



United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Plant Protection and Quarantine



## **Work Plan**

**Importation of fresh fruit of Chinese Sand Pear, *Pyrus pyrifolia*, from China, including the special administrative regions of Hong Kong and Macau, into the entire United States, including all territories.**

**September 27, 2012**

## I. DEFINITIONS

### A. Products Being Exported

Fresh sand pear, *Pyrus pyrifolia*, from China, including the special administrative regions of Hong Kong and Macau, into the entire United States, including all territories

### B. Pests and Organisms of Concern

The following plant pests are of quarantine significance. This list is not considered all inclusive. All pests intercepted during the inspection process must be identified so that correct quarantine action can be conducted.

1. *Acrobasis pyrivorella* (Matsumura) (Lepidoptera: Pyralidae)
2. *Alternaria gaisen* Nagano (Ascomycetes: Pleosporales)
3. *Amphitetranychus viennensis* (Zacher) (Acari: Tetranychidae)
4. *Aphanostigma iaksuiense* (Kishida) (Hemiptera: Phylloxeridae)
5. *Bactrocera dorsalis* (Hendel) (Diptera: Tephritidae)
6. *Calepitrimerus neimongolensis* Kuang and Geng (Acari: Eriophyidae)
7. *Carposina sasakii* Matsumura (Lepidoptera: Carposinidae)
8. *Ceroplastes japonicus* Green (Hemiptera: Coccidae)
9. *Ceroplastes rubens* Maskell (Hemiptera: Coccidae)
10. *Conogethes punctiferalis* (Guenée) (Lepidoptera: Pyralidae)
11. *Guignardia pyricola* (Nose) W. Yamam. (Ascomycetes: Dothideales)
12. *Grapholita inopinata* (Heinrich) (Lepidoptera: Tortricidae)
13. *Monilinia fructigena* Honey in Whetzel (Ascomycetes: Helotiales)
14. *Phenacoccus pergandei* Cockerell (Hemiptera: Pseudococcidae)
15. *Planococcus kraunhiae* (Kuwana) (Hemiptera: Pseudococcidae)
16. *Venturia nashicola* S. Tanaka & S. Yamam. (Ascomycetes: Pleosporales)

In Asia, *Bactrocera dorsalis* is not found north of the 33<sup>rd</sup> parallel (EPPO, 1997). A risk mitigation document (USDA, 2007), provides justification on the removal of fruit fly trapping and the cold treatment requirement for importation of Ya pear (*Pyrus bretschneideri*) fruit from China into the United States. The current PRA, "Importation of fresh fruit of Chinese Sand pear, *Pyrus pyrifolia*, from China, including the special administrative regions of Hong Kong and Macau, into the entire United States, including all the Territories" (USDA, 2009) includes areas both north and south of the 33<sup>rd</sup> parallel. Due to the presence of *Bactrocera dorsalis*, south of the 33<sup>rd</sup> parallel, orchards located below the 33<sup>rd</sup> parallel that export Sand pears to the United States will be required to follow additional mitigation measures.

### C. Participating Organizations

1. The U.S. Department of Agriculture, Animal and Plant Health Inspection Service (USDA-APHIS) (hereinafter known as APHIS).
2. The General Administration of Quality Supervision, Inspections and Quarantine (hereinafter known as AQSIQ) of The People's Republic of China and the entry and exit inspection and quarantine bodies (hereinafter known as CIQ).

## **II. REGULATIONS GOVERNING ENTRY OF EXPORTED PRODUCT**

### **A. United States**

1. 7 CFR 319.56 (7 U.S.C. 150 dd, 150 ee, 150 ff, 151-167; 21 U.S.C. 136 a); 7 CFR 2.17, 2.51, and 371.2(c), unless otherwise noted.
2. All export sand pears must be accompanied by a phytosanitary certificate issued by CIQ. All phytosanitary certificates shall identify the name of the originating packing house and the Province of origin of the fruit for each shipment.

