



Embedding SDGs in strategies and products

CABI case study

Andy Robinson, Managing Director, Publishing and Knowledge



SUSTAINABLE DEVELOPMENT GOALS





SUSTAINABLE DEVELOPMENT GOALS

- **Quality education**
 - Databases, books, e-learning, journals, news
 - Research4Life
- **Gender and other inequalities**
 - Equity, diversity and inclusion programmes
 - Gender and pay equity
 - RSC Joint Commitment for Action on Inclusion and Diversity in Publishing
 - Editorial board mentoring
- **Responsible consumption and production**
 - Print / digital
 - Sustainable production
- **Partnerships for the goals**





SUSTAINABLE DEVELOPMENT GOALS



Who we are and what we do

- CABI is an international not-for-profit organization that improves people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment
- We help farmers grow more and lose less of what they produce, combating threats to agriculture and the environment from pests and diseases and improving access to scientific knowledge

Our areas of focus and expertise



**Food and
nutrition security**



Crop health



**Climate change
and biodiversity**



Invasive species



**Gender
and youth**



**Knowledge
management**



**Economic
development**



Value chains and trade



Improve the food security and livelihoods of smallholder communities



13 CLIMATE ACTION



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Help communities reduce and adapt to climate-change impacts on crops and landscapes

5 GENDER
EQUALITY



10 REDUCED
INEQUALITIES



Reduce inequality through better opportunities for rural women and youth



Safeguard biodiversity and support sustainable use of natural resources



Increase the reach, application & impact of science in agriculture and the environment

Our products and services

We provide the **know-how** and turn evidence-based information into **actionable advice** for making critical decisions

Supporting study, practice and professional development through our publishing products, research services and tools



Online
databases



Open access journals
and research services



Books
and eBooks



Education and
training



Tool and apps



The invasives challenge

- The global cost of invasive species is ~ **US\$1.4 trillion per year**
- **Fall Armyworm causes US\$1bn-4.6bn** worth of crop losses in Africa alone
- Invasive species disproportionately affect vulnerable communities in poor rural areas
- **100 million women spend 20 billion hours** weeding per year
- Invasive species fundamentally threaten sustainable development by:
 - undermining economic growth and food security
 - contributing to economic migration
 - causing loss of biodiversity

Invasive species are a specific SDG target...



“By 2020 introduce measures to **prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems**, and control or eradicate the priority species.” **SDG 15.8**

...but they impact almost all SDGs



Invasive species such as **the tomato leafminer** can **destroy up to 90% of harvests**, wiping out farmers' incomes



In Africa, **100 million women** spend **20 billion hours weeding**, an average of 200 hours per person per year



The tawny crazy ant **impacts electrical systems**, while Japanese knotweed can **grow through concrete**



Up to 16% (US\$96 billion worth) of the world's **rice, wheat, and maize** is lost every year due to invasive species



The long roots of Prosopis sap freshwater resources and **increase water loss** by three times



Longer seasons and warmer weather are creating ideal conditions for **highly adaptive invasive species** to thrive, out-competing native fauna



Invasive species, such Parthenium weed, can cause dermatitis, respiratory problems and other **health issues**



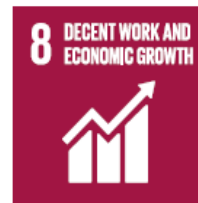
Aquatic weeds and invasive mussels **choke hydroelectric schemes**, affecting operations and increasing costs



Water hyacinth depletes underwater oxygen levels, **killing fish, turtles and other aquatic animals**



Approximately **70% of school children** leave **school** during peak weeding times to help control invasive plants



Invasive species are estimated to **cost the global economy** over **US\$1.4 trillion**



Invasive plants **reduce native plant richness** by up to 90%

... and the challenge is growing due to increased trade and climate change

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CABI

Invasive Species Compendium

Detailed coverage of invasive species threatening livelihoods and the environment worldwide


Filter by type Search

[Advanced Datasheet Search \(Beta\)](#)


Changes to Compendia distribution data: the distribution tables, maps and references in datasheets have been restructured to handle the data better for updating and align with a geographic standard. Further details are available in Help.

