

FOREST INVASIVE SPECIES

BACKGROUND

DR AMINATH SHAFIA
MINISTRY OF FISHERIES & AGRICULTURE

EXISTING INVASIVES

- OVER 50 DISEASES CAUSING MICROORGANISMS
- OVER 53 INSECTS SPECIES
- WEEDS/SHRUBS/TREES (NOT ASSESSED)
- MAJORITY OF THEM ARE INVASIVE SPECIES



MAJOR CONCERNS

- AFFECTS AGRICULTURAL PRODUCTIVITY
- IMPACT ON BIODIVERSITY & ENVIRONMENT

SOME INVASIONS HAVE THE POTENTIAL TO BECOME IRREVERSIBLE.

 DETRIMENTAL TO HUMAN HEALTH –
 PESTICIDE RESIDUES



CONCERNS ... (CONT)

- Geographically separated small size & island nature of the country
- Developing status
- Greater diversity of habitats
- Increased degradation and fragmentation of natural habitats due to development activities
- Current highly threatened status of many endemic species and their habitats

INVASIVE SPECIES - EXAMPLES

GYPSY MOTH





SOCIAL PEST - OUTBREAKS EVERY YEAR CAUSE SOCIAL PROBLEMS

COCONUT

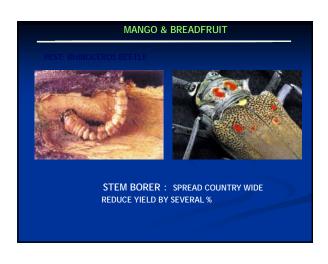


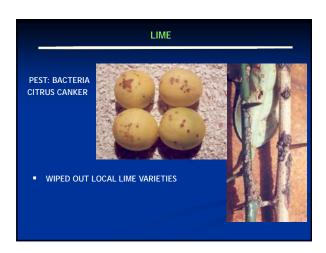


PEST: COCONUT HISPID BEETLE

Direct economic losses between June 2000 - Feb 2003 at USD 259,350







BANANA



DURING THE EARLY 1990'S BANANA PRODUCTION IN SOME MAJOR ISLANDS WAS SEVERELY AFFECTED



WATER & ROSE APPLE





PEST: PYSILLID INSECT

NO DIRECT DAMAGE TO THE FRUITS BUT REDUCE YIELD BY REDUCING THE PHOTOSYNTHETIC ABILITY OF THE PLANT

FIELD & ORNAMENTALS



NUISANCE PEST OF MANY CROPS



FIELD & ORNAMENTALS



INTRODUCED IN THE 60'S SUCCESSFUL BIOLOGICAL CONTROL PROGRAM USING A FLAT WORK

SIANT AFRICAN SNAIL

WEEDS



Lantana camara degraded & replace natural vegetations and interfering with natural regeneration.

Grass sp.
A rapidly spreading noxious perennial weed in agricultural land

WEEDS



A rapidly spreading noxious perennial weed in agriculture and natural vegetations.

Frequent weeding and herbicides Economic loss of crop competition





NATURALISED TREES



Grown all over the country as a shade tree

Replace many endemic species

HOW DO WE ADDRESS THE ISSUE? -- MOFA

STRENGTHENING PLANT QUARANTINE & INSPECTION

- Regulation: Live plants and plant products import permit application
- An original State Phytosanitary Certificate is required for the live plants
- Any shipment without valid original State Phytosanitary Certificate will be detained until further notice
- It must not include dried parts in any of the live plant and plant product

HOW DO WE ADDRESS THE ISSUE? ..MOFA

STRENGTHENING PLANT QUARANTINE & INSPECTION

- REGULATION: Live plants and plant products import permit application (cont)
- Live plants and plant products should not contain soil particle
- Notification Plant Protection and Animal Quarantine Unit Hulhule 72 hours prior to the expected time arrival of the consignment and the flight number

PLANT PROTECTION BILL IN PROGRESS

HOW DO WE ADDRESS THE ISSUE? MOFA

STRENGTHENING PLANT QUARANTINE & INSPECTION

- 2. INSPECTION
- 3. CONTROL PROGRAMS BIOLOGICAL
- 4. MONITORING & SURVEILLANCE
- 5. TRAINING & AWARENESS



HOW DO WE ADDRESS THE ISSUE?MOFA - policies

STRATEGIC ACTION PLAN

Policy 6: Strengthen legal framework to regulate the use of agriculture natural resources and develop services related to agriculture development

 Regulate the provision of uninhabited islands for community based agriculture development at provincial level in accordance with the Agriculture Land Act

PREPARATION OF AGRICULTURE LAND ACT IN PROGRESS

 Strengthen laws and regulations to create a conducive environment for sustainable agriculture and forestry development

HOW DO WE ADDRESS THE ISSUE? ENV

- 1. CONSERVATION OF ISLANDS AND ECOSYSTEMS
- 2. MONITORING & SURVEILLANCE
- 3. TRAINING & AWARENESS



