

2.16 PHILIPPINES

I. GENERAL INFORMATION

Last updated: December 2008

Overall Executive Summary

The Plant Quarantine Service (PQS) came up with a series of activities, programmes and developments during the Calendar Year 2007-2008, heading towards the three-point programme focus of improving the PQS image, technical excellence and efficiency to further strengthen the PQS' capacity to render service and carry out its mandate.

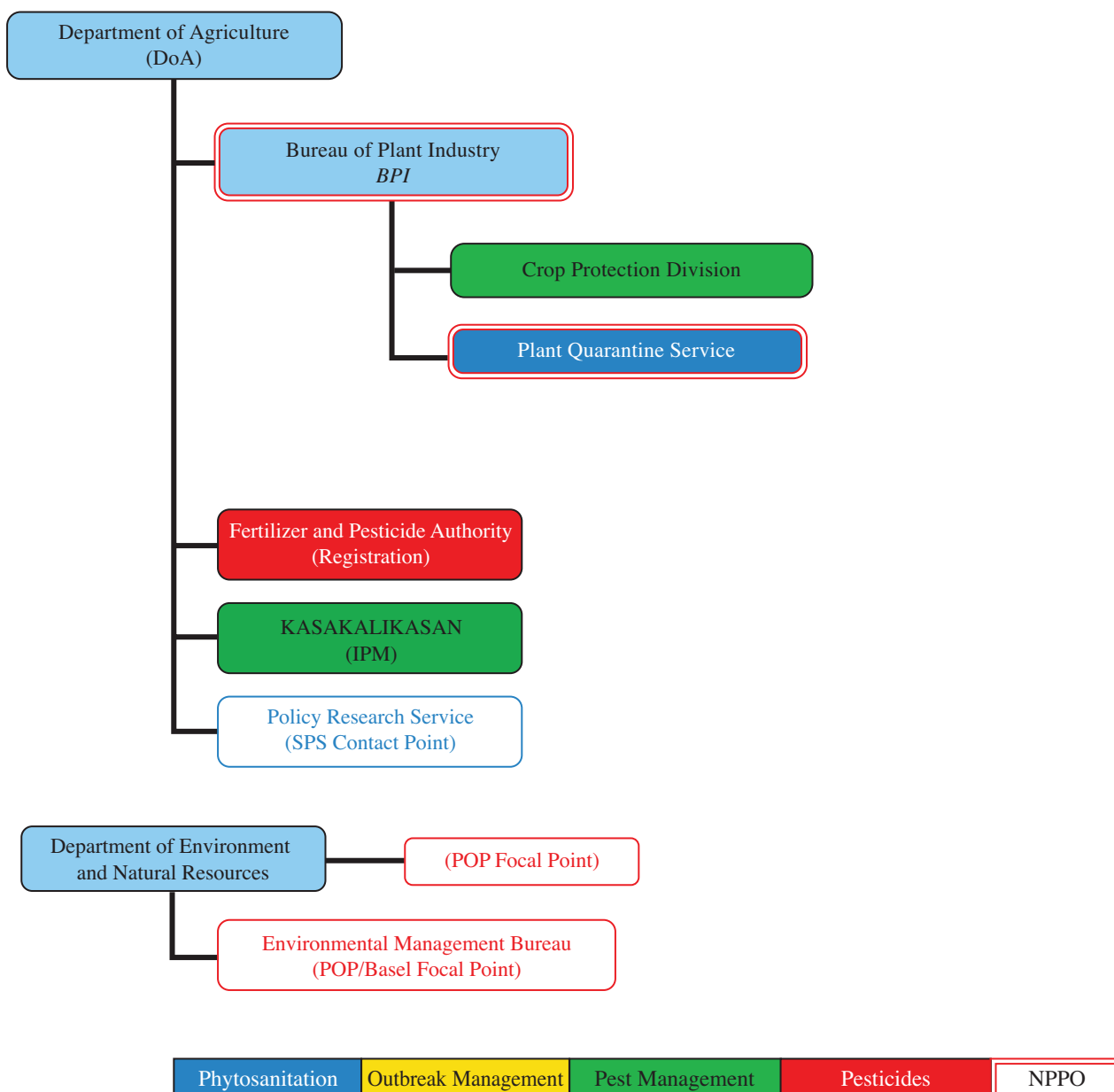
In line with the PQS' thrust of improving its image and technical excellence, PQS conducted a series of Developing Personal Excellence Seminar for all PQS personnel to develop and improve working relationship through identification of one's self-concept, clarification of one's values and goals and team building process. A series of extensive technical trainings were also facilitated by the PQS which were participated by Plant Quarantine personnel nationwide. This includes *Training on Identification of Pests and Diseases of Fresh Fruits and Vegetables, Stored Products and Wood & Non-wood Forest Products, Training on Identification of Fruit fly, Identification of Ornamental Plants and its Pests and Diseases, Training on Inspection Protocol on Musa Plantlets and the General Plant Quarantine Training*. This is part of the technical upgrading of the PQS to equip its personnel with knowledge and learning experience for proficient performance of their duties. On top of these locally organized and funded training, PQS personnel attended numerous training conducted abroad. Moreover, part of PQS' focus of providing efficient and effective service to its clientele, new PQS buildings at the Port of Iloilo, Batangas and Bacolod were constructed and the diagnostic laboratory at the PQS South Harbor was renovated. PQS also acquired additional vehicles for smooth PQS operations. An 87 square meter treatment area was also constructed at the Central office for rapid export facilitation of cut flowers and ornamental plants.

