

Quarantine Requirements for The Importation of Apples from Countries or Districts Where The Codling Moth Is Known to Occur

(In case of any discrepancy between the Chinese text and the English translation thereof, the Chinese text shall govern.)

Promulgated by COA on April 22, 1999 Amended by COA on March 27, 2008 and August 3, 2010

The importation of fresh host fruits from countries or districts where the codling moth is known to occur shall be regulated pursuant to the “Quarantine Requirements for The Importation of Plants or Plant Products into The Republic of China — B. Quarantine Requirements for Enterable Plants or Plant Products under Precautionary Requirements.” For the importation of apples from the aforementioned area, additional provisions in either section A or B shall be followed. These provisions may be subject to amendment when necessary.

Section A: Implementations of system approach

1. Requirements for supplying orchards

- 1.1 Supplying orchards shall run proper pest management under the supervision of the plant protection authorities of the exporting country.
- 1.2 Codling moth sex pheromone traps approved by Bureau of Animal and Plant Health Inspection and Quarantine (BAPHIQ hereinafter) shall be installed in the fields of supplying orchards before apple trees reach their full bloom stage. One trap per hectare is required for orchards less than 8 hectares. An additional trap is required for every 2 additional hectares if an orchard exceeds 8 hectares. Traps must be checked at least once every two weeks to detect the presence of codling moth. If it is detected that the population density of codling moths reaches 3 or more moths per trap per week, effective control measures shall be taken immediately. Pheromone lure must be renewed constantly. Complete records of monitoring and control must be kept for inspection. If no sex pheromone trap is placed in the orchards, effective pest control measures shall be continuously taken to prevent the infestation of codling moth. Complete records of pest control must be kept for inspection.
- 1.3 Within 500 meters of the supplying orchards, if there is any host plant of the codling moth including apples, pears, peaches, apricots, quinces, plums, cherries, walnuts, nectarines and pomegranates, which is poorly managed or without pesticide control against codling moth, sex pheromone traps must be set up as stated in paragraph 1.2. If it is detected that the population of codling moth reaches the aforementioned density level, effective control measures shall be taken. Complete records of monitoring and control must be kept for inspection. If no sex pheromone trap is placed in the orchards, effective pest control measures shall be taken to prevent the infestation of codling moth. Complete records of the pest control must be kept for inspection.
- 1.4 Supplying orchards in compliance with the aforementioned requirements should be

registered at the plant quarantine authority of the exporting country and given registration codes. Lists of registration code number, along with the suppliers' names and addresses must be provided to the plant quarantine inspectors of the BAPHIQ for verification.

2. Requirements for cold storage warehouses

- 2.1 Cold storage warehouses must be legitimate warehouses registered at the plant quarantine authorities of the exporting country.
- 2.2 All the fruits stored in the cold storage warehouse must come from the registered supplying orchards. If fresh fruits from non-approved orchards are to be stored in the same warehouse, complete separation from those fruits from supplying orchards is required.
- 2.3 Cold storage warehouses in compliance with the aforementioned conditions must be registered by the plant quarantine authority of the exporting country, and a list of the warehouses with registered codes must be provided to BAPHIQ.

3. Requirements and procedures for on-site inspections

3.1 Prerequisite requirements

Two months prior to the harvest of the fruits, the plant quarantine authority of the exporting country must formally invite BAPHIQ to send quarantine inspectors to conduct on-site inspection at the production areas jointly with inspectors of the exporting country. All the necessary expenses for the quarantine inspectors of BAPHIQ shall be borne by the exporting country. Along with the formal letter of invitation, the exporting country shall send the registered data including the supplying orchards, packinghouses, and cold storage warehouses to BAPHIQ. BAPHIQ may dispatch quarantine inspectors to the exporting country to perform the inspections and verification of the orchard, packinghouses and cold storage warehouses.

3.2 Special requirements

3.2.1 Inspection of supplying orchards

Plant quarantine inspectors of the exporting country shall inspect supplying orchards every year to ensure that all aforementioned requirements are met. BAPHIQ may send quarantine inspectors to conduct joint inspection.

3.2.2 Inspection of packing materials and packinghouses

Packing materials and packinghouses for fresh fruits from the exporting countries shall meet the following requirements:

3.2.2.1 The packinghouses must be legally registered at the exporting country.

3.2.2.2 Before the packing season, packinghouses shall be inspected by the inspectors of the exporting country to ensure that all requirements are met. BAPHIQ may send quarantine inspectors to conduct joint inspection.

3.2.2.3 Fresh fruits processed in the packinghouses shall come from supplying orchards and cold storage warehouses approved by the BAPHIQ.

