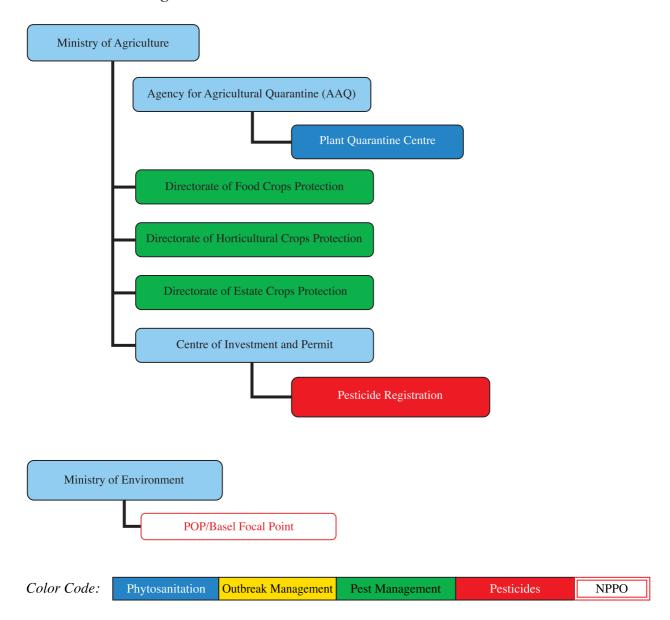
3.5 INDONESIA

I. GENERAL INFORMATION

Last updated: December 2006

Plant Protection Organization Chart



Important Contact Addresses

Responsible Ministry/Ministries

Centre for Plant Quarantine

Mr Suwanda, Director (NPPO focal point)

Agency for Agricultural Quarantine (AAQ)

Ministry of Agriculture

Jl: Harsono RM No. 3 E Building (5th floor)

Pasar Minggu, Jakarta Selatan 12550, Indonesia

Tel: (+62) 21 7816482 / 7805641 ext. 1508

Fax: (+62) 21 7816481 / 7816482 / 7816483

E-mail: caqsps@indo.net.id, pusatkt@indo.net.id

Websites: http://www.karantina.deptan.go.id/

http://www.deptan.go.id/karantina/english/plant.htm

Responsible Department

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Address for nominations

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Operational Offices:

Plant Protection

Directorate of Food Crop Protection

Ms Ati Wasiati, Director

Jl. AUP Pasar Minggu, P.O. Box 7236/Jks Pasar Minggu

Jakarta 12520, Indonesia

Tel: (+62) 21 7806213

Fax: (+62) 21 7805652

E-mail: atiwasiati@deptan.go.id; ditlin-ptp@deptan.go.id

Directorate of Estate Crops Protection

Dr Herdradjat Natawijaya, Director

Building C, Ministry of Agriculture, Jl. Harsono RM No. 3

Ragunan, Pasar Minggu

Jakarta 12550, Indonesia

Tel: (+62) 21 7815684

Fax: (+62) 21 7815684

Directorate of Horticulture Crop Protection

Mr Sukirno, Director

Jl. AUP Pasar Minggu, P.O. Box 7228/Jks PsM 12072

Jakarta 12520, Indonesia

Tel: (+62) 21 7819117

Fax: (+62) 21 78845628

E-mail: ditlinhor@deptan.go.id

Plant Quarantine

Centre for Plant Quarantine

Mr Suwanda, Director (NPPO focal point)

Agency for Agricultural Quarantine (AAQ)

Ministry of Agriculture

Jl. Harsono RM No. 3 E Building (5th floor)

Pasar Minggu

Jakarta Selatan 12550, Indonesia

Tel: (+62) 21 7816482 / 7805641 ext. 1508 Fax: (+62) 21 7816481 / 7816482 / 7816483 E-mail: caqsps@indo.net.id, pusatkt@indo.net.id Websites: http://www.karantina.deptan.go.id/

http://www.deptan.go.id/karantina/english/plant.htm

Surveillance, Pest Outbreaks and Invasive Species Management

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Pesticide Registration

Centre for Investement and Permit

Mr Mohammad Dani, Director

Ministry of Agriculture

3th Floor, Archive Building, Ministry of Agriculture, Jl. Harsono RM No. 3

Ragunan, Pasar Minggu Jakarta 12550, Indonesia

Tel: (+62) 21 7815380 ext. 6314, 7812162

Fax: (+62) 21 7818205

Official International Contact Points

National Plant Protection Organization (NPPO) Contact Point (for IPPC/APPPC)

Centre for Plant Quarantine

Mr Suwanda, Director (NPPO focal point)

Agency for Agricultural Quarantine (AAQ)

Ministry of Agriculture

Jl. Harsono RM No. 3 E Building (5th floor)

Pasar Minggu

Jakarta Selatan 12550, Indonesia

Tel: (+62) 21 7816482 / 7805641 ext. 1508 Fax: (+62) 21 7816481 / 7816482 / 7816483

E-mails: pusatkt@indo.net.id; caqsps@indo.net.id

Website: http://karantina.deptan.go.id/

WTO-SPS Contact Point

Agency for Agricultural Quarantine (Badan Karantina Pertanian)

Ministry of Agriculture

Ged. E. Lt. V. Jl. Harsono RM No. 3, Ragunan-Pasar Minggu

Jakarta Selatan 12550, Indonesia

Tel: (+62) 21 781 6480

Fax: (+62) 21 781 6481 / 781 6483

E-mail: cagsps@indo.net.id

Website: http://karantina.deptan.go.id/

Rotterdam Convention (PIC) DNA Pesticides

Pesticide Committee

Dr Ato Suprapto, Chairman

Ministry of Agriculture

8th Floor, Building D Jl. Harsono RM No. 3

Jakarta 12520, Indonesia Tel: (+62) 21 781 91 17

Fax: (+62) 21 7883 76522

Stockholm Convention (POP) National Focal Point (S)

Ministry of Environment

Mr Moh Gempur Adnan, Deputy for Environmental Pollution

5th Floor, Building A

Jl. D.I. Panjaitan, Kebon Nanas

Jakarta 13410, Indonesia

Tel: (+62) 21 858 0110 / 0067

Fax: (+62) 21 852 0763 / 851 8135

E-mail: haruki@indo.net.id

Basel Convention Competent Authority (CA) and Focal Point

Ministry of Environment

Dr Yanuardi Rasudin, Deputy Minister for Hazardous and Toxic Wastes Management

Jl. D.I. Panjaitan, Kebon Nanas

Jakarta 13410, Indonesia Tel: (+62) 21 85 90 56 37

Fax: (+62) 21 85 90 56 37 or 85 90 49 32

E-mail:db3@menlh.go.id

Selected Country Statistics

Agricultural Population 93.0 million		Agricultural Land	33.7 million ha		
GDP \$208 311 million	Agric. GDP: 17.5%	GNI per capita: \$810	Undernourishment: 6%		
Main crops grown:					
Paddy, Maize, Crude Palm Oil, Rubber, Cocoa, Coffea					

GDP = Gross Domestic Product; GNI = Gross National Income; Hunger = Population below minimum energy requirement;

II. PLANT QUARANTINE

Last updated: December 2006

List of Key Legislation/Regulations/Rules

Exportation from the Territory of the Republic of Indonesia of Plant Propagating Materials on Regulation of the Minister of Agriculture No. 6/PMP/1961.

- 1984 Importation into the Territory of the Republic of Indonesia of Plants Used as Packing on DOMOA No. 796/Kpts/TP.830/10/1984.
- 1984 Importation into the Territory of the Republic of Indonesia of Plant Growing Media on DOMOA No. 797/Kpts/TP.830/10/1984.
- 1985 Plant Quarantine Requirements for the Importation of Plant Propagating Materials of Coconut, Oil Palm, Cocoa, Rubber, Coffee, Tea, Sugarcane, and Tobacco on DOMOA No. 559/Kpts/KB.630/8/1985.
- 1985 Domestic Plant Quarantine on DOMOA No. 809/Kpts/LB.710/12/1985.
- 1989 Prevention on the Introduction into the Territory of the Republic of Indonesia of South American Leaf Blight of Hevea on DOMOA No. 861/Kpts/LB.720/12/1989.
- 1989 Eradication for Khapra Beetle (Trogoderma granarium Everts) on DOMOA No. 799/Kpts/LB.710/10/1989.
- 1990 Plant Quarantine Requirements and Actions in relation to the Importation into the Territory of the Republic of Indonesia of Plants and Plant Propagating Materials on DOMOA No. 38/Kpts/HK.310/1/1990.
- 1992 Law No. 16 of 1992 concerning Animal, Fish, and Plant Quarantine.
- 1995 Importation into the Territory of the Republic of Indonesia of Biological Agents on DOMOA No. 411/Kpts/TP.120/6/1995.
- 1995 Formation of Biological Agent Commission on DOMOA No. 412/Kpts/KP.150/6/1995.
- Actions and conditions of quarantine plant for the entry of plant and seedling into the territory of the Republic of Indonesia, lastly amended by the decree of the Ministry of Agriculture Number: 211/Kpts/HK.310/2001 on DOMOA No. 469/Kpts/HK.310/8/200.
- 2002 Government Regulation of the Republic Indonesia No. 14 of 2002, concerning Plant Quarantine.
- 2006 Decree of the Minister of Agriculture No. 38 of 2006 concerning Plant Quarantine Pests Group I Category A1 and A2, and Group II Category A1 and A2; their hosts, carriers and countries of distribution.
- 2006 Minister of Agriculture Regulation No. 37 of 2006 concerning Importation of Fresh fruits and vegetables.
- 2006 Concerning requirements and guideline for Quarantine Installation Establishment for Private on DOMOA No. 05/Permentan/HK.060/3/2006.
- 2006 Concerning requirements and guidelines for the Implementation of Plant Quarantine action by third party on DOMOA No. 271/Kpts/HK.310/4/2006.
- 2006 Concerning the Implementation of Plant Quarantine action conducted import and exit points on DOMOA No. 18/Permentan/OT.160/5/2006.
- 2006 Concerning addition requirements on DOMOA No. 52/Permentan/OT.140/10/2006.

