

Annex II

Details of analysis of 2005 country reports

At the 24th Session of the Asia and Pacific Plant Protection Commission held in Bangkok, Thailand, from 5-9 September 2005, 21 country reports were presented by representatives of the Commission's member countries. The topics covered by the reports were analyzed separately with details as follows:

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Analysis of Each Topic Covered by the Country Reports in 2005

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Guidelines for Country Report

1. Introduction

Guidelines for Country Report:

General review of progress including technical, policy/legal, infrastructural and institutional development and challenges in national plant protection since 2003.

	Australia	Bangladesh	Cambodia	China	Fiji	India	Indonesia	Japan*	Korea DPR	Korea, Rep. of	Lao PDR	Malaysia	Myanmar	Nepal	New Zealand	Pakistan	Philippines	Sri Lanka	Thailand	Tonga	Viet Nam	
1.1 Highlights																						
General Introduction																						2
Highlights of progress																						
technical progress	PRA	IPM	Res	IPM		IPM								PRA/ IPM		IPM	PRA	bio		BS	IPM/PQ	11
new projects																NatI			GAP		PQ	3
policy/legal				subs	lib					env	clean	lib								codex		11
new legislation		PQ				PQ								PP		Pest				BS		5
new policies									pest						BS				safty			3
new infrastructure		4		260		8			elec				elec	8								6
institutional changes	BA				PQ			PQ						reorg	BNZ			comm				7
challenges			fp																			11
lack of facilities																						6
lack of qualif. pers.																						7

* Japan is not a member country of APPPC.

Observations (from 21 country reports)

- Generally, the introduction highlighted progress and gave important background information
- Policy background and changes in the legal system were most often reported (subsidies, environment-friendly farming, clean production, food security, WTO/trade liberalization/ food import, SPS = trade tools, food safety)
- Technical progress highlighted in IPM, PRA, biocontrol
- Reorganizations of PP and PQ in 7 countries; new biosecurity authorities in Australia and New Zealand, Food safety
- New laws were introduced in 5 countries
- New policies affecting the execution of plant protection were reported in 3 countries

Notes

- Dynamic situation; changes occurring in almost all member states
- Introduction provided a forum to report developments that did not fit into the other format

To Be Considered

- Highlight changes in organizational setup
- Highlight policy targets (such as pesticide reduction)

2. Outbreaks of Major Pests

Guidelines for Country Report:

Infested crops, causal organism, estimated loss; actions and areas covered by control measures; management of invasive species

2.1 General Reporting According to Guidelines

	Australia	Bangladesh	Cambodia	China	Fiji	India	Indonesia	Japan*	Korea DPR	Korea, Rep. of	Lao PDR	Malaysia	Myanmar	Nepal	New Zealand	Pakistan	Philippines	Sri Lanka	Thailand	Tonga	Viet Nam	
2.1 Responses																						
No response																						1
infested crops	-	7	rice	4	0	3	7	4	4	1	4	5		13		3						13
causal organisms	-	80	4/3old	3		3	30	10	11	3-7	1	29	1	19		6						13
estimated loss	-	%	-	ton			ha		%			ha		%								5
control measures/area	-	-	-			ha	ha	ha	l/ha	time												5
invasive species	4	0	1	-	0						1				24		2	4	2		3	9
	1	3	3	3	2	3	4	3	4	3	3	2	1	3	1	2	1	1	1	1	1	1

* Japan is not a member country of APPPC.

Observations (from 21 country reports)

- Wide range of responses: only 2 country reported all; other country responses varied widely
- 6 countries only reported on outbreaks of new species, not on recurrent pests
- List of infested crops: 13 countries, from 0 to 13 crops
- List of causal organisms: 13 countries, from 1 to 80 species
- Estimated losses: 5 countries, in %, tons or ha; no apparent crop loss assessments
- Control measures (kind & area): 1 country kind & area; 4 countries area only, 1 country: time?
- Management of invasive species: 9 countries, from 0 to 24 new organisms
- No outbreaks of migratory pests

Notes

- Current reporting does not give a coherent picture of the pest situation
- Current reporting does not allow for comparisons

To Be Considered

- Define “major outbreak” in terms of
 - Estimated pest control expenditures (pesticides and other)
 - Crop losses (?)
- Distinguish between migratory, invasive and recurrent pest outbreaks

2.2 Crops with Pest Outbreaks

	Australia	Bangladesh	Cambodia	China	Fiji	India	Indonesia	Japan*	Korea DPR	Korea, Rep. of	Lao PDR	Malaysia	Myanmar	Nepal	New Zealand	Pakistan	Philippines	Sri Lanka	Thailand	Tonga	Viet Nam	
2.2 Crops																						
No response	■																					
Rice		■	■	■	■	■	■	■	■	■	■	■	■	■	■							11
Fruit		■	■	■	■	■	■	■	■	■	■	■	■	■		■	■		■	■		6
Vegetables		■	■	■	■	■	■	■	■	■	■	■	■	■								5
Corn							■	■	■	■	■	■	■	■			■	■	■	■		5
Coconut palms											■	■	■	■			■	■	■	■		4
Cotton		■		■		■								■		■						3
Sugarcane		■		■		■								■								3
Wheat		■		■																		2
Soy-/Mungbean						■	■	■	■	■												2
Potato								■	■	■				■								2
Peanut							■	■	■	■												1
Cassava							■	■	■	■												1
Sweet potato							■	■	■	■												1
Jute		■																				1
Oil palms											■	■	■	■								1
Date Palm																■	■					1
Ornamental palms											■	■	■	■								1
Aquatic weeds																		■	■			1
	0	7	2	4	0	3	6	2	4	1	2	5	0	6	0	3	2	2	2	0	0	

* Japan is not a member country of APPPC.

