



Pest Risk Analysis decision support tool

Help

Pathway 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(s) of concern to the PRA area;

Stage 2: Risk assessment - determining the likelihood 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.

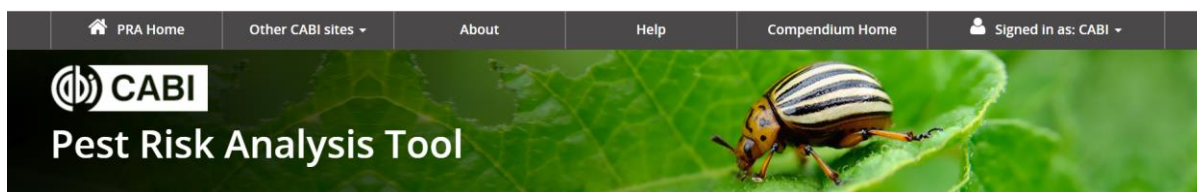
For further guidance on the PRA process please refer to the International Standards for Phytosanitary Measures developed by IPPC, in particular [ISPM 2](#) and [ISPM 11](#) at <https://www.ippc.int/en/core-activities/standards-setting/ispms/>

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.

Demo mode

When you start a new PRA you have the option to set the tool to demo mode. This means that information you enter in that session will not be connected to any other PRAs created in the tool. This has been included for demonstration and learning purposes and PRAs created in this mode are indicated by  in the lists of PRAs.

Initiation

Details of the PRA pathway are entered in this screen. The information added to these fields is used to search the Compendium data and any relevant user modifications to pest status to generate pest lists.

The title, selection of demo mode, importing and exporting country, and crop are mandatory fields. These fields are required to generate the pest lists, which are visible at the next stage of your PRA.

Once you have generated the pest lists you can no longer edit the title, demo mode, exporting and importing countries, crops and commodity types in the initiation page. To make changes to these fields, you will need to start a new PRA session from the Home screen. The other text fields can be edited.

Please note that the pest lists are not updated by later changes to the Compendium data or to pest status modifications made outside the current PRA.

You do not need to save the pest lists – these are automatically saved once generated.

Initiation: By Pathway

Title *

Name the session for future reference

Importing apples from South Africa to Zambia

(56 characters left)

Is this a demo or test PRA? *



Yes

No

Demo mode is for demonstration and learning purposes. Select this option if you do not wish the information you add to this session to be used in later PRAs

PRA start date

01/Dec/2019



PRA due date

31/Dec/2019



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.

Zambia

(2094 characters left)

Define scope of PRA

This can include information on:

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

New request to import fresh apples from Western and Eastern Cape, South Africa

(2022 characters left)

Add commodity volume/quantity

Not yet known

(87 characters left)

The importing and exporting countries and crops selected will be used to generate pest lists from CPC data.

Start typing and select from the picklists below.

Exporting country *

South Africa



Importing country *

Zambia



Start typing and select from pick lists

Select the crop(s) being imported *

Start typing (3 characters required)

Imported crop	Remove
Malus domestica (apple)	

Start typing and select from pick lists – you can select more than one crop

Select the commodity type

- | | | |
|--|---|---|
| <input type="checkbox"/> All | <input type="checkbox"/> Fruits including pods | <input type="checkbox"/> Seedlings, micro-propagated plants |
| <input type="checkbox"/> Bark | <input type="checkbox"/> Growing medium accompanying plants | <input type="checkbox"/> Stems (above ground), shoots, trunks, branches |
| <input type="checkbox"/> Bulbs, tubers, corms, rhizomes | <input type="checkbox"/> Leaves | <input type="checkbox"/> True seeds including grain |
| <input type="checkbox"/> Flowers, inflorescences, cones, calyx | <input type="checkbox"/> Roots | <input type="checkbox"/> Wood |

Notes

Apples should be free from surface dirt and blemishes, leaves removed.