Web source for further information: -

Policies (regarding plant quarantine)	Yes	No		
Does phytosanitary legislation cover domestic quarantine?				
Does phytosanitary legislation cover import quarantine?				
Does phytosanitary legislation cover export quarantine?	X			
Does phytosanitary legislation cover living modified organisms?				
Is plant quarantine a separate organization from animal quarantine?				
Other policy initiatives (under review/progress)				
Web source for further information:				
http://www.karantina.deptan.go.id/				

Organization of Plant Quarantine Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Pest Risk Analysis	Center for Plant Quarantine
National standards development	MOA/AAQ/Centre for Plant Quarantine
International notifications	MOA/AAQ
Import:	
Import permits	DGs of Food Crops, DG of Estate Crops, DG of Horticulture,
	DG of Livestock
Import inspections	Centre for Plant Quarantine
Emergency action	Centre for Plant Quarantine
Export:	
Phytosanitary certificates	MOA/AAQ/Centre for Plant Quarantaine
Treatment of commodities	Centre for Plant Quarantaine, Plant Protection

Infrastructure	Year: 2006
Number of plant quarantine officers authorized to inspect/certify	356
Total qualified personnel for plant pest risk analysis	17
Number of quarantine offices	43
entry points (sea/air/land/mail = total)	>200
post-entry plant quarantine containment facilities	5
other offices	
Number of quarantine service diagnosis laboratories	6
In-country recognized pest diagnostics capabilities	
(incl. universities, etc.)	
Number of laboratories for insect/mite (arthropod) samples	45
Number of laboratories for bacteria samples	15
Number of laboratories for virus samples	4
Number of laboratories for fungus samples	15
Number of laboratories for mycoplasma samples	1
Number of laboratories for nematode samples	15
Number of laboratories for plant/weed samples	45
Number of laboratories for other pests (snail, slug, rodents, etc.)	1

Pest-Free Areas According to ISPM 10	Responsible Organizational Unit (Ministry/Department/Unit)			
Overall management	Directorate of Plant Protections of r	related DG/AAQ		
surveillance	Directorate of Plant Protections of 1	related DGs		
management	Directorate of Plant Protections of r	related DGs		
certification	N/A			
List of target pest species and crops ISPM 4		Number of sites in [year]		
To be determined				
List of target pest species and crops ISPM 10		Number of sites in [year]		
To be determined				

Key Situation Indicators

International Trade		Year: 2005
Main Import Plant Commodities	Main countries/areas of origin	Quantity (tons)
Wheat	Australia, USA, Canada, China,	261 136 575 262
	Argentina, Belgia	
Soybean	USA, India	2 209 255 290
Fruits	Australia, USA, China	425 033 075
Main Export Plant Commodities	Main destination countries	
Crude palm oil	Viet Nam, China	1 124 440 748
Rubber	USA, Argentina, Africa, Brazil,	261 831 055
	Netherland, England, Canada	
Living plants (ornamentals)	Korea, Netherlands, Japan, USA	9 604 045

Cooperation Projects			
Title (Purpose/Target)	Donor	Amount	Years (start-end)
Fruitfly Management	ACIAR	A\$124 000	2004-2008
Title of government follow-up programmes		Amount	Years (start-end)

Key Operation Indicators

Institutional Functions	Year: 2005
Number of import permits issued	>120
Number of import inspections carried out	>43 726
Number of emergency phytosanitary treatments taken on imports	0
Number notifications of non-compliance	5
Number of conventional phytosanitary certificates issued	>58 935
Number of electronic phytosanitary certificates issued	0

Number of quarantine pests intercepted		Year: 2005
Top three commodity	Top three pest/commodity	# of interceptions
Wheat	Abisidia sp.	Australia
Soybean		
Fruits	Abisidia sp.	China

Lists of Regulated Pests	Year of last update	Insects	Pathogens	Plants
Number of quarantine pests	2006	221	357	>100
Number of regulated non-quarantine pests				
Number of regulated import articles				
Web source for further information: –				

Pest Risk Analysis	Insects	Pathogens	Plants		
No. of PRA completed and documented (according to ISPM)					
Web source for further information: PRA conducted base on country and commodity not base on pests,					

the number of PRA conducted are 20.

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

In 2006 AAQ has successfully issued 6 new Minister of Agriculture Decrees concerning plant quarantine. Four of the Decrees are in process of socialization to stake holders. Another activity was Training in PQ which produced about 60 PQ inspectors. While PQ infrastructures funded by the Government was designed to fulfill the needs of PQ stations throughout the country.

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

The main constraint is the recruitment of PQ officers as the Government allows the recruitment for only certain amount of personnel per year.

Implementation of ISPM	R	televan	ce	Implementation				Planned/Actual
International Measures	low	medium	high	none	partial	most	full	Year of full implementation
ISPM 01 Principles of plant quarantine as related to international trade			х			X		2008
ISPM 02 Guidelines for pest risk analysis			Х				Х	2006
ISPM 03 Code of conduct for the import and release of exotic biological control agents			Х				Х	2000
ISPM 04 Requirements for the establishment of pest free areas			X	Х				2009
ISPM 05 Glossary of phytosanitary terms			X			X		
ISPM 06 Guidelines for surveillance			X		Х			2007
ISPM 07 Export certification system			X				Х	
ISPM 08 Determination of pest status in an area			X				Х	
ISPM 09 Guidelines for pest eradication programmes		Х			X			
ISPM 10 Requirements for the establishment of pest free places of production and pest free production sites		х		Х				2007
ISPM 11 Pest risk analysis for quarantine pests			X				X	
ISPM 12 Guidelines for phytosanitary certificates			X				X	
ISPM 13 Guidelines for the notification of noncompliance and emergency action			Х			X		2002
ISPM 14 The use of integrated measures in a systems approach for pest risk management	х			х				2008
ISPM 15 Guidelines for regulating wood packaging material in international trade			Х				X	2006
ISPM 16 Regulated non-quarantine pests: concept and application			х	х				2007
ISPM 17 Pest reporting			X			X		
ISPM 18 Guidelines for the use of irradiation as a phytosanitary measure			Х	х				2008
ISPM 19 Guidelines on lists of regulated pests			х				х	
ISPM 20 Guidelines for a phytosanitary import regulatory system			Х			X		
ISPM 21 Pest risk analysis for regulated non-quarantine pests			Х					2008
ISPM 22 Requirements for the establishment of areas of low pest prevalence		х			Х			
ISPM 23 Guidelines for inspection			Х			Х		2007
ISPM 24 Guidelines for the determination and recognition of equivalence of phytosanitary measures		Х			X			
ISPM 25 Consignments in transit		X				X		
ISPM 26 Establishment of pest free areas for fruit flies (Tephritidae)			X	Х				
ISPM 27 Diagnostic protocols for regulated pests			Х			X		

Comments/Constraints

The applications of ISPM involve many different institutions. It needs some periods of time to be harmonized and applied. Changing of MOA internal position also results in different policies of new decision-maker.

Note:

III. SURVEILLANCE, PEST OUTBREAKS AND INVASIVE SPECIES MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Surveillance, Pest Reporting and Emergency Actions

Law No. 16 of 1992 and Government Regulation No. 14 of 2002

Web source for further information: -

Policies (regarding invasive/migratory species management)		No
National strategy to control serious field pest outbreaks?	X	
National strategy to control migratory or periodically occurring pests?	X	
National strategy to eradicate serious newly invaded exotic pests?	X	
Other policies: (e.g. subsidies, etc.)		
Web source for further information: –		

Organization of Outbreak Management Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Field/Storage Pest Outbreaks	(e.g. BPH, bollworm, etc.)
Response strategy/plans	MOA
Surveillance	Related Directorate of Plant Protection
Control	Related Directorate of Plant Protection
Migratory Pest Outbreaks	(e.g. locusts, birds, armyworm)
Response strategy/plans	MOA
Surveillance	Related Directorate of Plant Protection
Control	Related Directorate of Plant Protection
New Exotic Pest Eradication	(e.g. coconut beetle)
Response strategy/plans	MOA
Surveillance	Related Directorate of Plant Protection/AAQ
Control/eradication	Related Directorate of Plant Protection/AAQ
Reporting to bilateral or international organizations	NPPO/Centre of Plant Quarantine

Infrastructure	Year: 2006
Number of designated staff for surveillance of field pests of national	3 000
importance	
Number of designated staff for surveillance of migratory and periodically	3 000
occurring pests	
Number of designated staff for surveillance of invasive species	
Number of designated staff for control of field pests of national importance	3 000
Number of designated staff for control of migratory and periodically	3 000
occurring pests	
Number of designated staff for eradication of invasive species	

Key Situation and Operation Indicators (Outbreaks and invasions in the past 2 years)

New exotic species found established in country	Insects	Pathogens	Weeds
Total number for year: 2005			
Total number for year: 2004 and before			
Total number on record			

Eradication or internal quarantine actions taken against economically important species			
Name of species	None	None	None
Year of first discovery			
Passway			
Location of first discovery			
Area affected [ha]			
Area treated [ha]			
Control method			
Expenditures			

Pest outbreak actions	Outbreak 1	Outbreak 2	Outbreak 3
Name of species	None	None	None
Year of outbreak			
Area affected [ha]			
Estimated damage \$			
Area treated by government [ha]			
Expenditures by government [\$]			
Control method			
More information			

Progress and Constraints

Progress and Constraints
Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

IV. PEST MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Pest Management

- 1992 Law No. 12 on Crop Cultivation System (incl. IPM).
- 1995 Regulation of Indonesian government/Government Decree No. 6 on Plant Protection.
- 1997 Agricultural Ministerial Decree No. 887/Kpts/OT/9/1997 on Guideline of Pest Control.
- 1999 Law No. 22 on Autonomy.
- 1999 Regulation No. 25 on Decentralization.
- 2000 Law No. 25 on Conduct of Autonomy.

Web source for further information: -

Policies (regarding pest management)	Yes	No
Do you have policies encouraging organic or low-pesticide use production		
Is IPM specifically mentioned in laws or policy documents?	X	
Do you have official Good Agricultural Practice (GAP) or any other relevant		X
food safety (ecofood, etc.) standards for pest management?		
Is pest management extension separate from general extension?	X	
Other policies: (subsidies, production inputs, etc.)		•
Web source for further information: –		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Policy development	MOA/Directorates of Plant Protection/AAQ
Pest management research	MOA/Directorates of Plant Protection
Control recommendations	
Pest management extension	MOA/Directorates of Plant Protection
IPM training	MOA/Directorates of Plant Protection
GAP training	

Infrastructure	Year: 2006
Number of technical officers for pest management	
Number of central, regional, provincial or state offices	
Number of district and village level field offices	
Number of field/extension agents for pest management advice	
Number of field/extension agents trained in IPM-FFS facilitation	
Number of government biocontrol production/distribution facilities	
Number of government biopesticide production/distribution facilities	
Number of general extension staff involved in pest management	
Number of designated plant protection technical officers for extension	

Key Situation and Operation Indicators

Pest Management	Yes	No
Does the country have a National IPM Programme?	X	
If yes, give Name and Address of IPM Programme:		
Does the country have specific IPM extension programmes?	X	
If yes, in which crops?: Estates Crops		
Does the country have specific IPM research programmes?		
If yes, in which crops?:		
Does the country have specific GAP extension programmes?		
If yes, in which crops?:		
Does the country have specific GAP research programmes?		
If yes, in which crops?:		

Market shares (estimated value, volume or area under control)	Year:
Size of chemical pest control market	
Size of biopesticides market	
Size of biological control agents market	

Major pest control requiring crops (requiring most pesticide applications)	1 st	2 nd	3 rd
Affected crop	Cacao	Tea	
Name(s) of pest(s)	Cacao Pod Borer	Helopeltis	
Estimated crop loss			
Affected area			
Number of pesticide applications or			
amount of pesticide used			
Government action taken			

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up pr	ogrammes	Amount	Years (start-end)

Pest Management Extension	Year: 2005
Number of farmers trained in IPM during the year	1 048 564
Number of IPM-FFS conducted during the year	
Number of farmers trained in GAP standards during the year	
Area under IPM/low pesticide management [ha]	
Area under organic/pesticide-free management [ha]	
Crops in which IPM or other ecology friendly programmes are success	sfully implemented:
Crops grown organic/pesticide-free:	

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

V. PESTICIDE MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules

- 1973 Pesticide Regulation No. 7.
- Joint Decree of the Minister of Health and Minister of Agriculture No. 881/MENKES/ SKB/8/1996 on Pesticides Maximum Residues No. 711/Kpts/TP.270/8/1996.
- 2001 Ministry of Agriculture Decree No. 434.1/Kpts/TP.270/7/2001: Pesticide Registration.
- 2002 Ministry of Agriculture Decree No. 517/Kpts/TP.290/9/2002 Supervision of storage, use and the distribution of pesticides.

