

Notification of Department of Agriculture Re: Conditions for Import of Seed Potatoes from the United States of America B.E. 2552 (2009)

The Department of Agriculture has completed pest risk analysis for commercial importation of seed potatoes from the United States of America into Thailand. By virtue of the provisions of Section 8 and Section 10 of the Plant Quarantine Act B.E. 2507 (1964) amended by the Plant Quarantine Act (No. 3) B.E. 2551 (2008) with particular provisions that may restrict the right and freedom of any person in which Section 29 together with Section 32, Section 33, Section 41 and Section 43 of the Constitution of the Kingdom of Thailand permits by virtue of the law. The Director-General of Department of Agriculture through the recommendation of the Plant Quarantine Committee, hereby announces the conditions that have to be met in order to import seed potatoes for propagation purpose from the United States of America into Thailand as follows:

## 1. Plant species

Seed potato, Solanum tuberosum

## 2. Quarantine pests of concern

- 2.1 A list of quarantine pests of current concern to Thailand for seed potatoes and associated soil from the United States of America is given in Appendix.
- 2.2 Quarantine pests requiring risk management measures in seed potatoes are as follows;
  - 2.2.1 pale cyst nematode, Globodera pallida
  - 2.2.2 golden nematode, Globodera rostochiensis
  - 2.2.3 bacterial ring rot, Clavibacter michiganensis subsp. sepedonicus

# **3.** Responsible organizations

3.1

Thailand:	Department of Agriculture
	(hereinafter referred to as DOA)

3.2 The United States of America: United States Department of Agriculture, Animal and Plant Health Inspection Service (hereinafter referred to as USDA-APHIS)

### 4. Accredited/Approved laboratories

Testing for seed potato certification and phytosanitary certification shall be performed by USDA-APHIS-operated or USDA-APHIS-accredited/approved laboratories.

#### 5. Import permit

Import permit issued by DOA is required.

#### 6. Means of conveyance

Seed potatoes shall be imported from a port in the United States of America to a designated port in Thailand by ship cargo or air cargo. In case of ship cargo, seed potatoes can be exported from ports in Canada.

#### 7. **Production areas**

- 7.1 Seed potatoes shall be produced in the United States of America, where the USDA-APHIS designated as production areas for export to Thailand and the DOA has approved prior to export. and
- 7.2 Only seed potatoes produced in the following states in the United States of America are permitted to import into Thailand.
  - 7.2.1 California
  - 7.2.2 Idaho
  - 7.2.3 Oregon
  - 7.2.4 Washington

### 8. **Production and certification**

8.1 Seed potatoes from the United States of America must be certified in accordance with the requirements of a recognized certification agency and recognized seed potato certification programs. The following agencies are recognized as Certifying Authority of seed potatoes to verify and certify seed potatoes export to Thailand under recognized seed potato certification scheme to meet the phytosanitary requirements indicated in this Notification.

- 8.1.1 California Crop Improvement Association is a recognized Certifying Authority of seed potato in California.
- 8.1.2 Idaho Crop Improvement Association is a recognized Certifying Authority of seed potato in Idaho.
- 8.1.3 Oregon Seed Certification Service is a recognized Certifying Authority of seed potato in Oregon.
- 8.1.4 Washington State Department of Agriculture, Plant Protection Division is a recognized Certifying Authority of seed potato in Washington.
- 8.2 Seed potatoes shall be produced and, except where specified, certified in compliance with certification standards of the producing state.
- 8.3 It is recognized that there is zero tolerance for bacterial ring rot, *Clavibacter michiganensis* subsp. *sepedonicus* and *potato spindle tuber viroid* (PSTVd) in the U.S. Export Standards for Seed Potatoes.
- 8.4 Certifying Authority shall issue a seed potato certification tag only for seed potatoes that meet all phytosanitary requirements specified in this Notification. A seed potato certificate number shall be indicated on the seed potato certification tag and the Phytosanitary Certificate to enhance the capability for trace-back of identified problems on imported seed potatoes.

### 9. **Requirements for soil**

- 9.1 Potato tubers shall be practically free of soil.
- 9.2 The weight of loose soil shall not exceed 100 g per 50 kg seed potatoes (equivalent to 0.2 % soil by weight). For caked soil, seed potatoes which have more than 20 % of the surface of the tuber with caked soil should not exceed 30 tubers in a 600 unit sample (equivalent to 5 %).

