Pest Risk Analysis decision support tool
Help
Pathway initiated PRAs

Contents

Link to sections by selecting the title of the section in the table above

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

Sign in

Sign in 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.

Signing out of MyCABI
It is recommended you close your PRA session when you have finished, either by:
- Closing the browser tabs you have been using
- Signing out of MyCABI

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.
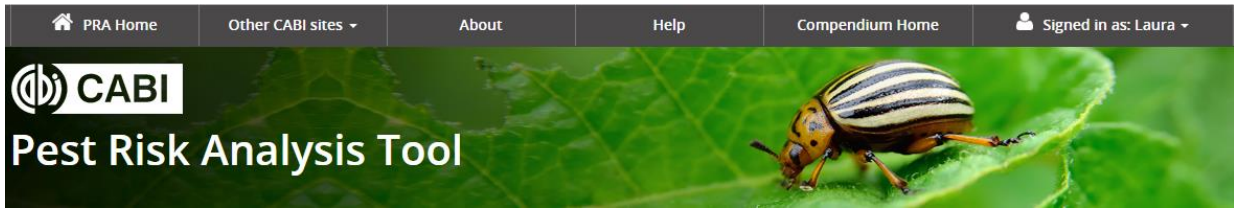
Home page

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 Pest risk analyses
- **Previous PRAs** – to view all pest risk analyses that you have created
- **My CABI** – to edit your MyCABI personal details.

PRA Home page

To **start a new plant commodity pest risk analysis:** select the **By Pathway** button
To **download an existing PRA report**: select the <u>Report</u> hyperlink button
To **delete a PRA session:** select the **Delete** button
Note: this will permanently delete the selected session.

View the status of 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).
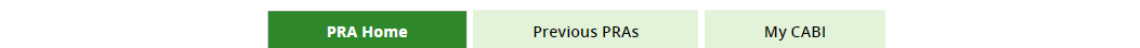
Session number	PRA type	PRA title	PRA start date	PRA due date	Status	Completed date	PRA report	Delete session
P00006	Pathway	Coconut from Solomon islands to Fiji	08/11/2018	15/11/2018	In Progress		Report	✕ Delete
P00731	Pest	FAW in Australia			In Progress		Report	✕ Delete
P00713	Pathway	Importing coconut from Solomon Islands to Fiji			In Progress		Report	✕ Delete
P00404	Pathway	Importing onions to Dominica from the Netherlands	05/06/2019	04/07/2019	In Progress		Report	✕ Delete
P00690	Pest	FAW in Algeria			In Progress		Report	✕ Delete

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.

A maximum of 25 PRAs will be listed per page, use the pagination icon at the bottom of the table to navigate through multiple pages.

	PRA Home	Previous PRAs	My CABI

Previous PRAs

Session number ⇕ ▼	PRA title ⇕ ▼	PRA start date ⇕ ▼	PRA due date ⇕ ▼	Status ⇕ ▼	Completed date ⇕ ▼	PRA report	Delete session
P00103	Importing onions to Kenya from China	09/Oct/2018	29/Mar/2019	In Progress		Report	✕ Delete
P00102	Importing apples to Kenya from South Africa	07/Oct/2018	28/Feb/2019	In Progress		Report	✕ Delete
P00101	Importing pears to Kenya from South Africa	06/Oct/2018	27/Feb/2019	In Progress		Report	✕ Delete
P00100	Importing citrus to Kenya from Egypt	04/Oct/2018	22/Feb/2019	In Progress		Report	✕ Delete
P00099	Importing wheat to Kenya from Poland	01/Oct/2018	28/Dec/2018	In Progress		Report	✕ Delete

My CABI

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

	PRA Home	Previous PRAs	My CABI

My Profile

First Name

First Name

Last Name

Last Name

Email

example@gmail.com

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

Initiation

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

Title *

Name the session for future reference

> Lemons from Morocco

(81 characters left)

PRA start date | **PRA due date**

> 08/Oct/2019 🗓 | 29/Nov/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.