Web source for further information: –

Policies (regarding pesticide management)	Yes	No
Do you have national pesticide reduction targets?	X	
If yes, what is the target:		
Have you ratified the Rotterdam (PIC) Convention?		X
Have you ratified the Stockholm (POP) Convention?		X
Have your ratified the Basel Convention? (hazardous wastes)	X	
Have your ratified the Montreal Protocol? (MeBr phasing-out)	X	
Have you reported the observance of the Code of Conduct to FAO according to Art. 12 of the Code?		
Have you adopted Good Laboratory Practices (GLP)?	X	
Pesticide Registration		
Do you require pesticides to conform to relevant FAO or WHO specifications?	X	
Do you allow the "me-too" registration and sale of generic pesticides?		
Do you require data on product equivalence for generic registration?		
Do you conduct country-specific risk assessments for		
occupational risks?		
consumer risks?		
environmental risks?		
Have you adopted the Global Harmonized System (GHS) for pesticides hazards evaluation and labelling?		
Do you accept evaluation results from other countries?		
Do you accept field studies conducted in other countries?		
Do you require environmental fate studies?		
Incentives/Disincentives		
Do you have a special tax on pesticides to cover externality costs?		
Do you subsidize or provide low-cost pesticides?		
Do you subsidize or provide low-cost biopesticides?		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Legislation	Pesticides Committee
Registration	MOA/Centre of Investment & Permit/Pesticide Registration
Licensing of shops	Pesticides Committee
Licensing of field applicators	Pesticides Committee
Enforcement/inspections	DG of Crops, DG of Horticulture, DG of Estate DG/Ministry of Environment
Testing of pesticide efficacy	Centre for Plant Quarantine/DG of Crops, DG of Horticulture, DG of Estate DG
Development of pesticide use recommendations	
Safe use training/extension	
Food residue monitoring	Ministry of Health/DG of Crops, DG of Horticulture
Environmental monitoring	DG of Crops, DG of Horticulture, DG of Estate DG/Ministry of Environment
Health monitoring	Ministry of Health
Other Stakeholders:	
Pesticide Industry Association	
Civil Society Organizations (NGO, etc.)	

Infrastructure	Year: 2006
Number of registration officers	8
Number of enforcement officers	3 000
Number of department quality control laboratories	5
Number of quality control laboratory personnel	≥12
Number of department residue analysis laboratories	5
Number of residue laboratory personnel	≥10

Key Situation Indicators

Pesticide Trade: 2004	Tons	\$ '000 Value
Imports	50 305	
Manufacture		
Export	48 759	
Domestic Use/Sales		
Pesticide Use Profile: 2004	Tons (a.i./formulation to be specified)	\$ '000 Value
Agriculture		
Chem. Insecticides		
Chem. Fungicides		
Chem. Herbicides		
Chem. Others: e.g. molluscicide, acaricide		
Other		
e.g. Avamectrin, Bt, Neem		
Other purposes		
TOTAL		

Post Registration Monitoring

Testing, Quality Control and Effects in the Field		No
Do you have significant problems with low-quality pesticides in the market?	X	
Do you have significant problems with pesticide resistance?		
Do you have a list of pesticides under close observation for problems		
Source for more information: –		

Health and Environmental Information	Yes	No
Do you maintain data on pesticide poisoning cases?	X	
Do you have a system to monitor pesticide residues in food?	X	
Do you have a system to monitor pesticide residues in the environment?	X	
Do you have significant problems of environmental contamination from pesticides?		X
Do you have data on pesticides effects on wildlife and ecosystems?		X
Source for more information: –		

Pesticide Disposal	Yes	No
Do you have system to collect and safely dispose of used containers and small quantities of left-over pesticides?	X	
Do you have an inventory of outdated and obsolete pesticides in the country?	X	
(e.g. banned and no longer traded, but still in storage)		
Do you have illegal trade in pesticides?	X	
if yes: what is the estimated amount:		
Source for more information: –		

Key Operation Indicators

Registration/Regulation/Monitoring	Yea	r: 2006
Registration/Regulation/Monitoring	a.i.*	Trade Name
Number of registered pesticide products		1 158
Number of registered biopesticides (Avamectrin, Bt, Neem, etc.)	8	>25
Number of restricted-use pesticides/formulations	4	
Number of banned pesticides	36	
Number of licensed outlets		
Number of licensed field applicators (professional and/or farmers)		
Number of licensing violations reported during year		
Number of quality control analyses conducted during year		
Number of food samples analyzed for pesticide residues during year		
Number of samples exceeding MRL		
Number of environmental samples analyzed for pesticide residues		

^{*} active ingredient

Pesticides Restricted in Recent Years		
Year	Name of active ingredient or hazardous formulation	

Pesticides Ban	ned in Recent Years
Year	Name of active ingredient

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up programmes		Amount	Years (start-end)

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

VI. ADDITIONAL ISSUES OF INTEREST

Last updated: December 2006

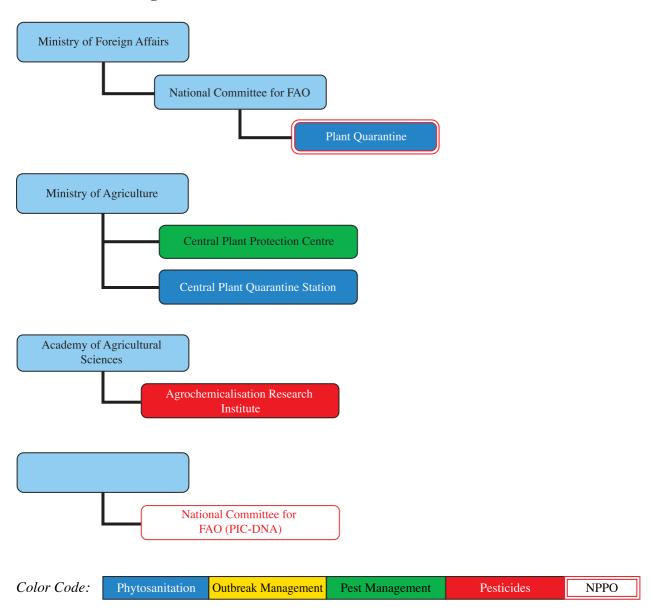
Genetically Modified Crops	
Name of GMO Crop	Area under Cultivation [ha]
Cotton	>550 ha

3.6 KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF (KOREA DPR)

I. GENERAL INFORMATION

Last updated: December 2006

Plant Protection Organization Chart



Important Contact Addresses

Responsible Ministry/Ministries

Ministry of Agriculture

Mr Kim Kyong Il, Officer

Jungsong-dong, Central District

Pyongyang City, Korea, DPRK

Operational Offices:

Plant Protection

Central Plant Protection Centre

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Pesticide Registration

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Official International Contact Points

National Plant Protection Organization (NPPO) Contact Point (for IPPC/APPPC)

National Committee for FAO

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Central Plant Protection Centre (country report)

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Source: Country Report

WTO-SPS Contact Point

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Rotterdam Convention (PIC) DNA Industrial Chemicals and Pesticides (CP)

National Committee for FAO

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Selected Country Statistics:

Agricultural Population	6.4 million	Agricultural Land	2.7 million ha
GDP \$ million	Agric. GDP: %	GNI per capita: \$	Undernourishment: %
Main crops grown:			

GDP = Gross Domestic Product; GNI = Gross National Income; Hunger = Population below minimum energy requirement

II. PLANT QUARANTINE

Last updated: December 2006

List of Key Legislation/Regulations/Rules

"Legislations of the Border Animal and Plant Quarantine" by the decision of Standing Committee of the Supreme People's Assembly, DPRK, No. 89 16 July 1997.

"Regulations of the Border Animal and Plant Quarantine" by the Cabinet of DPRK, 14 February 1998.

"Minor Regulations of the Border Animal and Plant Quarantine" by the MOA.

Web source for further information: -

Policies (regarding plant quarantine)		
Does phytosanitary legislation cover domestic quarantine?		X
Does phytosanitary legislation cover import quarantine?	X	
Does phytosanitary legislation cover export quarantine?	X	
Does phytosanitary legislation cover living modified organisms?		X
Is plant quarantine a separate organization from animal quarantine?	Х	
Other policy initiatives (under review/progress)		
Web source for further information: –		

Organization of Plant Quarantine Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Pest Risk Analysis	No knowledge on PRA
National standards development	Ministry of Agriculture/CPPC
International notifications	Central Plant Protection Centre (CPPC)
Import:	
Import permits	Central Plant Quarantine Service (CPQS)
Import inspections	National Quality Inspection Service
Emergency action	MOA/CPPC
Export:	
Phytosanitary certificates	CPQS
Treatment of commodities	National Quality Inspection Service

Infrastructure	Year:
Number of plant quarantine officers authorized to inspect/certify	53
Total qualified personnel for plant pest risk analysis	
Number of quarantine offices	27
entry points (sea/air/land/mail = total)	7/1/16/1 = 25
post-entry plant quarantine containment facilities	2
other offices	
Number of quarantine service diagnosis laboratories	7
In-country recognized pest diagnostics capabilities	5
(incl. universities, etc.)	
Number of laboratories for insect/mite (arthropod) samples	7
Number of laboratories for bacteria samples	5
Number of laboratories for virus samples	1
Number of laboratories for fungus samples	5

Number of laboratories for mycoplasma samples	1
Number of laboratories for nematode samples	3
Number of laboratories for plant/weed samples	7
Number of laboratories for other pests (snail, slug, rodents, etc.)	7

Pest-Free Areas Responsible Organ According to ISPM 10 (Ministry/Depart		
Overall management		
– surveillance		
management		
certification		
List of target pest species and crops I	SPM 4	Number of sites in [year]
List of target pest species and crops I	SPM 10	Number of sites in [year]

Key Situation Indicators

International Trade		Year:
Main Import Plant Commodities	Main countries/areas of origin	Quantity (tons)
Rice	China/Thailand	
Maize	China/Thailand	
Wheat	China/Thailand	
Main Export Plant Commodities	Main destination countries	
Bean	China	

Cooperation Projects			
Title (Purpose/Target)	Donor	Amount	Years (start-end)
Title of government follow-up programmes		Amount	Years (start-end)

Key Operation Indicators

Institutional Functions	Year:
Number of import permits issued	
Number of import inspections carried out	
Number of emergency phytosanitary treatments taken on imports	
Number notifications of non-compliance	
Number of conventional phytosanitary certificates issued	
Number of electronic phytosanitary certificates issued	

Number of quarantine pests inter	Year:	
Top three commodities	Top three pest/commodity	# of interceptions

Lists of Regulated Pests	Year of last update	Insects	Pathogens	Plants
Number of quarantine pests	1998	79	63	32
Number of regulated non-quarantine pests				
Number of regulated import articles				
Web source for further information: –				

Pest Risk Analysis	Insects	Pathogens	Plants
No. of PRA completed and documented (according to ISPM)	0	0	0
Web source for further information: –			