With the Philippine Plant Quarantine's need to conform to the international quarantine standards, comply with the requirements of the importing countries and expand the Philippine market internationally, PQS formulated and modified rules and regulatory policies and lined-up plans and programmes to meet the said needs. Protocols for export were developed and amended which include *Protocol for the Export of Fresh Asparagus to Japan, Revised Protocol for the Export of Fresh Cavendish Banana and Revised Protocol for the Export of Fresh Okra to Japan*. PQS also issued *Guidelines for the Implementation of the Australian Fumigation Accreditation Scheme* in the Philippines which signifies the readiness of the PQS to implement high standard *Rules and Regulations for the Importation, Exportation and Domestic Movement of Irradiated Plants and Plant Products and the Use of Irradiation as Phytosanitary Treatment* was also issued which provides another regulatory option for the Philippines with regard to phytosanitary treatment of fruits and vegetables for export. Recently, the PQS also set-up a total of 260 fruit fly traps all over the country. Ten sites per region were determined as strategic locations for setting of traps. Data gathered in the survey will show the population and changes of population of fruit fly within the coverage area. The survey is a continuing activity of PQS in which the information gathered will be readily available once needed by the countries importing mangoes and other fruits from the Philippines. Furthermore, additional areas were surveyed and identified by the Philippines as area free from Mango Pulp Weevil (*Sternochetus frigidus*) and Mango Seed Weevil (*Sternochetus mangiferae*). These includes the Province of Davao del Sur, Sarangani and City of General Santos. This provides a great opportunity for Philippine exporters given that there will be additional production areas as source of mangoes for export to other countries.

All these changes and developments reflect the Philippine Plant Quarantine’s initiative of having an improved system in place, highly trained technical personnel, better buildings and laboratory facilities and good rules and regulatory policies to achieve its three-point programme focus and proficiently perform the PQS mandate.

The country’s work plan is attached to this plant protection profile.

Organization Chart



Important Contact Addresses**Ministry/Department of Agriculture**

Department of Agriculture

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Office of the Secretary

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Quezon City, Philippines

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Website: www.da.gov.ph**Operational Offices:****BUREAU OF PLANT INDUSTRY***Mr Joel S. Rudinas, Director*

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Malate, Manila, Philippines

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E-mail: buplant@yahoo.comWebsite: www.da.bpi.gov.ph**Plant Quarantine**

Plant Quarantine Service

Mr Larry R. Lacson, Chief

Bureau of Plant Industry

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Tel: (+632) 5243749 / 4040409

Fax: (+632) 5242812 / 4040409

E-mail: lacsonlr@yahoo.com**Surveillance, Pest Outbreaks and Invasive Species Management**

Crop Protection Division

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E-mail: wilmanemesio@yahoo.comWebsite: www.da.bpi.gov.ph**Pesticide Residue Analysis**

Laboratory Services Division/National Pesticide Analytical Laboratory

Ms Susana SG Gonzalo, Officer-In-Charge

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E-mail: lsdbpi@yahoo.comWebsite: www.da.bpi.gov.ph

Pesticide Registration

Fertilizer and Pesticide Authority

Dr Norlito Gicana, Executive Director

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Diliman, Quezon City 1101, Philippines

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Website: <http://fpa.da.com.ph>**Official International Contact Points****National Plant Protection Organization (NPPO) Contact Point** (for IPPC/APPPC)

Bureau of Plant Industry

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Language(s): English

Contact point received: 2005; Source: country report

Plant Quarantine Service

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Policy Research Service

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spsis.da.gov.ph**Rotterdam Convention (PIC) DNA Pesticides**

Department of Agriculture Compound

Ms Aida Ordas, Chief, Pesticide Regulatory Services Division

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Stockholm Convention (POP) National Focal Point (P)

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Environmental Management Bureau

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Basel Convention Competent Authority (CA) and Focal Point

Environmental Management Bureau

Department of Environment and Natural Resources

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Selected Country Statistics:

Agricultural Population	57 million	Agricultural Land	10. 2 million ha
GDP: P 6 648 billion	Agric. GDP: 14%	GNI per capita: US\$1 620	Undernourishment: 16%
Main crops grown:			

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

II. PLANT QUARANTINE

Last updated: December 2008

List of Key Legislation/Regulations/Rules

- 1978: Plant Quarantine Presidential Decree No. 1433
 BPI Quarantine Administrative Order No. 1, Series of 1981
 BPI Quarantine Administrative Order No. 5, Series of 1946
 BPI Quarantine Administrative Order No. 6, Series of 1949 (Revised)
 BPI Quarantine Administrative Order No. 13, Series of 1949
 BPI Administrative Order No. 2-3; Amending Certain Provisions of Plant Industry Administrative Order No. 2, Series of 1950 (Revised)
- 1968 BPI Administrative Order No. 2-5: Amending further certain Section of AO No. 2, Series of 1958 (Revised) governing the Importation and Exportation of Plant Materials into and from the Philippines.
 BPI Administrative Order No. 2 (Internal): Declaring the “Leaf Mottling Virus” a dangerous disease of citrus; Providing its control and placing under quarantine all the provinces where the disease already exists.
 Administrative Order No. 118-2: Second Revision of the Standard for Philippine Bananas.
- 1974 BPI Administrative Order No. 3: Amending Section 7 of the AO No. 6, Series of 1949 (Revised) Entitled Declaring the Coconut “Cadang-cadang” of the Bicol Type of Dangerous diseases; providing for its control, and placing under quarantine all the provinces where the disease already exist.
- 1978 BPI Administrative Order No. 2: The adoption of standards administrative orders issued by the Bureau of Standards as BPI Administrative Orders on some raw agricultural crops commodities of exports.
- 1981 BPI Administrative Order No. 1: Rules and regulations to implement Presidential Decree No. 1433, entitled “Promulgating the Plant Quarantine Law of 1978 thereby Revising and Consolidating existing Plant Quarantine Laws to further improve and strengthen the Plant Quarantine Service of the Bureau of Plant Industry.
- 1982 BPI Administrative Order No. 1-1: Regulating the importation of mango plants (*Mangifera* and parts thereof from places, areas or countries infested with mango malformation of Bunchy-Top, Woody-Gall and Scaly Bark (Cuarteado). Diseases of Mango in order to prevent their introduction into the Philippines.
- 1982 BPI Administrative Order No. 1-2: Regulating prohibiting, except for certain purposes and under certain conditions, the importation of a coconut (*Cocos nucifera* Linn) and other palms and/or parts thereof from areas infested with the Lethal Yellowing diseases of
- 1982 BPI Administrative Order No. D-1: Declaring Socorro Wilt of Coconut as dangerous and injurious coconut diseases and likewise declaring the Island of Mindoro and other places where the same may be found to exist, under quarantine to infested areas.
- 1982 BPI Administrative Order No. D-2: Declaring Rice Black Bug (*Scotinophora spp.* Burn), a dangerous pest of rice and declaring the Palawan Group of Islands under quarantine to prevent the spread thereof to other parts of the Philippines.
- 1983 BPI Administrative Order No. 4: Administrative Order amending pertinent provisions of Section 1, Rule VIII of BPI Administrative Order No. 1, Series of 1981.

