



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



INTERNATIONAL YEAR OF
PLANT HEALTH

2020

PROTECTING PLANTS,
PROTECTING LIFE

PACIFIC ISLAND PEST LIST DATABASE (PLD) UPGRADE

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www.fao.org/plant-health-2020



Pacific Island Pest List Database (PLD) Upgrade Project

- The Australian Commonwealth Department of Agriculture, Water and the Environment (DAWE) is managing this project to review the upgrading of the Pacific Island Pest List Database (PLD).
- The project is funded by Australian Commonwealth Department of Foreign Affairs and Trade (DFAT) as part of their **Pacific Biosecurity Partnership Program**.
- DAWE is collaborating with the Pacific Island Countries and Territories (PICTs) through the Pacific Plant Protection Organisation (PPPO) and the Pacific Community (SPC), who manage the PLD and website.



Australian Government

**Department of Agriculture,
Water and the Environment**

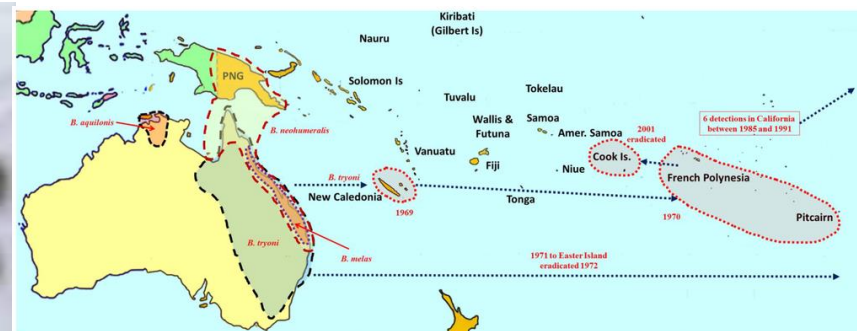


**Pacific
Community**
**Communauté
du Pacifique**



The Pacific Island Pest List Database (PLD) is an information system that:

- Provides the following reports/lists on plant pests
 - plant pest,
 - plant host, and
 - location.
 - Comparative pest list
- The PLD system was developed in the early 2000s and is based on older information technology.

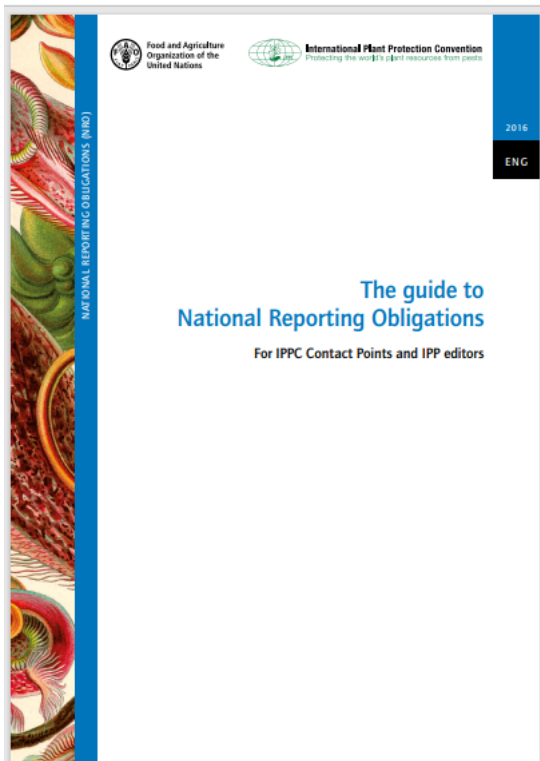


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Why Do We Need Pest Lists?

