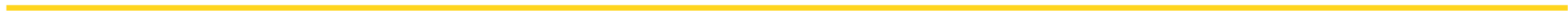


Launch of the new regulated pest list database

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06 February 2024



Topics of the presentation

- Background on the Regulated pest list initiative
- Goals
- Why the need of a new database?
- What's new?
 - Pest categories
 - Pest classification statement
 - Risk mitigation statement
- Navigating through the new RPLI database



Background on the Regulated pest list initiative

- Initiated in 2007
- Database of information on **regulated pests** of internationally traded seed species
- Based on a **thorough scientific assessment** to determine if seed is a pathway for the entry and spread of pests that are regulated
- Based on the **knowledge and experience** of the **seed industry** in managing the risk
- Currently contains **16** crop specific lists
- **Publicly** available: <https://worldseed.org/our-work/phytosanitary-matters/pest-list/>



Goals of the Regulated pest list initiative

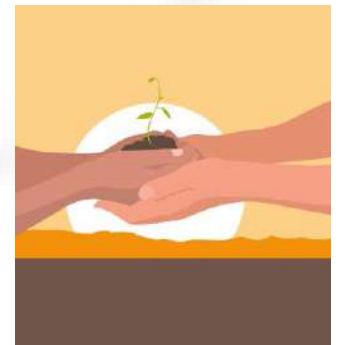
- To provide **science-based information** on crop-pest associations that pose a risk to seed health
- To support scientifically **phytosanitary requirements**
- To promote **harmonization** of national phytosanitary regulations



for the **safe movement** of seed worldwide

Why the need of a new RPLI database ?

- Based on feedback received from a survey conducted among members (2021)
 - Format / Layout (to increase visibility of the information)
 - Not user friendly
- Provider of the current database closed in December 2023



Why the need of a new RPLI database ?

- **Key changes**
 - Layout
 - Number, order and titles of sections
 - Renaming of sections
 - New sections



What's new? Pest categories

- **Why revisiting the pest categories ?**
 - Old pest categories are no longer fit for purpose
 - “Pathway not proven” category as it was, is considered irrelevant during engagement with NPPOs
 - Harmonization with other pest lists (e.g., ASTA)



What's new?

Pest categories

Category	Meaning
Yes	Seed is a known pathway for <u>the pest on the crop species</u>
No	Seed is not known to be or known to not be a pathway for the pest on the crop species
Uncertain	Seed as a pathway for <u>the pest on the crop species</u> is not certain because the evidence is limited, doubtful, or conflicting
Not a host	No references found indicate that the crop is a natural host for the pest
Not applicable	An assessment could not be conducted since not all species within a genus/family share identical transmission characteristics.

What's new? Pest classification statements

- **Why revisiting the pest classification statements?**
 - In response to the results of a survey carried out among members
 - To better support scientifically phytosanitary requirements
- **Changes**
 - **Stronger** statement based on scientific literature
 - State facts / **data**
 - **References** cited at the end of each sentence
 - Standardized sentences

Example: Pea pest list (uploaded Sept 2023)



What's new?

Risk mitigation statements

- **Why revisiting the risk mitigation information?**
 - To address activities from the seed sector during seed production
 - To support initiatives such as Systems Approach, which emphasizes on activities during seed production
- **Changes**
 - To broaden the content of the information provided
 - To move the risk mitigation information before the detection information

