



Pest Risk Analysis decision support tool

Help

Pest initiated PRAs

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About the Tool

The Pest Risk Analysis tool is a decision support tool that presents scientific information from the CABI Crop Protection Compendium (CPC) to aid the selection of appropriate measures for reducing the risk of pest introduction and facilitating the safe movement of plants and plant products.

Features include:

- A framework in which risks associated with the importation of plant commodities and the introduction of pests into new areas can be identified and assessed
- PRA initiation 'By Pathway' or 'By Pest'
- Generation and categorization of pest lists associated with a commodity pathway
- Facilities for users to add new information and overrule existing Compendium data
- Links to relevant Crop Protection Compendium datasheets
- A template to complete risk assessments for individual pests
- A template to assign management measures to each pest identified as a risk
- An editable report of all stages of a PRA

The tool is structured around the three stages of Pest Risk Analysis

Stage 1: Initiation - identifying the reason for the PRA and the pest of concern to the PRA area

Stage 2: Risk assessment - determining the probability of entry, establishment, spread and potential consequences of an individual pest in order to determine whether it meets the criteria of a regulated pest;

Stage 3: Risk management - selecting the appropriate management options to reduce the risks identified in Stage 2.

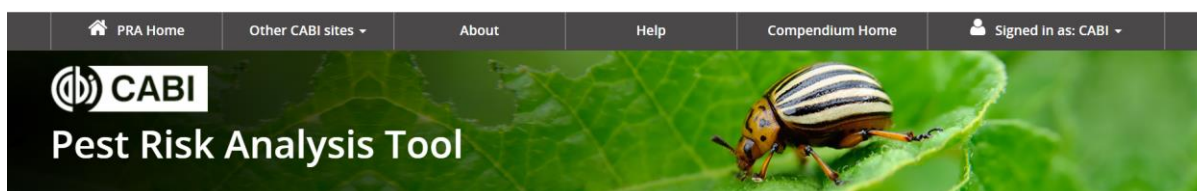
For further guidance on the PRA process please refer to the International Standards for Phytosanitary Measures developed by IPPC, in particular [ISPM 2](#) and [ISPM 11](#) at <https://www.ippc.int/en/core-activities/standards-setting/ispms/>

For queries about this tool, please contact PRA@cabi.org.

Sign in

The PRA Tool is available to subscribers of the [Crop Protection Compendium](#) who have the added option for the [PRA Tool](#). Sign in is via a MyCABI account. Login credentials are the same as MyCABI credentials on the CPC and other CABI sites.

If you do not already have a MyCABI account, you can register on the PRA login screen. This user account is required for saving your PRAs.



PRA home page

Once you have created your MyCABI account, you will have access to your home screen.

This screen has three tabs

- **PRA Home** – to view your five most recently created and/or edited PRAs
- **Previous PRAs** – to view all pest risk analyses that you have created
- **My CABI** – to edit your MyCABI personal details

Welcome back CABI

PRA Home
Previous PRAs
My CABI

Start a new PRA session

By Pathway ⓘ
 By Pest ⓘ

Recent PRAs

| Session number | PRA type | PRA title | PRA start date | PRA due date | Status | Completed date | PRA report | Delete session |
|----------------|----------|--|----------------|--------------|-------------|----------------|------------------------|--|
| P00644 | Pathway | Importing coconut to Fiji from the Solomon Islands | 05/09/2019 | 12/09/2019 | In Progress | | Report | ✕ Delete |
| P01620 | Pest | Demo Drosophila suzukii threat to South Africa | 20/12/2019 | 31/12/2019 | In Progress | | Report | ✕ Delete |
| P01619 | Pathway | Demo Oranges from Argentina to Jamaica | 01/11/2019 | 31/12/2019 | In Progress | | Report | ✕ Delete |
| P01421 | Pest | Fall armyworm risk to Australia | | | In Progress | | Report | ✕ Delete |
| P00641 | Pathway | Importing onions from the Netherlands to Dominica | 01/07/2019 | 31/07/2019 | Completed | 03/09/2019 | Report | ✕ Delete |

PRA Home

The following options are available:

- **Start a new PRA:** select the **By Pathway** button for a plant commodity PRA or the **By Pest** button for an individual pest PRA
- **View or edit a PRA:** click on the PRA title
- **Download a PRA report:** select the [Report](#) hyperlink button
- **Delete a PRA session:** select the Delete button. This will permanently delete the selected session

View the status of your PRA reports

- **In progress** – this indicates that the pest lists have been generated and some of the risk assessment / risk management stages may have been started
- **Complete** – this PRA has been marked as complete (see date of completion in the adjacent cell)

Previous PRAs

View all Pest Risk Analysis forms created in your account. All columns in this table can be sorted AZ / ZA and filtered to facilitate navigation through larger lists. 25 PRAs are shown per page.