NRO



ISPM guidelines (including 8,17,19)



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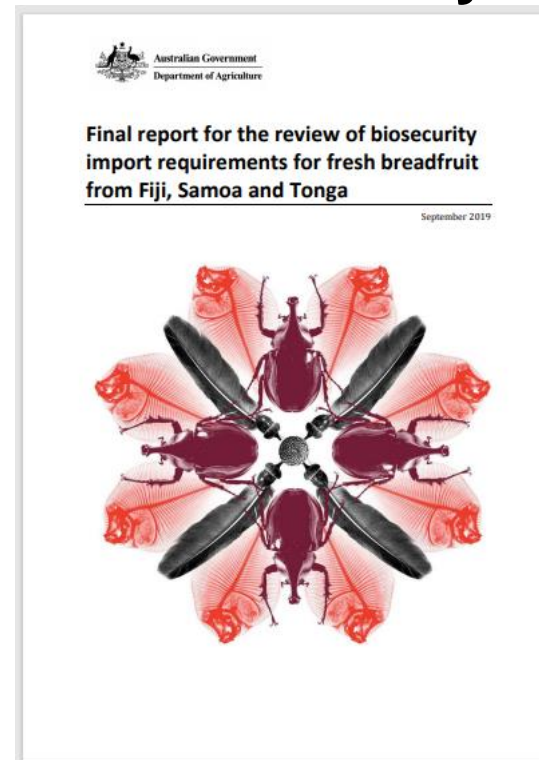


PLD Benefits

Supports trade and market access



Support development of Pest Risk Analyses (PRAs)

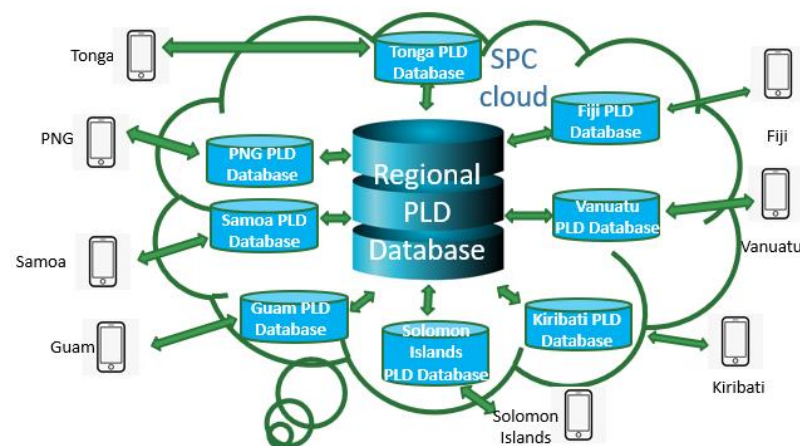


PLD IT System

Current PLD IT system



Future state – cloud technology





PLD Upgrade Consultation



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docs.google.com

Pest List Database Questionnaire

Next

Never submit passwords through Google Forms.