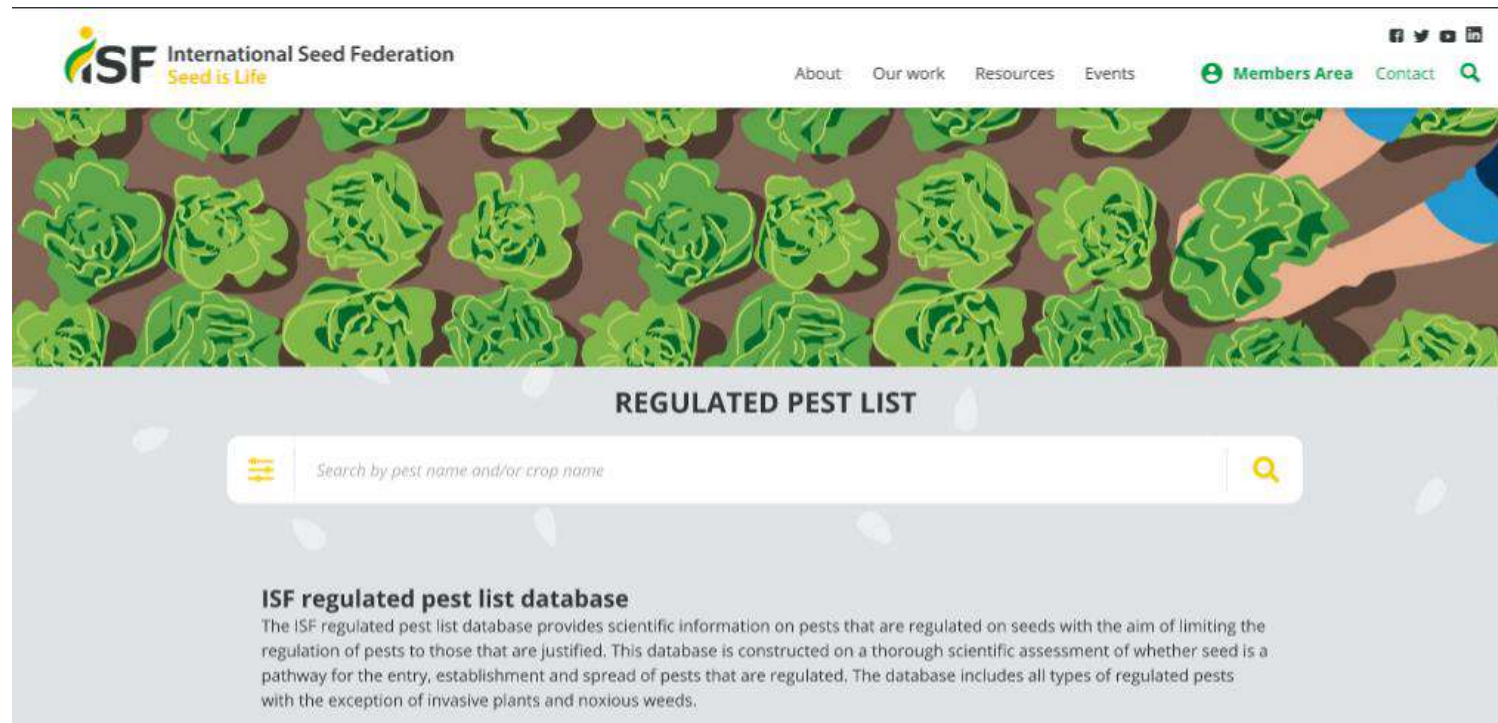


What's new?

Risk mitigation statements

Current information	Revised information
Can the pest be managed by seed treatment(s)?	Include <u>current processes</u> applied by the seed industry, for examples: <ul style="list-style-type: none">- Seed treatments- Seed cleaning- Field inspection- Resistant varieties
If yes, what type(s)?	<p>Pest management strategies should:</p> <ul style="list-style-type: none">- only be cited in the risk mitigation section- not provide any recommendations- not cite any names of products or active ingredients of treatments- be based on the standard ISPM 38 – Movement of seeds

Navigating through the new RPLI database



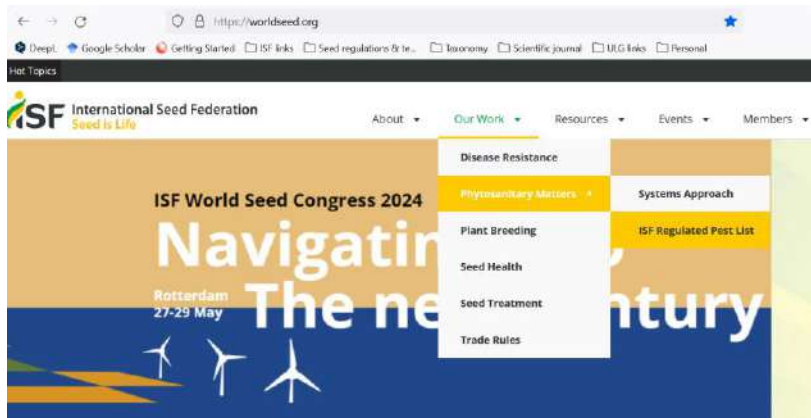
The screenshot displays the ISF International Seed Federation website. At the top left is the ISF logo with the tagline "Seed is Life". To the right of the logo are navigation links: "About", "Our work", "Resources", "Events", "Members Area", and "Contact". Social media icons for Facebook, Twitter, YouTube, and LinkedIn are also present. Below the navigation is a banner image showing a grid of green seedlings in a tray, with a hand holding one of them. The main heading is "REGULATED PEST LIST". Below this is a search bar with the placeholder text "Search by pest name and/or crop name" and a magnifying glass icon. Underneath the search bar is a section titled "ISF regulated pest list database" with a descriptive paragraph: "The ISF regulated pest list database provides scientific information on pests that are regulated on seeds with the aim of limiting the regulation of pests to those that are justified. This database is constructed on a thorough scientific assessment of whether seed is a pathway for the entry, establishment and spread of pests that are regulated. The database includes all types of regulated pests with the exception of invasive plants and noxious weeds."

