total

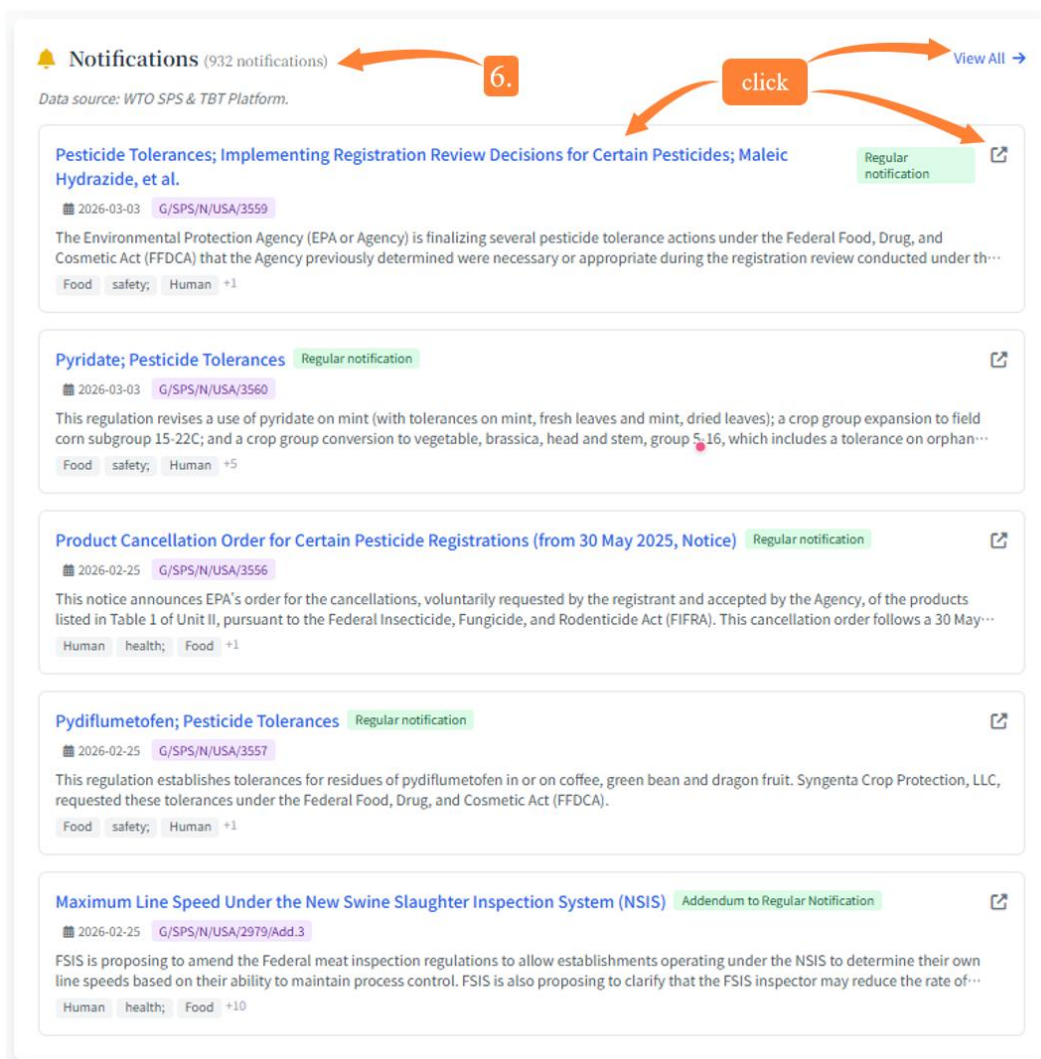
Keywords:
Taxonomic Rank:
Category:

PEST	STATUS	STATE
<i>Acacia dealbata</i>	Present	—
<i>Acacia mearnsii</i>	Present	View
<i>Acacia pycnantha</i>	Present	View
<i>Acacia saligna</i>	Present	View
<i>Acalypha australis</i>	Present	View
<i>Acanalonia conica</i>	Present	View
<i>Acanthoscelides obtectus</i>	Present	View
<i>Acarapis woodi</i>	Present	—
<i>Aceria guerreronis</i>	Present	View
<i>Aceria sheldoni</i>	Present	View
<i>Acizzia jamatonica</i>	Present	View
<i>Acleris gloverana</i>	Present	View
<i>Acleris minuta</i>	Present	View
<i>Acleris nivisellana</i>	Present	View
<i>Acleris robinsoniana</i>	Present	View
<i>Acleris semipurpurana</i>	Present	View
<i>Acleris variana</i>	Present	View
<i>Acrolepiopsis assectella</i>	Absent	View
<i>Acrolepiopsis assectella</i>	Present	View
<i>Aculops fuchsiae</i>	Present	View

Showing 1 to 20 of 1176 pests

5. Reported Pests

For each country or region included in the database, reported pests were collected from [EPPO Global Database](#) and [GBIF](#), and curated by QPD. QPD also provides a search tool for quickly checking whether a specific pest is listed as a reported pest. Click a scientific name to access the corresponding pest detail page. Click "View" to view the occurrence records of the corresponding pest.