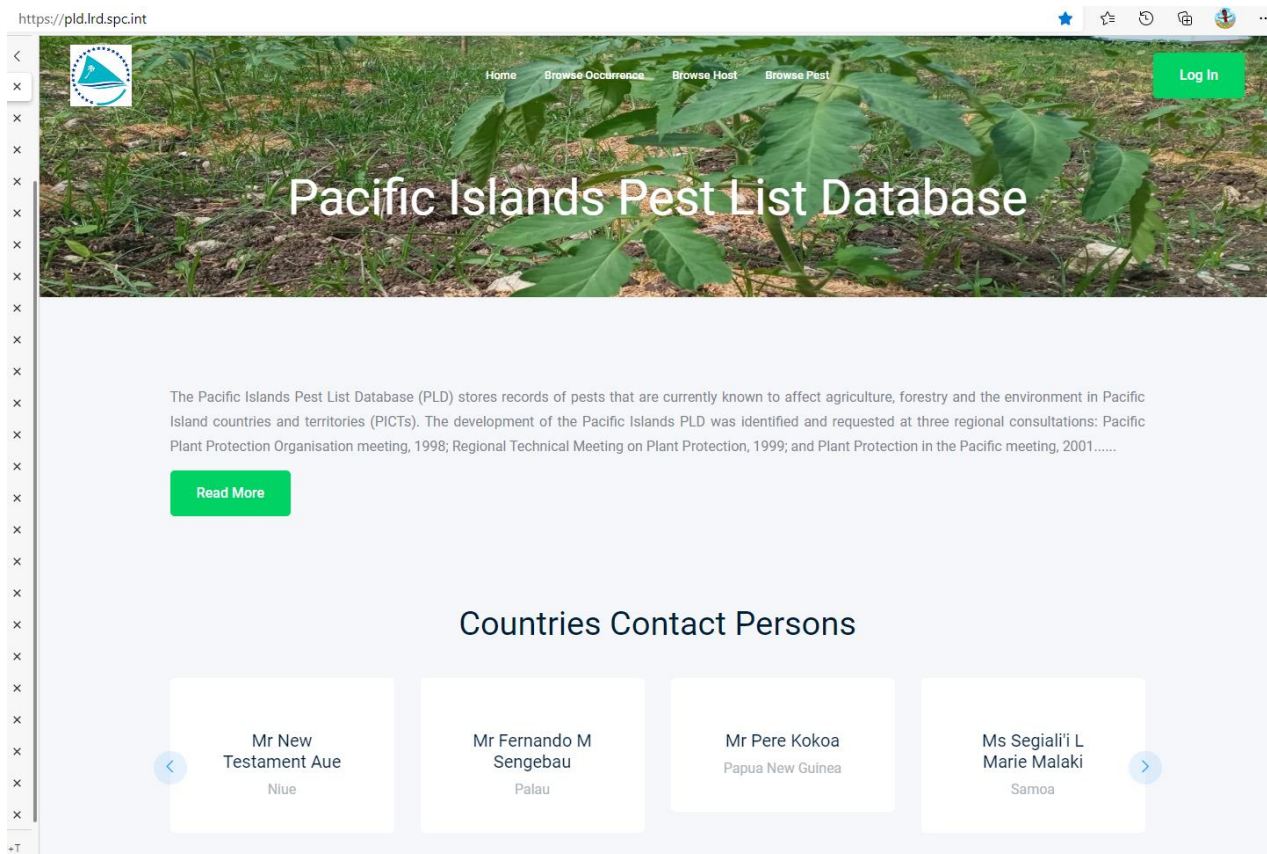
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PLD Functionality



2021, project to upgrade functionality and reporting capability

<https://pld.lrd.spc.int/>



PLD Functionality – Pest List – Taro

Pest Group	Pest /Order/ common anme	Host/common name	Country
nematodes	Xiphinema/ensiculiferum/Dorylaimina/dagger nematode	Colocasia/esculenta/ taro	Fiji Islands
nematodes	Xiphinema/brevicolle/Dorylaimina/dagger nematode	Colocasia/esculenta/ taro	Fiji Islands
viruses	Rhabdovirus/Taro vein chlorosis virus/Mononegavirales/ TaVCV	Colocasia/esculenta/ taro	Fiji Islands
fungi	Ramularia/sp./Mycosphaerellales/	Colocasia/esculenta/ taro	Fiji Islands
viruses	Potyvirus/Dasheen mosaic virus//DsMV	Colocasia/esculenta/ taro	Fiji Islands
nematodes	Meloidogyne/incognita/Tylenchina/	Colocasia/esculenta/ taro	Fiji Islands
nematodes	Helicotylenchus/pseudorobustus/Tylenchina/	Colocasia/esculenta/ taro	Fiji Islands
nematodes	Ditylenchus/sp./Tylenchina/	Colocasia/esculenta/ taro	Fiji Islands
nematodes	Discocriconemella/sp./Tylenchina/	Colocasia/esculenta/ taro	Fiji Islands
nematodes	Criconemella/denoudeni/Tylenchina/	Colocasia/esculenta/ taro	Fiji Islands
fungi	Cercospora/colocasiae/Mycosphaerellales/	Colocasia/esculenta/ taro	Fiji Islands



