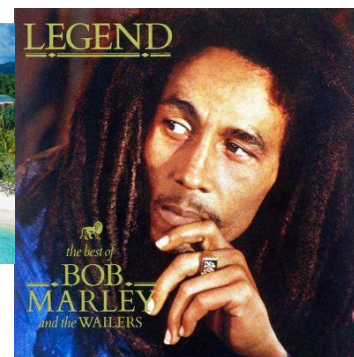
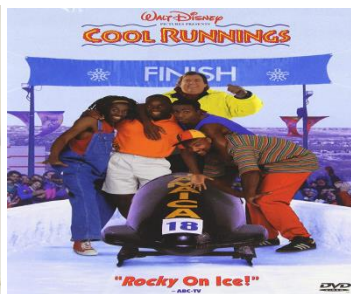
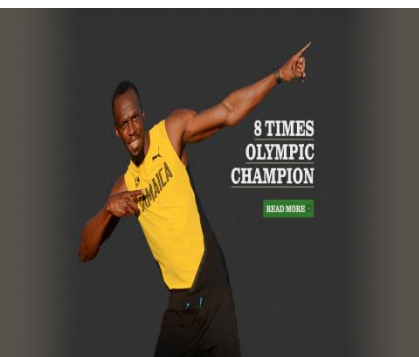




Jamaica's Phytosanitary System

IPPC High Level Symposium Chinese Initiative 'One Road
Countries'
2018



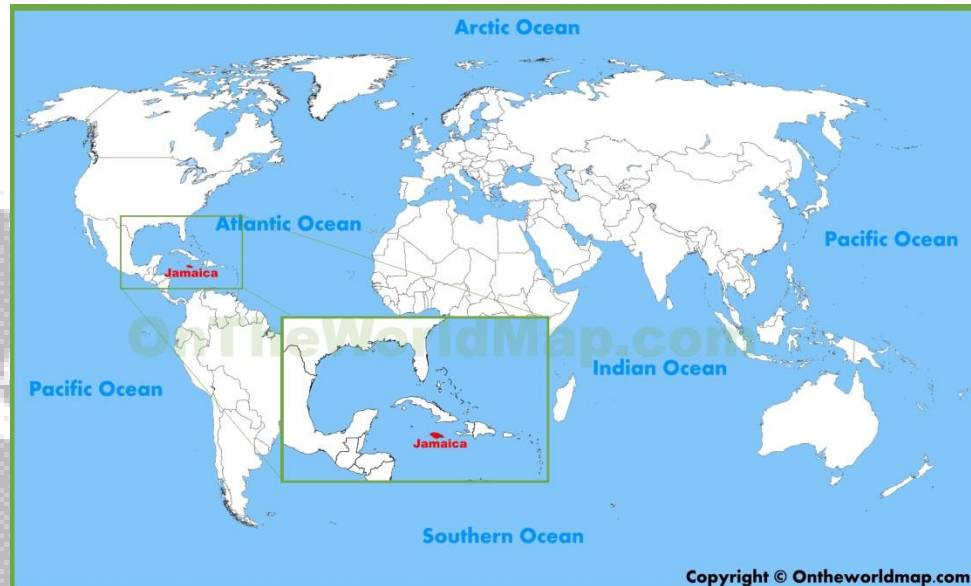
PRESENTATION OUTLINE

- Country Profile
- Jamaica's Plant Health System
- Case Study: Frosty Pod Rot Outbreak in Jamaica
- Emerging Issues and Challenges