<https://worldseed.org/>

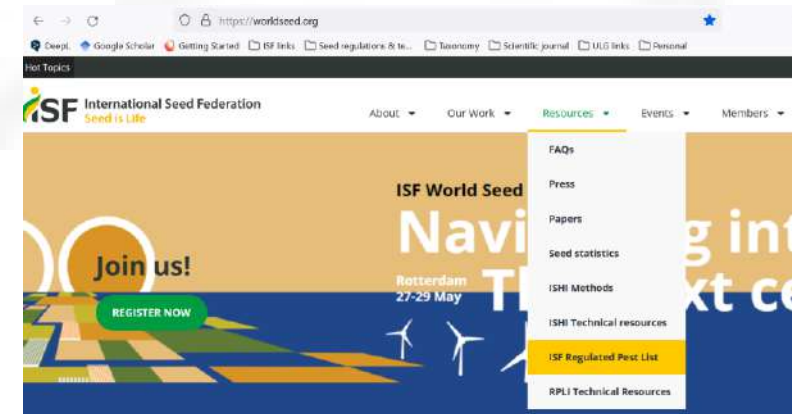
Navigating through the new RPLI database

- **How to access the database?**

- 2 ways to access the database from the ISF webpage <https://worldseed.org/>



Our Work > Phytosanitary Matters > ISF Regulated Pest List

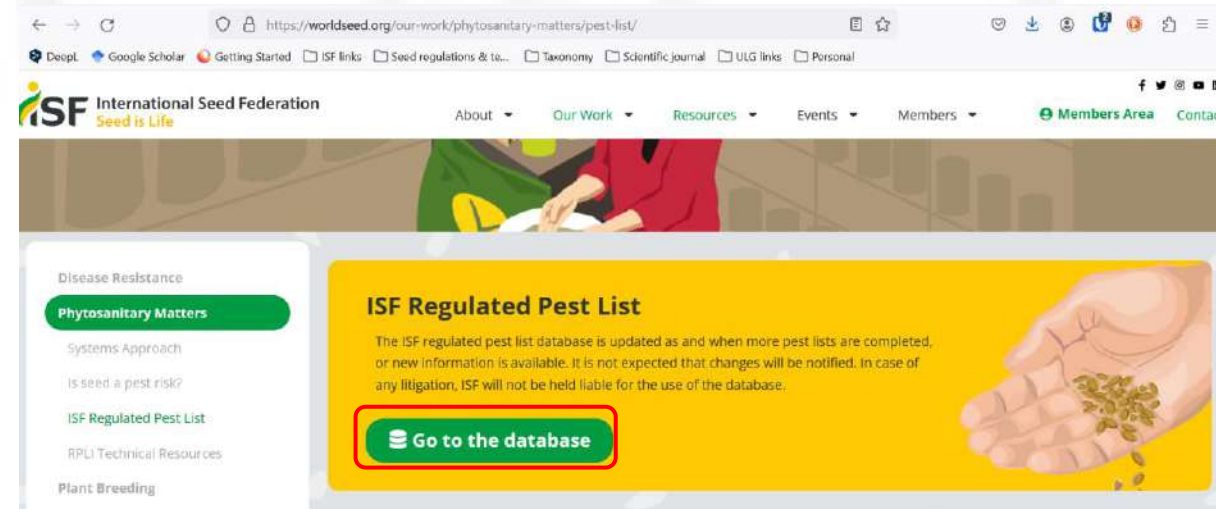


Resources > ISF Regulated Pest List

- **Direct link** to the database : <https://isfpestlist.worldseed.org/>

Navigating through the new RPLI database

- **How to access the database?**
 - Land on the **Regulated pest list initiative webpage** that contains information
 - Assessment process
 - List of crop specific pest lists with the publication date
 - Feedback section
 - Click on the **Go to the database** button