PLD Functionality – Host List – Fruit Fly

Pest Group	Pest /Order/ common anme	Host/common name	Country
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Mangifera/indica/mango	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Artocarpus/heterophyllus/jackfruit	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Carica/papaya/pawpaw	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Ochrosia/oppositifolia/	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Persea/americana/avocado	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Artocarpus/altilis/breadfruit	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Citrus/reticulata/tangerine	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Passiflora/quadrangularis/Giant granadilla	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Barringtonia/petiolata/	Fiji Islands
arthropods	Bactrocera/xanthodes/Diptera/Pacific fruit fly	Barringtonia/edulis/pau nut	Fiji Islands



PLD Functionality – Comparative List

Comparative Pest Report - Colocasia/esculenta/taro

Pest Name	Export Country	Import Country
	Samoa	Fiji Islands
Acremonium/zonatum/	✓	×
Adoretus/versutus/indian rose beetle	×	✓
Agrotis/ipsilon/greasy cutworm	×	✓
Aleurothrixus/antidesmae/	✓	×
Aphelenchoides/sp./	✓	✓
Aphelenchoides/bicaudatus/	×	✓
Aphelenchus/avenae/	✓	×
Aphis/craccivora/black legume aphid	×	✓
Aphis/gossypii/Cotton aphid	×	✓
Athelia/rolfsii/	✓	✓
Badnavirus/Taro bacilliform virus/TaBV	×	✓



Identify Potential Biosecurity Risks for PRA

Comparative Pest Report - Colocasia/esculenta/taro

Pest Name	Export Country	Import Country
	Samoa	Fiji Islands
Acremonium/zonatum/	✓	×
Adoretus/versutus/indian rose beetle	×	✓
Agrotis/ipsilon/greasy cutworm	×	✓
Aleurothrixus/antidesmae/	✓	×
Aphelenchoides/sp./	✓	✓
Aphelenchoides/bicaudatus/	×	✓
Aphelenchus/avenae/	✓	×
Aphis/craccivora/black legume aphid	×	✓
Aphis/gossypii/Cotton aphid	×	✓
Athelia/rolfsii/	✓	✓
Badnavirus/Taro bacilliform virus/TaBV	×	✓



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Thank you for listening

Questions?

(Background slides provided below)



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Pacific Island Pest List Database (PLD)



Background

- Pest lists are required under obligations of the WTO SPS Agreement and the IPPC;
- Relevant ISPMs: 6 (Surveillance), 8 (Determination of pest status in an area), 17 (Pest reporting), 19 (Guidelines on lists of regulated pests)
- The Pacific Island Countries and Territories (PICTs) Regional Pest List Database (PLD) is an information system for 22 Pacific countries and territories that:
 - records verified plant pest occurrences within a country
 - records and reports interceptions at ports
 - provides reports/lists on plant pests, filtered by plant pest, plant host, and country.
- The system was developed in the early 2000s and based on older technology.



Pacific Island Pest List Database

Benefit of the project

- Supports trade and market access and regional preparedness and response activities.
- Pest lists are important to support pest risk analysis (PRA), surveillance and response activities.
- Supports SDG2, Zero Hunger.



Lessons learnt

- Collaboration and consultation are very important.
- The importance of having a sustainable system that works for all member countries
- Assists with proper monitoring, surveillance and reporting obligations for PICTs



Australian Government
Department of Agriculture,
Water and the Environment



Pacific
Community
Communauté
du Pacifique



Pacific Horticultural &
Agricultural Market Access
Plus Program
Supported by Australia and New Zealand



Regional Pest List Database Benefits

- Countries are able to directly compare the pest list of a particular crop in their own country with that of the same crop in a potential trading partner country in the same region.
 - This is central to 'pest risk analysis', a key component in facilitating trade under World Trade Organisation and International Plant Protection Convention rules.
- Plant protection and biosecurity specialists will be able to examine the distribution of a pest species across a region.
 - Such information will assist with identifying trading opportunities and to assess the danger of new pest incursions from neighbouring countries and the preparation of plans to prevent their spread.



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