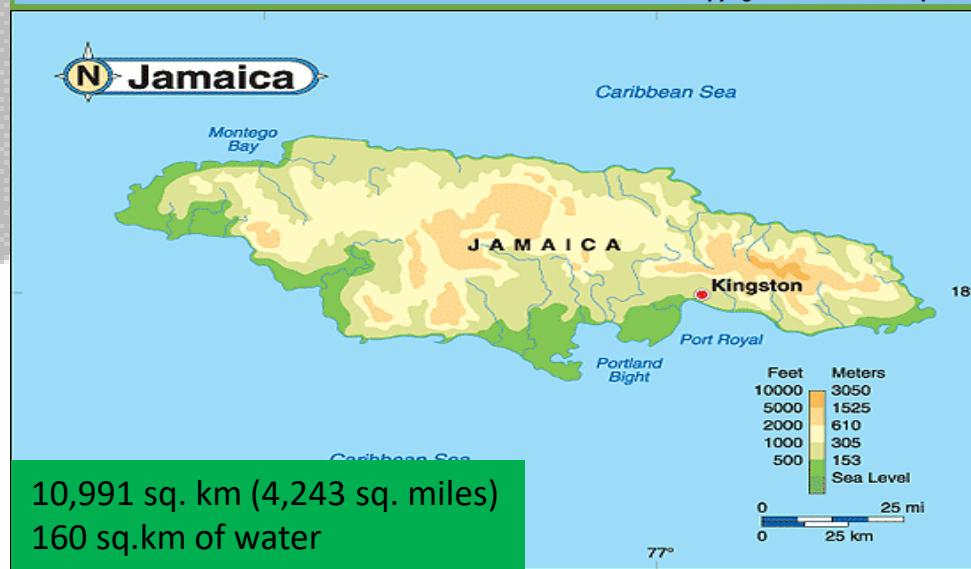


Jamaica's Country Profile

LOCATION



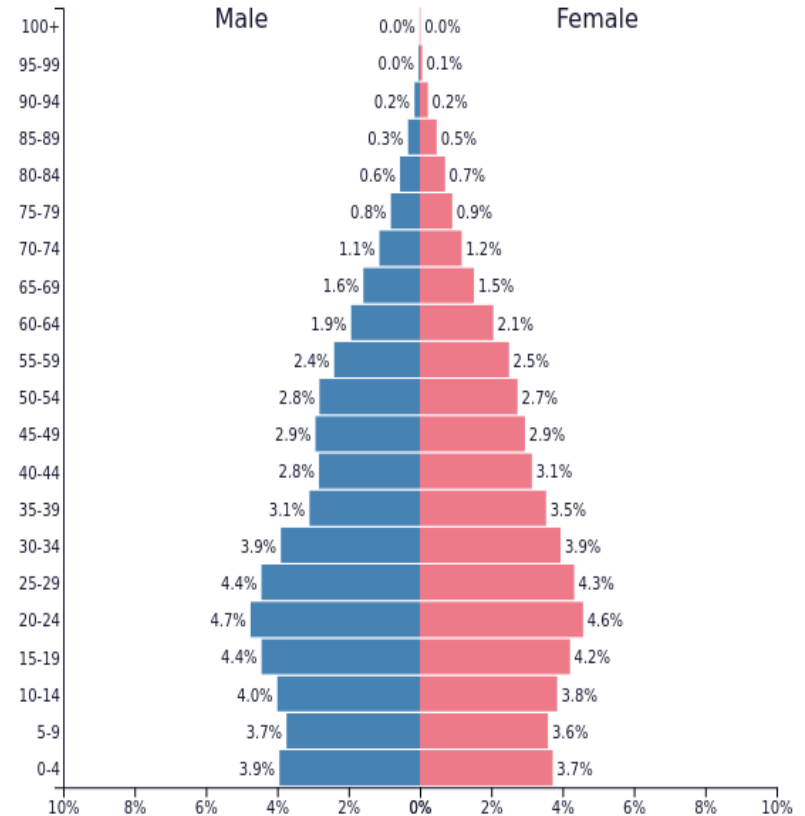
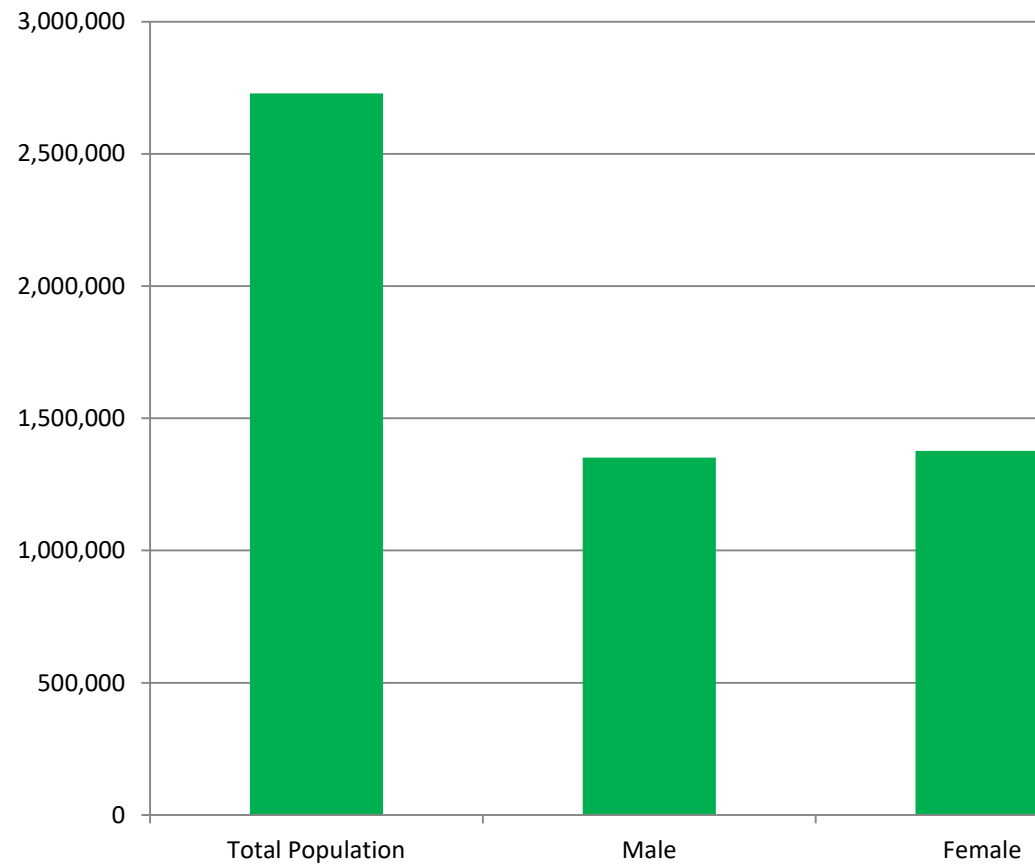
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10,991 sq. km (4,243 sq. miles)
160 sq.km of water