My CABI

Make changes to the contact details stored in your MyCABI account.

Make changes to contact preferences.

CABI is continuing to make enhancements to this tool so it is helpful to have some background about who is using it and the opportunity to collect feedback.

| | | | |
|--|----------|---------------|----------------|
| | PRA Home | Previous PRAs | My CABI |
|--|----------|---------------|----------------|

My Profile

First Name

Last Name

Email

Role/job

University

I am happy to be contacted for user feedback

I am happy to be contacted about CABI product and services

[Update profile](#) [Delete My CABI Account](#)

Demo mode

When you start a new PRA you have the option to set the tool to demo mode. For Pathway PRAs this means that pest status information you enter in that session will not be connected to any other PRAs created in the tool and has been included for demonstration and learning purposes. At the moment, Pest PRAs are not connected to data entered in pathway or other pest PRAs so the Demo mode serves only as an indicator of test PRAs in your Previous

PRA index as: [Demo](#) .

Initiation

Details of the PRA are entered in this screen. The information added to these fields is used to search the Compendium data to link to the relevant datasheet.

Search for a pest: start typing to search the CPC for a species. Searching the CPC will allow the tool to provide a link to the species datasheet

Initiation: By Pest

Search the Crop Protection Compendium to link to a pest datasheet. Or if you cannot find the pest in the search dropdown you can add a new pest

Search for a pest Or add a new pest name

Is this a demo or test PRA? *

Country at risk *

Suggested title for PRA (this can be edited) *
 (100 characters left)

PRA start date PRA due date

PRA area
An officially defined country or part of a country for which the pest risk analysis is being conducted. Define as precisely as possible.
 (3000 characters left)

Define scope of PRA
This can include information on:

- Reason(s) why the PRA is required
- Details of the pathway
- Model(s) of transport

 (3000 characters left)

Reason for PRA

Do previous PRAs exist for this pest?

Do previous PRAs exist for this pest? Selecting Yes will open up two additional text boxes:
Details of previous PRAs for the pest in the PRA area
Details of other relevant PRAs for the pest

▲ References
Expand the **references box** to add references. This text box will be visible throughout the tool and can be edited and added to at any point. All references added to this text box will be added to a reference section in the report

*Pest name, country at risk and title are compulsory fields.

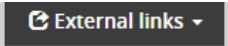
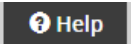
Next

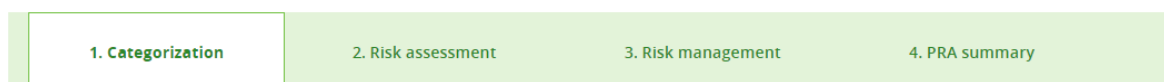
Links to Categorization, the next stage of the PRA.

Navigation in the tool

The Home screen can be accessed at any stage of the PRA process via the **breadcrumb trail** at the top of the page or by selecting  in the top left-hand corner on the tool.

Two links are also available throughout the tool

-  Opens a new tab and provides a list of external resources
-  Links to the Help page



The tool is designed around **four tabs that you can access at any point** in the PRA process:

- [Categorization](#)
- [Risk assessment](#)
- [Risk management](#)
- [PRA summary](#)

The **breadcrumb trail** allows for navigation throughout the tool:

Home > Initiation: By Pest > Categorization > Risk Assessment > Risk Management > PRA summary

Categorization

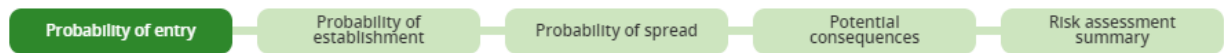
Categorization is a rapid assessment of the pest's identity, distribution and potential impacts to determine whether the pest potentially requires phytosanitary measures

- If the pest does not fulfil criteria to qualify as a quarantine pest, the PRA process can stop.
- If the pest does fulfil the criteria to qualify as a quarantine pest or in the absence of sufficient information, the uncertainties should be identified and the PRA process should continue to the risk assessment stage.