Navigating through the new RPLI database

- Front page of the database

ISF International Seed Federation
Seed is Life

Back to ISF Website

REGULATED PEST LIST

Search by pest name and/or crop name

ISF regulated pest list database
The ISF regulated pest list database provides scientific information on pests that are regulated on seeds with the aim of limiting the regulation of pests to those that are justified. This database is constructed on a thorough scientific assessment of whether seed is a pathway for the entry, establishment and spread of pests that are regulated. The database includes all types of regulated pests with the exception of invasive plants and noxious weeds. More information on the database [here](#).

Feedback
The database is a "living document" subject to periodic review and updates based on feedback from users and changes in national phytosanitary regulations for seed. If you think some of the information related to a pest is incorrect or incomplete or needs updating, please send feedback by clicking [here](#). Your feedback will be used to improve the database, if deemed necessary.

Taxonomy
The database follows the terminology used by internationally recognized institutions; see the [guidelines](#) developed by the ISF Disease resistance coordination group for information.

Disclaimer
The ISF regulated pest list database is updated as and when more pest lists are completed or new information become available. It is not expected that changes will be notified. In case of any litigation, ISF will not be held liable for the use of the database. Note that web links are provided as a convenience and for informational purposes only, they do not constitute an endorsement or an approval by ISF of any of the products, services or opinions of the corporation or organization or individual. ISF cannot be held responsible for the failure of web links.

How to cite the database
ISF regulated pest list database, <https://isfpestlist.worldseed.org/> [last accessed on Day Month Year]