- 1985 BPI Administrative Order No. D-1: Declaring *Salvinia molesta*, D.S. Mitchell as a noxious weed and placing under quarantine the provinces of Aklan, Antique, Capiz and Iloilo; in the Island of Panay; the sub-province of Guimaras and Negros Island, to prevent its spread to other areas in the Philippines.
- 1987 BPI Administrative Order No. 16: Declaring Mango Pulp Weevil (*Sternochetus frigidus* Fabr.), a dangerous pest and injuring to mangoes and likewise declaring the Palawan Island Group under quarantine to prevent the spread from infested to non-infested area.
- 1987 BPI Administrative Order No. 18: Declaring the Mollusk *Ampularia gigas* locally known as the “Golden Kuhol”, as a serious plant pest and providing measures to regulate and control its spread.
- Administrative Order No. 20: Declaring the Mango Pulp Weevil (*Sternochetus frigidus* Fabr.), a dangerous pest and injurious and placing the Palawan Island Group under quarantine to prevent the spread of said pest.
- Administrative Order No. 14: Declaring the Potato Golden Cyst Nematode (*Globodera rostochiensis* Woll) a dangerous pest and placing under quarantine all areas in the Philippines where they are found and known to exist.
- 1988 BPI Administrative Order No. 15: Modifying BPI Administrative Order No. 6, Series of 1949 (Revised) entitled “Declaring the Coconut Cadang-cadang” a dangerous disease; providing for its control and placing under quarantine all provinces where the diseases already exists and issued by the Director of Plant Industry pursuant to act 3027.
- Administrative Order No. 23: Regulations for importation of fresh fruits and vegetables into the Philippines from countries and places infested with Mediterranean fruitfly (*Ceratitis capitata*); the Mexican fruitfly (*Anastrepha ludens*); the Queensland fruitfly (*Dacus tryoni*) and other fruitflies.
- BPI Administrative Order No. 16: Regulations governing Inter-Provincial/Regional movements of all plants species belonging to Papaya (*Carica papaya*) in order to prevent the spread of papaya ring spot virus disease (PRSV) to non-infected areas providing measures for the destruction of all infected papaya plants and plant pest thereof.
- 1993 DA Special Quarantine Administrative Order No. 1: Amending Section 1 of BPI Special Order No. D-2, Series of 1982, re: Declaring Rice Black Bug (*Scotinophora spp.* Burn) a dangerous pest of rice and declaring the Palawan Group of Islands under quarantine to prevent the spread thereof to other parts of the Philippines.
- 1996 BPI Plant Quarantine Circular No. 01: Guidelines on the Importation of White Potato.
- 1996 BPI Plant Quarantine Circular No. 02: Guidelines on the Importation of Garlic.
- 1996 BPI Plant Quarantine Circular No. 03: Guidelines on the Importation of White Onion.
- 1996 BPI Plant Quarantine Circular No. 04: Guidelines on the Importation of Coffee Beans.
- 2004 BPI Quarantine Administrative Order No. 1: Guidelines for Regulating Wood Packing Materials involved in International Trade.
- 2004 BPI Quarantine Administrative Order No. 13: Rules and Regulations Further Modifying BPI Administrative Order No. 15, Series of 1988 entitled “Declaring the *Cadang-Cadang* a Manageable Disease and Providing for a Containment and Quarantine Control Programme in Affected Areas”
- BPI Quarantine Administrative Order No. 01: Amendment to BPI Quarantine Administrative Order No. 1, Series of 1981 (Rules and Regulations to Implement Presidential Decree 1433)
- 2005 BPI Special Quarantine Order No. 01: Declaring American Foul Brood (AFB), a Serious Disease of European Honey Bee, *Apis mellifera*, and Providing Measures to Regulate and Prevent its Spread.