A quarantine pest is defined as: A pest of potential economic importance to the area endangered thereby and not yet present there, or present but not widely distributed and being officially controlled (FAO, 2019 [ISPM 5](#)).

Risk assessment

Risk assessment is composed of five tabs:



Under the first four tabs there is a set of questions. Text can be added below each question. Guidance is provided for some questions under Factors to consider. These Factors to consider can be used for guidance or copied into the text box to use as headings.

Next to each question, there are two drop down lists: Rating and confidence level. These are selected manually to allow you to assign a summary rating and confidence level for probability of entry, probability of establishment, probability of spread and potential consequences before deciding whether the pest requires phytosanitary measures.

Ratings available are:

Not assessed
Negligible
Low
Medium
High

Confidence levels available are:

Not assessed
Low
Medium
High

Summary section

At the bottom of each tab there is the option to provide a summary rating and confidence level along with some text to conclude the output for probability of entry, probability of establishment, probability of spread or potential consequences:

Summary

Add summary rating Add summary confidence level

Add a summary note

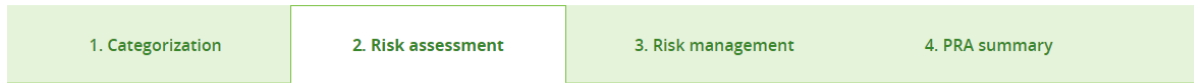
▲ References

Saves and remains on the risk assessment page

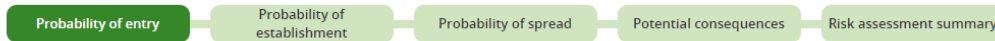
Saves and moves onto the next stage of the risk assessment

Probability of entry

Relevant pathways for introduction can be selected and assessed as part of the risk assessment process.



Risk Assessment for Spodoptera frugiperda (fall armyworm)



How might Spodoptera frugiperda (fall armyworm) enter the PRA area?

Select relevant pathways for introduction. Pathways can represent any means that allow the entry or spread of a pest. Selected pathways will be assessed individually for probability of entry and risk management

[+ Add pathway](#)

You have not currently selected any pathways

Summary note for probability of entry

[+ Add pathway](#)

Selecting Add pathway opens a pop-up window

Add pathway ✕

--Select pathway--

Pathway description

(500 characters left)

▼ 1. What is the probability of the pest being associated with the pathway at origin? Add rating

Factors to consider

- prevalence of pest in the source area
- occurrence of life stage able to associate with pathway
- seasonal timing
- pest management procedures applied at place of origin

Not assessed ▼

Add confidence level

Not assessed ▼

A dropdown list of predefined pathways is available. Additional details on the pathway being assessed can be added to the pathway description field

A custom pathway can be added by selecting 'Other' from the pathway dropdown

There are a four risk assessment questions, addressing probability of entry, which can be answered for each pathway selected. Each pathway is assessed individually.

Summary

Add summary rating

Add summary confidence level

Add a summary note

A summary statement, rating and confidence level can be added to conclude the probability of entry of the pest associated with that selected pathway

Do you consider this pathway a major or a minor pathway?

Major Minor

It is left up to the user to decide whether or how to use the concept of Major or Minor pathway. The selection will be included in the PRA report

Does this pathway require management measures?

Yes No

Yes: the pathway will be added to the risk management stage, so that management measures can be assigned to that specific pathway
No: the pathway will not be added to the risk management stage

Save

Selecting Save will close the window and add all relevant information to the probability of entry summary page.

The Probability of entry summary page lists all pathways that have been assessed.

| Added pathways | | | | | | |
|--------------------|----------------|--------------------------|----------------------|---------------------------------------|-------------------------------------|---|
| Pathway | Summary rating | Summary confidence level | Major/minor pathway? | Pathway requires management measures? | Edit pathway | Delete pathway |
| Budwood/graftwood | Medium | Medium | Minor | No | <input type="button" value="Edit"/> | <input type="button" value="✕ Delete"/> |
| Seeds for planting | Medium | High | Major | Yes | <input type="button" value="Edit"/> | <input type="button" value="✕ Delete"/> |

Summary note for probability of entry

The table displays all pathways that have been assessed, the summary rating and confidence levels and whether the pathway requires specific management measures. A summary statement can be added for the probability of entry of the pest, considering all pathways identified and assessed.

Risk assessment summary

The Risk assessment summary page contains a table with the summary ratings and confidence levels selected for probability of entry, probability of establishment, probability of spread or potential consequences.