Jamaica's Population

Density- 266.8/ km²



Jamaica - 2018
Population: **2,822,896**

Jamaica's Port of Entry



**14 Ports of Entry : 6 North & 9 South
8 designated as Official Ports of Entry
3 International Airports**



Ministry of
Industry, Commerce, Agriculture & Fisheries
Agriculture & Fisheries Portfolio

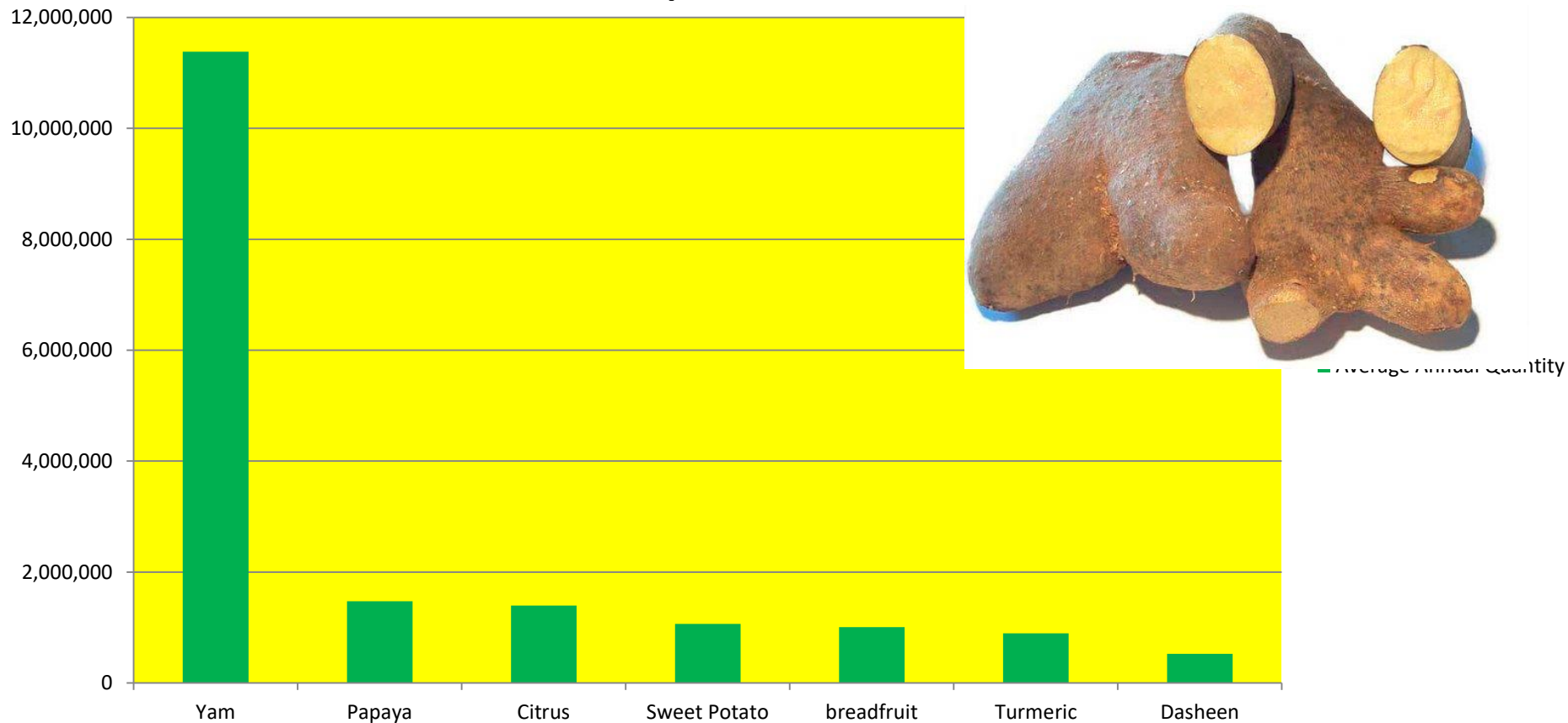


Government of Jamaica

Jamaica's Agriculture

Agriculture contribute2 approximately 7% of GDP

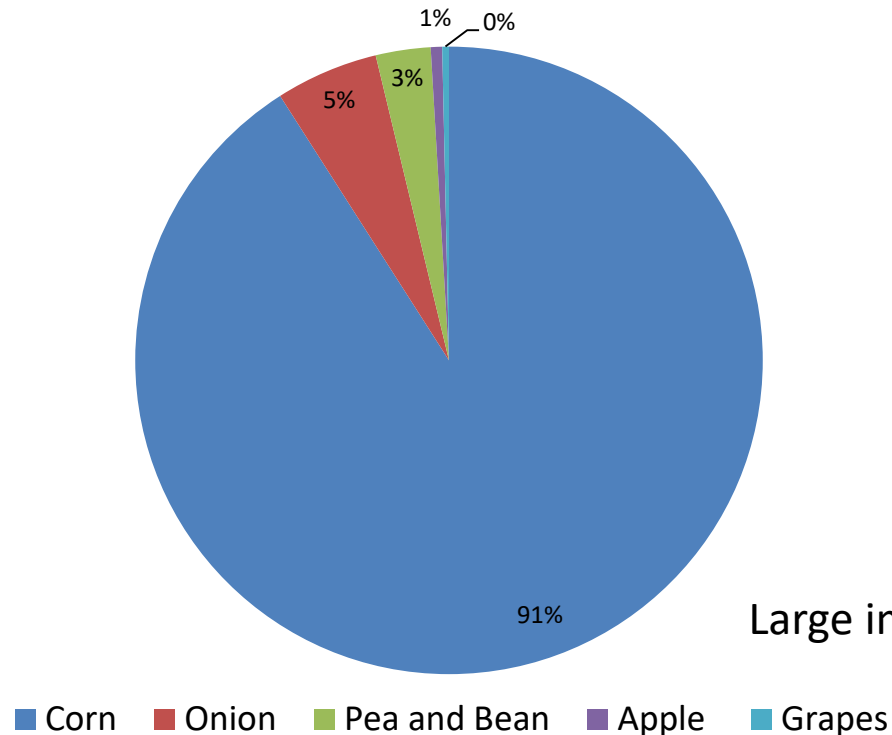
Fresh Produce Export