Progress and Constraints
Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

Implementation of ISPM	Relevance Implementation		on	Planned/Actual Year of full				
International Measures	low	medium	high	none	partial	most	full	implementation
ISPM 01 Principles of plant quarantine as related to international trade								
ISPM 02 Guidelines for pest risk analysis								
ISPM 03 Code of conduct for the import and release of exotic biological control agents								
ISPM 04 Requirements for the establishment of pest free areas								
ISPM 05 Glossary of phytosanitary terms								
ISPM 06 Guidelines for surveillance								
ISPM 07 Export certification system								
ISPM 08 Determination of pest status in an area								
ISPM 09 Guidelines for pest eradication programmes								
ISPM 10 Requirements for the establishment of pest free places of production and pest free production sites								
ISPM 11 Pest risk analysis for quarantine pests								
ISPM 12 Guidelines for phytosanitary certificates								
ISPM 13 Guidelines for the notification of noncompliance and emergency action								
ISPM 14 The use of integrated measures in a systems approach for pest risk management								
ISPM 15 Guidelines for regulating wood packaging material in international trade								
ISPM 16 Regulated non-quarantine pests: concept and application								
ISPM 17 Pest reporting								
ISPM 18 Guidelines for the use of irradiation as a phytosanitary measure								
ISPM 19 Guidelines on lists of regulated pests								
ISPM 20 Guidelines for a phytosanitary import regulatory system								
ISPM 21 Pest risk analysis for regulated non-quarantine pests								
ISPM 22 Requirements for the establishment of areas of low pest prevalence								
ISPM 23 Guidelines for inspection								
ISPM 24 Guidelines for the determination and recognition of equivalence of phytosanitary measures								
ISPM 25 Consignments in transit								
ISPM 26 Establishment of pest free areas for fruit flies (Tephritidae)								
ISPM 27 Diagnostic protocols for regulated pests								
Comments/Constraints								

III. SURVEILLANCE, PEST OUTBREAKS AND INVASIVE SPECIES MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Surveillance, Pest Reporting and Emergency Actions

Regulations of Crop Protection, February 21, 2005 Minor for Crop Protection, August 16, 2005

Web source for further information: -

Policies (regarding invasive/migratory species management)	Yes	No
National strategy to control serious field pest outbreaks?	X	
National strategy to control migratory or periodically occurring pests?	X	
National strategy to eradicate serious newly invaded exotic pests?	X	
Other policies: (e.g. subsidies, etc.)		
Web source for further information:		

Organization of Outbreak Management Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Field/Storage Pest Outbreaks	(e.g. BPH, bollworm, etc.)
Response strategy/plans	MOA/CPPC
Surveillance	Cooperation farm, county, Province and CPPC
Control	Cooperation farm
Migratory Pest Outbreaks	(e.g. locusts, birds, armyworm)
Response strategy/plans	MOA/CPPC
Surveillance	Cooperation farm, county, Province and CPPC
Control	Cooperation farm
New Exotic Pest Eradication	(e.g. coconut beetle)
Response strategy/plans	MOA/CPPC
Surveillance	CPQS/National Quality Inspection Service
Control/eradication	National Quality Inspection Service
Reporting to bilateral or international organizations	CPPC

Infrastructure	Year:
Number of designated staff for surveillance of field pests of national	300
importance	
Number of designated staff for surveillance of migratory and	300
periodically occurring pests	
Number of designated staff for surveillance of invasive species	300
Number of designated staff for control of field pests of national	500
importance	
Number of designated staff for control of migratory and periodically	500
occurring pests	
Number of designated staff for eradication of invasive species	500

Key Situation and Operation Indicators

(Outbreaks and invasions in the past 2 years)

New exotic species found established in country	Insects	Pathogens	Weeds
Total number for year:		3	
Total number for year:	5		2
Total number on record	5	3	2

Eradication or internal quarantine actions taken against economically important species				
Nama of anadias	Dryocosmus	Trialeurodes	Lissorhoptrus	
Name of species	Kuriphilus	vaporariorum	oryzophilus	
Year of first discovery	1964	1970	1982	
Passway	Europe	Europe	Japan	
Location of first discovery				
Area affected [ha]				
Area treated [ha]				
Control method	Pesticide	Pesticide	Pesticide	
Expenditures				

Pest outbreak actions	Outbreak 1	Outbreak 2	Outbreak 3
Name of species	Rice water weevil	Armyworm	
Year of outbreak	2004	2004	
Area affected [ha]	207 741	107 444	
Estimated damage \$	10-13%	5-6%	
Area treated by government [ha]	143 805	87 194	
Expenditures by government [\$]			
Control method	Deltamethrin	Deltamethrin, Bt	
More information			

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

IV. PEST MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Pest Management

Regulations of Crop Protection, February 21, 2005 Minor for Crop Protection, August 16, 2005

Web source for further information: –

Policies (regarding pest management)		No
Do you have policies encouraging organic or low-pesticide use production	X	
Is IPM specifically mentioned in laws or policy documents?		X
Do you have official Good Agricultural Practice (GAP) or any other relevant		
food safety (ecofood, etc.) standards for pest management?		
Is pest management extension separate from general extension?		
Other policies: (subsidies, production inputs, etc.)		
Web source for further information:		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Policy development	MOA
Pest management research	Academic of Agriculture Science (AAS)/CPPC
Control recommendations	CPPC/MOA
Pest management extension	CPPC/AAS
IPM training IPM	CPPC
GAP training GAP	

Infrastructure	Year:
Number of technical officers for pest management	500
Number of central, regional, provincial or state offices	10
Number of district and village level field offices	200
Number of field/extension agents for pest management advice	2000
Number of field/extension agents trained in IPM-FFS facilitation	150
Number of government biocontrol production/distribution facilities	200
Number of government biopesticide production/distribution facilities	180
Number of general extension staff involved in pest management	2000
Number of designated plant protection technical officers for extension	2000

Key Situation and Operation Indicators

Pest Management	Yes	No
Does the country have a National IPM Programme?		X
If yes, give Name and Address of IPM Programme:		
Does the country have specific IPM extension programmes?		
If yes, in which crops?:		
Does the country have specific IPM research programmes?	Rice, Maize	
If yes, in which crops?:	Vegetables	
Does the country have specific GAP extension programmes? GAP	All crops	
If yes, in which crops?:		
Does the country have specific GAP research programmes?	All crops	
If yes, in which crops?:		

Market shares (estimated value, volume or area under control)	Year:
Size of chemical pest control market	
Size of biopesticides market	14-16 million ha
Size of biological control agents market	

Major pest control requiring crops (requiring most pesticide applications)	1 st	2 nd	3 rd
Affected crop	rice	maize	vegetables
Name(s) of pest(s)			
Estimated crop loss			
Affected area			
Number of pesticide applications or amount			
of pesticide used			
Government action taken			

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up programmes		Amount	Years (start-end)

Pest Management Extension	Year:
Number of farmers trained in IPM during the year	
Number of IPM-FFS conducted during the year	
Number of farmers trained in GAP standards during the year	
Area under IPM/low pesticide management [ha]	
Area under organic/pesticide-free management [ha]	
Crops in which IPM or other ecology friendly programmes are successfully implemented:	
Crops grown organic/pesticide-free:	

Progress and Constraints

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Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

V. PESTICIDE MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules

1986: Law of the DPRK on the Protection of Environment.

1992: Administration Council Directive No. 78 (May 12, 1992): Regulations on Pesticide Control.

Others: 1. Law of the DPRK on the Pesticide Management

- 2. Pesticide Management Regulation of the DPRK
- 3. Detailed Regulations for Enforcement of the Pesticide Management Regulation
- 4. Law of the DPRK on Agriculture
- 5. Law of the DPRK on the Public Health
- 6. Law of the DPRK on the Quality Control
- 7. Law of the DPRK on River
- 8. Law of the DPRK on Pomiculture
- 9. Law of the DPRK on Fish Breeding
- 10. Law of the DPRK on the Conservation of Biodiversity.

Web source for further information: -

Policies (regarding pesticide management)	Yes	No
Do you have national pesticide reduction targets?		
If yes, what is the target:		
Have you ratified the Rotterdam (PIC) Convention?	X	
Have you ratified the Stockholm (POP) Convention?	X	
Have your ratified the Basel Convention? (hazardous wastes)		X
Have your ratified the Montreal Protocol? (MeBr phasing-out)	X	
Have you reported the observance of the Code of Conduct to FAO according to Art. 12 of the Code?		
Have you adopted Good Laboratory Practices (GLP)?		
Pesticide Registration		
Do you require pesticides to conform to relevant FAO or WHO specifications?		
Do you allow the "me-too" registration and sale of generic pesticides?		
Do you require data on product equivalence for generic registration?		
Do you conduct country-specific risk assessments for		
occupational risks?		
consumer risks?		
environmental risks?		
Have you adopted the Global Harmonized System (GHS) for pesticides hazards evaluation and labelling?		
Do you accept evaluation results from other countries?		
Do you accept field studies conducted in other countries?		
Do you require environmental fate studies?		
Incentives/Disincentives		
Do you have a special tax on pesticides to cover externality costs?		
Do you subsidize or provide low-cost pesticides?		
Do you subsidize or provide low-cost biopesticides?		
Other policies:		
Web source for further information:		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Legislation	Cabinet/MOA
Registration	MOA
Licensing of shops	
Licensing of field applicators	
Enforcement/inspections	MOA/CPPC
Testing of pesticide efficacy	AAS/CPPC
Development of pesticide use	CPPC/MOA
recommendations	
Safe use training/extension	AAS/MOA/CPPC
Food residue monitoring	
Environmental monitoring	
Health monitoring	Ministry of Health
Other Stakeholders:	
Pesticide Industry Association	
Civil Society Organizations	
(NGO, etc.)	

Infrastructure	Year:
Number of registration officers	
Number of enforcement officers	
Number of department quality control laboratories	
Number of quality control laboratory personnel	
Number of department residue analysis laboratories	
Number of residue laboratory personnel	

Key Situation Indicators

Pesticide Trade:	Tons	\$ '000 Value
Imports		
Manufacture		
Export		
Domestic Use/Sales		
Pesticide Use Profile:	Tons (a.i./formulation to be specified)	\$ '000 Value
Agriculture		
Chem. Insecticides		
Chem. Fungicides		
Chem. Herbicides		
Chem. Others:		
e.g. molluscicide, acaricide		
Other		
e.g. Avamectrin, Bt, Neem		
Other purposes		
TOTAL		

Post Registration Monitoring

Testing, Quality Control and Effects in the Field		No
Do you have significant problems with low-quality pesticides in the market?	X	
Do you have significant problems with pesticide resistance?	X	
Do you have a list of pesticides under close observation for problems	X	
Source for more information: –		

Health and Environmental Information		No
Do you maintain data on pesticide poisoning cases?	X	
Do you have a system to monitor pesticide residues in food?	X	
Do you have a system to monitor pesticide residues in the environment?	X	
Do you have significant problems of environmental contamination from pesticides?	X	
Do you have data on pesticides effects on wildlife and ecosystems?	Х	
Source for more information: –	•	

Pesticide Disposal	Yes	No
Do you have system to collect and safely dispose of used containers and small		
quantities of left-over pesticides?		
Do you have an inventory of outdated and obsolete pesticides in the country?	X	
(e.g. banned and no longer traded, but still in storage)		
Do you have illegal trade in pesticides?		X
if yes: what is the estimated amount:		
Source for more information: –		

Key Operation Indicators

Registration/Regulation/Monitoring	Year:		
Registration/Regulation/Monitoring	a.i.*	Trade Name	
Number of registered pesticide products			
Number of registered biopesticides (Avamectrin, Bt, Neem, etc.)			
Number of restricted-use pesticides/formulations			
Number of banned pesticides			
Number of licensed outlets			
Number of licensed field applicators (professional and/or farmers)			
Number of licensing violations reported during year			
Number of quality control analyses conducted during year			
Number of food samples analyzed for pesticide residues during year			
Number of samples exceeding MRL			
Number of environmental samples analyzed for pesticide residues			