### **B. The People's Republic of China**

1. Law of the People's Republic of China on the Entry and Exit of Animal and Plant Quarantine.

## **III. RESPONSIBILITIES**

### **A. APHIS will (as needed)**

1. Monitor AQSIQ's management and supervision of the program. After the program initiation, APHIS will discuss with AQSIQ regarding the need to send quarantine inspectors to conduct further investigation.
2. Work with AQSIQ to review orchard, packing house, and treatment facility procedures for participating in the program.
3. Verify pest monitoring programs including the fruit fly trapping program.
4. Verify labeling requirements of cartons.
5. Verify safeguarding measures, including insect proof shipping containers used during transport.
6. Conduct site visits of production areas and packing houses.

### **B. AQSIQ and/or CIQ will**

## **AREAS NORTH OF 33<sup>RD</sup> PARALLEL:**

1. Sand pear must be grown by growers registered with the national plant protection organization (NPPO) of China in an APHIS-approved export production site.
2. Establish and record export areas by maintaining a file of participating growers, packing areas, storage facilities, and having a copy of all records available for APHIS.
3. Maintain and provide to APHIS standardized orchard inspection guidelines (herein identified as Sand Pear Orchard Pest Monitoring Guidelines) to concentrate on pests of concern (see list I.B.). Sand Pear Orchard Pest Monitoring Guidelines shall include standard protocols for systematic survey and inspection at bloom and early fruitlet stage as well as inspection of the fruit in the orchard just prior to harvest. Inspection guidance should also focus on standard procedures for orchard cultural practices, orchard sanitation, and disease and pest management. **Note:** Definition ORCHARD = An orchard block is defined as “a contiguous planting of a single commodity that is not separated by a physical barrier (for example: ranch road, canal or highway).”
4. Under the Sand Pear Orchard Pest Monitoring Guidelines, orchard inspections shall be carried out by responsible individuals who are independent and not associated with the orchard owner, operator, or manager. These authorized persons shall bear the responsibility for the orchard inspection to be carried out by a trained inspection staff under the authorization of AQSIQ.
5. Under the Sand Pear Orchard Pest Monitoring Guidelines, authorized persons will verify on behalf of AQSIQ and CIQ that the pathogens, mites, insects listed in the work plan are absent or well managed in the export orchards under the guidance of the provincial pest control offices. Poorly managed orchards with heavy pest infestations will be removed from the export program in accordance with the standards for management of pest levels identified by AQSIQ in the Standard Orchard Inspection Guidelines. AQSIQ and/or CIQ will provide growers and packers with the information containing visual and textual symptom description for the identification of pests of concern. Sources of potential fungal inoculums for pathogens listed in Section I B (fallen leaves, twigs, plant debris, firewood, orchard cuttings and trimmings) must be eliminated from within the orchard and surrounding borders and environments.
6. Comply with the requirements set forth in this Work Plan. In cooperation with technical experts and scientists, develop effective standardized pest control guidelines (to be identified as Sand Pear Orchard Pest Management Guidelines for sand pear export orchards) in cooperation with AQSIQ to manage program orchards with emphasis on those pests listed in 1. B.

AQSIQ will cooperate with CIQ to prepare operative pest control guidelines. Such guidelines shall be reviewed and updated as needed. The updates to the standardized pest control guidelines shall be made available to APHIS upon request.