Short introduction

Feedback

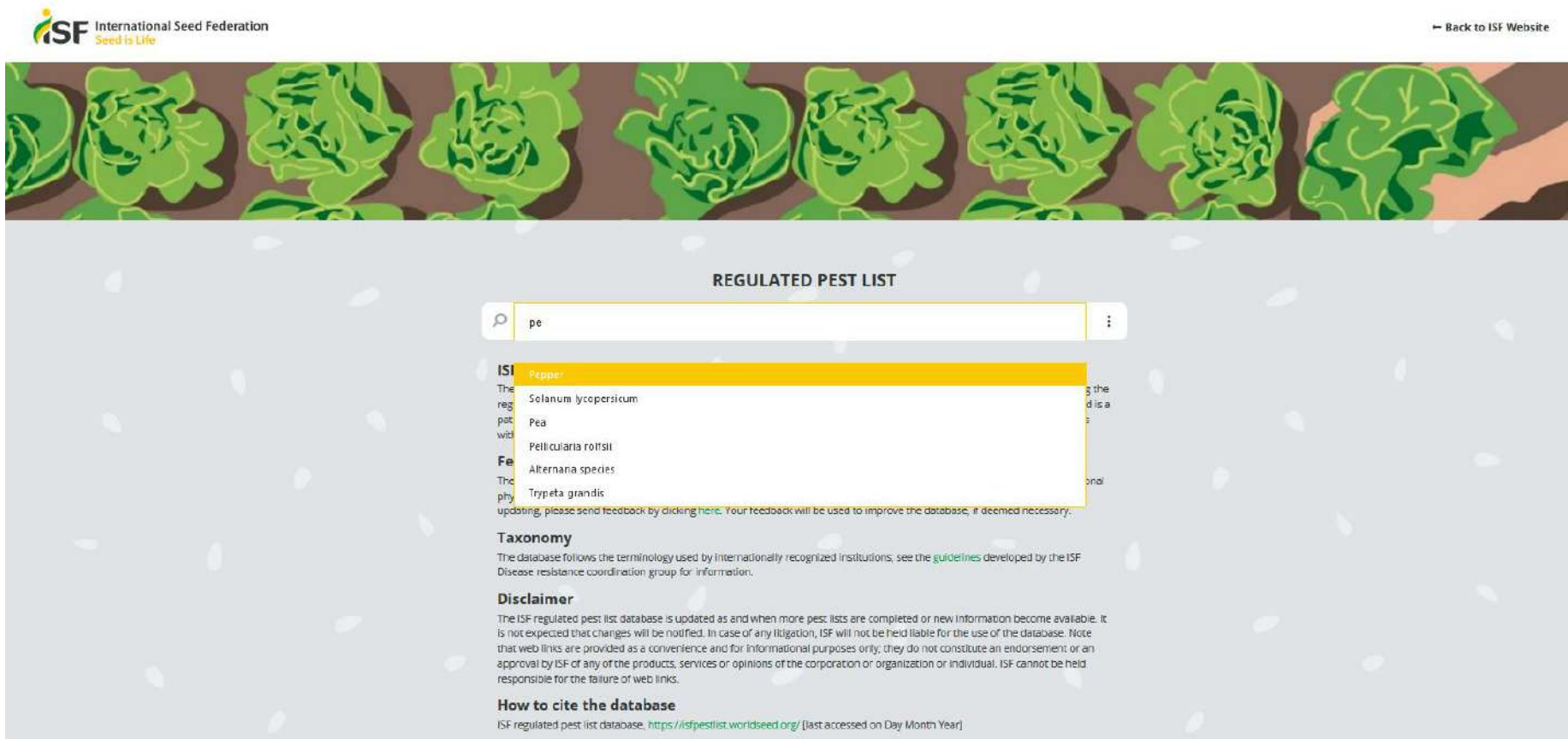
Click on word "here" or on three dots

Taxonomy

Internationally recognized institutions

Navigating through the new RPLI database

- **Searching the database**



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← Back to ISF Website

REGULATED PEST LIST

pe

- Pepper
- Solanum lycopersicum
- Pea
- Pellicularia rotisi
- Alternaria species
- Trypeta grandis

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How to cite the database
ISF regulated pest list database. <https://isfpestlist.worldseed.org/> [last accessed on Day Month Year]

Start typing the name of

- **Pest** : scientific name or synonyms

or

- **Crop** : scientific name or common name

Navigating through the new RPLI database

- Searching by **crop name**

The screenshot displays the RPLI database interface. At the top left is the ISF logo (International Seed Federation, Seed is Life) and a link to the ISF website. The main heading is 'REGULATED PEST LIST'. A search bar contains 'Pea'. Below the search bar, a 'Crop identity' section shows 'Pest regulated on this crop' and a 'Feedback? Contact us...' link. The 'Crop identity' section lists 'Scientific name: Pisum sativum' and 'Common name: Pea'. Below this, a green header indicates 'Regulated pests on this crop | 87 items found' and 'Last updated: November 2023'. A table lists regulated pests:

Pest name	Pest type	Is seed a pathway for this pest?
Acanthoscelides zeteki	Insect	Not a host
Alfalfa mosaic virus	Virus	No

Crop information

Pests regulated on the crop

- Alphabetical order
- Scroll down to view the list

Navigating through the new RPLI database

- Searching by **crop name** > selecting a pest > **filtering by pest categories**

The screenshot displays the RPLI database interface. On the left, there is a sidebar with 'Crop identity' and a button 'Pest regulated on this crop'. The main area shows a table of regulated pests. A filter overlay is open, allowing users to filter by pest type and pathway. A red box highlights the filter icon in the table header, with a red arrow pointing to the text 'Filter' on the right.

Pest name	Pest type	Is seed a pathway for this pest?
Acanthoscelides zeteki	Insect	
Alfalfa mosaic virus	Virus	
Arabis mosaic virus	Virus	
Ascochyta medicaginicola	Fungus	
Ascochyta species	Fungus	
Bean common mosaic virus	Virus	
Bean golden mosaic virus	Virus	
Bean leafroll virus	Virus	
Bean yellow mosaic virus	Virus	
Broad bean mottle virus	Virus	Uncertain
Broad bean wilt virus	Virus	No

Filter

Type

- Show all
- Bacterium
- Chromista
- Fungus
- Insect
- Mite
- Mollicute (spiroplasma, phytoplasma)
- Nematode
- Oomycete
- Protozoa
- Viroid
- Virus

Pathway

- Show all
- Yes
- No
- Uncertain
- Not a host
- Not applicable

Filter

Click and select one or more

- Pest type

and / or

- Pest categories

Navigating through the new RPLI database

- Searching by **crop name** > **selecting a pest**

The screenshot displays the 'REGULATED PEST LIST' interface. At the top left is the ISF logo and 'International Seed Federation Seed is Life'. A 'Back to ISF Website' link is at the top right. The main content area includes a search bar with 'Pea' entered. Below the search bar, there's a 'Crop identity' section showing 'Pisum sativum' (Scientific name) and 'Pea' (Common name). A table titled 'Regulated pests on this crop' shows 87 items found, last updated in November 2023. The table has columns for 'Pest name', 'Pest type', and 'Is seed a pathway for this pest?'. Two rows are visible: 'Acanthoscelides zetekii' (Insect, Not a host) and 'Alfalfa mosaic virus' (Virus, No). Red boxes highlight the 'Alfalfa mosaic virus' entry and its eye icon. Red arrows point from the text 'Click on - Pest name or - Eye icon' to these elements.