Select to return to the risk assessment and edit the relevant tab.

Based on the information included in the risk assessment, the decision should be made as to whether the pest requires phytosanitary measures. This completes the risk assessment stage:

Does the pest require phytosanitary measures?

Yes No

Yes – the option to continue to risk management will appear

No – the PRA can end

Risk management

The Risk management form lists all pathways that were identified as requiring phytosanitary measures at the probability of entry stage and contains a predefined set of phytosanitary measures to address post-entry management measures.

Select an appropriate phytosanitary measure by clicking on the check box and **adding details** in the text box underneath.

Risk management for: **Agonoxena pyrogramma**

▲ At the place of production

| | |
|--|---|
| <input checked="" type="checkbox"/> Inspection or testing | <input type="checkbox"/> Post-harvest treatment |
| Type your note here... <small>(1000 characters left)</small> | Type your note here... <small>(1000 characters left)</small> |
| <input type="checkbox"/> Treatment of crop, field or place of production | <input type="checkbox"/> Specially protected growing conditions |
| Type your note here... <small>(1000 characters left)</small> | Type your note here... <small>(1000 characters left)</small> |

Once all risk management options have been considered this stage can be marked as complete:

Are management options for **Agonoxena pyrogramma** complete?

Yes No

Pest risk analysis summary

What information is in the table?

The Pest risk analysis summary tab provides a summary of the risk assessment ratings and the management options selected for each pathway and post entry. Management options can be edited by returning to the Pest risk management tab.

There are two text boxes available to add a summary and details of next steps:

PRA summary notes
Type your note here...

(1000 characters left)

Next steps
Type your note here...

(1000 characters left)

Save and return to pest list

Change PRA status to complete

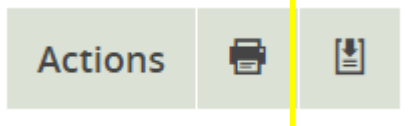
The PRA can be finalized by clicking on the **'Change PRA status to complete'** button below.

The PRA will then show as 'complete' in your recent PRAs and previous PRAs on the homepage. You can still go back and edit the PRA at any time by clicking on the PRA title in the recent PRAs and previous PRAs tables.

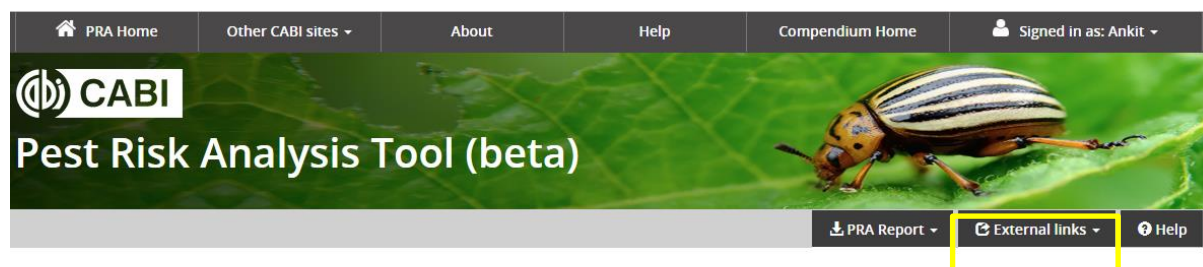
Report

The report output can be generated at any stage of the PRA process.

The report will initially be generated as an HTML document but can be exported as a Word document by selecting the download button:



External links



A dropdown of relevant websites is provided.

International Organizations

[Food and Agriculture Organization \(FAO\)](#)

[IPPC International Phytosanitary Portal \(IPP\)](#)

[International Seed Federation \(ISF\)](#)

[Standards and Trade Development Facility \(STDF\)](#)

[World Trade Organization \(WTO\)](#)

[Regional Plant Protection Organizations \(RPPOs\)](#)

[National Plant Protection Organizations \(NPPOs\)](#)

Phytosanitary Standards and Regulations

[IPPC International Standards for Phytosanitary Measures \(ISPMs\)](#), see particularly and [ISPM 2](#) and [ISPM 11](#) for PRA and [ISPM 5](#) for a glossary of phytosanitary terms

[WTO Sanitary and Phytosanitary Measures](#)

[EPPO Platform on PRAs](#)

Agricultural Production and Trade Statistics

[FAOSTAT](#)

[UN Comtrade Database](#)

[USDA Foreign Agricultural Service \(FAS\)](#)

[IPPC PRA Training Materials](#)