

Survey responses			
Country	Questionnaire	Technical Resources	Best Practices
Australia	X	x	5
Bangladesh	x	x	1
China P.R.	х	x	1
Fiji	х	x	1
India	х	x	1
Indonesia	x	x	1
Japan	х	UK I	
Korea, Republic of	х	x	1
Laos P.D.R.	x	x	1
Malaysia	x	x	1
Myanmar	x	x	1
Nepal	x	x	1
New Zealand	x	x	1
Philippines	х	x	1
Sri Lanka	x		1
Thailand	x	x	1
Vietnam	x	x	1
Total		13 countries	14 countries 17 best practices

## A. Policy and legislative environment

Regional norm (>2/3 of countries)

- Policy setting: trade (50%), pest management (30%) and quarantine (20%)
- Primary pest surveillance responsibility with NPPO
  There are other organizations that are officially mandated to conduct pest surveillance by law, mission or job descriptions NPPO is the national coordinator of mandated organizations
- NPPO can mandate other organizations in emergencies
- Collaboration with other organizations is based on written
- Pest surveillance follows a strategic and operational plan
- NPPO is responsible for surveillance of regulated and nonregulated pests

# B. Organizational structure, competence and culture

- Pest surveillance is centralized under a national manager
- On average, probably more than 10 organizations are involved in pest surveillance
- NPPO maintains formal linkages to external sources and engages them to support and improve pest surveillance
- In emergencies, stakeholders are included in the planning team
- NPPO surveillance program has a well developed and compatible data system to collect, store and report information
- NPPO pest surveillance programme has procedures to review its performance

## C. Documented procedures

Regional norm (> 2/3 of countries):

- Majority of NPPO use a computerized retrieval system
- NPPO records include
  - Scientific name of pest
  - Plant parts affected
  - Date and name of collector
  - Date and name of identifier
- Locations are specified by GPS coordinates
- NPPO has an operational manual for general pest surveillance

#### D. General surveillance

Regional Norm (>2/3 of countries)

- There is an easily accessible national database of plant pest records
- <75% of records are verified
- Plant pest records are compiled from NPPO, research institute and university information
- Sufficiency of resources is rated intermediate to
- Pest identification service is open to the public

### E. Specific surveys

Regional norm (>2/3 of countries):

- There is a specific, trained manager with overall responsibility for surveillance
- Plant species/products regularly surveyed range from 1 to about 250
- Rice is most often surveyed
- There are no agreements between NPPO and private institutions to cover expenditures for surveys
- There are agreements between NPPO and <u>public</u> institutions to cover expenditures for PFA, ALPP, etc.
- Pest survey procedures are described in operational manuals
- These manuals are periodically evaluated

#### F. Resources

Regional norm (>2/3 of countries):

- NPPO annual surveillance investments range from \$600 to >\$10 million
- Other annual surveillance investments range from \$0 to <\$50
- Percent of NPPO budget for pest surveillance salaries range from 0% to 40%
- There are no private sector contributions
- Sufficiency of other resources is rated marginal to intermediate
- The number of human resources is rated weak to average
- The qualifications of human resources is rated average
- In the majority of countries, only about 25% of the surveillance staff have been trained to do so
- Training programs for staff are carried out once every 1-3 years

## Things that affect the ability to conduct pest surveillance

- Lack of (skilled) personnel = 17 times (first priority = 1 time)
- Lack of funding = 12 times (first priority = 7 times)
- Lack of infrastructure/research = 11 times
- Lack of cooperation and participation = 8 times (first = 1 time)
- Unclear central/federal responsibilities = 4 times (first priority = 2
- Lack of clear policies = 3 times (first priority = 1 time)

# Things to improve in ISPM 6

- More detailed procedures
- Case studies/examples
- Report format/standard phrases
- Note: many answers related to improving the country's surveillance program rather than improving the ISPM guidelines themselves

#### **TECHNICAL RESOURCES**

Many of the technical resources listed by one country may also be of interest to another county. An exchange of relevant resources among countries is encouraged.

ote: Many of the categories are not easily distinguishable. For example, a resource may be listed as training material, manuals, guidelines dependent on one's point of view.

#### **BEST PRACTICES**

The best practice examples submitted cover a full range of surveillance applications:

- Early detection of new pests
- Surveillance methodology for high risk sites
- Pest status reports
- Pest management and population dynamics
- Pest control

#### CONCLUSIONS

- The responses to the survey provide an excellent and representative view of ISPM 6 implementation in the region.
- There are huge differences between the countries in terms of available human, financial and material resources which inevitably affect the implementation of ISPM 6
- The list of technical resources will be an excellent source for the exchange of ideas, training materials and operational manuals between APPPC countries
- The submitted best practices provide excellent examples for pest surveillances under ISPM 6

#### LIMITATIONS

- Some country responses may have been affected by a different understanding of "pest surveillance"
- The differences in definition between general surveillance, specific surveys, pest surveys, host surveys, targeted and random sampling may have been difficult to understand
- The questionnaire may not have brought out some of the obvious differences between countries; for example, the responses of New Zealand and Laos to Yes/No questions were identical in 70% of the cases despite the huge differences between the two countries (for comparison: New Zealand and Australia responses were identical in 83% of the cases)

# ISSUES (1)

- National plant protection organizations (i.e departments, agencies, services, etc.) are usually organizations that have other responsibilities besides acting as NPPO for IPPC. Giving the same name for a very limited IPPC function as for the wider national function of plant protection creates confusion and misunderstanding.
- Likewise, giving a very limited definition to the widely practiced activity of pest surveillance and surveys creates confusion and misunderstanding

# ISSUES (2)

- To assess the performance of IPPC pest surveillance in a country, it would also be important to know
  - The number of pest records collected
  - Number of declarations of pest freedom issued
  - Number of new pests detected
  - Number of IPPC/NPPO pest lists produced
  - Number of Pest Risk Analyses performed