ISF International Seed Federation
Seed is Life

← Back to ISF Website

REGULATED PEST LIST

Crop identity
Pest regulated on this crop

Feedback? Contact us.

Crop identity

Scientific name	Common name
Pisum sativum	Pea

Regulated pests on this crop | 87 items found Last updated: November 2023

Pest name	Pest type	Is seed a pathway for this pest?
Acanthoscelides zetekii	Insect	Not a host
Alfalfa mosaic virus	Virus	No

Click on
- Pest name
or
- Eye icon

Navigating through the new RPLI database

Window to navigate through the searched data

The screenshot shows the RPLI database interface. A red box highlights the navigation menu on the left, which includes 'Crop identity', 'Pest identity', 'Pest - crop information', and 'Pest regulated on this crop'. The 'Pest identity' option is selected and highlighted in yellow. The main content area displays the following information:

- Crop Identity:** Scientific name: *Pisum sativum*, Common name: Pea.
- Pest Identity:** Last updated: September 2023. Scientific name: Alfalfa mosaic virus, Pest type: Virus. Synonym: Alfalfa mosaic alfamovirus, Alfalfa virus 1, Alfalfa virus 2. Disease name: Mosaic of alfalfa, Mosaic of lucerne, Necrotic tip curl of tomato, Yellow mottle of grapevine, yellow spot of alfalfa. EPPO pest code: -.
- Pest - crop information:** Last updated: September 2023. Is seed a pathway?: No, ISF pest code: -. Pest classification: There is no evidence that pea seeds is a pathway for Alfalfa mosaic virus (AMV, genus Alfamovirus). Experiments showed that AMV was not detected in any of the 30 commercial pea seed stocks tested (16-017). Pea is a natural host of AMV and was reported in several countries, like Iran (16-037) and Australia (16-016, 16-017). Systemic infection with mild to severe symptoms of leaf mottling and crinkling, depending on the virus strains, have been observed on pea plants (16-361). AMV affects a large number of plants species worldwide (16-217). AMV infection can cause important yield losses to the effected crops, and sometimes resulting to death of plants (16-015). Aphids are responsible for the transmission of AMV from infected plant to healthy plant in the field (16-015, 16-016, 16-120, 16-217). AMV has been reported to be seed transmitted in several crops like alfalfa (16-119, 16-120), lentil and chickpea (*Cicer arietinum*) (16-118), however no studies has shown that it is seed transmitted in pea seeds. Available information indicates there is no scientific basis for regulation of AMV on pea seed. Pest management: Not applicable. Pest detection: Not applicable. References: (16-15) Latham, L.I., Jones, R.A.C. and Coutts, B.A., 2004. Yield losses caused by virus infection in four combinations of non-persistently aphid-transmitted virus and cool-season crop legume. *Australian Journal of Experimental Agriculture*, 44(1), pp.57-63. [link \(abstract\)](#) [last accessed in September 2023]. (16-16) Latham, L.I. and Jones, R.A.C., 2001. Alfalfa mosaic and pea seed-borne mosaic viruses in cool season