Notifications (932 notifications) 6. click [View All](#) →

Data source: WTO SPS & TBT Platform.

Pesticide Tolerances; Implementing Registration Review Decisions for Certain Pesticides; Maleic Hydrazide, et al. Regular notification 

2026-03-03 G/SPS/N/USA/3559

The Environmental Protection Agency (EPA or Agency) is finalizing several pesticide tolerance actions under the Federal Food, Drug, and Cosmetic Act (FFDCA) that the Agency previously determined were necessary or appropriate during the registration review conducted under th...

Food safety; Human +1

Pyridate; Pesticide Tolerances Regular notification 

2026-03-03 G/SPS/N/USA/3560

This regulation revises a use of pyridate on mint (with tolerances on mint, fresh leaves and mint, dried leaves); a crop group expansion to field corn subgroup 15-22C; and a crop group conversion to vegetable, brassica, head and stem, group 5-16, which includes a tolerance on orphan...

Food safety; Human +5

Product Cancellation Order for Certain Pesticide Registrations (from 30 May 2025, Notice) Regular notification 

2026-02-25 G/SPS/N/USA/3556

This notice announces EPA's order for the cancellations, voluntarily requested by the registrant and accepted by the Agency, of the products listed in Table 1 of Unit II, pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). This cancellation order follows a 30 May...

Human health; Food +1

Pydiflumetofen; Pesticide Tolerances Regular notification 

2026-02-25 G/SPS/N/USA/3557

This regulation establishes tolerances for residues of pydiflumetofen in or on coffee, green bean and dragon fruit. Syngenta Crop Protection, LLC, requested these tolerances under the Federal Food, Drug, and Cosmetic Act (FFDCA).

Food safety; Human +1

Maximum Line Speed Under the New Swine Slaughter Inspection System (NSIS) Addendum to Regular Notification 

2026-02-25 G/SPS/N/USA/2979/Add.3

FSIS is proposing to amend the Federal meat inspection regulations to allow establishments operating under the NSIS to determine their own line speeds based on their ability to maintain process control. FSIS is also proposing to clarify that the FSIS inspector may reduce the rate of...

Human health; Food +10

6. Notifications

For each country or region included in the database, notification records were collected from the WTO [ePing SPS&TBT Platform](#), and curated by QPD. The notification type and SPS ID defined by the WTO [ePing SPS&TBT Platform](#) are displayed together with each notification record. Click a notification title to access the corresponding notification detail page. Click an external link icon to download the corresponding notification file. Click "View All" to access the **Notifications for the corresponding country or region** page (see below).

Notifications

for United States of America (932 notifications)

Search by Title

Enter title or keyword...

Notification Type

All Types

Date Range

From

To

Search

Reset

Pesticide Tolerances; Implementing Registration Review Decisions for Certain Pesticides; Maleic Hydrazide, et al.

Regular notification

G/SPS/N/USA/3559

2026-03-03

The Environmental Protection Agency (EPA or Agency) is finalizing several pesticide tolerance actions under the Federal Food, Drug, and Cosmetic Act (FFDCA) that the Agency previously determined were necessary or appropriate during the registration review conducted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). During registration review, EPA reviews all aspects of a pesticide case, including existing tolerances, to ensure that the pesticide continues to meet the standard for registration under FIFRA. The Agency is also finalizing tolerance actions identified outside of registration review as housekeeping measures, such as removing expired tolerances from the Code of Federal Register (CFR). The pesticide tolerances and active ingredients addressed in this rulemaking are identified and discussed in detail in Unit III. of this document.

Food safety; Human health

Pyriofenone; Pesticide Tolerances. Final Rule

Regular notification

G/SPS/N/USA/3545

2026-01-21

This regulation establishes tolerances for residues of pyriofenone in or on apple; apple, wet pomace; berry, low growing, subgroup 13-07G (except cranberry); and cherry subgroup 12-12A.