The **Commodity Type** selection is optional - select all the plant parts that constitute the commodity, or skip

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 included in a References section in the PRA report

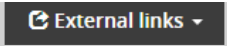

Select **Generate Pest List** to continue to the next stage and view pest lists compiled from Compendium data

Generate Pest List

Navigation in the tool

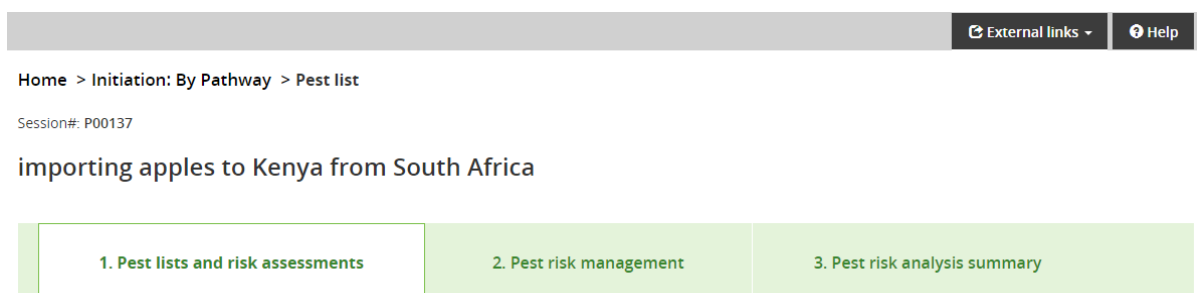
The Home screen can be accessed at any stage of the PRA process via the **breadcrumb trail** at the top of the page or by selecting  in the top left-hand corner on the tool.

Two links are also available throughout the tool

-  Opens a new tab and provides a list of external websites that provide useful information on PRA
-  Links to the Help page

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

- [Pest lists and risk assessments](#)
- [Pest risk management](#)
- [Pest risk analysis summary](#)



The screenshot shows the top navigation bar with 'External links' and 'Help' buttons. Below it is a breadcrumb trail: 'Home > Initiation: By Pathway > Pest list'. The session number 'P00137' is displayed. The main heading is 'importing apples to Kenya from South Africa'. At the bottom, there are three tabs: '1. Pest lists and risk assessments' (active), '2. Pest risk management', and '3. Pest risk analysis summary'.

Pest Lists and Risk Assessments

This tab presents two lists, ordered alphabetically based on the pathway details entered at the initiation stage. The pests are categorized into two lists based on Compendium data:

Pests potentially requiring phytosanitary measures

- **Present** in the **exporting country**
- **Absent** in the **importing country**
- A pest of the **crop** selected
- Liable to be carried in the **commodity type** selected *or* there is no data on the commodity type for that pest (this is an incomplete dataset)

Individual risk assessments can be completed on pests included in this table. Pests in this table can be excluded from the assessment (see **User actions**).

Pest excluded from the assessment

- **Present** in the **exporting country**
- **Present** in the **importing country**
- A pest of the **crop** selected
- Liable to be carried in the **commodity type** selected *or* there is no data on the commodity type for that pest (this is an incomplete dataset)

Pests in this table can be included in the assessment (see **User actions**).

Select the list you wish to view by selecting the button next to the relevant list title:

1. Pest lists and risk assessments

2. Pest risk management

3. Pest risk analysis summary

Categorized pest lists

Pests have been categorized into two lists based on CABI's distribution data and details of crop and commodity types entered at the Initiation stage. Select which list to view below:

- Pests potentially requiring phytosanitary measures
- Pests excluded from assessment

Or view both lists by downloading the full pest list [Download full pest list](#)

Full pest list

The full pest list is the combination of the two lists detailed above. The title of the PRA and date of download, and URLs to relevant CPC datasheets will also be added to the CSV file.

[Download full pest list](#)

The full pest list is available for download as a CSV and is included in the Appendix I of the report output.

Pest lists – what information is provided in the table?

The number of pests included in this list is provided alongside the table heading:

53 Pests potentially requiring phytosanitary measures

Pests recorded on selected crop and not recorded or recorded as absent in the importing country or present with special regulatory status. Individual risk assessment can be completed on pests included in this table.

Risk assessment	Pest name	Type	On crop	On commodity type	Exporting Country	Importing Country	Number of countries where present	Regulatory status	Notes	Modified by user	User actions
Start	Alternaria citri (stalk end rot)	Ascomycota	Yes		Present	Absent	48				...
Continue	Dialeurodes citri (citrus whitefly)	Arthropoda	Yes		Present	Absent	45				...
Start	FAW	Arthropoda	Yes	?	Present	Absent		2			...
Start	Neoallturus haematoceps	Arthropoda	Yes		Present	Absent	22	3			...
Start	Parthenolecanium persicae (peach scale)	Arthropoda	Yes		Present	Absent	66				...
Start	Pseudomonas fluorescens (pink eye: potato)	Proteobacteria	Yes		Present	Absent	36				...
Start	Spiroplasma citri (stubborn disease of citrus)	Firmicutes	Yes		Present	Absent	30				...