> South Africa

(2988 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

> Assess potential impact of importing lemons from Morocco

(2944 characters left)

Add commodity volume/quantity

> TBC - dependent on risk

(77 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 * | **Importing country** *

> Morocco ▼ | South Africa ▼

*Start typing and select from pick lists**

Select the crop(s) being imported *

> 🔍 Start typing (3 characters required)

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

Imported crop	Remove
Citrus limon (lemon)	🗑

Select the commodity type

- [ ] All
- [ ] Bark
- [ ] Bulbs, tubers, corms, rhizomes
- [ ] Flowers, inflorescences, cones, calyx
- [ ] Fruits including pods
- [ ] Growing medium accompanying plants
- [ ] Leaves
- [ ] Roots
- [ ] Seedlings, micro-propagated plants
- [ ] Stems (above ground), shoots, trunks, branches
- [ ] True seeds including grain
- [ ] Wood

Select all the plant parts that constitute the commodity

Notes
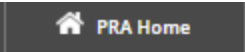
> Test notes

▲ References

Expand the reference 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 his text box will be added to a reference section in the report.

*Select **generate pest list** to continue to the next stage and view pest lists compiled from compendium data*

[Generate Pest List]

*The title, 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, exporting and importing countries, and the crops in the initiation page. To make changes to these fields, you will need to start a new PRA session from the Home screen.

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

If you return to the Initiation page after generating the pest list, you will be **able to edit all text fields**. There are two options at the bottom of the page:
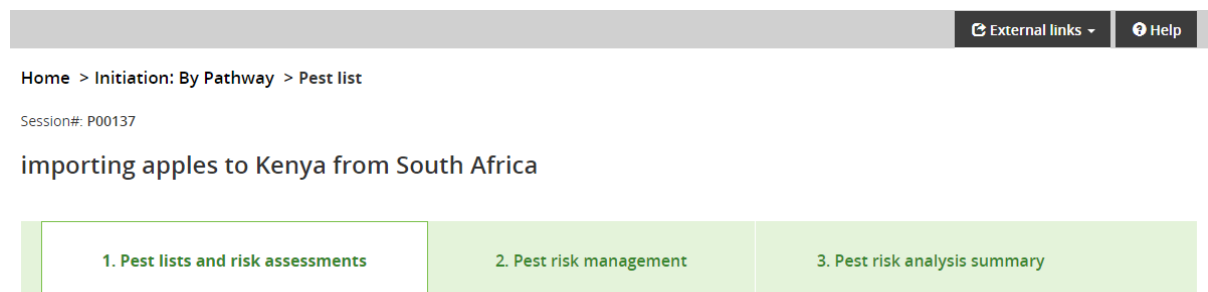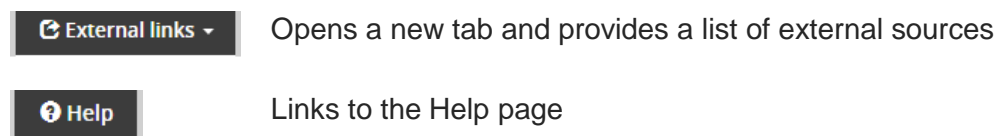
Save | Save and go to pest list

Save will take you back to your Home screen
Save and go to pest list will save your edits and take you to the pest list screen.

Navigation in the tool

Two links are also available throughout the tool

⟳ External links ▾   Opens a new tab and provides a list of external sources

❓ Help   Links to the Help page

⟳ External links ▾ ❓ Help

Home > Initiation: By Pathway > Pest list

Session#: P00137

importing apples to Kenya from South Africa

| 1. Pest lists and risk assessments | 2. Pest risk management | 3. Pest risk analysis summary |

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

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

There is also **breadcrumb trail** that allows for navigation throughout the tool:

Home > Initiation: By Pathway > Pest list > Alternaria alternata : Risk Management

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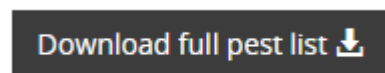
The full pest list is available for download as a CSV and is included in the Appendix I of the report output.

Pest lists – what information is provided in the table?