Food safety; Maximum residue +2

Page 1 of 47

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>>

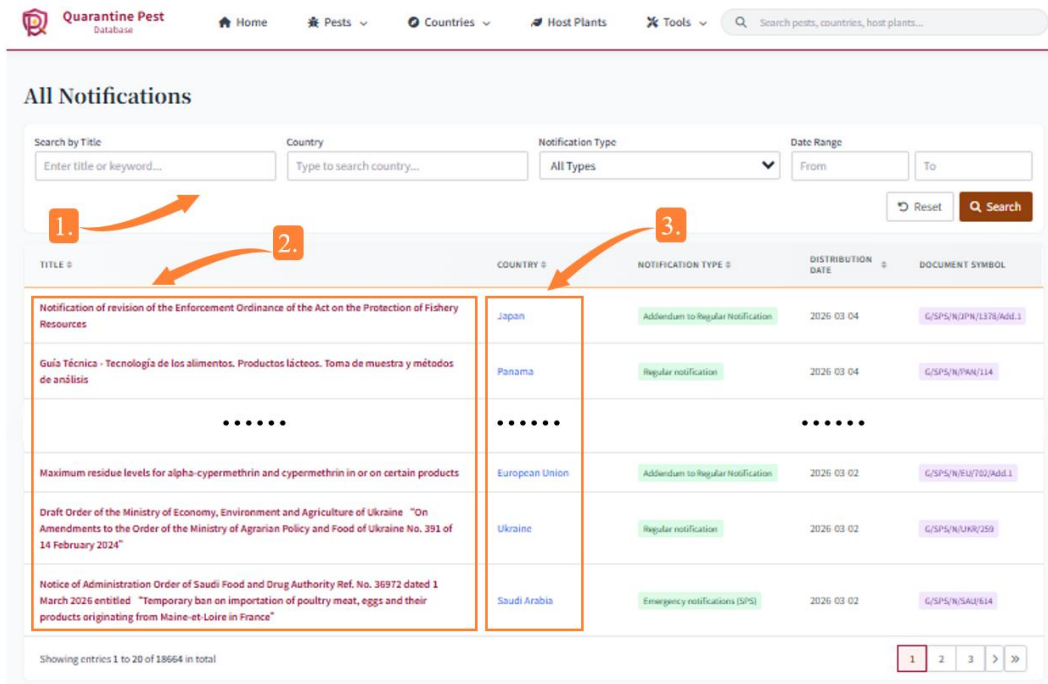
Showing 1 to 20 of 932 notifications

Back to Country

Back to Countries

QPD also provides a search tool to quickly find specific notification records. Users can filter notifications by title keywords, notification type, and date range.

2.4 Country All Notifications



All Notifications

Search by Title: Enter title or keyword... Country: Type to search country... Notification Type: All Types Date Range: From: To: [Reset] [Search]

TITLE	COUNTRY	NOTIFICATION TYPE	DISTRIBUTION DATE	DOCUMENT SYMBOL
Notification of revision of the Enforcement Ordinance of the Act on the Protection of Fishery Resources	Japan	Addendum to Regular Notification	2026-03-04	G/SPS/N/JPN/L378/Add.1
Guía Técnica - Tecnología de los alimentos. Productos lácteos. Toma de muestra y métodos de análisis	Panama	Regular notification	2026-03-04	G/SPS/N/PAN/114
.....				
Maximum residue levels for alpha-cypermethrin and cypermethrin in or on certain products	European Union	Addendum to Regular Notification	2026-03-02	G/SPS/N/EU/702/Add.1
Draft Order of the Ministry of Economy, Environment and Agriculture of Ukraine "On Amendments to the Order of the Ministry of Agrarian Policy and Food of Ukraine No. 391 of 14 February 2024"	Ukraine	Regular notification	2026-03-02	G/SPS/N/UKR/259
Notice of Administration Order of Saudi Food and Drug Authority Ref. No. 36972 dated 1 March 2026 entitled "Temporary ban on importation of poultry meat, eggs and their products originating from Maine-et-Loire in France"	Saudi Arabia	Emergency notifications (SPS)	2026-03-02	G/SPS/N/SAU/614

Showing entries 1 to 20 of 18664 in total

1 2 3 > >>

1. Search & Filters

QPD provides four filtering options to help users search for notification records by country or region.