^{*} active ingredient

Pesticides Restricted in Recent Years		
Year Name of active ingredient or hazardous formulation		

Pesticides Banned in Recent Years			
Year	Name of active ingredient		

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up pr	ogrammes	Amount	Years (start-end)

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)		
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)		

VI. ADDITIONAL ISSUES OF INTEREST

Last updated: December 2006

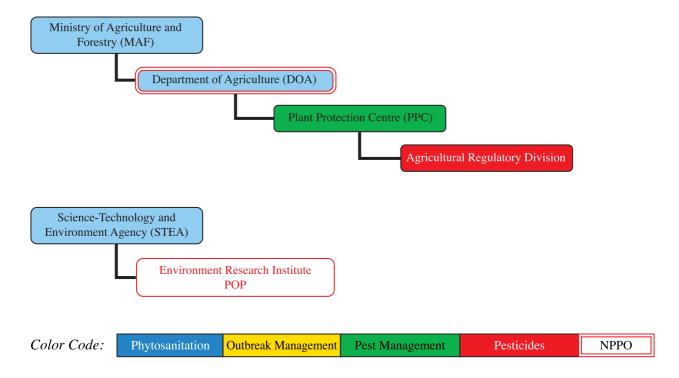
Genetically Modified Crops				
Name of GMO Crop	Area under Cultivation [ha]			

3.7 LAO PEOPLE'S DEMOCRATIC REPUBLIC

I. GENERAL INFORMATION

Last updated: December 2006

Plant Protection Organization Chart



Important Contact Addresses

Responsible Ministry/Ministries

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Responsible Department

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Mr Viravanh Phannourath, Director General

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Address for nominations

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Operational Offices:

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Pesticide Registration

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WTO-SPS Contact Point

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Stockholm Convention (POP) National Focal Point

Environment Research Institute (ERI)

Mrs Monemany Nhoybouakong, Acting Director General

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Basel Convention Competent Authority (CA)

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Montreal Protocol Focal Point

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Selected Country Statistics

Agricultural Population	4.5 million	Agricultural Land	1.0 million ha	
GDP \$2 321 million	Agric. GDP: 45.4%	GNI per capita: \$500	Undernourishment: 22%	
Main crops grown: rice, maize, coarse grain, tube, vegetables, tea, coffee, tropical fruit trees.				

GDP = Gross Domestic Product; GNI = Gross National Income; Hunger = Population below minimum energy requirement

II. PLANT QUARANTINE

Last updated: December 2006

List of Key Legislation/Regulations/Rules

Prime Minister Decree on Plant Quarantine No. 66/PM, dated 21 March 1993 Ministerial Agreement on Plant Quarantine Regulation No. 0369/MAF, dated 2 July 1993 Ministerial Notice on Role and Function and Standard for entry/exit Plant Quarantine Station No. 0754/MAF.DoA.06, dated 14 July 2006.

(in preparation) Law on Plant Protection and Quarantine

Web source for further information: –

Policies (regarding plant quarantine)	Yes	No
Does phytosanitary legislation cover domestic quarantine?	X	
Does phytosanitary legislation cover import quarantine?	X	
Does phytosanitary legislation cover export quarantine?	X	
Does phytosanitary legislation cover living modified organisms?		X
Is plant quarantine a separate organization from animal quarantine?	X	
Other policy initiatives (under review/progress)		
Web source for further information: –		

Organization of Plant Quarantine Functions	Responsible Organizational Unit (Ministry/Department/Unit)
	(Willisti y/Department/Onit)
Pest Risk Analysis	
National standards development	
International notifications	
Import:	
Import permits	MAF/DOA/PPC/Agric. Regulatory Division
Import inspections	
Emergency action	
Export:	
Phytosanitary certificates	MAF/DOA/PPC/Agric. Regulatory Division
Treatment of commodities	

Infrastructure	Year: 2006
Number of plant quarantine officers authorized to inspect/certify	27
Total qualified personnel for plant pest risk analysis	
Number of quarantine offices	
entry points (sea/air/land/mail = total)	9
post-entry plant quarantine containment facilities	
other offices	
Number of quarantine service diagnosis laboratories	
In-country recognized pest diagnostics capabilities (incl. universities, etc.)	
Number of laboratories for insect/mite (arthropod) samples	
Number of laboratories for bacteria samples	
Number of laboratories for virus samples	
Number of laboratories for fungus samples	
Number of laboratories for mycoplasma samples	
Number of laboratories for nematode samples	
Number of laboratories for plant/weed samples	
Number of laboratories for other pests (snail, slug, rodents, etc.)	

Pest-Free Areas According to ISPM 10	Responsible Organizational Unit (Ministry/Department/Unit)		
Overall management			
– surveillance			
management			
certification			
List of target pest species and crops I	SPM 4	Number of sites in [year]	
List of target pest species and crops I	SPM 10	Number of sites in [year]	

Key Situation Indicators

International Trade		Year:
Main Import Plant Commodities	Main countries/areas of origin	Quantity (tons)
Seed and planting material	Viet Nam, China, Thailand, India, UK, Australia	
Main Export Plant Commodities	Main destination countries	
Vegetables, coffee, tea, rice, maize, soybean, mungbean	EU, America, Japan, China, Viet Nam, Thailand	

Cooperation Projects			
Title (Purpose/Target)	Donor	Amount	Years (start-end)
Phytosanitary Capacity Development in CLMV countries	NZAID	Unknown	2000-2001
SPS Capacity Building Programme	AusAID	Unknown	2005-present
ASEAN Plant Health Capacity Project	AusAID	Unknowm	2005-present
Title of government follow-up programme	S	Amount	Years (start-end)

Key Operation Indicators

Institutional Functions	Year: 2005
Number of import permits issued	
Number of import inspections carried out	
Number of emergency phytosanitary treatments taken on imports	
Number notifications of non-compliance	
Number of conventional phytosanitary certificates issued	2001
Number of electronic phytosanitary certificates issued	

Number of quarantine pests intercepted		Year:
Top three commodities	Top three pest/commodity	# of interceptions

Lists of Regulated Pests	Year of last update	Insects	Pathogens	Plants
Number of quarantine pests				
Number of regulated non-quarantine pests				
Number of regulated import articles				
Web source for further information: –				

	Pathogens	isk Analysis
		PRA completed and documented (according to ISPM)
		ource for further information: –
_		1

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

One in-country training on plant quarantine inspection (16 staffs have been trained basic level)

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

Lack of personel, no infrastructure, no operational budget, not enough training

Implementation of ISPM	R	televan	nce Implementation			Planned/Actual		
International Measures	low	medium	high	none	partial	most	full	Year of full implementation
ISPM 01 Principles of plant quarantine as related to international trade	X			х				
ISPM 02 Guidelines for pest risk analysis	х			х				
ISPM 03 Code of conduct for the import and release of exotic biological control agents		х			Х			
ISPM 04 Requirements for the establishment of pest free areas	Х			х				
ISPM 05 Glossary of phytosanitary terms		Х			Х			
ISPM 06 Guidelines for surveillance	Х			Х				
ISPM 07 Export certification system			X			X		
ISPM 08 Determination of pest status in an area	Х			Х				
ISPM 09 Guidelines for pest eradication programmes	Х			Х				
ISPM 10 Requirements for the establishment of pest free places of production and pest free production sites	Х			х				
ISPM 11 Pest risk analysis for quarantine pests		X		X				
ISPM 12 Guidelines for phytosanitary certificates			X	х				
ISPM 13 Guidelines for the notification of noncompliance and emergency action	х			х				
ISPM 14 The use of integrated measures in a systems approach for pest risk management	х			х				
ISPM 15 Guidelines for regulating wood packaging material in international trade			Х				Х	
ISPM 16 Regulated non-quarantine pests: concept and application	Х			х				
ISPM 17 Pest reporting	х			х				
ISPM 18 Guidelines for the use of irradiation as a phytosanitary measure	Х			х				
ISPM 19 Guidelines on lists of regulated pests	Х			Х				
ISPM 20 Guidelines for a phytosanitary import regulatory system	X			х				
ISPM 21 Pest risk analysis for regulated non-quarantine pests	Х			х				
ISPM 22 Requirements for the establishment of areas of low pest prevalence	X			х				
ISPM 23 Guidelines for inspection	Х			Х				
ISPM 24 Guidelines for the determination and recognition of equivalence of phytosanitary measures	Х			Х				
ISPM 25 Consignments in transit	Х			Х				
ISPM 26 Establishment of pest free areas for fruit flies (Tephritidae)	Х			Х				
ISPM 27 Diagnostic protocols for regulated pests	X			X				

Comments/Constraints

III. SURVEILLANCE, PEST OUTBREAKS AND INVASIVE SPECIES MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Surveillance, Pest Reporting and Emergency Actions

Web source for further information: –

Policies (regarding invasive/migratory species management)	Yes	No
National strategy to control serious field pest outbreaks?		X
National strategy to control migratory or periodically occurring pests?		X
National strategy to eradicate serious newly invaded exotic pests?		X
Other policies: (e.g. subsidies, etc.)		
Web source for further information:		

Organization of Outbreak Management Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Field/Storage Pest Outbreaks	(e.g. BPH, bollworm, etc.)
Response strategy/plans	MAF/DOA/PPC
Surveillance	MAF/DOA/PPC
Control	MAF/DOA/PPC
Migratory Pest Outbreaks	(e.g. locusts, birds, armyworm)
Response strategy/plans	
Surveillance	
Control	
New Exotic Pest Eradication	(e.g. coconut beetle)
Response strategy/plans	MAF/DOA/PPC
Surveillance	MAF/DOA/PPC
Control/eradication	MAF/DOA/PPC
Reporting to bilateral or international organizations	MAF/DOA

Infrastructure	Year: 2006
Number of designated staff for surveillance of field pests of national	0
importance	
Number of designated staff for surveillance of migratory and	0
periodically occurring pests	
Number of designated staff for surveillance of invasive species	0
Number of designated staff for control of field pests of national	
importance	
Number of designated staff for control of migratory and periodically	
occurring pests	
Number of designated staff for eradication of invasive species	

Key Situation and Operation Indicators

(Outbreaks and invasions in the past 2 years)

New exotic species found established in country	Insects	Pathogens	Weeds
Total number for year:			
Total number for year:			
Total number on record			

Eradication or internal quarantine actions taken against economically important species			
Name of species	Brontispa longissima		
Year of first discovery	2002		
Passway			
Location of first discovery			
Area affected [ha]			
Area treated [ha]			
Control method			
Expenditures			

Pest outbreak actions	Outbreak 1	Outbreak 2	Outbreak 3
Name of species	Coffee berry borer		
Year of outbreak			
Area affected [ha]	25 000		
Estimated damage \$			
Area treated by government [ha]			
Expenditures by government [\$]			
Control method	parasitoids		
More information			

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

Lack of personnel, no infrastructure, no operational budget, not enough training

IV. PEST MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Pest Management

(in preparation) Regulation on Organic Farming Standard

Web source for further information: –

Policies (regarding pest management)	Yes	No
Do you have policies encouraging organic or low-pesticide use production	X	
Is IPM specifically mentioned in laws or policy documents?	X	
Do you have official Good Agricultural Practice (GAP) or any other relevant	X	
food safety (ecofood, etc.) standards for pest management?		
Is pest management extension separate from general extension?	X	
Other policies: (subsidies, production inputs, etc.)		
Web source for further information:		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Policy development	
Pest management research	
Control recommendations	MAF/DOA/PPC
Pest management extension	MAF/DOA/PPC
IPM training	
GAP training	