The number of pests included in this list will be 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	49			👤	•••
Continue	Dialeurodes citri (citrus whitefly)	Arthropoda	Yes		Present	Absent	45				•••
Start	FAW	Arthropoda	Yes	?	Present	Absent		2		👤	•••
Start	Neoaliturus 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	38				•••

⧏ ◂ Page 1 of 1 ▸ ⧐ + Add Pest

Start	Alternaria citri (stalk end rot)	Start the Risk Assessment for this pest
Continue	Dialeurodes citri (citrus whitefly)	Continue adding information or edit the risk assessment for this pest

Pests can be added manually by selecting: **+ Add Pest**

The following information will need to be entered to populate the pest list:

Add Pest ✖

Pest name *
Suggested format: Scientific name (common name)

[ ]

Type *

[▼]

Is the species a known pest of Citrus limon (lemon) *

[▼]

Is the pest present in Morocco? *

[▼]

Is the pest present in South Africa? *

[▼]

What is the regulatory status of the pest?

[▼]

Cancel   Save

8

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 a 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.

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
	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.

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.

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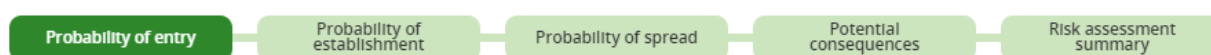
Under the first four tabs there are a set of questions. Text can be added below each question. Guidance is provided for some questions under Factors to consider. These Factors to consider can be used for guidance or copied into the text box to use as headings.

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:	**Confidence levels available are:**
Not assessed	Not assessed
Negligible	Low
Low	Medium
Medium	High
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:

 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**

☑ Inspection or testing

Type your note here...

(1000 characters left)

☐ Post-harvest treatment

Type your note here...

(1000 characters left)

☐ Treatment of crop, field or place of production

Type your note here...

(1000 characters left)

☐ Specially protected growing conditions

Type your note here...

(1000 characters left)

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:

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.
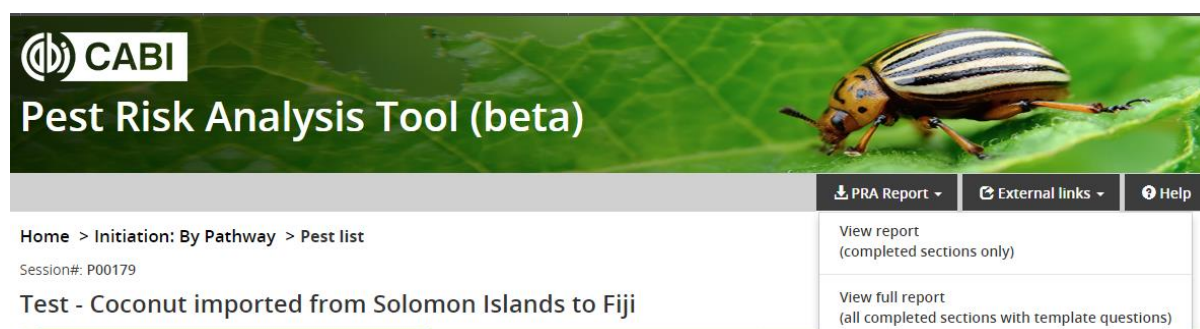
Report

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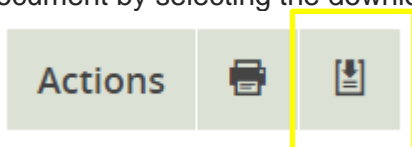
The report will initially be generated as an HTML document but can be exported as a Word document by selecting the download button:

External links
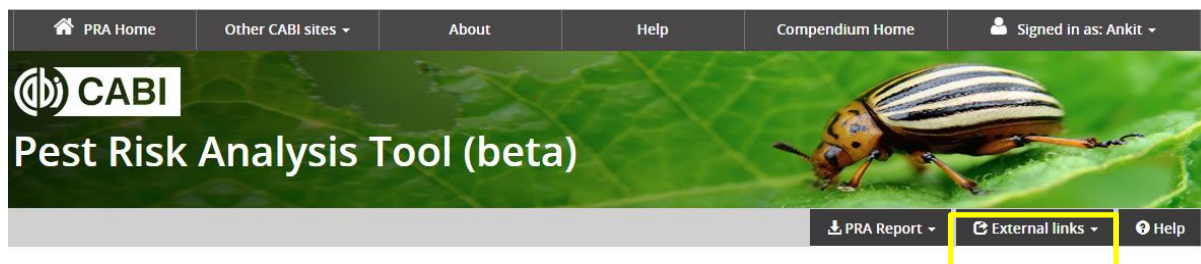
A dropdown of relevant websites is provided.

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