- 2005 BPI Special Quarantine Order No. 02: Quarantine Measures to Prevent the Introduction and Spread of Chlorotic Ringspot Virus of Oil Palm
 BPI Special Quarantine Order No. 03: Declaring Coconut Leaf Beetle, *Brontispa longissima* (Gestro) an Invasive Quarantine Pest of Coconut, *Cocos nucifera*, and Providing Measures to Regulate and Prevent its Spread
 Quarantine Administrative Order No. 3: Amendment to BPI Quarantine Administrative Order No. 1, Series of 2004 (Guidelines for Regulating Wood Packaging Material Involved in International Trade)
 Quarantine Administrative Order No. 1: Amendment to BPI Quarantine Administrative Order No. 1, Series of 2004 (Guidelines for Regulating Wood Packaging Material Involved in International Trade)
- 2007 BPI Special Quarantine Administrative Order No. 01: Declaring the Province of Davao del Sur as Area Free from Mango Pulp Weevil (*Sternochetus frigidus*) and Mango Seed *Sternochetus mangiferae*)
 BPI Special Quarantine Order No. 01: Amendment to BPI Special Quarantine Order No. 03, Series of 2005 (Declaring Coconut Leaf Beetle, *Brontispa longissima* (Gestro) an Invasive Quarantine Pest of Coconut, *Cocos nucifera*, and Providing Measures to Regulate and Prevent its Spread)
- 2007 Memorandum Order No. 179: Protocol for the Export of Fresh Asparagus to Japan
- 2008 Memorandum Order No. 13: Amendment on the Shipment Requirement Condition for Food-Grade Soybean from USA and Canada
- 2008 Memorandum Order No. 22: Revised Guidelines on the Importation of Oil Palm Planting Materials
- 2008 Memorandum Order No. 36: Revised Protocol for the Export of Fresh Cavendish Banana
- 2008 Memorandum Order No. 103: Revised Protocol for the Export of Fresh Okra to Japan
- 2008 BPI Special Quarantine Administrative Order No. 01: Declaring the Province of Sarangani and City of General Santos as Area Free from Mango Pulp Weevil (*Sternochetus frigidus*) and Mango Seed Weevil (*Sternochetus mangiferae*)
- 2008 BPI Quarantine Administrative Order No. 01: Guidelines for the Implementation of the Australian Fumigation Accreditation Scheme (AFAS) in the Philippines
- 2008 BPI Quarantine Administrative Order No. 02: Rules and Regulations for the Importation, Exportation and Domestic Movement Irradiated Plants and Plant Products and the Use of Irradiation as Phytosanitary Treatment

Web source for further information: –

(regarding plant quarantine)	Yes	No	Don't know
Does phytosanitary legislation cover both domestic and import/export	x		
Is plant quarantine a separate organization from animal quarantine?	x		
Does phytosanitary legislation cover non-cultivated plants (wild flora)	x		
Does phytosanitary legislation cover living modified organisms?	x		
Other policy goals:			
Web source for further information: www.da.gov.ph			

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Pest Risk Analysis	DA/BPI
Standards development	DA/BPI-PQS
International notifications	DA-Policy, DA/BPI
Import permits/inspections	DA/BPI-PQS
Emergency action	DA/BPI-PQS
Phytosanitary certificates	DA/BPI-PQS
Treatment of commodities	DA/BPI-PQS

Infrastructure	Years: 2007-2008
Total number of plant quarantine officers	164
Total qualified personnel for plant pest risk assessment	100
Number of quarantine offices/stations	30
Number of post-entry plant quarantine containment facilities	3
Number of quarantine service diagnosis laboratories	11
Number of entry points (sea/air/land/mail = total)	141/26/5/1 = 173
In-country pest diagnostics capabilities (incl. universities, etc.)	
Number of laboratories for insect samples	11
Number of laboratories for pathogen samples	11
Number of laboratories for plant/weed samples	11

Pest Free Areas	Responsible Organizational Unit (Ministry/Department/Unit)
Overall management	
– surveillance	DA-BPI-PQS
– management	DA-BPI-PQS
– certification	DA-BPI-PQS
List of target pest species and crops ISPM 4	Number of sites in 2008
Mango Pulp and Seed Weevil (Mango)	4/year
List of target pest species and crops ISPM 10	Number of sites in 2008
Web source for further information: –	

Key Situation Indicators

International Trade	Years: 2007-2008
Main Import Plant Commodities	Main countries of origin Quantity (tons)
Wheat	Australia, Canada, China, USA, India, Germany 15 437 014.77/ 892 836.49
Apple	Chile, China, USA 19 714.87/30 813.47
Oranges	Australia, China, Taiwan, USA 1 825.31/2 826.94
Onion	China, Netherlands, India 1 670/54 857.75
Garlic	China, India 29 722/32 747

Grapes	Australia, Chile, USA	2 592/3 702
Pears	Australia, China, USA	1 247/3 482
Grapefruits	USA, Australia	71.70/91.76
Fresh Potato	Australia, Germany, Netherlands, New Zealand, Switzerland	5 147/3 989.65
Frozen Potato	Belgium	1 725.66/2 476.5
Frozen Vegetables	USA, Belgium, New Zealand, Canada	1 899.6/2 827.22
Lychees	China, Taiwan	914/381
Fresh Vegetables	Belgium, Netherlands, China	47 883.90/36 698.39
Main Export Plant Commodities	Main destination countries	
Fresh Banana	Japan, China, Iran, South Korea, KSA, Kuwait, New Zealand	2 776 491.969/ 1 995 584.704
Copra	South Korea, Viet Nam, Japan, New Zealand, Taiwan, Australia	215 202.519/ 1 362 019.945
Wheat	USA	
Fresh Pineapple	Japan, South Korea, New Zealand, Jebel, Ali, UAE, China	159 426.090/ 185 503.497
Desiccated Coconut	Germany, Belgium, Netherlands, Australia, New Zealand, UK, Canada, Poland, France, Russia	47 331.097/ 58 208.163
Banana Chips	China, USA, Viet Nam, Germany, Russia, UK, France, Netherlands, Australia, South Korea, Poland, Hong Kong	333 727.840/ 39 887.315
Shallots	Indonesia, Singapore	10 541.387/10 551.98
Tobacco	Thailand, South Korea, Puerto Rico, Malaysia, USA, Spain, Viet Nam, Indonesia, Sweden, Netherlands	37 976.561
Mango	Hong Kong, Japan, China, Japan, South Korea, USA, Malaysia, Singapore, Belgium, KSA, Germany, Switzerland, Canada, Greece, New Zealand, Bahrain, London, Italy, Brunei, UK, Spain, Australia, Dubai, Thailand, Netherlands, France	22 743.051/66 987.373
Rubber	China, South Korea, Germany, New Zealand, Japan, Viet Nam, China, Taiwan, Hong Kong	165 684.357/4 042.366