Featured species


Click through to information portals for featured invasive species



Pomacea canaliculata
(Apple snail)




Spodoptera frugiperda
(Fall armyworm)




Parthenium hysterophorus
(Parthenium weed)


Latest invasive species datasheets



Hymenoscyphus fraxineus (ash dieback)
H. fraxineus is an anamorphic fungal pathogen that causes ash dieback. Due to the severity of ash dieback H. pseudoalbidus has been on the EPPO Alert...




Podranea ricasoliana (pink trumpet vine)
Podranea ricasoliana is a woody vine, native to south tropical Africa. It has been introduced as an ornamental plant in various tropical countries -...




Psittacula eupatria (Alexandrine parakeet)
The Alexandrine parakeet, P. eupatria, is a common large-sized (±60 cm) parrot species, with red shoulder patches. Its native range includes a large...


Latest news




Sault Invasive Species Centre launches 2022 Microgrants for Ontario - Sault Star
Publisher - Sault Star
04:17 PM - 20 January, 2022
(Search term - invasive species)



CABI Invasives @CABI_invasives
Tuta absoluta feeds almost exclusively on tomatoes. Impacts include: High...
04:05 PM - 20 January, 2022



Mountain Lions Are Way More Important to America Than We Thought - Newsweek
Publisher - Newsweek
03:22 PM - 20 January, 2022
(Search term - invasive species)