3.2.2.4 Requirements for packing materials

If fruit packages have ventilation holes, they shall be either covered with screen of no more than 1.6 mm fine meshes, or transported by closed container or vehicle to prevent incursion of pests.

3.2.2.5 Requirements for packinghouses

3.2.2.5.1 The packinghouses shall be equipped with insect-proof equipments. Windows or ventilation holes must be covered with screen of no more than 1.6 mm fine meshes. Entrances or doors shall be equipped with air curtains, rubber curtains, or other insect-proof equipment.

3.2.2.5.2 Packinghouses must be equipped with sorting apparatus and sufficient lights for conducting inspection.

3.2.2.5.3 Packinghouses shall have plant protection specialists to assist in quarantine inspection.

3.2.2.5.4 Packinghouses shall provide adequate apparatuses and equipments to facilitate inspectors to conduct inspections, pest identification and other relevant works.

3.2.2.5.5 Before the packing season, appropriate pest control measures shall be taken to disinfest live plant pests inside the packinghouse. If necessary, pest control measures shall also be undertaken during season to ensure pest-free status in the packinghouse.

3.2.2.5.6 Fresh fruits shall be sorted at least twice before packing by technicians who have plant pest control training to remove all the

deformed or damaged fruits. Culled fruits shall be placed in closed containers and removed from the packinghouses daily.

3.2.2.5.7 Packinghouses meeting the aforementioned requirements shall be registered by the plant quarantine authority of the exporting country. The exporting country shall provide the list of packinghouses with their registered codes to the BAPHIQ.

3.2.2.5.8 Measures shall be taken to prevent infestation of pests for packed fruits during transportation from the packinghouses to aircrafts, vessels or containers.

4. Export inspection requirements

4.1 Prerequisite requirements

Two months prior to the export of fruits to Taiwan, the plant quarantine authority of the exporting country shall formally invite BAPHIQ to send quarantine inspectors to conduct joint inspection with inspectors of the exporting country, BAPHIQ may dispatch quarantine inspectors to conduct inspection. All necessary expenses for the BAPHIQ inspector shall be borne by the exporting country.

4.2 Sampling requirements

At least 2% of the packages in a given lot must be sampled for inspection. A minimum of 50 fruits from each sampled packages must be inspected, and at least one fruit from each sampled package must be cut open and examined. Inspection frequency shall be increased if necessary.

4.3 If codling moth or other quarantine pests are found during inspection, the lot shall be rejected and re-inspection is not allowed. If any living codling moth is found during inspection, the supplying orchards and packinghouses shall be suspended from exporting until the plant quarantine authority of the exporting country clarifies the cause of the situation and approval for export is granted by the BAPHIQ.

4.4 The fruits which pass quarantine inspection shall be accompanied with phytosanitary certificate issued by the plant quarantine authority of the exporting country, with additional declaration stating that the fruits have been inspected and found free of codling moth and other quarantine pests designated by Taiwan, as well as an official quarantine stamp, the inspection date and the code numbers of packinghouses, and supplying orchards.

- 4.5 The packages and containers shall be clearly marked with the code numbers of packinghouses and supplying orchards.
- 4.6 Fresh fruit consignments shall not transit through other countries or districts where the codling moth or other designated quarantine pests are known to occur. If the transshipment is necessary, the “Quarantine Requirements for Transshipment of Plants or Plant Products through Countries or Districts Where The Quarantine Pests are Known to Occur” shall be followed.
- 4.7 During shipping and upon arrival, the lock of the ship’s compartment or seal of the container shall not be unlocked or broken before the BAPHIQ quarantine inspectors are on site.

5. Import inspection

- 5.1 The phytosanitary certificate with the additional declaration issued by the exporting country shall be in compliance with the aforementioned quarantine requirements.
- 5.2 Procedures, methods, and sampling for import inspection shall follow the “Enforcement Rules on The Plant Protection and Quarantine Act” and other quarantine regulations.
- 5.3 If the consignment is not accompanied with the phytosanitary certificate issued by the exporting country, or it fails to comply with the quarantine requirements, the consignment shall be denied entry.
- 5.4 If any living codling moth is found during inspection, the consignment shall be destroyed or reshipped. BAPHIQ will notify the exporting country immediately to suspend further export. Export will be resumed only after the cause of infestation is clarified and reported to the BAPHIQ, and approval is granted by the BAPHIQ. However, exports from the supplying orchard from which the infested fruits were produced will be suspended for rest of the season and registration of the packinghouse handle the consignment will be revoked.
- 5.5 If any other plant pest of quarantine significance occurs in the exporting country, and it poses risks to the production safety of agricultural in Taiwan, the importation will be suspended by the BAPHIQ at any time.

