

3.1 National IPM Policy

	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	
3.1 IPM Policy																						
no/vague response									?													8
IPM Policy/Planning						1985											Mem	rice				7
IPM legislation		pre?																				2
IPM expert group:																						1
IPM Section/Stations						26+6																5
Natl. IPM funding																	?					3+1
<i>Policies promoting...</i>																						
End to pesticide subsidy											?	1999										3
Pesticide reduction targets										2010												2
GAP standards												acc										2
Organic product standards												acc										1
IPM accreditation																						

* Japan is not a member country of APPPC.

Observations (from 21 country reports)

- Only 11 countries responded
- All responding countries had an IPM policy memorandum/statement; one country reported IPM in the national legislation
- Few countries had IPM-based policies such as pesticide reduction targets or food quality standards
- Five countries had an IPM section or station
- Four countries financed IPM activities from their own budget

Notes

- The NPPO may not have had enough information about IPM implementation
- IPM policy statements need to be translated into actual pesticide and food safety policies
- More countries need to institutionalize IPM

To Be Considered

- Assistance needed to put IPM policies into action
- IPM indicators:
 - Pesticide reduction targets
 - Subsidies/promotion of biopesticides
 - Non-chemical recommendations

3.2 IPM Programmes

	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	
3.2 IPM Programme																						
no response																						2
IPM Activities																						19
National IPM Programme			1993	?	?		?	no	?	demo	?	no	no		no				-			8
IPM stations						26+6																
Sources																						
external support		1	4		1	1	-				NGO			1		3		1	1		1	9+2
only internal																						7
Impact																						
Farm. pestic. reduct.																						8
Yield/income increase																						6
control/produced efficiency																						5
reduced outbreaks																						2
biopesticide increase																						1
nat. pesticide reduction																						1

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Observations (from 21 country reports)

- All responding countries (19) reported IPM activities
- Eight countries reported to have a National IPM Programme, mostly in connection with external support.
- Seven countries financed their IPM activities themselves, but none had a National IPM Programme
- Eight countries reported positive impacts from IPM programmes, mostly in form of pesticide reduction on farm level, followed by increase in yields/income and higher production efficiency; two countries reported fewer outbreaks, and one country (only) reported a reduction in national pesticide consumption

Notes

- Many National IPM Programmes may have been only created in response to external funding, but are not yet integrated to
- There is a general agreement on the positive effects of IPM

To Be Considered

- Key indicators
 - % plant protection budget for IPM
 - % of major crops under IPM
 - % agric. extension officers able to give farmer training in IPM

3.3 Results from IPM Research

	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	
3.3 IPM Research																						
no response																						12
Institutions																						
ARC			CARDI									MARDI										4+
national IPM centre						NCIPM																1
University																						2
Other/Project											PPD					CABI						3
web database																						
Research Areas																						
Invasive Species																						4
Weed IPM											rice											2
Vector IPM																						1
Biocontrol																						7
Biopesticides																						6
Chemical Control																						5
Cultural control																						4
Resistance																						3
Biodiversity																						1
GM																						1
Crops, general																						
vegetables				Bt																		7
fruits																		coco				4
rice																						3
cotton																						3
corn																						3
locust																						1
sun flowers																						1
wheat																						1
sugarcane																						1
potato																						

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Observations (from 21 country reports)

- Only 9 countries responded to the question
- Most IPM research is being conducted by Agric. Research Institutions
- Only 2 countries reported IPM research by universities
- Reports do not clearly distinguish between IPM research, IPM implementation and pest outbreak management
- Four countries are developing IPM in response to invasive pest species
- Besides insect and disease IPM, only 2 countries worked on weed IPM and one country mentioned vector IPM research
- Most IPM research focused on biological control and biopesticides; all reported research was on pest control interventions
- Most research is done on vegetables, followed by fruits, rice, cotton and corn

Notes

- The reporting institution may not be aware of IPM research because of poor linkages to plant protection research institutions
- There appears to be little research on natural/ecological pest suppression

To Be Considered

- Exchange of 'best practices'

3.4 International Cooperation

	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	
3.4 International																						
no response																						11
Internat. coop																						
external support		1	4		1	1	-				NGO			1		3		1	1		1	10+2
FAO														TCP				vect				5+3
EU																						2+4
DANIDA		1997 2000																				4
Norway																						1
ADB																						1
WB																						1
IFAD																						1
Pacific Community																						

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Observations (from 21 country reports)

- Half the countries reported to receive external assistance for IPM implementation
- The institutions most often mentioned were FAO, EU and DANIDA

Notes

- Reporting institutions were not always aware of the international cooperation programmes for IPM
- Most external assistance was coming to an end, indicating a dwindling interest in IPM

To Be Considered

- Inquire about country successor programmes after cooperation projects

3.5 Development of Pest Control

	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	
3.5 Pest Control																						
no response																						4
insect																						17
diseases																						17
weeds																						2
nematodes																						1
locust																						2
Methods																						
Biological control																						12
Chemical																						10
Biopesticides		no																				8
Cultural/sanitation																						8
Surveillance/Forecasting												10%										8
Resistance																						6
Mechanical/Physical																						5
Natural control																						3
Pheromones																						3
Crops, general						77																
rice										258												15
vegetables																						12
fruits						coco		citr		27							mango					7
cotton				Bt																		4
plantation						palm						palm		tea								4
corn																						3
flowers																						2
wheat																						1
sugarcane																						
coffee																						

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Observations (from 21 country reports)

- All responding countries are engaged in developing pest control technology; only 2 countries mentioned weed control, and one country mentioned nematodes
- Most pest control activities involve biological and chemical control, followed by cultural control methods and biopesticides
- Eight countries maintain surveillance and forecasting activities
- Strengthening natural control was only mentioned 3 times
- Most pest control activities take place in rice and vegetables, followed by fruits

Notes

- Insect and disease control is an important aspect of agricultural production
- All countries report to use a mixture of different techniques

To Be Considered

- Inquire about number of official recommendations by crops and method

3.6 Pest Control Extension

	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	
3.6 Extension																						
no response																						7
FFS						9111					527											11+
Master/IPM Trainers		110	200			1166					142			139		627		250				7
Farmer trainers			300											535		183						3
Media, etc.																						2
pest control service																						
spray services/demos																						1
biocontrol facilities						26+6																2
Neem factories																						1

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Observations (from 21 country reports)

- Of the 14 countries that reported pest control extension, 11 used farmer field schools, some with farmer trainers
- Two countries (Korea peninsula) appear to rely much on media extension
- Two countries reported facilities to multiply biocontrol agents, and one country has a factory for neem-based biopesticide
- One country still maintains a spray service

Notes

- Most countries provide pest control extension to small farmers, very often using farmer field schools and IPM technologies
- There is not enough information on the size of the extension programmes or their integration into general extension
- More industrialize countries employ different extension methods than developing countries

To Be Considered

- There may still be a need to integrate pest control extension into a more holistic approach, aiming at country development objectives and not only technologies
- Inquire about plant protection extension part of/separate from general extension
- Number of IPM-FFS trainers
- Number of IPM-FFS