Cooperation Projects

Title (Purpose/Target)	Donor	Amount	Years (start-end)
Enhancing the Export Competitiveness of the Philippine Super Mango	USDA	82 M Php	July 2006 – August 2009
Title of government follow-up programmes		Amount	Years (start-end)

Key Operation Indicators

Institutional Functions	Years: 2007-2008
Number of import permits issued/inspections	18 556/20 999
Number of emergency phytosanitary treatments taken on imports	46/60
Number of pests intercepted	12/24
Number notifications of non-compliance? (ask APPPC)	48/60
Number of phytosanitary certificates issued <i>Do you have an electronic certification system?: Yes _____ No X</i>	59 096/65 660

Lists of Regulated Pests	Year of last update	Insects	Pathogens	Plants
Number of regulated quarantine pests		4	4	
Number of regulated non-quarantine pests				
Number of regulated import commodities				
Website for the above information: –				

Pest Risk Analysis	Insects	Pathogens	Plants
No. of PRA completed and documented (according to ISPM)			3
Web source for further information: www.da.gov.ph * PRA is done by commodity			

Progress and Constraints

Main Progress in Recent Years (legislation, policies, infrastructure, investments, training, etc.)
<ul style="list-style-type: none"> • Construction/repair of PQ buildings and laboratories • Participation and meetings regarding SPS/Plant Quarantine • Completed PRA on fresh carrot and ginger from China, Unshu orange from Korea • Publication of Quarantine Orders/Measures • Capacity Building <ol style="list-style-type: none"> 1. Developing Personal Excellence <ol style="list-style-type: none"> th General Plant Quarantine Training 1. Identification of Pests and Diseases of Fresh Fruit and Vegetables 2. Identification of Pests and Diseases of Stored Products 3. Developing Personal Excellence 4. Identification of Pests and Diseases of Wood and Non-Wood products 5. Training on Identification of Fruit fly 6. Identification of Ornamental Plants and Its Pests and Diseases 7. Training for Plant Quarantine Personnel on Inspection Protocol on Musa Plantlets <ul style="list-style-type: none"> • Fruit fly Surveillance • National Detection Survey for Mango Pulp Weevil • Irradiation Legislation • National Information Dissemination (PQS Video Tale)
Main Constraints (personnel, infrastructure, administrative, operational, training, etc.)
<ul style="list-style-type: none"> • Lack of electronic certification system • Funding source • Rationalization of the bureaucracy hindering hiring of highly technical personnel.

Implementation of ISPM	Relevance			Implementation				Planned/Actual Year of full implementation
	low	medium	high	none	partial	most	full	
ISPM 01 Principles of plant quarantine as related to international trade			x				x	
ISPM 02 Guidelines for pest risk analysis			x				x	
ISPM 03 Code of conduct for the import and release of exotic biological control agents			x				x	
ISPM 04 Requirements for the establishment of pest free areas			x				x	
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			x	x				
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			x				x	
ISPM 14 The use of integrated measures in a systems approach for pest risk management			x				x	
ISPM 15 Guidelines for regulating wood packaging material in international trade			x				x	
ISPM 16 Regulated non-quarantine pests: concept and application			x		x			
ISPM 17 Pest reporting			x				x	
ISPM 18 Guidelines for the use of irradiation as a phytosanitary measure			x		x			
ISPM 19 Guidelines on lists of regulated pests			x		x			
ISPM 20 Guidelines for a phytosanitary import regulatory system			x		x			
ISPM 21 Pest risk analysis for regulated non-quarantine pests	x							
ISPM 22 Requirements for the establishment of areas of low pest prevalence			x	x				
ISPM 23 Guidelines for inspection			x				x	
ISPM 24 Guidelines for the determination and recognition of equivalence of phytosanitary measures	x							
ISPM 25 Consignments in transit			x				x	
ISPM 26 Establishment of pest free areas for fruit flies (Tephritidae)			x		x			
ISPM 27 Diagnostic protocols for regulated pests			x		x			
ISPM 28 Phytosanitary treatments for regulated pests			x				x	
ISPM 29 Recognition of pest free areas and areas of low pest prevalence			x				x	
ISPM 30 Establishment of areas of low pest prevalence for fruit flies (Tephritidae)			x	x				
ISPM 31 Methodologies for sampling of consignments			x		x			
Comments/Constraints								

III. SURVEILLANCE, PEST OUTBREAKS AND INVASIVE SPECIES MANAGEMENT

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

Web source for further information: –

(regarding invasive/migratory species management)	Yes	No	Don't know
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:			
List of legislation/regulations/rules for surveillance, pest reporting and emergency actions: Presidential Decree 936			
Web source for further information: www.da.gov.ph			

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
<i>Field Pest Outbreaks</i>	(e.g. BPH, bollworm, etc.)
Response strategy/plans	DA-RFU'S, PhilRice, DA, BPI
Surveillance	CPD-BPI, DA, RCPC
Control	CPD-BPI, PhilRice, CDA, LGU'S
<i>Migratory Pest Outbreaks</i>	(e.g. locusts, birds, armyworm)
Response strategy/plans	CPD-BPI, DA-RCPC, LGU'S
Surveillance	CPD-BPI, DA-RFU'S, LGU'S
Control	DA-RCPC, CPD-BPI, PhilRice
<i>New Exotic Pest Eradication</i>	(e.g. coconut beetle)
Response strategy/plans	PCA, CPD-BPI, DA-KASAKALIKASAN, LGU'S
Surveillance	CPD-BPI, PCA
Control/eradication	PCA, CPD-BPI, DA-KASAKALIKASAN
Reporting to international organizations	BPI-CPD, PQS, NCPC

Infrastructure	Years: 2007-2008
Number of designated staff for surveillance and control of field pests of national importance	17 plus 16 RCPC's
Number of designated staff for surveillance and control of migratory and periodically occurring pests	15 plus 16 RCPC's
Number of designated staff for surveillance and eradication of invasive species	15 plus 16 RCPC's

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 2007:		2	
Total number for year 2008:			
Total number on record			

Eradication or internal quarantine actions taken against economically important species			
Name of species	Brontispa longissima	Stenocranus pacificus corn plant hopper	
Year of first discovery	2004	2003	
Location of first discovery	Luzon, Visayas, Mindanao	Whole Mindanao Region and Bicol Region	
Area affected [ha]			
Area treated by government [ha]			
Control method		Biological, cultural, chemical	

National Brontispa action team was set up in 2004.