Observations (from 21 country reports)

- 13 countries reported general pest outbreaks on crops; 6 did not name crops
 - >6 crops: 3 countries
 - 4-5 crops: 3 countries
 - 2-3 crops: 5 countries
 - 1 crop: 1 countries

Notes

- Rice is the most often mentioned crop (11 times)
- Fruits, vegetables, corn and coconut were mentioned in 4-6 countries
- Cotton, sugarcane, wheat, beans and potato were mentioned in 2 countries, each

To Be Considered

- Rank crops by
 - Pesticide use
 - Area treated by government

2.3 Causal Organism

	Australia	Bangladesh	Cambodia	China	Fiji	India	Indonesia	Japan*	Korea DPR	Korea, Rep. of	Lao PDR	Malaysia	Myanmar	Nepal	New Zealand	Pakistan	Philippines	Sri Lanka	Thailand	Tonga	Viet Nam		
2.3 Pests																							
No response																							3
No outbreaks																							1
BPH																							10
rice stem borer																							6
Rodents																							5
Armyworm																							4
Helicoverpa amigera																							4
Grasshopper/Locust																							4
rice blast																							3
rice leaf beetle																							3
sheath blight																							3
corn stem borer																							2
DBM																							3
Swarm. caterpillar/rice																							2
rice water weevil																							2
rice sheath brown rot																							2
rice tungo virus																							2
potato 28-spotted beetle																							2
potato late blight																							2
red spider mite																							2
fruit fly																							2
Golden Apple Snail																							2
rhinoceros beetle																							2
Woolly aphid/sugarcane																							2
	3	80	4	4	0	4	30	7	14	5	9	29	1	19	-	6	1	5	1	-	-	ex	

Observations (from 21 country reports)

- 13 countries reported outbreaks of known pest
 - >10 pest outbreaks: 5 country
 - 5-10 pest outbreaks: 1 country
 - 3 pest outbreaks: 2 countries
 - 1 pest outbreak: 3 countries
 - No pest outbreaks: 2 countries
 - Rice BPH: 9 countries
 - Rice stem borer: 5 countries
 - Rice leaf beetle: 3 countries
 - Rice blast: 4 countries
 - Armyworm: 4 countries
 - Rodents: 5 countries
 - Isolated outbreaks only in 1 country: ~50

Notes

- No migratory pests except for Republic of Korea and China
- No information on reasons of outbreaks, e.g. climate or breakdown of natural ecological pest suppression, possibly from pesticide overuse

To Be Considered

- Restrict to outbreaks that are controlled by
 - Government action
 - Major pesticide use

2.4 New Invasive Species

	Australia	Bangladesh	Cambodia	China	Fiji	India	Indonesia	Japan*	Korea DPR	Korea, Rep. of	Lao PDR	Malaysia	Myanmar	Nepal	New Zealand	Pakistan	Philippines	Sri Lanka	Thailand	Tonga	Viet Nam	
2.4 Invasive Pests																						
Brontispa			■								■						■		■			4
Citrus cancer	■																					1
Current lettuce aphid	■																					1
European house borer	■																					1
Willow Sawfly	■																					1
Stenocranus pacificus																	■					1
Partenium weed																		■				1
Leaf miner Liriomyza																		■				1
Phoma black stem sunfl.																		■				1
coconut mite																		■				1
White peach scale																					■	1
Bean weevil																					■	1
Mexican bean weevil																					■	1
# Species Reported	4	–	1		neg						1				24		2	4	1		3	

* Japan is not a member country of APPPC.

Observations (from 21 country reports)

- The only species mentioned from more than one country was *Brontispa*
- Potential serious threat is also the coconut mite
- 9 countries reported outbreaks of new exotic pest
 - 24 new pests/pathogens: 1 country (New Zealand)
 - 4 new pests/pathogens: 2 countries (Australia, Sri Lanka)
 - 2-3 new pests/pathogens: 3 countries
 - 1 new pest/pathogen: 2 countries
 - *Brontispa* reported from 4 countries (Cambodia, Lao PDR, Philippines, Thailand)
 - No other pest/pathogen reported twice

Notes

- Some new detection were not of invasive species or species of economic importance
- The coconut mite, which is also known from India (but not reported), did not receive proper attention
- No information on eradication efforts

To Be Considered

- Exclude reporting of species without economical damage; inquire about PRA
- Rank species by economic damage potential

3. Integrated Pest Management

Guidelines for Country Report:

- 3.1 National IPM Policy*
- 3.2 IPM Programmes*
 - sources*
 - amount of inputs*
 - impact of implementation*
- 3.3 Results from research*
 - programmes concerned*
- 3.4 International cooperation*
- 3.5 Development of pests control*
 - insect*
 - diseases*
 - nematodes*
 - weeds*
- 3.6 Pest control extension*
 - small farmers*