

Group 3 Presentation

ORGANIZING SUREVILLANCE IMPLEMENTATION

1. Write the title and recording authors, people responsible

SALB Surveillance for PFA-

PPO & Rubber Research/ Extension

2. Reasons for survey –

PFA + early detection + eradication

3. Identify and understand target pest –

a. **Training of experts in Brazil to see the real pest problem - at least 2 pathologist /country – once in five years**

b. **In house training programmes- use of available literature**

4. Identify hosts of target pest

Present information is old. Brazil needs to provide latest information/ latest scientific evidence in English

5. Identify alternate hosts of target pest

a. **Warrants fresh studies on host range**

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6. Review of previous surveys and survey plans

- a. Most countries does not have specific surveillance program
- b. Previous surveys data are mainly for other rubber diseases
- c. Plans – once a year, will look into SALB with other main surveys

7. Record the Area on climate, topography, location coordinates

8. Record the District - identify and provide coordinates or define

9. Record characteristics of places, field sites and sampling sites.

- a. Climate, temp, humidity, rainfall,
- b. Topography, location coordinates

10. Identify how sites will be chosen

- a. Depends on availability of staff/
- b. Depends on the type of farms – age of plants, smallholder/estates/nursery (budwood or seedlings), near the border, port of entry

11. Sample size

- ??? 50 sampling per survey from estates - sampling will be done on all clones
- Budwood Nursery – every clone will be checked (3-5 samples/clone)
- Port of entry – seaport, airport, point of entry

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12.Determine timing

Depends on the plant stage, climate and wintering season

13.Determine what data to collect

- a. Plantation information (clone, age of plants, level of defoliation, location, climate, age of leaves,)
- b.Symptoms (mature leaves, young leaves, shoot, fallen leaves),
- c. level of disease grades of infestation: 0 – 4

0 – no disease

1 – mild

2 – moderate

3 – Severe

4 – very severe with leaves fall

14.Collecting data methods

Manual, online, using software (P-tracker), PDA, GPS, photography, Questionnaires, Leaf sampling, Spore traps (Burkard)

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15.Data Management approach

Develop database using software or depends on the country system capability

16.Personnel involved –role and responsibilities

DoA – do actual survey, logistics support*

NPPO – prepare survey questionnaires based on ISPM

Rubber research institute – conduct the survey

***In case of countries who have no rubber institutes, the DoA or any agricultural university prepares and conducts the survey**

17.Obtain permission to visit sites and any permits required

Depends on the local permit requirements

18.Perform pilot survey

Mock trial for surveillance efficiency and uniformity – group has to fix the time of survey (high peak disease season)

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19. Perform full-scale survey

After pilot survey

All rubber growing areas ???

20. Analysed data

Using analytical software – SIMS, SPSS, SAS

Depends on the facility and resources in each country

21. Report Results

The head of the project will submit report to Head of Ministry of Agriculture/DOA/Ministry of Commodity for appropriate action

APPPC Regional SALB Workplan

- **List of commodities to be imported from SALB countries other than rubber and rubber products**

each country as per WTO or any agreement in force may list the commodities to be listed in the negative list

- **Preparedness in Legislation on import requirements**

Depends on regional Agreements between countries, ASEAN agreement, WTO Agreement, GATT

APPPC Regional SALB Workplan

- **Capacity on establishing and maintaining PFA**

Maintaining PFA requires more personnel, resources for which funding may required for international agencies such as FAO or World Bank

- **Capacity building on diagnostic for detection and screening analysis**

Infrastructure of diagnostic tools shall be improved through establishing modern molecular facilities

Training of personnel include extension, Research, field and quarantine

- **List the activities to be proceed and expected outcomes**

Regular workshop, meetings (once/2 years)and training in Brazil (once/5 years) for plant pathologist

.....**Thank you**