Pest outbreak actions	Outbreak 1	Outbreak 2	Outbreak 3
Name of species	CPH	Brontispa, coconut leaf beetle	
Year of outbreak	2003	2004	
Area affected [ha]	Mindanao, Bicol Region	Luzon, Visayas, Mindanao	
Estimated damage US\$			
Area treated by government [ha]			
Expenditures by government [US\$]			
Control method	Biological, physical, cultural/chemical		
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

List of Key Legislation/Regulations/Rules for Pest Management

Web source for further information: –

(regarding pest management)	Yes	No	Don't know
Do you have policies encouraging organic or low-pesticide 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.)			
List of legislation/regulations/rules for pest management: PD 936			
Web source for further information: www.da.gov.ph			

Organization of Plant Protection Functions	Responsible Organizational Unit (Ministry/Department/Unit)
Policy development	Department of Agriculture
Pest management research	BAR/SCU's/BPI/NCPC
Control recommendations	RFU's/BPI/LGU's
Pest management extension	Crop Protection Division BPI/NCPC-UPLB/LGU's
IPM training	DA-KASAKALIKASAN, RFU's, LGU's
GAP training	DA-RFU's/LGU's/BPI

Infrastructure	Years: 2007-2008
Number of technical officers for pest management	
Number of central, regional, provincial or state offices	16
Number of district and village level field offices	11 Regions/77 provinces
Number of field/extension agents for pest management advice	
Number of field/extension agents trained in IPM-FFS facilitation	6 184 IPM-FFS facilities
Number of government biocontrol labs	47
Number of government biopesticide labs	17
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	Don't know
Does the country have a National IPM Programme? <i>If yes, give Name and Address of IPM Programme:</i> KASAKALIKASAN, Department of Agriculture, Elliptical Rd. Diliman, Quezon City, Philippines	x		
Does the country have special IPM extension programmes? <i>If yes, in which crops?:</i> Rice, corn, vegetables, abaca, coconut, banana, citrus, cotton, IPM for individual pest	x		

Does the country have special IPM research programmes? <i>If yes, in which crops?:</i> Rice, corn, vegetables, cotton, banana, abaca,	x		
Does the country have specific GAP extension programmes? <i>If yes, in which crops?:</i>			
Does the country have specific GAP research programmes? <i>If yes, in which crops?:</i>			

Market shares (estimated value, volume or area under control)	Years: 2007-2008
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
Name(s) of pest(s)			
Estimated crop loss			
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	Years: 2007-2008
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]	
Crops in which successful IPM technologies are implemented: rice, corn, vegetables, mango, cotton, locust	
Area under organic/pesticide-free management [ha]	
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 2008

List of Key Legislation/Regulations/Rules

Presidential Degree No. 114

Letter of Instruction No. 986

Magna Carta Act for Small farmers

Consumer Act of the Philippines.

Web source for further information: –

(regarding pesticide management)	Yes	No	Don't know
Do you have national pesticide reduction targets? <i>If yes, what is the target: _____</i>			
Have you ratified the Rotterdam (PIC) Convention?			
Have you ratified the Stockholm (POP) Convention?			
Have you ratified the Basel Convention? (hazardous wastes)			
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)?			
<i>Pesticide Registration</i>			
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 labeling?			
Do you accept evaluation results from other countries?			
Do you accept field studies conducted in other countries?			
Do you require environmental fate studies?			
<i>Incentives/Disincentives</i>			
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	DA/BPI/FPA
Registration	DA/FPA
Licensing of shops	DA/FPA
Licensing of applicators	DA/FPA
Enforcement/inspections	BPI-PQS
Testing of pesticide efficacy	NCPC
Development of pesticide use recommendations	FPA
Safe use training/extension	DA/FPA
Food residue monitoring	BFAD/BPI-NPAL
Environmental monitoring	DENR
Health monitoring	DOH
<i>Other Stakeholders:</i>	
Pesticide Industry Association	Crop Life Philippines, Philippine Manufacturing Association
Civil Society Organizations	

Infrastructure	Years: 2007-2008
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	US\$ '000 Value
Imports	31 735 (formulated)	
Pesticide Use Profile:	Tons (active ingredient)	US\$ '000 Value
Agriculture	22 470	
Insecticides	32%	
Fungicides	33%	
Herbicides	34%	
Other purposes	9 265	
TOTAL	31 735	

Post Registration Monitoring

Testing, Quality Control and Effects in the Field	Yes	No	Don't know
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			
Source for more information: –			

Health and Environmental Information	Yes	No	Don't know
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	Don't know
Do you have services 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	
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	Years: 2007-2008	
	a.i.*	Trade Name
Number of registered pesticide products		
Number of registered biopesticides		
Number of restricted-use pesticides		
Number of banned pesticides	28	
Number of licensed outlets		
Number of licensed applicators		
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

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 2008

Genetically Modified Crops	
Name of GMO Crop	Area under Cultivation [ha]
1. Bt corn (MON810)	130 839
2. Bt corn (Bt11)	7 422
3. RR corn (NK603)	138 690
4. Stacked Corn (MON810 × NK603)	86 087