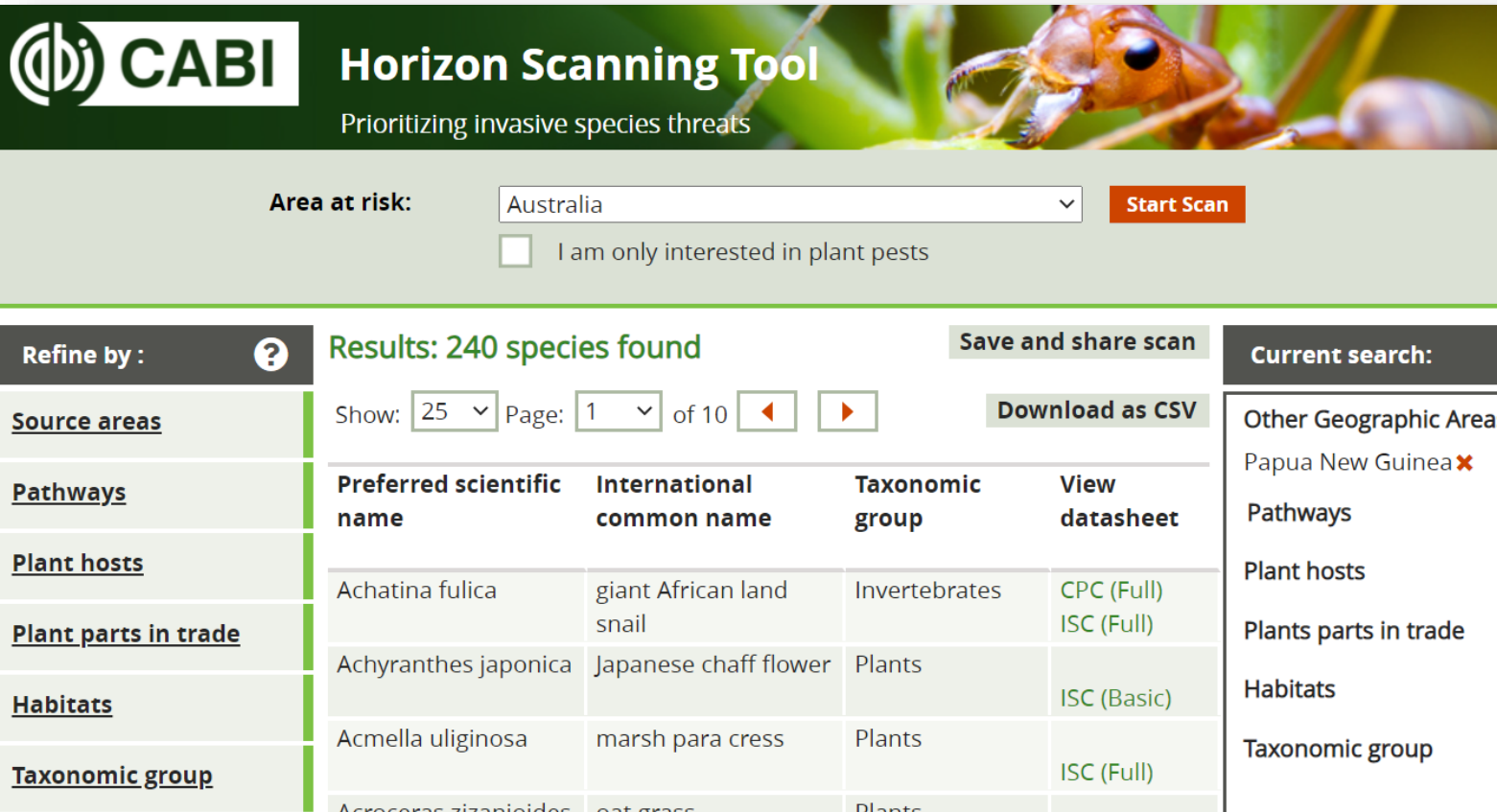


CABI Invasives @CABI_invasives
Test your plant pest and disease diagnosis skills with the Pest Diagnostic Si...
02:45 PM - 20 January, 2022

How the ISC helps

- Encyclopedic resource that supports decision-making in invasive species management worldwide
- Focussed on global invasive species that have the greatest impacts on livelihoods and the environment, affecting natural and managed ecosystems
- Contains 12,000 datasheets with sections on:
 - Distribution maps and habitat, threatened species and diseases in animals, humans and plants
 - Pathways for entry
 - Natural enemies
- Over 5000 practical identification and management guides
- Researchers, risk assessors, land managers, plant protection officers
- 2.7M users and 4.2M sessions annually

Horizon Scanning Tool



CABI **Horizon Scanning Tool**
Prioritizing invasive species threats

Area at risk:
☐ I am only interested in plant pests

Refine by : **Results: 240 species found**

Source areas
Pathways
Plant hosts
Plant parts in trade
Habitats
Taxonomic group

Show: Page: of 10

Preferred scientific name	International common name	Taxonomic group	View datasheet
Achatina fulica	giant African land snail	Invertebrates	CPC (Full) ISC (Full)
Achyranthes japonica	Japanese chaff flower	Plants	ISC (Basic)
Acmella uliginosa	marsh para cress	Plants	ISC (Full)
Acroceras zizanioides	eat grass	Plants	

Current search:
 Other Geographic Areas
 Papua New Guinea ✖
 Pathways
 Plant hosts
 Plants parts in trade
 Habitats
 Taxonomic group

- Decision support tool that helps users identify potential invasive species threats to a geographic area
- For those investigating risks from invasive species and for information professionals supporting them

With thanks to the supporters of the ISC





**SUSTAINABLE
DEVELOPMENT** GOALS



Other CABI case studies can be found at <https://sdg.internationalpublishers.org/>



**Invasive
Species Compendium**



**CABI
Academy**



**Plantwise
Knowledge Bank**



**Bioprotection
Portal**



CABI is an international intergovernmental organisation, and we gratefully acknowledge the core financial support from our member countries (and lead agencies) including:



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Agri-Food Canada



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Schweizerische Eidgenossenschaft
Confédération suisse
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Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC