

COUNTRY REPORT FOR THE KINGDOM OF TONGA, SOUTH PACIFIC.

1. Background information on agriculture and organizational arrangements for Plant protection and NPPO of your country.

Tonga officially the Kingdom of Tonga, is a Polynesian sovereign state and archipelago made up of 176 islands with a total area of 290 square miles (748 km²) that are spread over 270,000 square miles in the southern Pacific Ocean. In 2018, the population of Tonga is estimated at 109,008. Tonga's main economy is based on subsistence agriculture, mainly root crops, squash pumpkin, coconuts, vanilla, pandanus and paper mulberry. The main importations are processed goods, fresh fruit and vegetables and Animal Products.

The IPPC Official Contact Point is Mr. Viliami Kami and he is the Head of Quarantine and Quality Management Division (QQMD) of the Ministry of Agriculture, Food, Forests & Fisheries (MAFFF). MAFFF's two Divisions that are responsible for Plant Protection activities are Quarantine and Research Divisions, whereby Research Division carries out Entomology and Plant Pathology activities, while the Quarantine Division maintain border protection, fruit fly surveillance and Import and Export Compliance. The main International ports are in the main island of Tongatapu and the northern island of Vava'u. However, the other islands are sometimes accessible by yachts and cruise ships as listed below.

Ports of Entries:

Tongatapu	
Queen Salote Wharf	MAFFF-Tonga Headquarter Vuna Rd Nuku'alofa Kingdom of Tonga
Vuna Wharf	MAFFF-Tonga Headquarter Vuna Rd Nuku'alofa Kingdom of Tonga
Faua Wharf	MAFFF-Tonga Headquarter Vuna Rd Nuku'alofa Kingdom of Tonga
Fuamotu International Airport	Palu Aviation Building Fua'amotu International Airport
Vava'u	
Halaevalu Wharf	Vava'u Quarantine Office Halaevalu Wharf
Lupepau'u Airport	Vava'u Quarantine Office Halaevalu Wharf
Ha'apai	
Fanga 'i he Si Wharf	MAFFF-Main Office Pangai
Niuas	
Futu Wharf	MAFFF-Office Futu
Pasivulangi Wharf	MAFFF – Office Hihifo

2. Phytosanitary legal framework and list of regulated pests

Plant Quarantine Act 1988 revised edition
Plant Quarantine Regulation 1995
Noxious Weeds Act 1988 revised edition
Diseases of Plant Regulation 1988 revised edition
Agricultural Commodities Export Act 2002

Importation of Plants/plant materials

It shall be unlawful for any person to import into Tonga any plant unless a permit has been issued by the Minister under such conditions and regulations as the Minister may prescribe. Once Import Permit for plants/plant materials, the consignment must be accompanied by a Phytosanitary Certificate before inspection and releasing of the consignment. Non-compliance importation of plants will either be re-exported or destroyed.

Inspection authorized for plant importations.

On the arrival in Tonga of any conveyance at any port of entry, an Inspector may inspect any plants and plant material therein intended for importation or any such material which has been landed from the conveyance, and if found contaminated with plant pests or unauthorized material the Inspector may require re-exportation under conditions which he may specify, or that it be treated in such manner to eliminate the contamination prior to release from plant quarantine jurisdiction, or that may be disposed of by either incinerator or deep burial.

Tonga Regulated Pest List

Common Name	Scientific Name	Host
Bacteria/slimy Soft Rot	<i>Erwinia caratovora</i>	Lettuce /Brassica
Bacteria Blight	<i>Xanthomonas campestrisp.v. manihota</i>	Cassava
Bacteria Leaf Spot	<i>Pseudomonas maculicola</i>	Brassica
Bacteria Wilt	<i>Pseudomonas solanocearum</i>	Tomato
Citrus Canker	<i>Xanthomonas campestris</i>	Citrus
Gray Leaf Spot	<i>Alternaria brassicae</i>	Brassica
Gummy stem blight	<i>Didymella bryoniae</i>	Cucurbits
Leaf Blight	<i>Phytophthora colocasiae</i>	Colocasia taro
Leaf Mould	<i>Distocerosporapachyderma</i>	Yam
Leaf Rust	<i>Goplana dioscoreae</i>	Yam
Leaf Spot	<i>Phyllosticta colocasiophila</i>	Colocasia taro
Soft Rot of Taro	<i>Phytophthora sp.</i>	Colocasia taro
Spot Anthracnose	<i>Elsinoe batatas</i>	Sweet potato

Stem rot	<i>Sclerotium rolfsii</i>	Colosacia taro
Stem – end Rot	<i>Mycosphaerella citrullina</i>	Watermelon

Common Name	Scientific Name	Host
Bean Pod Borer	<i>Mariuca testalis</i>	Legumes
Burrowing nematodes	<i>Radopholus similis</i>	Banana , taro
Cabbage cluster caterpillar	<i>Crociodolomia binotalis</i>	Brassica
Coffee Berry Borer	<i>Hypothenemus hampei</i>	Coffee, Cacao
Diamond –Back moth	<i>Plutella xylostella</i>	Crucifers / Brassica
Dictyospermum scale	<i>Chrysomphalus dictyospermi</i>	B.Nut, Citrus , Mango
Frolida red scale	<i>Chrysomphalus aonidium</i>	Coconut , Citrus Breadfruit
Florida wax scale	<i>Ceroplastes floridensis</i>	Citrus , Mango
Long brown scale	<i>Coccus longulus</i>	Citrus, Coconut, papaya
Long Horn Grasshopper	<i>Conocephalus longipennis</i>	Vegetables
Long Horn beetle	<i>Ceresium unicolor</i>	Breadfruit
Pineapple Mealybug	<i>Dysmicoccus brevipes</i>	Wide range
Pineapple Mealybug	<i>Dysmicoccus brevipes</i>	Pineapple , B.nut , C.Nut
Red Wax Scale	<i>Ceroplastes rubens</i>	Breadfruit , Citrus , Mango
Seed Weevil	<i>Cryptorhynchus mangiferae</i>	Mango
Seychelles scale	<i>Incerya seychellarum</i>	Fruit Trees
Weevil	<i>Trigynops sp.</i>	Froot crops
White peach scale	<i>Pseudualacaspis pentagona</i>	Breadfruit /Cassava

Common Name	Scientific Name	Host
Brown tree snake	<i>Boiga irregularis</i>	Birds , eggs , Lizards
Giant African snail	<i>Achatina fulica</i>	Wide range
Denticulate stick insect	<i>Acanthograeffea denticulate</i>	Coconut /Pandanus
Coconut stick insect	<i>Acanthograeffea modesta</i>	Coconut

Rhinoceros beetle	Oryctes rhinoceros	Coconut
Coconut flat moth	Agonoxena sp.	Coconut /Betel nut
Palau coconut whitefly	Aleurocanthusplauensis	Coconut
Coconut long horn beetle	Caroliniellaaenescens	Coconut
Chinese rose beetle	Adoretus sinicus	Wide range
Sweet potato weevil	Cylas formicarius	Sweet potato
West indianS.Potato	Euscepespos fasciatus	Sweet potato
Hawk moth	Hippotion swinhoei	Sweet potato
Sweet Potato whitefly	Bemisia tabaci	Wide range
Orange tip moth	Adoxophyes fasciculana	Sweet potato , Citrus
Fruit Piercing moth	Eudocina fullonia	Fruits
Serpentine leafminers	Liriomyza trifoli	Vegetables
Vegetable leafminers	Liriomyza sativae	Vegetables
Green garden looper	Chrysodeixis chalcites	Vegetables
Striped mealybug	Ferrisia virgata	Vegetables
Green vegetable bug	Nezara viridula	Vegetables
Melon thrips	Thrips palmii	Cucurbits /Vegetables
Onion thrips	Thrips tabaci	vegetables

3. Overview of cases of surveillance, non-compliance and manage of regulated pests

Quarantine and Quality Management Division carries out fruit fly surveillance and identification, which gives data on fruit fly species as a regulated pest but also the export market accessibility. Other pest surveillances are carried out by the Research Division's Entomologists and Plant Pathologist, which sometimes is supported by the Secretariat of the Pacific Communities SPC Land Resources Division. Regulated pests the export crops are managed by the Exporters and growers and Quarantine Division will carry out inspection and verification for compliance before export. Non-compliance to Plant Quarantine Regulation and Importing Countries Requirements are refused to export for the time being but given a chance to complete the requirements or else export is rejected.

4. Information on emerging issues on Phytosanitary Measures

Emerging issues in phytosanitary measures are issues which are new, unexpected or can cause change in the status quote in phytosanitary measures.

The Pacific Pest List Database, including Tonga is facilitated by the Secretariat of the Pacific Communities (SPC). However, Tonga needs to update the pest list database from many pest surveys

conducted in recent years, especially the arthropods section.

5. Identification of opportunities and challenges in Phytosanitary Measures

Please provide a macro conclusion in several point about your concern on opportunities and obstacles to promote your country's capability on implementation of IPPC and phytosanitary measures.

The PLD system can furnish a host list for a given pest which is necessary to carry out the Import Risk Analysis procedure. Another feature is the ability of the PLD system to map out the regional and national distribution of a pest. In addition, a user is also able to look up the taxonomic data of a particular pest, complete with photograph.

6. Suggestions on international, Regional and bilateral cooperation in Phytosanitary Measures among the Chinese Initiative “the Belt and Road” countries

Please identify areas for cooperation in phytosanitary measures:

- To be conducted by the IPPC Secretariat
- To be conducted by the Chinese Ministry of Agriculture
- To be conducted by the One Road One Belt countries.

1. Methyl bromide alternative for fumigation
2. Electronic Certification System/E-phyto