Page 1 of 1 [+ Add Pest](#)

Start	Alternaria citri (stalk end rot)
Continue	Dialeurodes citri (citrus whitefly)

Start the Risk Assessment for this pest

Continue adding information or edit the risk assessment for this pest

Information in the categorized pest lists:


Pest Name	Lists the scientific name (common name) of the pest
Type	Lists the taxonomic group of the pest
On crop	Indicates 'Yes' when the pest has been recorded as a pest of the crop(s) selected at the initiation stage
On Commodity type	Indicates 'Yes' when the pest has been recorded on the commodity(ies) selected at the initiation stage "?" indicates that there is no commodity type information available for that pest
Exporting country	Status of the pest in the exporting country
Importing country	Status of the pest in the importing country
Number of countries where present	A count of the number of countries/states where that pest has been recorded as present in the CPC distribution data. This may help to prioritize the pest list
Regulatory status	This can be added manually for pests that already have a regulatory status for the importing country
Risk assessment	Indication of whether the Risk assessment for that pest has been started
Notes	The presence of the  icon indicates that a note has been added. The note can be viewed by clicking on the icon
Modified by user	The presence of the  icon indicates that the data in the table has been modified by the user
User actions	A pop-up that allows you to: go the that pest's risk assessment; exclude the pest from the assessment; add a Regulatory status; add notes; go the pest's CPC datasheet

Pests potentially requiring phytosanitary measures

This is a list of the pests recorded on the selected crop and not recorded or recorded as absent in the importing country, or present with special regulatory status.

At this stage you should be aiming to include here all the pests that are associated with the pathway and are either already regulated or are candidates for detailed risk assessment and potential regulation. If you have additional information, you can overrule Compendium data to switch lists and exclude pests from further assessment. It is suggested that you include a reference or note to support the updated status. This user modification is included in the Report under the section on **Modified Pest Records**.


Pests potentially requiring phytosanitary measures - User actions ☰

Primary action	Secondary action	Outcome
Go to risk assessment		Go to the individual risk assessment template for that pest
Exclude from risk assessment	Options available:	Remove the pest from the list and add it to the list of Pests excluded from the assessment
	Present in importing country	Updates the distribution status of the pest to present in the importing country
	Absent in exporting country	Updates the distribution status of the pest to absent in the exporting country
	Not known as a pest of the crop	Updates the value in the On crop? column to 'No'
	Not known in/on selected commodity types	Updates the value in the On commodity? column to 'No'
	Other	The notes field is compulsory if 'Other' is selected
Add Regulatory status		Add a value of 1-4 to the Regulatory status column in the table if relevant
	1 = Quarantine pests that are absent from the country	
	2 = Quarantine pests that are present in the country but not widely distributed and under official control	
	3 = Regulated non-quarantine pests that are present in the country but whose presence in plants for planting affects their intended use	
	4 = Pest requiring phytosanitary measures (not yet officially listed)	
Add notes		Notes added will be saved and visible by clicking on the  in the pest list
View datasheet		Links to the CPC datasheet for that pest
Generate datasheet		Links to the Generate datasheet report function the CPC. Use this to download all / selected datasheet sections to work offline

Pests excluded from the assessment

This is a list of the pests of the selected crop that are recorded as present in both the importing and exporting country.


If you have additional information, you can overrule the Compendium data to switch lists and include pests in the List of pests potentially requiring phytosanitary measures. It is useful to include a reference or note to support the exclusion. This added information is included in the PRA report.

Primary action	Secondary action	Outcome
Include as pest potentially requiring phytosanitary measures	Options available:	
	Absent in importing country	This will update the distribution status of the pest to absent in the importing country
	Present, under official control in importing country	This will update the distribution status of the pest to Present in the importing country
	Other	The notes field is compulsory if 'Other' is selected
Add notes		Notes added will be saved and visible by clicking on the  in the pest list
View datasheet		Links to the CPC datasheet for that pest
Generate datasheet		Links to the Generate datasheet report function the CPC. Use this to download all / selected datasheet sections to work offline

The list of pests excluded from the assessment is included in Appendix II of the report output.

Add a pest

Pests can be added to the List of pests potentially requiring phytosanitary measures by

selecting  which is found at the bottom of the pest list.