Infrastructure	Year: 2006
Number of technical officers for pest management	
Number of central, regional, provincial or state offices	
Number of district and village level field offices	
Number of field/extension agents for pest management advice	
Number of field/extension agents trained in IPM-FFS facilitation	106
Number of government biocontrol production/distribution facilities	1
Number of government biopesticide production/distribution facilities	1
Number of general extension staff involved in pest management	
Number of designated plant protection technical officers for extension	

Key Situation and Operation Indicators

Pest Management	Yes	No
Does the country have a National IPM Programme?	X	
If yes, give Name and Address of IPM Programme:		
PPC		
Does the country have specific IPM extension programmes?	X	
If yes, in which crops?: Vegetables		
Does the country have specific IPM research programmes?		X
If yes, in which crops?:		
Does the country have specific GAP extension programmes?		
If yes, in which crops?:		
Does the country have specific GAP research programmes?		
If yes, in which crops?:		

Market shares (estimated value, volume or area under control)	Year:
Size of chemical pest control market	
Size of biopesticides market	
Size of biological control agents market	

Major pest control requiring crops (requiring most pesticide applications)	1 st	2 nd	3 rd
Affected crop			
Name(s) of pest(s)			
Estimated crop loss			
Affected area			
Number of pesticide applications or			
amount of pesticide used			
Government action taken			

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up pr	ogrammes	Amount	Years (start-end)

Pest Management Extension	Year: 2006
Number of farmers trained in IPM during the year	
Number of IPM-FFS conducted during the year	203
Number of farmers trained in GAP standards during the year	
Area under IPM/low pesticide management [ha]	
Area under organic/pesticide-free management [ha]	
Crops in which IPM or other ecology friendly programmes are successfully implemented:	
Head Cabbage	
Crops grown organic/pesticide-free:	
Rice	

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

Lack of personnel, no infrastructure, no operational budget, not enough training

V. PESTICIDE MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules

2000 Regulation on Management and Usage of Pesticides for Agricultural Production. Issue by Ministry of Agriculture and Forestry, No. 0886, Date: March 10, 2000

Web source for further information: –

Policies (regarding pesticide management)	Yes	No
Do you have national pesticide reduction targets?		X
If yes, what is the target:		
Have you ratified the Rotterdam (PIC) Convention?		X
Have you ratified the Stockholm (POP) Convention?	X	
Have your ratified the Basel Convention? (hazardous wastes)		X
Have your ratified the Montreal Protocol? (MeBr phasing-out)		
Have you reported the observance of the Code of Conduct to FAO according to Art. 12 of the Code?		
Have you adopted Good Laboratory Practices (GLP)?		X
Pesticide Registration		
Do you require pesticides to conform to relevant FAO or WHO specifications?		
Do you allow the "me-too" registration and sale of generic pesticides?		
Do you require data on product equivalence for generic registration?		
Do you conduct country-specific risk assessments for		
occupational risks?		
consumer risks?		
environmental risks?		
Have you adopted the Global Harmonized System (GHS) for pesticides hazards evaluation and labelling?	X	
Do you accept evaluation results from other countries?		
Do you accept field studies conducted in other countries?		
Do you require environmental fate studies?		
Incentives/Disincentives		
Do you have a special tax on pesticides to cover externality costs?		
Do you subsidize or provide low-cost pesticides?		
Do you subsidize or provide low-cost biopesticides?		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Legislation	
Registration	MAF/DOA/PPC
Licensing of shops	MAF/DOA/PPC
Licensing of field applicators	
Enforcement/inspections	MAF/DOA/PPC
Testing of pesticide efficacy	MAF/DOA/PPC
Development of pesticide use recommendations	
Safe use training/extension	MAF/DOA/PPC
Food residue monitoring	
Environmental monitoring	MAF/DOA/PPC
Health monitoring	MAF/DOA/PPC

Other Stakeholders:	
Pesticide Industry Association	
Civil Society Organizations	
(NGO, etc.)	

Infrastructure	Year:
Number of registration officers	
Number of enforcement officers	
Number of department quality control laboratories	
Number of quality control laboratory personnel	
Number of department residue analysis laboratories	
Number of residue laboratory personnel	

Key Situation Indicators

Pesticide Trade:	Tons	\$ '000 Value
Imports	<10	
Manufacture	0	
Export	0	
Domestic Use/Sales		
Pesticide Use Profile:	Tons (a.i./formulation to be specified)	\$ '000 Value
Agriculture	<10	
Chem. Insecticides		
Chem. Fungicides		
Chem. Herbicides		
Chem. Others:		
e.g. molluscicide, acaricide		
Other		
e.g. Avamectrin, Bt, Neem		
Other purposes		
TOTAL		·

Post Registration Monitoring

Testing, Quality Control and Effects in the Field	Yes	No
Do you have significant problems with low-quality pesticides in the market?		
Do you have significant problems with pesticide resistance?		X
Do you have a list of pesticides under close observation for problems		
Source for more information: –		

Health and Environmental Information	Yes	No
Do you maintain data on pesticide poisoning cases?		X
Do you have a system to monitor pesticide residues in food?		X
Do you have a system to monitor pesticide residues in the environment?		Х
Do you have significant problems of environmental contamination from pesticides?		X
Do you have data on pesticides effects on wildlife and ecosystems?		
Source for more information: –	-	

Pesticide Disposal	Yes	No
Do you have system to collect and safely dispose of used containers and small		X
quantities of left-over pesticides?		
Do you have an inventory of outdated and obsolete pesticides in the country?	X	
(e.g. banned and no longer traded, but still in storage)		
Do you have illegal trade in pesticides?		X
if yes: what is the estimated amount:		
Source for more information: –		

Key Operation Indicators

Desistration/Description/Manitoring	Year:		
Registration/Regulation/Monitoring	a.i.*	Trade Name	
Number of registered pesticide products	46	100	
Number of registered biopesticides (Avamectrin, Bt, Neem, etc.)			
Number of restricted-use pesticides/formulations			
Number of banned pesticides	26		
Number of licensed outlets			
Number of licensed field applicators (professional and/or farmers)			
Number of licensing violations reported during year			
Number of quality control analyses conducted during year			
Number of food samples analyzed for pesticide residues during year			
Number of samples exceeding MRL			
Number of environmental samples analyzed for pesticide residues			

^{*} active ingredient

Pesticides Restricted in Recent Years	
Year	Name of active ingredient or hazardous formulation

Pesticides Banned in Recent Years	
Year	Name of active ingredient

Cooperation Projects				
Purpose/Target	rpose/Target Donor		Years (start-end)	
Purpose/Target of government follow-up programmes		Amount	Years (start-end)	

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

One awareness workshop on IPM and Near-Market Pesticide Use with respect to food safety and quality (16-17 November 2006)

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

Lack of personel, no infrastructure, no operational budget, not enough training

VI. ADDITIONAL ISSUES OF INTEREST

Last updated: December 2006

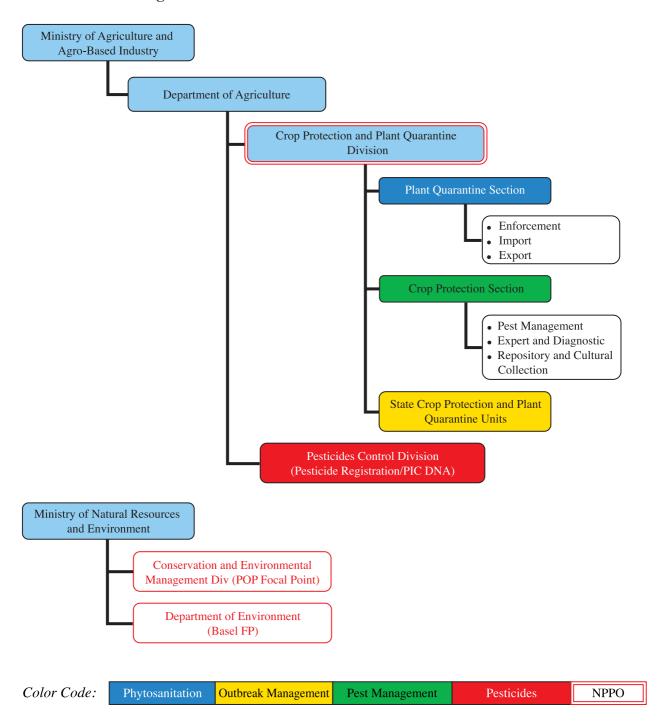
Genetically Modified Crops	
Name of GMO Crop	Area under Cultivation [ha]

3.8 MALAYSIA

I. GENERAL INFORMATION

Last updated: December 2006

Plant Protection Organization Chart



Important Contact Addresses

Responsible Ministry/Ministries

Ministry of Agriculture and Agro-Based Industry

The Secretary General

Aras 15, Wisma Tani, Lot 4, G2, Presint 4

Pusat Pentadbiran Persekutuan

62623 Putrajaya, Malaysia

Tel: (+603) 88886637 / 1014

Website: http://www.agrolink.moa.gov.my/

Responsible Department

Department of Agriculture

Dato' Sofian Mohd Salleh, Director General

Aras 17, Wisma Tani, Lot 4, G2, Presint 4

Pusat Pentadbiran Persekutuan

62623 Putrajaya, Malaysia

Tel: (+603) 8870 3001 / 88884069 Fax: (+603) 8870 3044 / 88885069

E-mail: dato_sofian@doa.gov.my

Website: http://www.doa.gov.my/main.php

Address for nominations

Department of Agriculture

Dato' Sofian Mohd Salleh, Director General

Aras 17, Wisma Tani, Lot 4, G2, Presint 4

Pusat Pentadbiran Persekutuan

62623 Putrajaya, Malaysia

Tel: (+603) 8870 3001 / 88884069 Fax: (+603) 8870 3044 / 88885069 E-mail: dato_sofian@doa.gov.my

Website: http://www.doa.gov.my/main.php

Operational Offices:

Plant Protection

Plant Quarantine

Surveillance, Pest Outbreaks and Invasive Species Management

Crop Protection and Plant Quarantine Division

Director

Department of Agriculture

Jalan Gallagher

50632 Kuala Lumpur, Malaysia

Tel: (+603) 26972077 Fax: (+603) 26977125

Website: http://www.doa.gov.my/pqnet

Pesticide Registration

Pesticides Board

Secretary

Pesticides Control Division
Department of Agriculture

Jalan Gallagher

50632 Kuala Lumpur, Malaysia

Tel: (+603) 2 697 7260 Fax: (+603) 2 697 7225 E-mail: halimi@doa.gov.my

Official International Contact Points

National Plant Protection Organization (NPPO) Contact Point (for IPPC/APPPC)

Crop Protection and Plant Quarantine Division Ms Wan Normah Wan Ismail, Deputy Director

Department of Agriculture

Jalan Gallagher

50632 Kuala Lumpur, Malaysia Tel: (+603) 2 697 3077 / 2 697 7160 Fax: (+603) 2 697 7164 / 2 697 7205

E-mail: wanis@doa.gov.my; wann54@yahoo.com

Website: http://www.agrolink.moa.gov.my

WTO-SPS Contact Point

Strategic Planning and International Division

Mr Foo Tew Nam, Principal Assistant Secretary

Ministry of Agriculture and Agro-Based Industry

Aras 13, Wisma Tani, Lot 4, G2, Presint 4

Pusat Pentadbiran Persekutuan

62623 Putrajaya, Malaysia

Tel: (+603) 8870 1212 Fax: (+603) 8888 1241 E-mail: tnfoo@agri.moa.my

Website: http://www.agrolink.moa.gov.my/

Rotterdam Convention (PIC) DNA Pesticides (P)