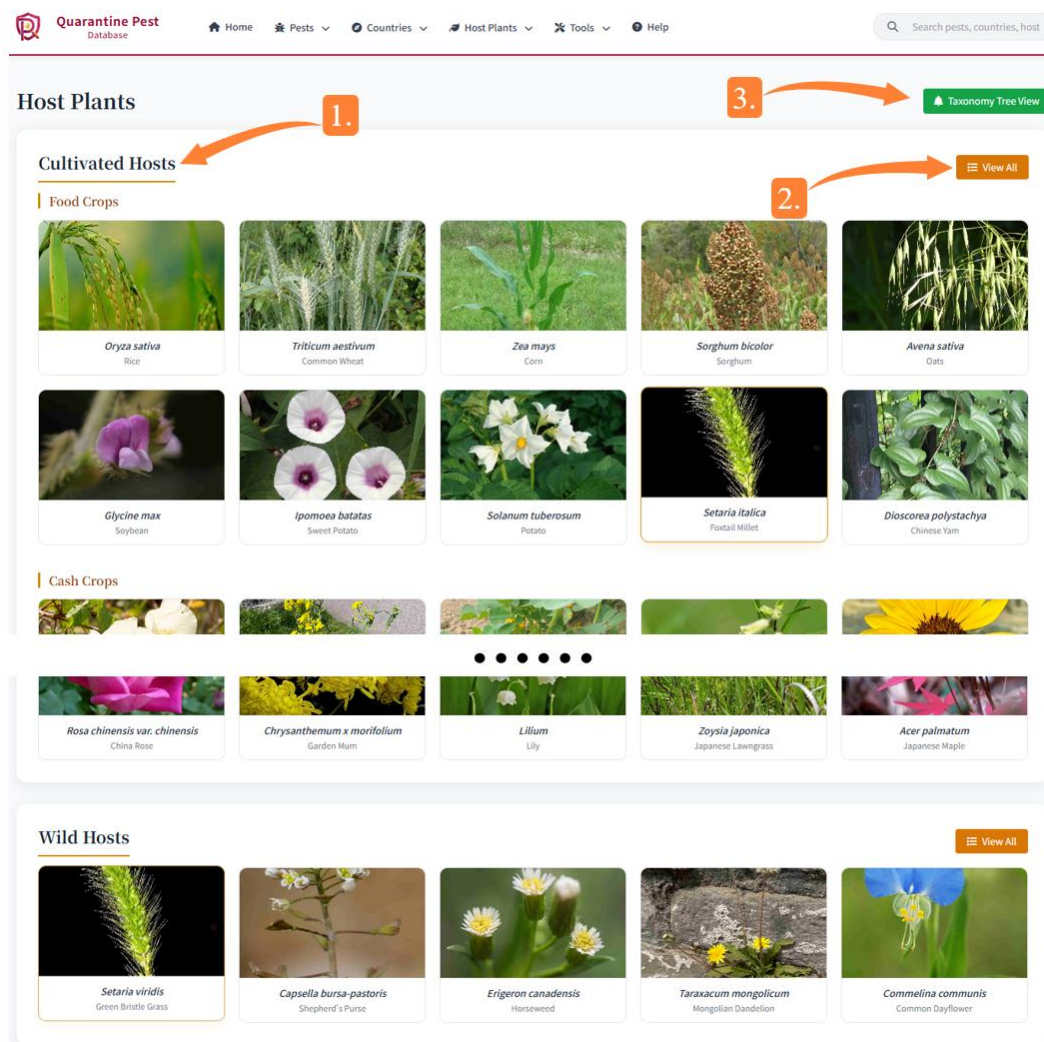
- Title: Filter by notification title or keywords.
- Country: Filter by country or region name.
- Notification Type: Filter by notification type, which is defined by the WTO [ePing SPS&TBT Platform](#).
- Date Range: Filter by distribution date.

2. Click a notification title to access its detail page.

3. Click a country or region name to access its detail page.

3. Host Plant Pages

3.1 Host Plant Overview



1. Host Plant Categories

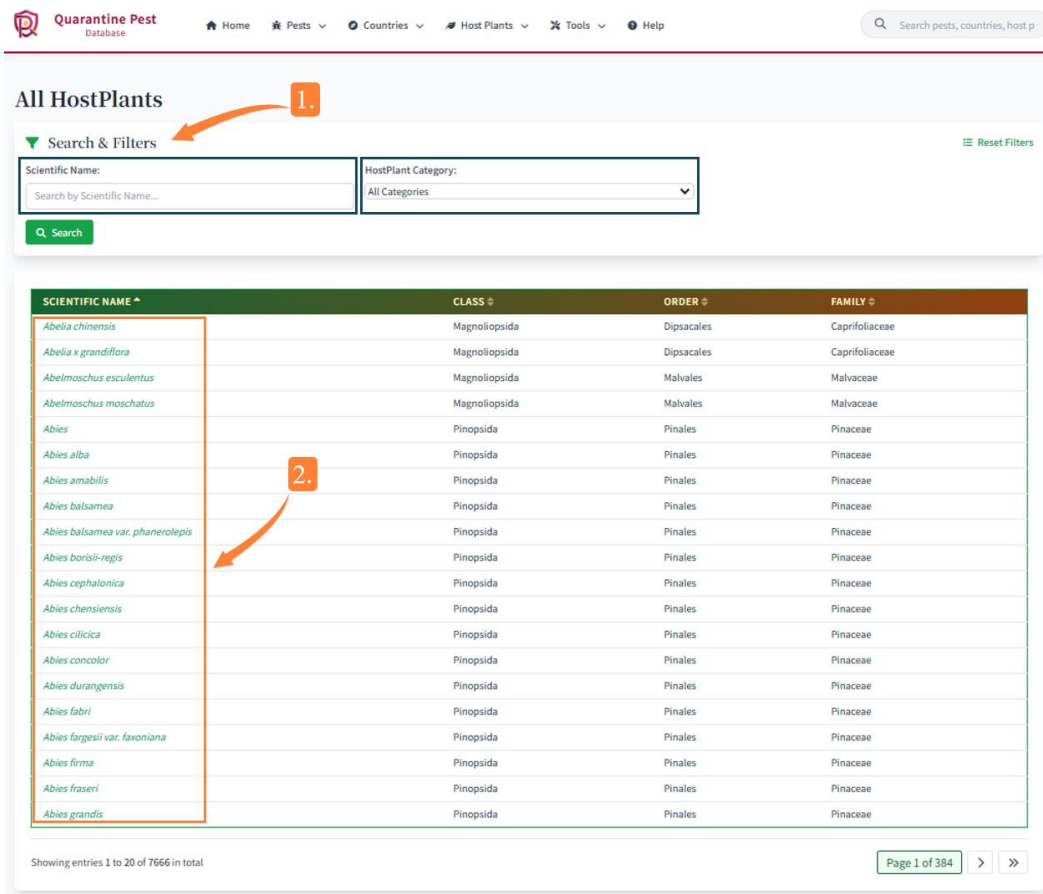
Host plants in QPD are classified into two categories: Cultivated Hosts and Wild Hosts. Based on their usage, Cultivated Hosts are further divided into four categories: Food Crops, Cash Crops, Forage and Green Manure Crops, and Horticultural Crops. Click an image to expand the corresponding host plant detail page.

