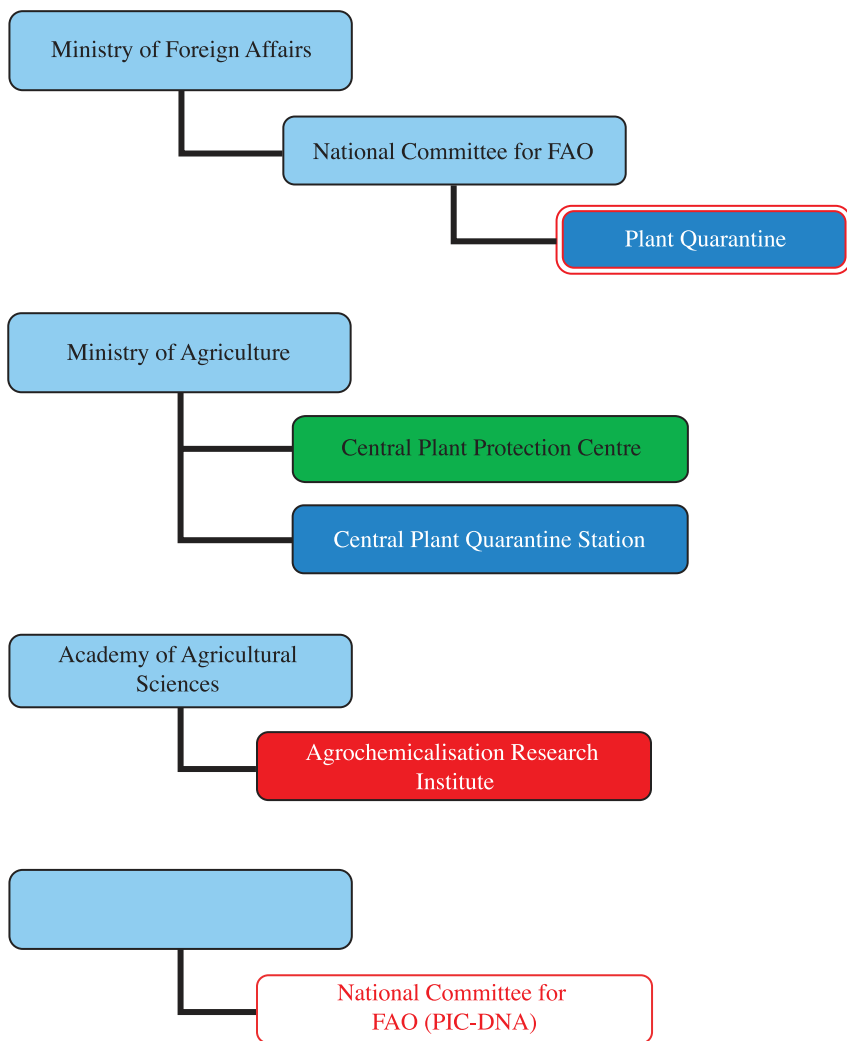


3.6 KOREA, DEMOCRATIC PEOPLE’S REPUBLIC OF (KOREA DPR)

I. GENERAL INFORMATION

Last updated: December 2006

Plant Protection Organization Chart



Color Code:



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
Mr Kim Chun San, Director
Ministry of Agriculture
Janghun Dong No. 1, Mangyongdae District
Pyongyang City, Korea, DPRK
Fax: (+850) 2 381 4427; 850 2 381 4081

Pesticide Registration

Agrochemicalization Research Institute
Mr Kim Chi Yong, Director
Academy of Agricultural Sciences
Chonggye-dong, Ryongsong District
Pyongyang City, Korea, DPRK
Tel: (+850) 2 18111(381 8557)
Fax: (+850) 2 381 2100
E-mail: ilsop@co.chesin.com

Official International Contact Points

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

National Committee for FAO
Mr Rim Song Chol, Coordinator
Ministry of Foreign Affairs
P.O. Box 44
Jungsong-dong, Central District
Pyongyang City, Korea, DPRK
Tel: (+850) 2 (Through operator)
Fax: (+850) 2 381 4460
E-mail: fao.myonghyok.kim@undp.org