Section B: Requirements for Fumigation Treatment

1. Requirements for fumigation chambers

1.1 Fumigation chambers shall be legitimate chambers and registered at the plant quarantine authority of the exporting country.

1.2 Requirements for construction of fumigation chambers

1.2.1 External structure

1.2.1.1 The chamber (including floor) shall be air-tight and capable of preventing leakage of fumigant.

1.2.1.2 The chamber shall be equipped with doors, ventilation holes and exhaust devices.

1.2.1.3 The chamber shall be equipped with instrument that can measure gas concentration and temperature inside the chamber.

1.2.2 Internal structure

1.2.2.1 All the walls inside the chamber shall be coated with paint not absorbing the fumigant.

1.2.2.2 The chamber shall be equipped with an air circulation system to accelerate circulation of fumigant.

1.2.2.3 The chamber shall be equipped with ventilation and exhaust system to efficiently exhaust gas after fumigation.

1.2.2.4 The chamber must be installed with a temperature control device.

1.2.3 Other requirements

1.2.3.1 The concentration of methyl bromide shall be 70% or higher after 48 hours from application of 10g methyl bromide per cubic meter.

1.2.3.2 At least one copper pipe or plastic duct shall be installed to connect inside and outside of the chamber for applying gas fumigants.

1.2.3.3 First aid kit, antidotes, gas masks, and fire extinguishers shall be equipped and available on site.

1.2.3.4 The chamber shall be installed with humidity detectors and gas concentration detectors.

1.2.3.5 The chamber shall have adequate lighting.

1.2.3.6 The chamber shall be installed with gas leakage detectors.

1.2.3.7 At least one licensed and experienced technician in chemical application shall be posted.

1.3 Fumigation chambers meeting the aforementioned requirements shall be registered at the plant quarantine authority of the exporting country, the list with registration codes for the fumigation chambers shall be provided to BAPHIQ every year.

1.4 Prior to fumigation operation every year, the plant quarantine authority of the exporting country shall verify the fulfillment of air-tight requirements for the fumigation chambers. BAPHIQ may dispatch a quarantine inspector to conduct joint verification. If a chamber fails to meet the requirements as aforementioned, its approval will be revoked.

1.5 Two months prior to the export season, the plant quarantine authority of the exporting country shall formally invite the BAPHIQ to send quarantine inspectors to conduct verification with inspectors of the exporting country. All the necessary expenses for the BAPHIQ inspectors shall be borne by the exporting country.

2. Standards for Fumigation Treatment

Fruit	Treatment Conditions				
	Temperature °C	Methyl Bromide dosage (g/m ³)	Duration (Hours)	Pressure	Note

Apple	Above 22	32	2	Normal atmospheric pressure	If fumigation is applied after packing of fruits, the duration of fumigation shall be 2.5 hours.
	17-21.5	40	2		
	12-16.5	48	2		
	6-11.5	64	2		

The fumigation treatment must be conducted in fumigation chambers approved by BAPHIQ. During fumigation, the plant quarantine authority of the exporting country shall assign quarantine inspectors to supervise and to record the entire process. The condition of fumigation shall be stated in the additional declaration of the phytosanitary certificates.

3. Requirements for packing

3.1 Prerequisite requirements:

Two months prior to the harvest of fruits, the plant quarantine authority of the exporting country shall formally invite BAPHIQ to send quarantine inspectors to conduct on site inspection of the packinghouses jointly with inspectors of the exporting country. All the necessary expenses for BAPHIQ inspectors shall be borne by the exporting country. Along with the formal letter of invitation, the exporting country shall send the list of packinghouses to the BAPHIQ. BAPHIQ may dispatch quarantine inspectors to the exporting country to conduct the inspection.

3.2 Requirements for packing process

Packing materials and packinghouses for fresh fruits from the exporting countries shall meet the following requirements:

3.2.1 The packinghouses must be legally registered at the plant quarantine authority of the exporting country.

3.2.2 Before the packing season, packinghouses shall be inspected by the inspectors of the exporting country to ensure that all requirements are met. BAPHIQ may send quarantine inspectors to conduct joint inspection.

3.2.3 Fresh fruits processed in the packinghouses shall be treated the fumigation chambers approved by the BAPHIQ.

3.2.4 If fruit packages have ventilation holes, they shall be either covered with screen of

no more than 1.6mm fine meshes, or transported by closed container or vehicle to prevent incursion of pests.

3.2.5 Requirements for packinghouses

3.2.5.1 The packinghouses shall be equipped with insect-proof equipment. Windows and ventilation holes shall be covered with screen of no more than 1.6mm fine meshes. Entrances and doors shall be equipped with air curtains, rubber curtains, or other insect-proof equipment.