2. Click "View All" to access the host plant information page for the corresponding category.

3. Click "Taxonomy Tree View" to access the host plant taxonomy tree page.

3.2 Host Plant List

You will be directed to this page by clicking the host plant category in other pages.



All HostPlants

Search & Filters

Scientific Name: HostPlant Category:

SCIENTIFIC NAME ^	CLASS ^	ORDER ^	FAMILY ^
<i>Abelia chinensis</i>	Magnoliopsida	Dipsacales	Caprifoliaceae
<i>Abelia x grandiflora</i>	Magnoliopsida	Dipsacales	Caprifoliaceae
<i>Abelmoschus esculentus</i>	Magnoliopsida	Malvales	Malvaceae
<i>Abelmoschus moschatus</i>	Magnoliopsida	Malvales	Malvaceae
<i>Abies</i>	Pinopsida	Pinales	Pinaceae
<i>Abies alba</i>	Pinopsida	Pinales	Pinaceae
<i>Abies amabilis</i>	Pinopsida	Pinales	Pinaceae
<i>Abies balsamea</i>	Pinopsida	Pinales	Pinaceae
<i>Abies balsamea var. phanerolepis</i>	Pinopsida	Pinales	Pinaceae
<i>Abies borisii-regis</i>	Pinopsida	Pinales	Pinaceae
<i>Abies cephalonica</i>	Pinopsida	Pinales	Pinaceae
<i>Abies chensiensis</i>	Pinopsida	Pinales	Pinaceae
<i>Abies cilicica</i>	Pinopsida	Pinales	Pinaceae
<i>Abies concolor</i>	Pinopsida	Pinales	Pinaceae
<i>Abies durangensis</i>	Pinopsida	Pinales	Pinaceae
<i>Abies fabri</i>	Pinopsida	Pinales	Pinaceae
<i>Abies fargesii var. faxoniana</i>	Pinopsida	Pinales	Pinaceae
<i>Abies firma</i>	Pinopsida	Pinales	Pinaceae
<i>Abies fraseri</i>	Pinopsida	Pinales	Pinaceae
<i>Abies grandis</i>	Pinopsida	Pinales	Pinaceae