Source: PQ/PI, STATIN JA

Jamaica's Agricultural Imports

Average Annual Quantity (Kg)



Large importers of rice & wheat



Jamaica's Phytosanitary System



Ministry of
Industry, Commerce, Agriculture & Fisheries
Agriculture & Fisheries Portfolio



Government of Jamaica

Legal Framework

Plant Quarantine Act (1993) Governs:

- Importation of plants
- Quarantine control
- Penalty for unauthorized landing of plants
- Power to destroy diseased plants
- Plant quarantine expenses
- Penalty for importing
- Offenses as to documents

The Plants (Importation) Control (Amendment) Regulations, 2005

Defines:

- Items that require import permit
- Prohibited Items
- Pest Risk Analyses (PRA)



Plant Health System

Plant Health Coordination

- Academia
- Forestry
- Commodity Boards
- Plant Quarantine
- Extension

NPPO, Quarantine, Certification & Inspection

Plant Quarantine
Produce Inspection

Ministry of
Industry,
Commerce,
Agriculture
& Fisheries

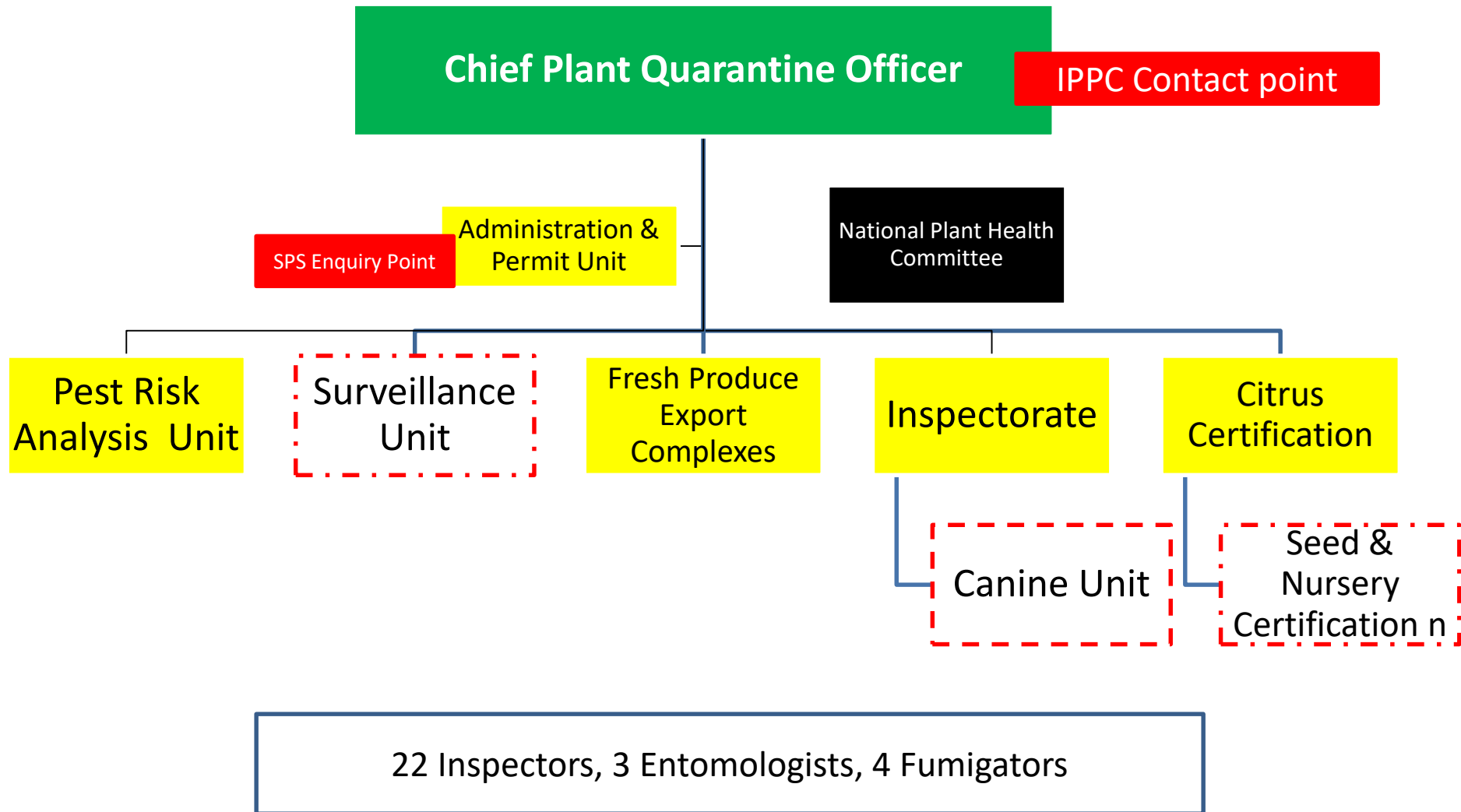
Rural
Agricultural
Development
Authority