BUREAU OF PLANT INDUSTRY
Plant Quarantine Service Central Office
Work and Financial Plan (2009)

(Unit: Peso)

Plans/Programs/Activities	Key Indicators	Target				Budgetary Allocation				Total	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Regulatory Services											
Enforcement of Plant Quarantine laws, rules & regulations											
A. Responsive PQ Rules and Regulations											
A.1 Issuance of PQ Rules and Regulations	# of PQ Rules and Regulations issued	1	1	1	1	37 500	37 500	37 500	37 500	150 000	
A.2 Updating/Revising Administrative/Memo Orders	# of updated Administrative/Memo Orders	2	2	2	2	12 500	12 500	5 000	5 000	50 000	
A.3 Technical Meetings	# of technical meetings conducted	1	2	1	2	45 000	45 000	45 000	45 000	180 000	
A.4 Public/Stakeholders Consultation	# of Public/stakeholders consultation	1	1	1	1	60 000	120 000	60 000	60 000	300 000	
A.5 Conduct of PRA	# of PRA conducted					75 000	75 000	75 000	75 000	300 000	
I. Initiation						35 000	35 000	35 000	35 000	140 000	
II. Risk Assessment						15 000	15 000	15 000	15 000	60 000	
III. Risk Management											
A.6 Meeting of PQ Board	# of meetings conducted	1	1	1	1	171 900	171 900	171 900	171 900	687 600	
A.7 ManCom Meeting	# of meetings conducted	1	1	1	1	59 400	59 400	59 400	59 400	237 600	
						5 000	5 000	5 000	5 000	20 000	
						100 000	100 000	100 000	100 000	400 000	
						30 000	30 000	30 000	30 000	90 000	
						17 500	17 500	17 500	17 500	52 500	
						57 000	57 000	57 000	57 000	228 000	
						25 000	25 000	25 000	25 000	100 000	
						25 000	25 000	25 000	25 000	100 000	
B. Functional Laboratory											
B.1 Upgrading of Laboratory Facilities	# of laboratory facilities upgraded	1	1	1	1	139 200	139 200	139 200	139 200	556 800	
B.2 Upgrading of Laboratory Equipment	# of laboratory equipment upgraded	3	2			400 000	200 000			600 000	
						280 000	240 000			520 000	
B.3 Development and Printing of Laboratory Protocols	# of laboratory protocols developed	1	1	1	1	62 500	62 500	62 500	62 500	250 000	
						12 500	12 500	12 500	12 500	50 000	
						60 000	60 000	60 000	60 000	240 000	
						15 000	15 000	15 000	15 000	60 000	

Plans/Programs/Activities	Key Indicators	Target				Budgetary Allocation				Total	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
C. Technically equipped Personnel											
C.1 Trainings and Workshops											
I. International	# of International trainings attended	3	3	3	3	275 000	275 000	275 000	275 000	1 100 000	
II. Local	# of local trainings attended	3	2	6	3	25 000	25 000	80 000	40 000	180 000	
						60 000	50 000	100 000	60 000	270 000	
						35 000	30 000	50 000	35 000	150 000	
						400 000	200 000	800 000	400 000	1 800 000	
						7 000	3 000	13 000	7 000	30 000	
						45 000	30 000	80 000	45 000	200 000	
						18 000	9 000	35 000	18 000	80 000	
> Midyear Review				1				400 000		400 000	
> Year-end review		1				400 000				400 000	
C.2 Deputation Training for BPI & Non-BPI Staff	# of trainings for BPI & Non-BPI Staff	1			1	25 000			25 000	50 000	
						25 000			25 000	50 000	
						568 000				568 000	
C.3 Purchase of Publication and References	# of publications and references bought	2		3		50 000		100 000		150 000	
D. Support Facilities/Equipment											
D.1 Repair of VHT mini chamber	# of VHT repaired	1		1		100 000		100 000		200 000	
D.2 Improvement of facilities/equipments	# of VHT facilities/equipments improved		1		1		30 000		30 000	60 000	
							450 000		450 000	900 000	
E. Accreditation and Registration System											
E.1 Importers											
I. Accreditation of Importers	# of importers accredited	9	9	12	9	43 000	43 000	71 000	43 000	200 000	
						9 000	9 000	13 000	9 000	40 000	
						112 800	112 800	112 800	112 800	451 200	
II. Accreditation of Treatment Providers	# of treatment providers accredited	4	3	3	3	35 000	15 000	15 000	15 000	80 000	
						40 000	20 000	20 000	20 000	100 000	
						16 000	8 000	8 000	8 000	40 000	
III. Accreditation of Facilities and Farms	# of facilities and farms accredited	2	2	2	2	5 000	5 000	5 000	5 000	20 000	
						15 000	15 000	15 000	15 000	60 000	