3.2.5.2 Packinghouses must be equipped with sorting apparatus and sufficient lights for conducting inspections.

3.2.5.3 Packinghouses shall have plant protection specialists to assist in quarantine inspections.

3.2.5.4 Packinghouses shall provide adequate apparatuses and equipments to facilitate inspectors to conduct inspections, pest identification and other relevant works.

3.2.5.5 Before the packing season, appropriate pest control measures shall be taken to disinfect live plant pests inside the packinghouse. If necessary, pest control measures shall be undertaken during season to ensure pest-free status of the packinghouse.

3.2.6 Packinghouses meeting the aforementioned requirements shall be registered by the plant quarantine authority of the exporting country. The exporting country shall provide the list of packinghouses with their codes to BAPHIQ.

3.2.7 Measures shall be taken to prevent re-infestation of pests when packed fruits are shipped from the packinghouses to aircrafts, vessels, or containers.

4. Requirements for transportation

4.1 Pest control measures shall be taken to prevent infestation of codling moth and other pests when treated fruits transported from fumigation chambers to aircrafts, vessels, or containers.

4.2 Fresh fruit consignments shall not transit through other countries or districts where the

codling moth or other designated quarantine pests are known to occur. If the transshipment is necessary, the “Quarantine Requirements for Transshipment of Plants or Plant Products through Countries or Districts Where The Quarantine Pests Are known to Occur” shall be followed.

- 4.3 The treated fruits shall not be mixed with other untreated fresh fruits or articles in the same compartment of a ship or same container during shipping.
- 4.4 During shipping and upon arrival, the lock of the ship’s compartment or the seal of the container shall not be unlocked or broken before the BAPHIQ quarantine inspectors are on site.

5. Export Inspection Procedure

5.1 Prerequisite requirements

Two months prior to the export of fruits to Taiwan, the plant quarantine authority of the exporting country shall formally invite the BAPHIQ to send quarantine inspectors to jointly perform export inspections with inspectors of the exporting country, and the BAPHIQ may dispatch quarantine inspectors to perform the inspections. All necessary expenses for the BAPHIQ inspectors shall be borne by the exporting country. The fees shall be received by the BAPHIQ two months before exportation.

5.2 Sampling requirements

At least 2% of the packages in a given lot must be sampled for inspection. A minimum of 50 fruits from each sampled packages must be inspected, and at least one fruit from each sampled package must be cut open and examined. Inspection frequency shall be increased if necessary.

- 5.3 If codling moth or other quarantine pests are found during inspection, the lot shall be rejected and re-inspection is not allowed. If any living codling moth is found during inspection, the fumigation chambers and packinghouses shall be suspended from exporting the fruits until the authority of the exporting country clarifies the cause of the situation, and approval for export is granted by the BAPHIQ.

- 5.4 The fruits which pass quarantine inspection shall be accompanied with phytosanitary certificate issued by the plant quarantine authority of the exporting country, with additional declaration stating that the fruits have been inspected and found free of codling moth and other quarantine pests designated by Taiwan, as well as an official quarantine

stamp, the inspection date, and the code numbers of fumigation chambers and packinghouses.

- 5.5 The packages and containers shall be clearly marked with the words “To Taiwan, R.O.C”, and the code numbers of fumigation chambers and packinghouses.
- 5.6 Fresh fruit consignments shall not transit through other countries or districts where the codling moth or other designated quarantine pests are known to occur. If the transshipment is necessary, the “Quarantine Requirements for Transshipment of Plants or Plant Products through Countries or Districts Where The Quarantine Pests are Known to Occur” shall be followed.
- 5.7 During shipping and upon arrival, the lock of the ship’s compartment or the seal of the container shall not be unlocked or broken before the BAPHIQ quarantine inspectors are on site.

6. Import Inspection

- 6.1 The phytosanitary certificate with the additional declaration issued by the exporting country shall be in compliance with the aforementioned quarantine requirements.
- 6.2 Procedures, methods, and sampling for import inspection shall follow the “Enforcement Rules on The Plant Protection and Quarantine Act” and other quarantine regulations.
- 6.3 If the consignment is not accompanied with the phytosanitary certificate issued by the exporting country, or it fails to comply with the quarantine requirements, the consignment shall be denied entry.
- 6.4 If any living codling moth is found during inspection, the consignment shall be destroyed or reshipped. BAPHIQ will notify the exporting country immediately to suspend further export. Export will be resumed only after the cause of infestation is clarified and reported to the BAPHIQ, and approval is granted by the BAPHIQ. However, exports from the fumigation chambers concerned will be suspended for rest of the season and the registration of the fumigation chamber, which carries out fumigation for the consignment will be revoked.
- 6.5 Fruits deteriorated after treatment are not allowed to be imported.