Research &
Development
Division

Surveillance

Research

Structure of Jamaica's NPPO



Plant Import Permit Process

APPLICATION PROCESS

1. Register at www.moatrade.gov.jm
2. Make online application at www.moatrade.gov.jm
3. Approval process takes from zero to 48 hours for PQD
 - a. PRA is required for new pathway or product
4. Make payment online or manually
5. Present proof of payment to PQ Head Office
6. Permit printed, signed and delivered (same time)

The screenshot shows the homepage of the Ministry of Agriculture & Lands Trade System. At the top, there is a header with the ministry's name and a 'Trade System' banner. Below this is a login section with fields for 'username' and 'password', and a 'Login' button. To the right of the login fields, it says 'Release: 2.3.4'. The main content area features a 'welcome to ' message followed by 'The Ministry of Agriculture & Lands Trade System'. Below this, there is a 'Welcome to the Ministry of Agriculture & Lands Trade System. This is an internet based system for facilitating the importation & exportation of agricultural products. Importers & Exporters can apply online for import permits & export certification.' section. To the left of this text, there is a 'Related Websites' section with links to 'Jamaica Customs' and 'Jamaica Trade Point'. Below the welcome message, there is a list of links: 'Not yet registered? click [here](#)', 'To update your registration click [here](#)', 'To perform admin tasks click [here](#)', 'To change your password click [here](#)', and 'Forgot your password click [here](#)'. At the bottom, there are two contact sections: 'Plant Quarantine / Produce Inspection Unit' and 'Veterinary Services Division', both with their respective addresses, phone numbers, fax numbers, and email addresses. There are also logos for 'VeriSign Secured', 'MasterCard', 'VISA', and 'eVISA' on the right side.

THE MINISTRY OF AGRICULTURE & LANDS
Trade System

username password Login Release: 2.3.4

welcome to
The Ministry of Agriculture & Lands
Trade System

Ministry of Agriculture Home

Related Websites
+ Jamaica Customs
+ Jamaica Trade Point

Welcome to the Ministry of Agriculture & Lands Trade System. This is an internet based system for facilitating the importation & exportation of agricultural products. Importers & Exporters can apply online for import permits & export certification.