Showing entries 1 to 20 of 7666 in total

Page 1 of 384

1. Search & Filters

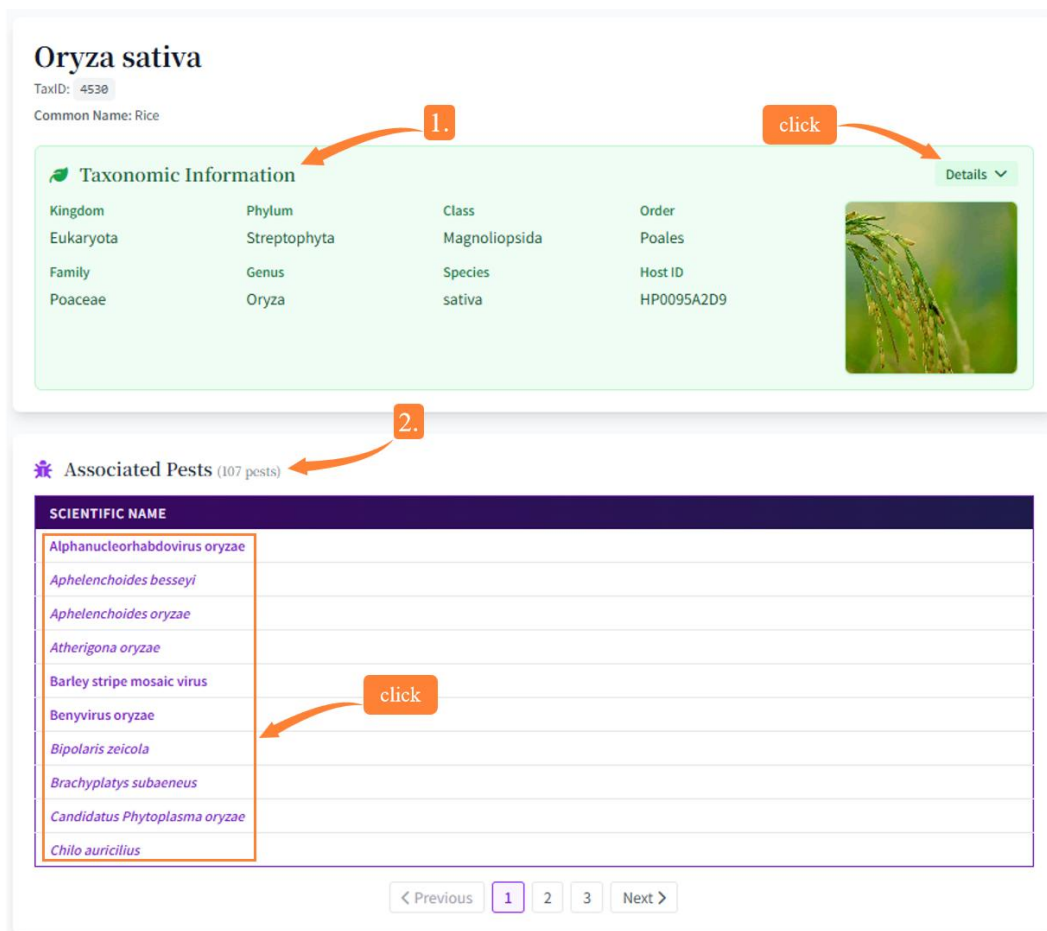
QPD provides two filtering options to help users search for pest host plant.

- Scientific Name: Filter by host plant scientific name.
- Category: Filter by host plant category.

2. Click a host plant scientific name to access its detail page.

3.3 Host Plant Detail

You will be directed to this page by clicking the host plant scientific name on other pages.



Oryza sativa
TaxID: 4530
Common Name: Rice

1. Taxonomic Information click Details

Kingdom	Phylum	Class	Order
Eukaryota	Streptophyta	Magnoliopsida	Poales
Family	Genus	Species	Host ID
Poaceae	Oryza	sativa	HP0095A2D9

2. Associated Pests (107 pests)

SCIENTIFIC NAME
Alphanucleorhabdovirus oryzae
Aphelenchoides besseyi
Aphelenchoides oryzae
Atherigona oryzae
Barley stripe mosaic virus
Benyvirus oryzae
Bipolaris zeicola
Brachyplatys subaeneus
Candidatus Phytoplasma oryzae
Chilo auricilius

click

< Previous 1 2 3 Next >

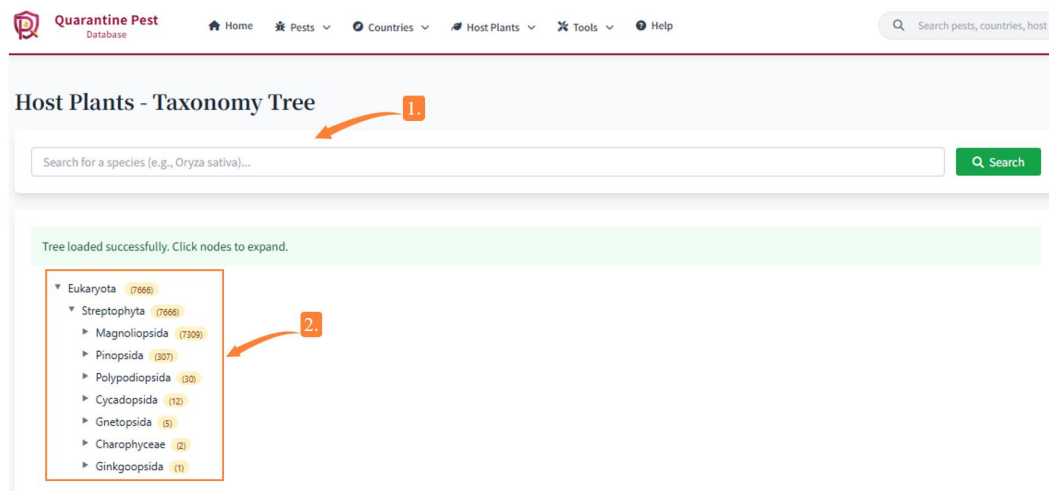
1. Taxonomic Information

For each host plant included in QPD, taxonomic information was collected from [NCBI](#) and curated by QPD. Click "Details" to view detailed taxonomic information for the corresponding pest.

2. Associated Pests

For each host plant included in the database, QPD lists the associated pests for this host. Click a scientific name of pest to access its detail page.