7. Ensure that growers carry out pest control measures in accordance with the Sand Pear Orchard Pest Management Guidelines.
8. Inspect and approve candidate areas for pear export to the United States and provide APHIS a list of approved packing houses (List of Approved Packing Houses) prior to the shipping season. Maintain in AQSIQ Program files a list of approved orchards (List of Approved Orchards) and provide this list to APHIS upon request.
9. Monitor recordkeeping and compliance with this work plan in cooperation with APHIS, AQSIQ, CIQ and the exporter. Ensure that no fallen fruit is collected for export to the United States.
10. All Sand pear fruits will be bagged on trees with double layered paper bags when each fruit is no more than 2.5 cm in diameter. The bags must remain intact on the pears through the harvest and during the movement to the packing house. Verify that the proper bagging of the export pear is carried out in accordance with established AQSIQ approved bagging guidelines (to be identified herein as Fruit Bagging Procedure Guidelines). A copy of these guidelines will be provided to APHIS. These guidelines shall be periodically reviewed and updated as needed.
11. The registered growers shall be responsible for following the phytosanitary measures agreed upon by APHIS and the NPPO of China, including applying pesticides to reduce pest populations.
12. All Sand pears must be packed in packing houses that must be registered with AQSIQ/CIQ. Packing houses must have a tracking system to identify individual orchards for trace back.
13. Monitor the storage facilities to ensure that the pears approved for U.S. export are clearly identified and not mixed or stored with other fruit and exclude any cartons not properly labeled.
14. Sand pears must be exported as commercial consignments only.
15. All propagative material introduced into a registered production site is certified free of the quarantine pests for China sand pears.

16. During the site visit, inspect the registered production site for signs of pest infestation and allow APHIS to monitor the inspection. Provide APHIS with information on pest detections and pest detection practices, and APHIS must approve the pest detection practices.
17. During the phytosanitary inspection process by CIQ prior to export, , the sand pears will be inspected for signs of pest infestations. Upon detection of *Amphitetranychus viennensis*, *Calepitrimerus neimongolensis*, *Carposina sasakii*, *Ceroplastes rubens*, *Conogethes punctiferalis*, *Grapholita inopinata*, *Phenacoccus pergandei*, *Planococcus kraunhiae*, *Acrobasis pyrivorella*, *Aphanostigma iaksuiense*, *Alternaria gaisen*, *Guignardia pyricola*, *Monilinia fructigena*, or *Venturia nashicola*, AQSIQ may reject the consignment and may prohibit the importation into the United States of sand pears from the grower lot.
18. AQSIQ or CIQ personnel should identify the reasons and take improvement measures. Meanwhile, the inspection records should be saved and provided to APHIS upon request.
19. Provide an area prior to fruit sizing to examine each fruit for any evidence of pest presence or damage and to remove as much as possible these suspect fruit from the area. This area must provide sufficient space and light to allow sorters the maximum advantage to find pests. Compressed air to blow out debris and pests from both the stem and flower ends is highly recommended. Monitor the packing house to ensure that it is practically free of any culled and/or loose fruit and debris.
20. Sand pears must be held in a cold storage facility while awaiting export. If any other fruit from unregistered production sites are stored in the same facility, the sand pears must be isolated from that other fruit.
21. Sand pears must be packed in cartons that are labeled in accordance with 7 CFR §319.56-5(e) (1). This requirement includes: Recording all fruit packed at each approved facility; ensuring that each carton has a legible stamp that identifies the packing house and orchard number to enhance trace back. Verification that each box shipped to the U.S. contains a clearly visible number in English identifying as follows:

Sand Pears – Grower lot number - Packing House Number or Name

22. Monitor recordkeeping and compliance with this work in cooperation with APHIS and the exporter. AQSIQ will maintain guidelines that shall be reviewed and updated as needed. AQSIQ shall make available to APHIS upon request updates of all operative guidelines identified in this work plan.

23. Assign a Program Coordinator who will be responsible for all coordination between AQSIQ, growers, pack house operators, cold storage facilities, transportation providers and other concerns that handle the fruit. This person shall assist APHIS in resolving problems relative to the export of the pears including transportation needs.
24. Inspect 100 percent of sampled fruit at the inspectional rate of two percent of the total cartons in each shipment intended for export to the United States (unless otherwise amended by an Addendum to this work plan). The minimum inspectional sample will be 1,200 fruit in small shipments where the total number of fruit in two percent of the cartons is less than 1,200. Every effort shall be made to select cartons from a representative sample of each of the participating growers and representing different sized fruits. The cartons will be randomly selected for sampling for the phytosanitary inspection. In addition, a minimum of 40 fruit and all suspect fruit from the 2% sample will be cut during the inspection process.
25. If no phytosanitary problems are found, the level of export inspection may be eligible for reduction while maintaining 1,200 fruit as the minimum inspection level.
26. Ensure that a phytosanitary certificate declaring that the consignment has been inspected and found free of quarantine pests is issued for all shipments of sand pears destined to the United States. The phytosanitary certificate will include the following Additional Declaration: "All fruit in this shipment complies with the work plan for the exportation of Sand Pear (*Pyrus pyrifolia*) from the People's Republic of China".