Pesticides Control Division

Director

Department of Agriculture

Ministry of Agriculture and Agro-Based Industry

Tel: (+603) 2697 7220 Fax: (+603) 2697 7225 E-mail: nousa@doa.gov.my

Stockholm Convention (POP) National Focal Point (S)

Conservation and Environmental Management Division

Dr Teddy Lian Kok Fei, Under Secretary

Ministry of Natural Resources and Environment

Conservation and Environmental Management Division

17th Floor, Tower Block 4G3, Precint 4

Federal Government Administrative Centre

62574 Putrajaya, Malaysia Tel: (+603) 8886 1126

Fax: (+603) 8886 4473 E-mail: drlian@nre.gov.my

Basel Convention Competent Authority (CA) and Focal Point (FP)

Department of Environment

Dato' Hajah Rosnani Bt. Ibrahim, Director General

Ministry of Natural Resources and Environment

Level 1-4, podium Block 2 & 3

Tower Block 4G3, Precint 4

Federal Government Administrative Centre

62574 Putrajaya, Malaysia

Tel: (+603) 8871 2174 Fax: (+603) 8889 1036 E-mail: hri@doe.gov.my

Montreal Protocol Focal Point

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Selected Country Statistics

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GDP = Gross Domestic Product; GNI = Gross National Income; Hunger = Population below minimum energy requirement

II. PLANT QUARANTINE

Last updated: December 2006

List of Key Legislation/Regulations/Rules

1974 Plant Quarantine Act (under revision)

1981 Plant Quarantine Regulations

Web source for further information: –

Policies (regarding plant quarantine)	Yes	No
Does phytosanitary legislation cover domestic quarantine?	X	
Does phytosanitary legislation cover import quarantine?	X	
Does phytosanitary legislation cover export quarantine?		X
Does phytosanitary legislation cover living modified organisms?		X
Is plant quarantine a separate organization from animal quarantine?	X	
Other policy initiatives (under review/progress)		
Web source for further information: http://www.doa.gov.my/pqnet/		

Organization of Plant Quarantine Functions	Responsible Organizational Unit (Ministry/Department/Unit)
	* * * * * * * * * * * * * * * * * * *
Pest Risk Analysis	MOA/DOA/CPPQ
National standards development	MOA/DOA/CPPQ
International notifications	MOA/DOA
Import:	
Import permits	MOA/DOA/CPPQ/Post Entry Stations (PQS)
Import inspections	MOA/DOA/CPPQ/Post Entry Stations (PQS)
Emergency action	MOA/DOA/CPPQ
Export:	
Phytosanitary certificates	MOA/DOA/CPPQ
Treatment of commodities	MOA/DOA/CPPQ

Infrastructure	Year: 2005
Number of plant quarantine officers authorized to inspect/certify	20
Total qualified personnel for plant pest risk analysis	2
Number of quarantine offices	63
entry points (sea/air/land/mail = total)	27/12/11/3 = 53
(http://agrolink.moa.my/pqnet/entrypoint.htm)	
post-entry plant quarantine containment facilities	2
other offices	
Number of quarantine service diagnosis laboratories	5
In-country recognized pest diagnostics capabilities	
(incl. universities, etc.)	
Number of laboratories for insect/mite (arthropod) samples	22
Number of laboratories for bacteria samples	7
Number of laboratories for virus samples	3
Number of laboratories for fungus samples	15
Number of laboratories for mycoplasma samples	_
Number of laboratories for nematode samples	1
Number of laboratories for plant/weed samples	1
Number of laboratories for other pests (snail, slug, rodents, etc.)	1

Pest-Free Areas According to ISPM 10	Responsible Organizational Unit (Ministry/Department/Unit)			
Overall management	MOA/DOA/CPPQ			
– surveillance	MOA/DOA/CPPQ/Crop protection	section		
management	MOA/DOA/CPPQ			
certification	MOA/DOA/CPPQ			
List of target pest species and crops ISPM 4		Number of sites in 2005		
Pest free area – mango seed weevils/mango		whole country		
Pest free area – khapra beetle/stored product		whole country		
List of target pest species and crops ISPM 10		Number of sites in [year]		

Key Situation Indicators

International Trade		Year:
Main Import Plant Commodities	Main countries/areas of origin	Quantity (tons)
Rubber wood	Thailand, Indonesia, Cambodia	
Matured coconut	Thailand and Indonesia	
Tobacco	USA	
Fresh cut flowers	China, Netherlands, India, Germany and Japan	
Main Export Plant Commodities	Main destination countries	
Ornamental	Japan, Taiwan, Netherlands, UAE, USA	
Fruits	China, Netherlands, Hong Kong, Singapore	

Cooperation Projects			
Title (Purpose/Target)	Donor	Amount	Years (start-end)
Information Exchange: IPP Regional Workshop	FAO	US\$15 000	Jan 2005
Information Exchange: IPP Regional Workshop	FAO	US\$15 000	May 2005
Regional Workshop for PRA on SALB	FAO	US\$30 000	April 2006
Information Exchange: IPP Regional Workshop	FAO	US\$23 000	May 2005
Title of government follow-up programmes		Amount	Years (start-end)

Key Operation Indicators

Institutional Functions	Year: 2005
Number of import permits issued	24 912
Number of import inspections carried out	72 000
Number of emergency phytosanitary treatments taken on imports	1 863
Number notifications of non-compliance	12
Number of conventional phytosanitary certificates issued	24 189
Number of electronic phytosanitary certificates issued	0

Number of quarantine pests intercepted		Year:
Top three commodities	Top three pest/commodity	# of interceptions

Lists of Regulated Pests	Year of last update	Insects	Pathogens	Plants
Number of quarantine pests		79	164	17
Number of regulated non-quarantine pests				
Number of regulated import articles 30				
Web source for further information: http://www.doa.gov.my/pgnet/				

Web source for further information: http://www.doa.gov.my/pqnet/

Pest Risk Analysis	Insects	Pathogens	Plants
No. of PRA completed and documented (according to ISPM)	_	_	_
Web source for further information:			

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, invest	ments, training,	etc.)
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- 1. Established and implemented the Malaysia Phytosanitary Certificate Assurance Scheme (MPCA) recently for control of pest and facilitate issuance of PC
- 2. Updating forest and mango pest list for the country
- 3. Hot water treatment on papaya fruits for market access to China

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

International Measures ISPM 01 Principles of plant quarantine as related to international trade ISPM 02 Guidelines for pest risk analysis ISPM 03 Code of conduct for the import and release of exotic biological control agents ISPM 04 Requirements for the establishment of pest free areas ISPM 05 Glossary of phytosanitary terms ISPM 06 Guidelines for surveillance ISPM 07 Export certification system ISPM 08 Determination of pest status in an area ISPM 09 Guidelines for pest eradication programmes ISPM 10 Requirements for the establishment of pest free places of production and pest free production sites ISPM 12 Guidelines for the notification of noncompliance and emergency action ISPM 14 The use of integrated measures in a systems approach for pest risk management ISPM 15 Guidelines for regulating wood packaging material in international trade ISPM 16 Regulated non-quarantine pests: concept and application ISPM 17 Pest reporting ISPM 18 Guidelines for the use of irradiation as a phytosanitary measure ISPM 19 Guidelines for the use of irradiation as a phytosanitary measure ISPM 19 Guidelines for a phytosanitary import regulatory system ISPM 20 Guidelines for a phytosanitary import regulatory system ISPM 21 Pest risk analysis for regulated non-quarantine pests ISPM 22 Requirements for the establishment of	x x	most	full	Year of full implementation
international trade ISPM 02 Guidelines for pest risk analysis x x x x ISPM 03 Code of conduct for the import and release of exotic biological control agents ISPM 04 Requirements for the establishment of pest free areas ISPM 05 Glossary of phytosanitary terms x x ISPM 06 Guidelines for surveillance x x ISPM 07 Export certification system x x ISPM 08 Determination of pest status in an area x x ISPM 09 Guidelines for pest eradication programmes x x ISPM 10 Requirements for the establishment of pest free places of production and pest free production sites ISPM 11 Pest risk analysis for quarantine pests x x ISPM 12 Guidelines for the notification of noncompliance and emergency action ISPM 14 The use of integrated measures in a systems approach for pest risk management ISPM 15 Guidelines for regulating wood packaging material in international trade ISPM 16 Regulated non-quarantine pests: concept and application ISPM 17 Pest reporting ISPM 18 Guidelines for the use of irradiation as a phytosanitary measure ISPM 19 Guidelines for the use of irradiation as a phytosanitary measure ISPM 19 Guidelines for a phytosanitary import regulatory system ISPM 20 Guidelines for a phytosanitary import regulatory system ISPM 21 Pest risk analysis for regulated non-quarantine pests ISPM 22 Requirements for the establishment of x				
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non-quarantine pests ISPM 22 Requirements for the establishment of x		х		Plan 2007
				Plan 2008
areas of low pest prevalence		х		Plan 2008
ISPM 23 Guidelines for inspection x		X		Plan 2007
ISPM 24 Guidelines for the determination and recognition of equivalence of phytosanitary measures		х		Plan 2007
ISPM 25 Consignments in transit x	X			
ISPM 26 Establishment of pest free areas for x x fruit flies (Tephritidae)				
ISPM 27 Diagnostic protocols for regulated pests x x		1		

Comments/Constraints

III. SURVEILLANCE, PEST OUTBREAKS AND INVASIVE SPECIES MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Surveillance, Pest Reporting and Emergency Actions

Surveillance - None

Pest reporting – Plant Quarantine Act 1976 and Plant Quarantine Regulations 1981 Emergency actions – Plant Quarantine Act 1976 and Plant Quarantine Regulations 1981

Web source for further information: -

Policies (regarding invasive/migratory species management)		No
National strategy to control serious field pest outbreaks?	X	
National strategy to control migratory or periodically occurring pests?	X	
National strategy to eradicate serious newly invaded exotic pests?		
Other policies: (e.g. subsidies, etc.)		
Web source for further information: http://agrolink.moa.my/pqnet/kwln/P&r/pnrpadiframe.htm		

Organization of Outbreak Management Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Field/Storage Pest Outbreaks	(e.g. BPH, bollworm, etc.)
Response strategy/plans	MOA/DOA/CPPQ/Crop protection section
Surveillance	MOA/DOA/CPPQ/Crop protection section
Control	MOA/DOA/CPPQ/Crop protection section
Migratory Pest Outbreaks	(e.g. locusts, birds, armyworm)
Response strategy/plans	
Surveillance	
Control	
New Exotic Pest Eradication	(e.g. coconut beetle)
Response strategy/plans	MOA/DOA
Surveillance	MOA/DOA
Control/eradication	MOA/DOA
Reporting to bilateral or international organizations	MOA/DOA

Infrastructure	Year: 2005
Number of designated staff for surveillance of field pests of national	113
importance	
Number of designated staff for surveillance of migratory and	113
periodically occurring pests	
Number of designated staff for surveillance of invasive species	113
Number of designated staff for control of field pests of national importance	200
Number of designated staff for control of migratory and periodically	200
occurring pests	
Number of designated staff for eradication of invasive species	200