3.4 Host Plant Taxonomy Tree



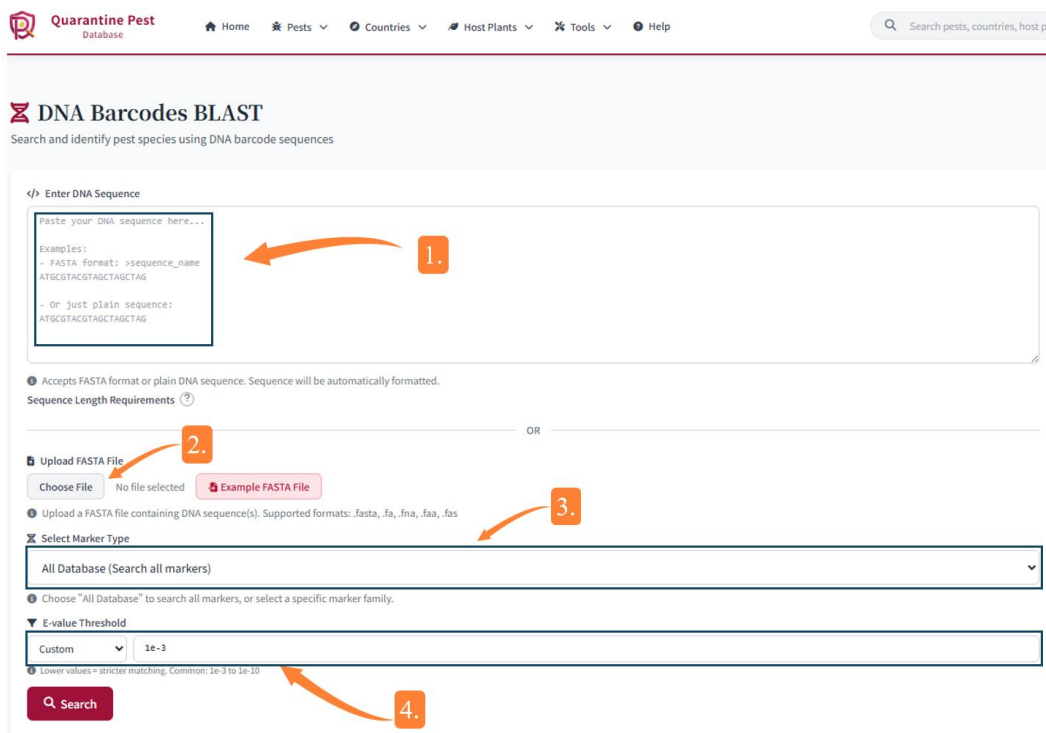
1. Taxonomy Tree

To facilitate the exploration of phylogenetic relationships among host plants, QPD constructed a taxonomic tree for all host plants included in the database. This tree helps users identify potential host plants for target pests.

2. Click a node to expand the branch.

4. Tools Pages

4.1 DNA Barcodes BLAST



The screenshot shows the 'DNA Barcodes BLAST' tool interface. It includes a search bar at the top, a title 'DNA Barcodes BLAST' with a subtitle 'Search and identify pest species using DNA barcode sequences', and a main form area. The form has four numbered annotations: 1. Points to the 'Enter DNA Sequence' text area with examples of FASTA and plain sequence formats. 2. Points to the 'Upload FASTA File' section with a 'Choose File' button and an 'Example FASTA File' link. 3. Points to the 'Select Marker Type' dropdown menu, which is currently set to 'All Database (Search all markers)'. 4. Points to the 'E-value Threshold' section, which has a 'Custom' dropdown and a text input field set to '1e-3'. A 'Search' button is at the bottom left of the form.

Tools - DNA Barcodes BLAST

Use DNA barcode BLAST analysis to quickly identify the pest species corresponding to the query sequence.

1. Enter DNA Sequence

The DNA Barcodes BLAST tool accepts sequences in FASTA format or plain DNA sequence format as input. The tool will automatically clean up formatting issues in the input sequence.

2. Upload FASTA File

The DNA Barcodes BLAST tool also accepts a FASTA file as input. Click "Choose File" to select a FASTA file in .fasta, .fa, .fna, .faa, or .fas format from your computer.

3. Select Marker Type

QPD collected 10 commonly used marker types from public databases, enabling users to search all markers by choosing "All Database" or select a specific marker type to improve BLAST search efficiency.

4. E-value Threshold

QPD provides three default E-value thresholds ranging from 1e-3 to 1e-10. Users can also manually specify an E-value threshold. Lower E-values indicate more stringent matching criteria.