- Not yet registered? click [here](#)
- To update your registration click [here](#)
- To perform admin tasks click [here](#)
- To change your password click [here](#)
- Forgot your password click [here](#)

Plant Quarantine / Produce Inspection Unit
193 Old Hope Road, Kingston 6
Tel: (876)977-0637, (876)977-6401
Fax: (876)977-6992
Email: ppq@moa.gov.jm

Veterinary Services Division
193 Old Hope Road, Kingston 6
Tel: (876)977-2489, (876) 977-2492
Fax: (876)977-0885
Email: vsd@moa.gov.jm

VeriSign Secured
MasterCard VISA eVISA

Import Inspection Procedure

1. Make appointment

2. Document submission

- ✓ Customs Entry (ASYCUDA)
- ✓ Import Permit
- ✓ Phytosanitary Certificate
- ✓ Payment for inspection receipt
- ✓ Invoice
- ✓ Bill of lading

3. Inspection/
release/quarantine/treatment/destruction



Export Certification Procedure

1. Facility Certification

- a. Quarantine standards and GMPs

2. Phytosanitary Treatment

- a. Post-harvest treatment
- b. fumigation

3. Export Certification

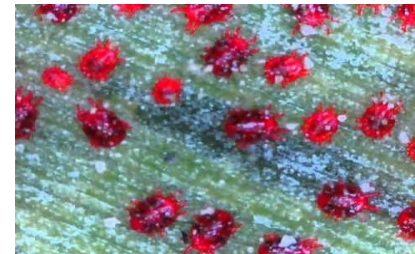
- a. Bilateral Agreements
- b. Phytosanitary Certificates



Regulated Pest list

136

1. *Ceratitis capitata* (Mediterranean fruit fly)
2. *Fusarium oxysporum* f. *Sp. cubense* race 4 (Tropical Race 4)
3. *Xanthomonas axonopodis* pv. *Citri* (Citrus Canker)
4. *Clavibacter michiganensis* subsp. *Sepedonicus* (potato ring rot)
5. *Tuta absoluta* (tomato leafminer)
6. *Rhychophorus ferrugineus* (Red palm weevil)
7. Giant African Scale
8. *Moniophthora rorei* (Frosty pod rot disease)



Frosty Pod Rot Outbreak in Jamaica

A Case Study



Value of Cocoa to Jamaica

- Jamaica cocoa fetches premium price
- One of only nine producers of fine flavour
- Cocoa is valued at JA \$400 million/ 3million USD
- 4000 small cocoa farmers
- 8000 acres of cocoa production



Frosty Pod Rot Disease of Cocoa

- *Moniliophthora roreri* (frosty pod rot of cocoa)
- Host of frosty pod rot
 - *Herrania* and *Theobroma* spp
 - Commercial: ***Theobroma cacao*** (cocoa)
- List of symptoms/signs
 - Fruit: abnormal shape, discoloration, extensive mould, lesions on pods, mummification
 - Seeds Rot



Healthy Cocoa Beans





Frosty Pod Rot



Frosty Pod Rot Disease of Cocoa



Presence of deformations called gibas (conspicuous bumpy swellings)



Premature ripening (A)
+ oily spots (B)



Irregular brown or chocolate-colored spots



Incipient mycelium in a brown spot



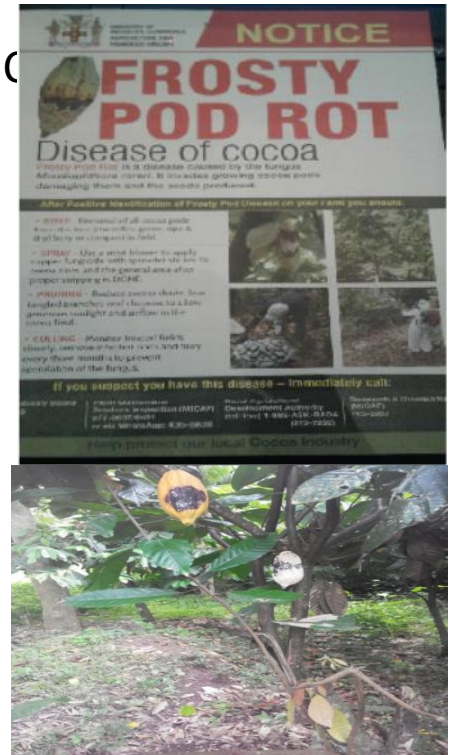
Fungal mycelia on the brown spots;
the most contagious stage