Crop information

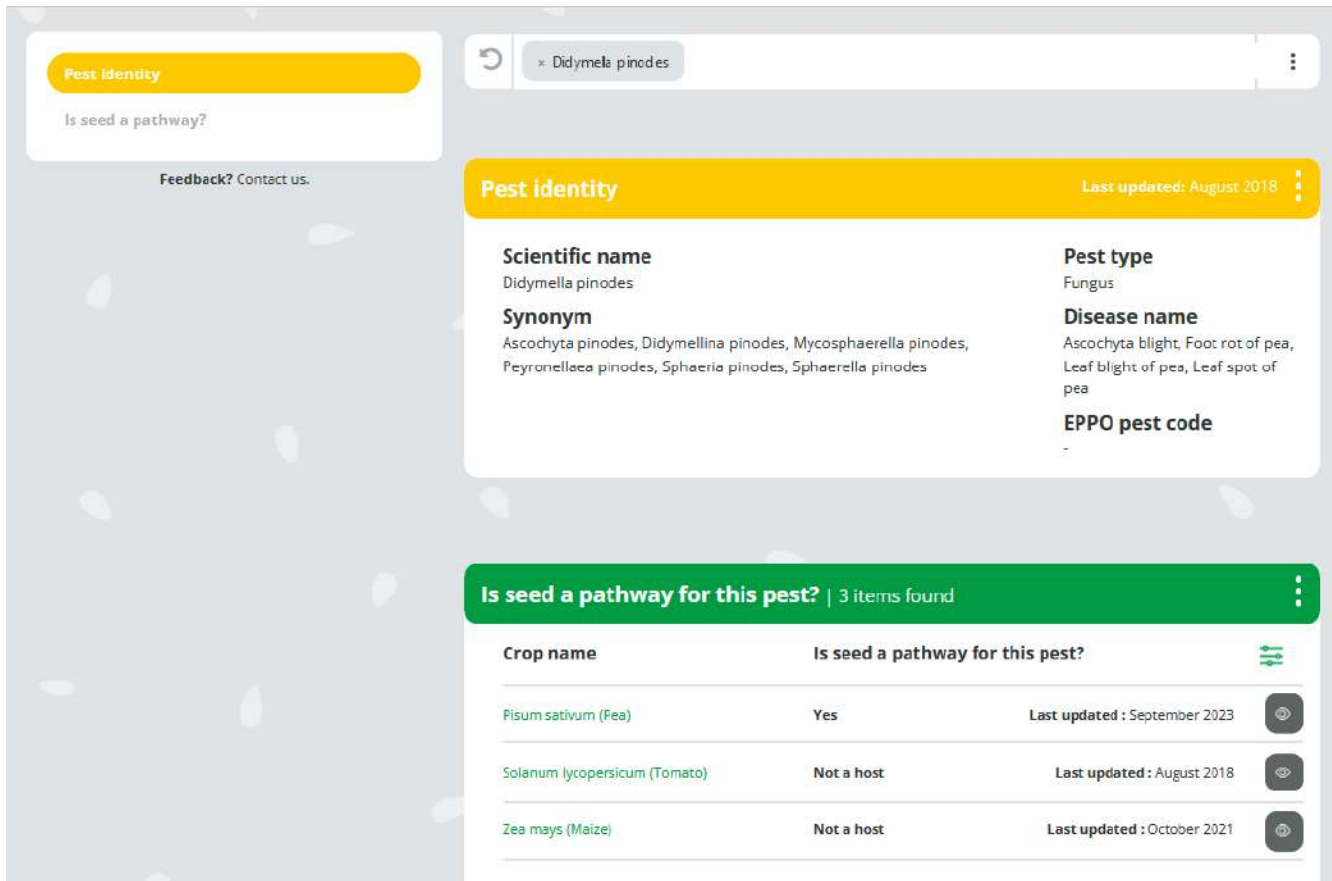
Pest information

Pest – crop information

- Pest classification
- Pest management
- Pest detection
- References

Navigating through the new RPLI database

- Searching by pest name > select crop



The screenshot shows the RPLI database interface. At the top, a search bar contains 'Didymella pinodes'. Below the search bar, there are two main sections. The first section, titled 'Pest identity', provides details about the pest: Scientific name (Didymella pinodes), Synonym (Ascochyta pinodes, Didymellina pinodes, Mycosphaerella pinodes, Peyronellaea pinodes, Sphaeria pinodes, Sphaerella pinodes), Pest type (Fungus), Disease name (Ascochyta blight, Foot rot of pea, Leaf blight of pea, Leaf spot of pea), and Eppo pest code (-). The second section, titled 'Is seed a pathway for this pest?', shows 3 items found. It contains a table with columns for Crop name, Is seed a pathway for this pest?, and Last updated.