#### **AREAS SOUTH OF 33<sup>RD</sup> PARALLEL:**

All mitigation measures listed above will be followed plus the following.

1. Sand pears must be shipped in insect-proof containers and safeguarded during transport to the United States in a manner that will prevent pest infestation.
2. All Sand pears from registered orchards south of the 33<sup>rd</sup> parallel will undergo cold treatment as per the treatment schedule T107-j prior to export to the United States.

#### **IV. Treatment**

- A. The following treatment schedule [T107(j)]\* for Sand Pears from areas in China south of the 33<sup>RD</sup> parallel.

<b>Temperature</b>	<b>Exposure Period</b>
32°F or below	10 days
33°F or below	11 days
34°F or below	12 days
35°F or below	14 days

\* Cold treatment will be required unless subsequently amended by addendum to this work plan.

## **V. Requirements for Inspection and Shipping**

- A.** Export inspection at the storage facility will include the inspection for plant pests (insects, mites, mollusks, and diseases), export cartons, prevention of the mixture of fruit from outside the approved growing areas, measures taken to prevent re-infestation by pests exotic to the United States that will be conducted according to the following procedures:
1. Inspection of the fruit shall be conducted and completed at the storage facility before loading of any cartons into the transporting vans. Transportation vans should be inspected and found free of any plant debris. Inspection will be done in accordance with III.B.25.
  2. Export Lots, certified as free from plant pests will be loaded into containers and safeguarded while in transit to the United States.

## **VI. Port of Entry Inspection**

1. Export shipments will be subject to inspection upon arrival.

If live quarantine pests are found, APHIS will follow the stipulations contained in the Memorandum of Understanding Regarding the Procedures for On-Arrival Interceptions of Quarantine Pests in Fresh Fruit Between the United States Department of Agriculture Animal and Plant Health Inspection Service And the Department for Supervision on Animal and Plant Quarantine, General Administration of Quality Supervision, Inspection and Quarantine of The People's Republic of China. This document has formally been agreed upon by APHIS and AQSIQ and was signed by both parties of February 14, 2012.

## **VII. Review and Pre-Inspection**

Before the start of the first year of exports under this work plan, with the assistance of AQSIQ, APHIS will send two inspectors to China for a site visit to inspect pest monitoring and control in the pear orchards, packing and cold storage management and phytosanitary inspection and quarantine prior to departure.



All the above mentioned cost of pre-export program review and site inspection in the China including travel, accommodation, food allowances and other cost will be borne by the China side.

### **VIII. Program Review**

If the pest complex for Chinese Asian pears changes, APHIS will conduct further risk assessment and will consult with AQSIQ to adjust relevant import quarantine measures.

This protocol is signed on (month, date, and year) in XX and will take effect on the date of signing in Chinese and English languages, in duplicated copies. Both texts are equally authentic. This protocol is valid for two year from the date of signature. If neither party requests revision nor termination of the work plan within two months before the expiration date, the period of validity of the agreement will be extended automatically for another year.

Animal and Plant Health Inspection  
Service (APHIS)  
The United States Department of  
Agriculture (USDA)

Department of Supervision on  
Animal and Plant Quarantine (DSAPQ)  
The General Administration of Quality,  
Supervision, Inspection and Quarantine  
of the People's Republic of China  
(AQSIQ)