Mummified fruit

Outbreak of Frosty Pod Rot

- Received report on August 22, 2017 of potential siting of FPR
- Pest Emergency Response Team (RADA, PQ, R&D, CIB, UWI, IIC) – Activated
- A detection/delimiting survey initiated in August 2016
- Disease Confirmed
 - locally and internationally on September 29, 2016
 - Report to IPPC on September 29, 2016
- Frosty Pod Rot Order (September 2016)
- Management/Action Plan developed
 - Management strategies
 - Pest alerts
 - Public Sensitization

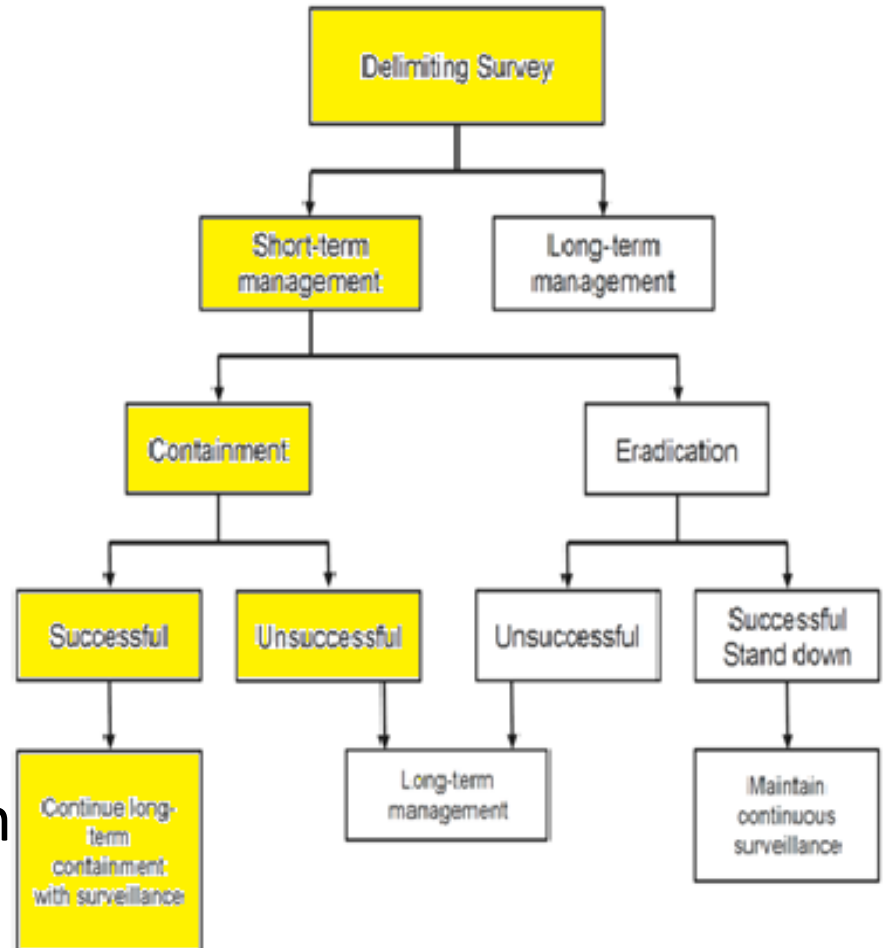


Picture of FPR in Jamaica (Photo credit: Karen Christie)

FPR Management Plan

Four Components:

- FPR Project Team
- Cultural Component
 - Radical Pruning
 - Stripping
- Chemical Component
- Monitoring & Evaluation



Pruning of Cocoa Fields

Cocoa Field Before



Pruning of Trees



Cocoa Field After



Liming of the Pods



Cultural Management Activities

Pruned & Stripped



Workers



Cutting of shade trees



Liming of pods



Emerging Phytosanitary Issues & Challenges

1. Environment

- Hurricanes, climate change

2. Emerging Pests

- new pests, resistant pests

3. Resource limitations

- financial, infrastructure, facilities

4. Capacity Development

- Pest surveillance, ephyto, technology, innovation, pest forecasting

5. Trade *and related* Issues

- Tourism, e-commerce, private standards, new phytosanitary treatments

Thank You 谢谢 Xièxiè

QUESTIONS