Crop name	Is seed a pathway for this pest?	Last updated
Pisum sativum (Pea)	Yes	September 2023
Solanum lycopersicum (Tomato)	Not a host	August 2018
Zea mays (Maize)	Not a host	October 2021

Pest information

Crops on which the pest is regulated on

- Alphabetical order
- Scroll down to view them all

Navigating through the new RPLI database

- Searching by pest name > select crop

The screenshot shows the RPLI database interface. At the top, there is a search bar with the text "Didymella pinodes". Below the search bar, there is a "Pest identity" section with the following details:

- Scientific name:** Didymella pinodes
- Synonym:** Ascochyta pinodes, Didymellina pinodes, Mycosphaerella pinodes, Peyronellaea pinodes, Sphaeria pinodes, Sphaerella pinodes
- Pest type:** Fungus
- Disease name:** Ascochyta blight, Foot rot of pea, Leaf blight of pea, Leaf spot of pea
- EPPO pest code:** -

Below the pest details, there is a table titled "Is seed a pathway for this pest?" with 3 items found. The table has columns for "Crop name", "Is seed a pathway for this pest?", and "Last updated". The table contains the following rows:

Crop name	Is seed a pathway for this pest?	Last updated
Pisum sativum (Pea)	Yes	Last updated
Solanum lycopersicum (Tomato)	Not a host	Last updated
Zea mays (Maize)	Not a host	Last updated

A filter overlay is visible over the table, with the following options:

- Filter
- Pathway
- Show all
- NO
- Not a host
- Not applicable
- Uncertain
- Yes

Red boxes and arrows highlight the filter icon in the top right of the table, the "Zea mays (Maize)" row, and the "Eye" icon in the filter overlay.

Filter

Click and select

Click on

- Crop name

or

- Eye icon

Navigating through the new RPLI database

Window to navigate through the searched data

The screenshot shows the RPLI database interface. At the top, there is a search bar containing 'Didymella pinodes'. Below the search bar, there are four navigation options: 'Pest identity', 'Crop identity', 'Pest - crop information', and 'Is seed a pathway?'. The 'Crop identity' option is highlighted with a red box and a red arrow pointing to it. Below the navigation options, there is a 'Feedback? Contact us.' link. The main content area is divided into three sections: 'Pest identity', 'Crop identity', and 'Pest - crop information'. The 'Pest identity' section includes fields for Scientific name (Didymella pinodes), Synonym (Ascochyta pinodes, Didymellina pinodes, Mycosphaerella pinodes, Peyronellaea pinodes, Sphaeria pinodes, Sphaerella pinodes), Pest type (Fungus), Disease name (Ascochyta blight, Foot rot of pea, Leaf blight of pea, Leaf spot of pea), and EPPO pest code (-). The 'Crop identity' section includes Scientific name (Pisum sativum) and Common name (Pea). The 'Pest - crop information' section includes Is seed a pathway? (Yes), ISF pest code (-), Pest classification (Didymella pinodes is a seed-borne and seed-transmitted pathogen of pea...), and Pest management (Pest management of Didymella pinodes may include visual crop inspection...).

Pest information

Crop information

Pest – crop information

- Pest classification
- Pest management
- Pest detection
- References

Navigating through the new RPLI database

- **Exporting data & Feedback**

REGULATED PEST LIST

× Didymella pinodes

Pest identity Last updated: August 2018

Scientific name
Didymella pinodes

Synonym
Ascochyta pinodes, Didymellina pinodes, Mycosphaerella pinodes, Pezizosellaea pinodes, Sphaeria pinodes, Sphaerella pinodes

Pest ID
Fungus

Disease name
Ascochyta blight, Foot rot of pea, Leaf blight of pea, Leaf spot of pea

EPPD pest code
-

Crop identity Last updated: September 2023

Scientific name **Common name**
Pisum sativum Pea

Pest - crop information Last updated: September 2023

Is seed a pathway? **ISF pest code**
Yes -

Pest classification
Didymella pinodes is a seed-borne and seed-transmitted pathogen of pea. It is the major pathogen of the

Exporting data

- Click on any three dots
- Select “Export (pdf)”

Feedback

- Click on any three dots and select “Feedback”

or

- Click on “Feedback? Contact us.”

Navigating through the new RPLI database

- **Report**
 - Information searched
 - Date of download
 - Disclaimer

Pest identity

Last updated: September 2023

Scientific name

Didymella pinodes

Synonym

Ascochyta pinodes, Didymellina pinodes, Mycosphaerella pinodes, Peyronellaea pinodes, Sphaeria pinodes, Sphaerella pinodes

Pest type

Fungus

Disease name

Ascochyta blight, Foot rot of pea, Leaf blight of pea, Leaf spot of pea

EPPO pest code

-

Crop identity

Last updated: September 2023

Scientific name

Pisum sativum

Common name

Pea

Pest - crop information

Last updated: September 2023

Is seed a pathway?

Yes

ISF pest code

-

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Seed is Life