You may wish to do this because you have information about the pest's occurrence in the exporting country or on the crop that is not found in the Compendium. Try searching for the pest using its preferred scientific or common name in the picklist. If found, a link will be provided to the datasheet. If the name is not found it can be manually entered as a new pest name.

Please add the pest Type and the regulatory status for the importing country if relevant.

Add Pest



Pest name *

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

Type *

What is the regulatory status of the pest?

How are user modifications to pest status handled in the tool?

If you have additional information to overrule the Compendium pest status for presence or absence in the importing or exporting country and have saved this as a User modification in a PRA that is not set to demo mode, your information will be used instead of the Compendium data for generating pest lists in new PRAs. These records will be shown in the pest list with an orange user modification icon  and will include a Note that gives the reason for inclusion in the pest list and any reference or note you had added. Pests excluded from the assessment based on your data are also indicated in this way.

Risk assessment	Pest name	Type	On crop	On commodity type	Exporting Country	Importing Country	Number of countries where present	Regulatory status	Notes	Modified by user	User actions
Start	Agrotis ipsilon (black cutworm)	Arthropoda	Yes		Present	Absent	106				...
Start	Aphis gossypii (cotton aphid)	Arthropoda	Yes		Present	Absent	171				...
Start	Aphis spiraecola (Spirea aphid)	Arthropoda	Yes		Present	Absent	111				...
Start	Apple chlorotic leaf spot virus (apricot butterfly)	Virus	Yes		Present	Absent	63				...
Start	Apple mosaic virus (chestnut mosaic)	Virus	Yes		Present	Absent	57				...
Start	Apple rubbery wood phytoplasma (apple rubbery wood)	Firmicutes	Yes		Present	Absent	25				...
Start	Apple stem grooving virus	Virus	Yes		Present	Absent	59				...
Start	Apple stem pitting virus (apple Spy 227 epinasty & decline)	Virus	Yes		Present	Absent	47				...
Start	Athelia rolfsii (sclerotium rot)	Basidiomycota	Yes		Present	Absent	140				...
Start	Botryosphaeria dothidea (canker of almond)	Ascomycota	Yes		Present	Absent	22				...



The orange icon indicates that the record was modified by you in a previous PRA.



The black icon indicates that the record was modified by you in the current PRA.

The orange icon flags up the pests that are not derived directly from Compendium data when you first generate the pest list. Any edits you make to those pest records will be saved with the black icon to show that the record has been modified in the current session. The orange icon will also change to black when you start a risk assessment as that indicates that the modification from a previous PRA has been accepted as valid for this PRA.

Aphis gossypii (cotton aphid)
×

User modification: Absent in importing country

Notes and references

Bobel L, Jones J, 2008. Eradication of Aphis gossypii from Zambia. Plant Disease, 90(6):976.

The note provides the reason for the modification and any references or notes you had added. To edit the text or select other User actions go to the User actions menu.

User modifications to the pest's presence on the host(s) and commodity type(s) are not currently included in this data feedback to future PRAs and the user modifications for presence/absence are saved against the country as an importing or exporting country and are not taken into account if that role is reversed. Manually added pests, regulatory status, risk assessment and risk management sections are also not included by the tool in future PRAs but the information could be copied across from previous sessions.

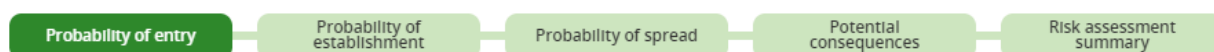
Your modification to presence/absence in the importing/exporting country will be ignored if the Compendium record has been updated to agree with the status you entered.

The demo mode has been added so that PRAs can be created that take into account any user modifications but do not contribute data to future PRAs.

Risk assessment

A risk assessment can be completed for each pest in the Pest potentially requiring phytosanitary measures list. Individual pest risk assessments can be saved and edited at any point.

The risk assessment component is composed of five tabs:



Under the first four tabs there are 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 dropdown 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

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

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 to 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 pest will be moved to the pests requiring management list with the option to assign risk management measures

No – the pest will still be moved to the pests requiring management list but will be annotated with management 'Not required'


Risk management

Pests are moved to the Pest risk management tab once the risk assessment is completed and either **Yes** or **No** has been selected for the question “Does this pest require phytosanitary measures?” in the risk assessment summary. From this list, management options can be assigned for each pest.