Central Plant Protection Centre (country report)
Mr Kim Chun San, Director
Ministry of Agriculture
Janghun Dong No. 1, Mangyongdae District
Pyongyang City, Korea, DPRK
Fax: (+850) 2 381 4427; 850 2 381 4081
Source: Country Report

WTO-SPS Contact Point

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

National Committee for FAO

Mr Rim Song Chol, Coordinator

Ministry of Foreign Affairs

P.O. Box 44

Jungsong-dong, Central District

Pyongyang City, Korea, DPRK

Tel: (+850) 2 (Through operator)

Fax: (+850) 2 381 4460

E-mail: fao.myonghyok.kim@undp.org

Stockholm Convention (POP) National Focal Point

National Coordinating Committee for Environment

Mr Kim Yong U, Coordinator

P.O. Box 44

Jungsong-dong, Central District

Pyongyang City, Korea, DPRK

Tel: (+850) 2 (Through operator)

Fax: (+850) 2 381 4460

Basel Convention Competent Authority (CA)

National Coordinating Committee for Environment

Mr Kim Yong U, Coordinator

P.O. Box 44

Jungsong-dong, Central District

Pyongyang City, Korea, DPRK

Tel: (+850) 2 (Through operator)

Fax: (+850) 2 381 4460

Montreal Protocol Focal Point

National Coordinating Committee for Environment

Mr Kim Yong U, Coordinator

P.O. Box 44

Jungsong-dong, Central District

Pyongyang City, Korea, DPRK

Tel: (+850) 2 (Through operator)

Fax: (+850) 2 381 4460

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)	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)
Pest Risk Analysis	No knowledge on PRA
National standards development	Ministry of Agriculture/CPPC
International notifications	Central Plant Protection Centre (CPPC)
<i>Import:</i>	
Import permits	Central Plant Quarantine Service (CPQS)
Import inspections	National Quality Inspection Service
Emergency action	MOA/CPPC
<i>Export:</i>	
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 (incl. universities, etc.)	5
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 According to ISPM 10	Responsible Organizational Unit (Ministry/Department/Unit)
Overall management	
– surveillance	
– management	
– certification	
List of target pest species and crops ISPM 4	Number of sites in [year]
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)
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 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	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				Planned/Actual Year of full implementation
	low	medium	high	none	partial	most	full	
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 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)
<i>Field/Storage Pest Outbreaks</i>	(e.g. BPH, bollworm, etc.)
Response strategy/plans	MOA/CPPC
Surveillance	Cooperation farm, county, Province and CPPC
Control	Cooperation farm
<i>Migratory Pest Outbreaks</i>	(e.g. locusts, birds, armyworm)
Response strategy/plans	MOA/CPPC
Surveillance	Cooperation farm, county, Province and CPPC
Control	Cooperation farm
<i>New Exotic Pest Eradication</i>	(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 importance	300
Number of designated staff for surveillance of migratory and periodically occurring pests	300
Number of designated staff for surveillance of invasive species	300
Number of designated staff for control of field pests of national importance	500
Number of designated staff for control of migratory and periodically occurring pests	500
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			
Name of species	<i>Dryocosmus Kuriphilus</i>	<i>Trialeurodes vaporariorum</i>	<i>Lissorhoptrus oryzophilus</i>
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)	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 food safety (ecofood, etc.) standards for pest management?	x	
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
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? <i>If yes, give Name and Address of IPM Programme:</i>		x
Does the country have specific IPM extension programmes? <i>If yes, in which crops?:</i>		
Does the country have specific IPM research programmes? <i>If yes, in which crops?:</i>	Rice, Maize Vegetables	
Does the country have specific GAP extension programmes? GAP <i>If yes, in which crops?:</i>	All crops	
Does the country have specific GAP research programmes? <i>If yes, in which crops?:</i>	All 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

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? <i>If yes, what is the target: _____</i>		
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 recommendations	CPPC/MOA
Safe use training/extension	AAS/MOA/CPPC
Food residue monitoring	
Environmental monitoring	
Health monitoring	Ministry of Health
<i>Other Stakeholders:</i>	
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	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	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? (e.g. banned and no longer traded, but still in storage)	x	
Do you have illegal trade in pesticides? if yes: what is the estimated amount: _____		x
Source for more information: –		

Key Operation Indicators

Registration/Regulation/Monitoring	Year:	
	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 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]