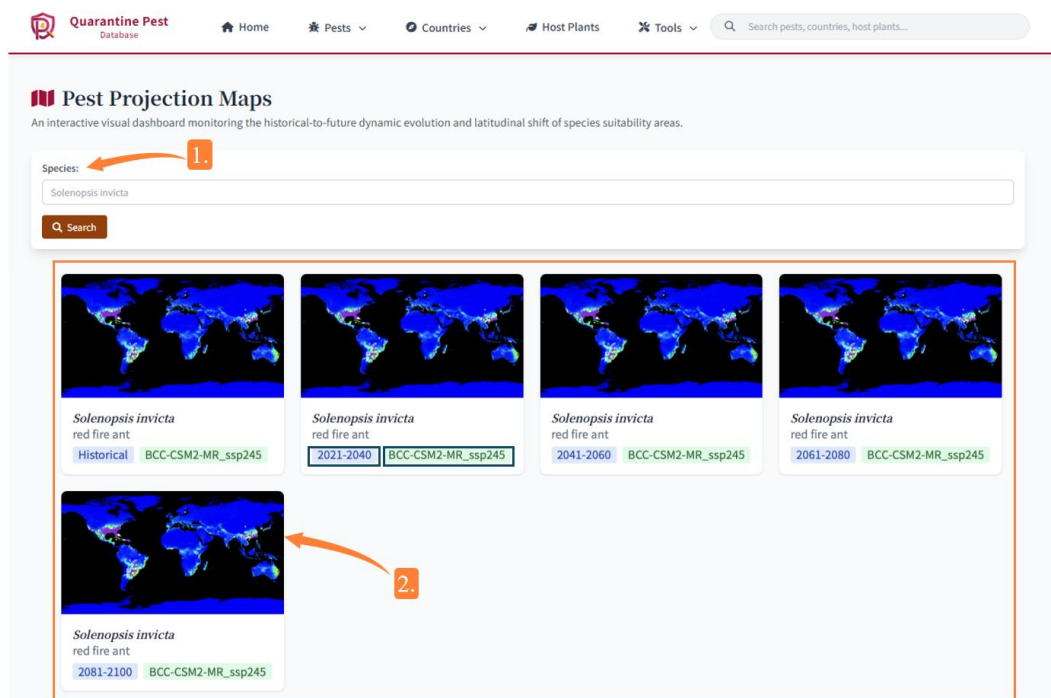
Sequence Length Guidelines

Minimum length: 200 bp. Sequences shorter than 200 bp are likely to yield unreliable results.

Optimal length: ≥ 500 bp is strongly recommended for robust species-level identification.

Interpreting short reads (200–300 bp): Results from fragments in this range should be treated as genus- or family-level references. Any apparent species-level matches must be confirmed with additional evidence (e.g., morphology, geographic distribution) before being considered reliable.

4.2 Future Habitat Tracker

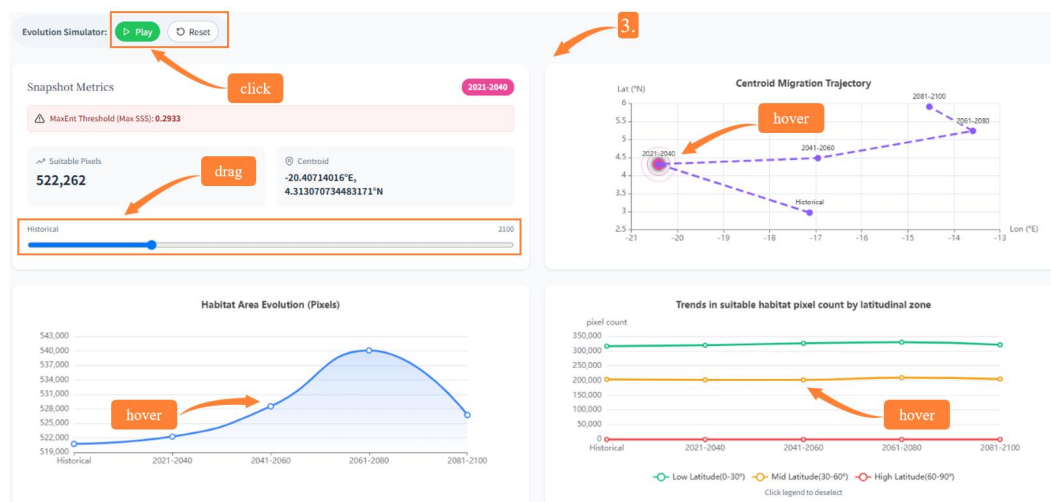


1. Species Search

Enter the scientific name or common name of a pest to view the corresponding predicted future distribution dynamics.

2. Pest Projection Maps

Based on pest occurrence records sourced from [GBIF](#), QPD used the MaxEnt species distribution model (SDM) to predict potential climatic suitability under the BCC-CSM2-MR_ssp245 climate scenario. Predictions were generated for five periods: historical baseline, 2021 - 2040, 2041 - 2060, 2061 - 2080, and 2081 - 2100. Click an image to view the full-size version.



3. Summary Statistics

QPD provides summary statistics, including suitable area, latitudinal distribution, and geographic centroid position, to support pest risk assessment. Click "Play" to display temporal changes. Drag the progress bar or hover over a data point to view detailed information.