User actions	A pop-up that allows you to: go to and complete risk management; review completed risk assessment; add notes; go the pest’s CPC datasheet; generate the datasheet report
Type	Lists the taxonomic group of the pest
Pest name	Lists the preferred scientific name (preferred common name) of the pest
On crop	Indicates ‘Yes’ when the pest has been recorded as a pest of the crop(s) selected at the initiation stage
On commodity type	Indicates ‘Yes’ when the pest has been recorded on the commodity selected at the initiation stage. “?” indicates that there is no commodity type information available for that pest
Exporting country	Status of the pest in the exporting country
Importing country	Status of the pest in the importing country
Number of countries where present	A count of the number of countries/states where that pest has been recorded as present in the CPC distribution data. This may help to prioritize the pest list
Regulatory status	Existing regulatory status, if added by the user
Risk assessment	Indication that the risk assessment for that pest has been completed
Risk management	Indication of whether management measures have been assigned to that pest
Notes	The presence of the  icon indicates that a note has been added. The note can be viewed by clicking on the icon
Modified by user	The presence of the  icon indicates that the data in the table has been modified by a user.

User actions

Primary action	Secondary action	Outcome
Go to and complete risk management		Links to the form where management measures can be assigned to the pest

Review completed risk assessment	Links to the risk assessment form for the pest to view or modify the assessment
Add notes	Notes added will be saved and visible by clicking on the  in the pest list
View datasheet	Links to the CPC datasheet for that pest
Generate datasheet	Links to the Generate datasheet report function the CPC. Use this to download all / selected datasheet sections to work offline

Selecting 'Go to and complete risk management'

A risk management form can be completed for each pest in the **Pests requiring phytosanitary measures** list. Individual pest's risk management forms can be saved and edited at any point.

The risk management form contains a predefined set of phytosanitary measures that can be assigned to pests.

Select a phytosanitary measure by clicking on the check box and **add details** in the text box underneath.

Risk management for: **Agonoxena pyrogramma**

▲ At the place of production

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

To mark the risk management for a pest as complete in the List of pests requiring phytosanitary measures select **Yes** at the bottom of the risk management form:

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 displays the management options selected for each pest for the PRA. Management options for each pest 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:

<p>PRA summary notes</p> <p>Type your note here...</p> <p>(1000 characters left)</p>
<p>Next steps</p> <p>Type your note here...</p> <p>(1000 characters left)</p>

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.

Updates in the Compendium that may affect the pest lists generated for the pathway are not incorporated into the PRA.

Report

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

There are two options to select from when generating a report:

View report (completed sections only) – this will only export a report of sections, such as risk assessment for which data have been added.

View full report (all completed section with template questions) – this will produce a report containing all sections that data have been added to and a blank template of the risk assessment questions and risk management options to allow for further work outside of the tool.



CABI
Pest Risk Analysis Tool (beta)

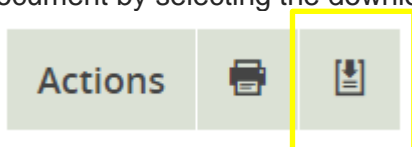
Home > Initiation: By Pathway > Pest list
Session#: P00179
Test - Coconut imported from Solomon Islands to Fiji

↓ PRA Report ▾ External links ▾ Help

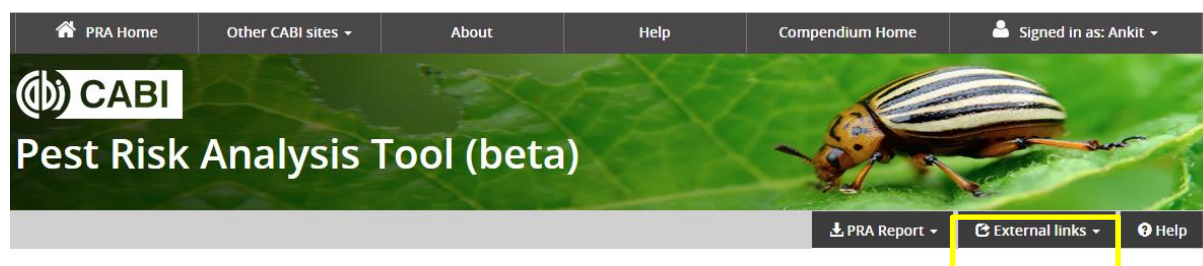
View report (completed sections only)

View full report (all completed sections with template questions)

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



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](#)