Plans/Programs/Activities	Key Indicators	Target				Budgetary Allocation						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Total		
E.2 Exporters												
I. Accreditation of Exporters	# of accredited exporters		12	12				45 000	45 000			90 000
II. Accreditation of Farmers	# of accredited farmers		144	144				75 000	75 000			150 000
III. Accreditation of Farms	# of accredited farms		200	200				100 000	100 000			200 000
E.3 AFAS Accreditation/Registration												
I. Fumigation Training for AFAS Implementation	# of trainings	1	1	1		200 000		200 000				400 000
II. Training of Fumigation Technician & PQ Officer	# of trainings	1		1		50 000			50 000			100 000
III. Registration of Treatment Providers	# of treatment providers registered	1		1		30 000		30 000				60 000
IV. Accreditation of fumigation sites	# of fumigation sites accredited	1	1	1		15 000	15 000	15 000	15 000			60 000
						15 000	15 000	15 000	15 000			60 000
F. Surveillance of Quarantine Pests												
F.1 Brontispa	# of areas monitored		7	7	5		150 000	150 000	100 000			400 000
F.2 Oil Palm Virus	# of areas monitored	1	2	1	1	60 000	110 000	60 000	60 000			290 000
F.3 Fruitfly	# of survey conducted	2	1	1	1	50 000	90 000	50 000	50 000			240 000
						210 000	130 000	130 000	130 000			600 000
						120 000	60 000	60 000	60 000			300 000
						120 000	60 000	60 000	60 000			300 000
						50 000	50 000	50 000	50 000			200 000
G. Opening of New Export Market												
G.1 Bilateral Agreements	# of bilateral agreements formulated	1		1		10 000			10 000			20 000
G.2 Multilateral Agreements	# of multilateral agreements formulated		1	1			10 000	10 000				20 000
G.3 Development of new protocols	# of protocols developed		1	1			10 000	10 000	10 000			20 000
							10 000	10 000	10 000			20 000
H. Stakeholders Involvement												
H.1 Stakeholders meeting	# of stakeholders meeting conducted	1	1	1	1	12 500	12 500	12 500	12 500			50 000
						37 500	37 500	37 500	37 500			150 000

Plans/Programs/Activities	Key Indicators	Target				Budgetary Allocation					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Total	
E.2 Exporters											
I. Accreditation of Exporters	# of accredited exporters		12		12			45 000		45 000	90 000
II. Accreditation of Farmers	# of accredited farmers			144	144			75 000		75 000	150 000
III. Accreditation of Farms	# of accredited farms			200	200			25 000		25 000	50 000
III. Accreditation of Farms	# of accredited farms			200	200			100 000		100 000	200 000
E.3 AFAS Accreditation/Registration											
I. Fumigation Training for AFAS Implementation	# of trainings	1		1		200 000		200 000			400 000
II. Training of Fumigation Technician & PQ Officer	# of trainings	1			1	50 000			50 000		100 000
III. Registration of Treatment Providers	# of treatment providers registered	1		1		30 000		30 000			60 000
IV. Accreditation of fumigation sites	# of fumigation sites accredited	1	1	1	1	20 000		20 000			40 000
		1	1	1	1	15 000	15 000	15 000	15 000	15 000	60 000
						15 000	15 000	15 000	15 000	15 000	60 000
F. Surveillance of Quarantine Pests											
F.1 Brontispa	# of areas monitored		7	7	5			150 000		150 000	400 000
F.2 Oil Palm Virus	# of areas monitored	1	2	1	1	60 000		60 000		60 000	290 000
F.3 Fruitfly	# of survey conducted	2	1	1	1	50 000		90 000		50 000	240 000
						210 000		130 000		130 000	600 000
						120 000		60 000		60 000	300 000
						120 000		60 000		60 000	300 000
						50 000		50 000		50 000	200 000
G. Opening of New Export Market											
G.1 Bilateral Agreements	# of bilateral agreements formulated	1			1	10 000				10 000	20 000
G.2 Multilateral Agreements	# of multilateral agreements formulated		1	1			10 000	10 000			20 000
G.3 Development of new protocols	# of protocols developed		1	1	1		10 000			10 000	20 000
							10 000			10 000	20 000
H. Stakeholders Involvement											
H.1 Stakeholders meeting	# of stakeholders meeting conducted	1	1	1	1	12 500	12 500	12 500	12 500	12 500	50 000
						37 500	37 500	37 500	37 500	37 500	150 000

Plans/Programs/Activities	Key Indicators	Target				Budgetary Allocation				Total	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
B. EXPORT											
1. Issuance of Phytosanitary Permits Issued (pcs)	# of Phytosanitary Permits issued	850	1 200	400	200	60 000	30 000	70 000	40 000	200 000	400 000
2. Commodity Inspected											
a. Plants (pcs)	# of plants inspected	300	200	300	150	25 000	20 000	25 000	10 000	80 000	80 000
b. Plants (mt)	Volume of plants inspected	0.01	0.01	0.01	0.01	1 000	1 000	1 000	1 000	4 000	4 000
c. Plant Products (pcs)	# of plant products inspected	10	10	20	10	3 000	3 000	3 500	3 000	12 500	12 500
d. Plant Products (mt)	Volume of plant products inspected	0.002	0.002	0.002	0.001	1 500	1 500	1 500	1 000	5 500	5 500
e. Planting Materials (pcs)	# of planting materials inspected	100	100	150	150	1 000	1 000	1 500	1 500	5 000	5 000
f. Planting Materials (mt)	Volume of plant materials inspected	0.001	0.001	0.001	0.002	1 500	1 500	1 500	2 000	6 500	6 500
g. Seeds (mt)	Volume of grains and seeds for feeds	0.01	0.01	0.01	0.01	2 000	2 000	2 000	2 000	8 000	8 000
h. Others	# of potential pests, etc. inspected	20	20	25	30	2 000	2 000	2 500	3 000	9 500	9 500
C. DOMESTIC											
1. Number of Domestic Permit issued		16	14	20	12	2 000	1 500	2 000	1 000	6 500	6 500
2. Commodity Inspected											
a. Plants (pcs)	# of plants inspected	150	175	175	150	1 000	1 500	1 500	1 000	5 000	5 000
b. Plant Products (pcs)	# of plant products inspected	5 000	5 000	10 000	5 000	1 000	1 000	2 000	1 000	5 000	5 000
c. Planting Materials (pcs)	# of planting materials inspected	5 000	5 000	10 000	5 000	1 000	1 000	2 000	1 000	5 000	5 000
d. Planting Materials (mt)	Volume of plant materials inspected	1 000	1 000	2 000	1 500	1 000	1 000	2 000	1 500	5 500	5 500
										21 995 600	21 995 600