Key Situation and Operation Indicators

(Outbreaks and invasions in the past 2 years)

New exotic species found established in country	Insects	Pathogens	Weeds
Total number for year:			
Total number for year:			
Total number on record			

Eradication or internal quarantine actions taken against economically important species				
Name of species	Mango seed weevil	Khapra beetle	PRSV	
Year of first discovery	2000	1979	1988	
Passway	Mango	Jute bag	Not sure	
Location of first discovery	KLIA, Selangor	Kedah	Johor	
Area affected [ha]	20	3 premises		
Area treated [ha]	1.0	3 prmises		
Control method	IPM	Fumigation	Destroy, Burning &	
			Cultural	
Expenditures	RM10 000	RM100 000	RM300 000	

Pest outbreak actions	Outbreak 1	Outbreak 2	Outbreak 3
Name of species	BPH/rice	Leaf feeders/rice	Rice blast
Year of outbreak	2005	2005	2005
Area affected [ha]	5 694	15 750	6 550
Estimated damage \$	_	_	_
Area treated by government [ha]			3 176
Expenditures by government [\$]			
Control method			 Spray with fungicides Reduce source of inoculums Plant resistant variety Used disease free seeds Seed treated with fungicides
More information			

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)

Had conducted an APEC Workshop on Building Biosecurity Planning and Surveillance Capacity for APEC Member in Kuala Lumpur from 15-20 August 2005

Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

IV. PEST MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules for Pest Management

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Web source for further information: –

Policies (regarding pest management)	Yes	No
Do you have policies encouraging organic or low-pesticide use production	X	
Is IPM specifically mentioned in laws or policy documents?	X	
Do you have official Good Agricultural Practice (GAP) or any other relevant	X	
food safety (ecofood, etc.) standards for pest management?		
Is pest management extension separate from general extension?		X
Other policies: (subsidies, production inputs, etc.) production of safe food		
Web source for further information: http://www.doa.gov.my		

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Policy development	MOA/DOA
Pest management research	MOA/DOA/MARDI (Malay. Agr. Res. Dev. Inst.)
Control recommendations	MOA/DOA/MARDI
Pest management extension	MOA/DOA
IPM training	MOA/DOA
GAP training	MOA/DOA

Infrastructure	Year: 2005
Number of technical officers for pest management	12
Number of central, regional, provincial or state offices	11
Number of district and village level field offices	92
Number of field/extension agents for pest management advice	826
Number of field/extension agents trained in IPM-FFS facilitation	200
Number of government biocontrol production/distribution facilities	1
Number of government biopesticide production/distribution facilities	1
Number of general extension staff involved in pest management	400
Number of designated plant protection technical officers for extension	80

Key Situation and Operation Indicators

Pest Management	Yes	No
Does the country have a National IPM Programme?	X	
If yes, give Name and Address of IPM Programme:		
Rice IPM Programme		
Does the country have specific IPM extension programmes?	X	
If yes, in which crops?: Rice/Paddy		
Does the country have specific IPM research programmes?		X
If yes, in which crops?:		
Does the country have specific GAP extension programmes?	X	
If yes, in which crops?: vegetables, fruits and rice		
Does the country have specific GAP research programmes?		
If yes, in which crops?: vegetables, fruits and rice		

Market shares (estimated value, volume or area under control)	Year:
Size of chemical pest control market	
Size of biopesticides market	
Size of biological control agents market	1-2%

Major pest control requiring crops (requiring most pesticide applications)	1 st	2 nd	3 rd
Affected crop	Cut flowers	Vegetables	Rice/paddy
Name(s) of pest(s)	1. thrips 2. leaf miner		
Estimated crop loss	_	_	_
Affected area	_	_	_
Number of pesticide applications or	Varies	Varies	Varies
amount of pesticide used	5-6 rounds	3-5 rounds	6-7 rounds
Government action taken			

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up pr	ogrammes	Amount	Years (start-end)

Pest Management Extension	Year: 2005	
Number of farmers trained in IPM during the year	_	
Number of IPM-FFS conducted during the year	None	
Number of farmers trained in GAP standards during the year	50	
Area under IPM/low pesticide management [ha]	_	
Area under organic/pesticide-free management [ha]	810	
Crops in which IPM or other ecology friendly programmes are successfully implemented: rice, vegetables (DBM), fruit, plantation crops		
Crops grown organic/pesticide-free:		
leafy vegetables, banana, carambola and maize		

Progress and Constraints

V. PESTICIDE MANAGEMENT

Last updated: December 2006

List of Key Legislation/Regulations/Rules

- 1949 Sodium Arsenate Regulations 1949
- 1956 Hydrogen Cyanide (Fumigation) Act 1956
- 1974 Pesticides Act 1974, (Amendment) 2004
 - i. Pesticides (Registration) Rules 1976
 - ii. Pesticides (Importation for Research and Education Purposes) Rules 1981
 - iii. (Amendment) 1987
 - iv. Pesticides (Importation for Research and Education Purposes, or as Registration Sample or Analytical Standard) Rules (to be amended)
 - v. Pesticides (Labeling) Regulation 1984
 - vi. Pesticides (Licensing for Sale and Storage for Sale) Rules 1988
 - vii. Pesticides (Highly Toxic Pesticides) Regulation 1996, (Amendment) 2004
 - viii. Pesticides (Advertisement) Regulation 1996
 - ix. Pesticides (Pest Control Operators) Rules 2004
- 1974 Occupational Safety & Health Act 1974
 - i. The Occupational Safety & Health (Use of Standard of Exposure of Chemical Hazardous to Health) Regulations 2000
- 1974 Environmental Quality Act 1974
 - i. Environmental Quality (Prescribed Premises) (Scheduled Waste Treatment and Disposal Facilities) Order 1989
- 1983 Food Act 1983
 - i. Food Regulations 1985

Web source for further information: http://www.doa.gov.my/main.php?Content=vertsections& SubVertSectionID=17&VertSectionID=1&CurLocation=1&IID=

Policies (regarding pesticide management)	Yes	No
Do you have national pesticide reduction targets?		X
If yes, what is the target:		
Have you ratified the Rotterdam (PIC) Convention?	X	
Have you ratified the Stockholm (POP) Convention?		X
Have your ratified the Basel Convention? (hazardous wastes)	X	
Have your ratified the Montreal Protocol? (MeBr phasing-out)		
Have you reported the observance of the Code of Conduct to FAO according to	X	
Art. 12 of the Code?		
Have you adopted Good Laboratory Practices (GLP)?	X	
Pesticide Registration		
Do you require pesticides to conform to relevant FAO or WHO specifications?	X	
Do you allow the "me-too" registration and sale of generic pesticides?	X	
Do you require data on product equivalence for generic registration?	X	
Do you conduct country-specific risk assessments for		
occupational risks?	Х	
consumer risks?	X	
environmental risks?	Х	

Have you adopted the Global Harmonized System (GHS) for pesticides hazards	x*	
evaluation and labelling? *Tentative date of implementation: December 2008		
Note: In preparation of adoption		
Do you accept evaluation results from other countries?	X	
Do you accept field studies conducted in other countries?	X	
Do you require environmental fate studies?	X	
Incentives/Disincentives		
Do you have a special tax on pesticides to cover externality costs?		X
Do you subsidize or provide low-cost pesticides?		X
Do you subsidize or provide low-cost biopesticides?		X

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Legislation	MOA/DOA/PCD (Pesticides Control Division)
Registration	MOA/DOA/PCD
Licensing of shops	MOA/DOA/PCD
Licensing of field applicators	MOA/DOA
Enforcement/inspections	MOA/DOA/PCD
Testing of pesticide efficacy	MOA/DOA/MARDI + Univ. Sci. Malaysia (USM)
Development of pesticide use	DOA/MARDI/MPOB/MRB/FRIM/USM
recommendations	
Safe use training/extension	MOA/DOA/HRDD
Food residue monitoring	MOA/DOA
Environmental monitoring	Dept. of Environment and MOA/DOA
Health monitoring	Ministry of Health
Other Stakeholders:	
Pesticide Industry Association	Malaysian Crop Care and Public Health Association
Civil Society Organizations	PAN, Centre for Environmental Technologies
(NGO, etc.)	

Infrastructure	Year: 2005
Number of registration officers	12
Number of enforcement officers	26
Number of department quality control laboratories	1
Number of quality control laboratory personnel	3
Number of department residue analysis laboratories	4
Number of residue laboratory personnel	6

Key Situation Indicators

Pesticide Trade:	Tons	\$ '000 Value
Imports		
Manufacture		
Export		
Domestic Use/Sales		

Pesticide Use Profile:	Tons (a.i./formulation to be specified)	\$ '000 Value
Agriculture		
Chem. Insecticides		18 000
Chem. Fungicides		7 000
Chem. Herbicides		63 000
Chem. Others:		4 000
e.g. molluscicide, acaricide		
Other		_
e.g. Avamectrin, Bt, Neem		
Other purposes		
TOTAL		94 000

Post Registration Monitoring

Testing, Quality Control and Effects in the Field	Yes	No
Do you have significant problems with low-quality pesticides in the market?	X	
Do you have significant problems with pesticide resistance?		X
Do you have a list of pesticides under close observation for problems	X	
Source for more information: –		

Health and Environmental Information		
Do you maintain data on pesticide poisoning cases?	X	
Do you have a system to monitor pesticide residues in food?	X	
Do you have a system to monitor pesticide residues in the environment?	X	
Do you have significant problems of environmental contamination from pesticides?		X
Do you have data on pesticides effects on wildlife and ecosystems?		X
Source for more information: –		

Pesticide Disposal	Yes	No
Do you have system to collect and safely dispose of used containers and small quantities of left-over pesticides?	Х	
Do you have an inventory of outdated and obsolete pesticides in the country?	X	
(e.g. banned and no longer traded, but still in storage)		
Do you have illegal trade in pesticides?	X	
if yes: what is the estimated amount:		
Source for more information: Malaysia Crop Care & Public Health Association (MCPA)		

Key Operation Indicators

Registration/Regulation/Monitoring	Year: Jan-June 2006		
Registi attor/ Regulation/ Monitoring	a.i.*	Trade Name	
Number of registered pesticide products	240	917	
Number of registered biopesticides (Avamectrin, Bt, Neem, etc.)	0	0	
Number of restricted-use pesticides/formulations	7		
Number of banned pesticides	25		
Number of licensed outlets	1 382		
Number of licensed field applicators (professional and/or farmers)	92		
Number of licensing violations reported during year	-		

Number of quality control analyses conducted during year	148
Number of food samples analyzed for pesticide residues during year	157
Number of samples exceeding MRL	Restricted information
Number of environmental samples analyzed for pesticide residues	89

^{*} active ingredient

Pesticides Restricted in Recent Years			
Year	Name of active ingredient or hazardous formulation		
2004	Monocrotophos, Methamidophos, Profenofos, Prothiofos, Quinalphos, Triazaphos and Phenthoate		

Pesticides Banned in Recent Years		
Year	Name of active ingredient	

Cooperation Projects			
Purpose/Target	Donor	Amount	Years (start-end)
Purpose/Target of government follow-up programmes		Amount	Years (start-end)

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
i) Pesticide Act 1974 (amended 2004)
ii) Pesticide (Regulations) Rules 2005 (amended 2005)
iii) Ratification of Rotterdam Convention
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)

VI. ADDITIONAL ISSUES OF INTEREST

Last updated: December 2006

Genetically Modified Crops			
Name of GMO Crop	Area under Cultivation [ha]		