### **10.** Requirements for quarantine nematodes

- 10.1 Some areas in New York and Idaho states in the United States of America have been found to be infested with potato cyst nematode (pale cyst nematode, *Globodera pallida* and golden nematode, *Globodera rostochiensis*).
- 10.2 Seed potatoes produced in potato cyst nematode regulated areas in the United States of America are prohibited to import into Thailand. In addition, seed potatoes produced in land which as a result of an official soil test has been found to be contaminated with potato cyst nematode are prohibited to import into Thailand.

- 10.3 The phytosanitary regulations shall be in placed prohibiting and restricting the transportation and movement of any plant or other matter that is likely to result in the spread of potato cyst nematode from infested areas.
- 10.4 It is mandatory that land on which the seed potatoes were grown must be subjected to an official soil test pre-planting or pre-harvest for the presence of potato cyst nematode. Only seed potatoes grown in fields free of potato cyst nematode are permitted to import into Thailand. The certification for the presence of potato cyst nematode in potato field shall be done according to the agreed upon protocol. In addition, the samples of soil shall be analyzed only by USDA-APHIS operated or USDA-APHIS accredited/approved laboratories.
- 10.5 In addition to potato cyst nematode, seed potatoes shall be produced in fields free of nematodes of quarantine significance specified in this Notification, based on official surveillance.

### 11. Requirements for quarantine plant diseases caused by fungi

- 11.1 The tolerance level for powdery scab, *Spongospora subterranea*, should not exceed 2% of the tubers with a detectable level of powdery scab. A detectable level is five lesions or more per tuber.
- 11.2 The tolerance level for skin spot, *Polyscytalum pustulans*, should not exceed 2 % of the tubers with a detectable level of skin spot. A detectable level is five lesions or more per tuber.

### 12. Requirements for quarantine plant diseases caused by bacteria

- 12.1 Seed potatoes from the fields found to be contaminated with bacterial ring rot, *Clavibacter michiganensis* subsp. *sepedonicus* and fields that shared equipment, facility, and/or staff, with the bacterial ring rot infected fields are prohibited to import into Thailand.
- 12.2 Seed potatoes from the field intended to export to Thailand shall be mandatory subjected to laboratory analysis for the presence of bacterial ring rot by USDA-APHIS-operated or USDA-APHIS-accredited/approved laboratories. Only seed potatoes which are not found positive for bacterial ring rot are permitted to import into Thailand. The testing protocol for bacterial ring rot shall be done according to the agreed upon protocol.

### **13.** Requirements for regulated diseases caused by viruses

13.1 Seed potatoes shall be grown in potato fields which shall be visually inspected by inspectors from the Certifying Authority for virus diseases during growing season according to requirements specified in the certification standards of the producing state and shall be free of potato diseases caused by viruses of quarantine significance specified in Appendix,

except those mentioned in Section 13.4. In addition, the threshold level for the total of all viruses other than viruses of quarantine significance shall not exceed 0.1 %.

- 13.2 In addition to visual inspection, it is required that seed potatoes shall be subjected to laboratory analysis according to the agreed upon protocol by approved laboratories for the percentage of *Potato virus Y* (PVY) and *Potato leaf roll virus* (PLRV) infection. The tolerance level for PVY and PLRV infection in potato tubers of identified fields should not exceed 4 %. Either the pre-harvest leaf test, the post-harvest sprout test or the post-harvest grow out test may be used to determine PVY and PLRV levels.
  - 13.2.1 Pre-harvest leaf testing: Leaves for ELISA testing must be collected before vine kill and must be analyzed by using the following procedures:
    - (a) The testing methodology involves 460 leaves from each seed lot bundled into 92 lots of 5 leaves.
    - (b) The 92 tests will detect crops with viral infection level of <4.0% with a probability at the 95% confidence level. Seventeen positive tests will result in rejection of the crop for export to Thailand.
  - 13.2.2 Post-harvest sprout testing: Sprouts for ELISA testing must be analyzed by using the following procedures.
    - (a) The testing methodology involves 400 tubers which were randomly collected from each seed lot.
    - (b) The 400 tests will detect crops with viral infection level. Sixteen positive tests will result in rejection of the crop for export to Thailand.
  - 13.2.3 Post-harvest grow out test: Leaves for ELISA testing must be analyzed by using the following procedures.
    - (a) Samples of 400 tubers are taken from the seed lot. The tubers are planted and the subsequent foliage is evaluated for virus presence.
    - (b) The 400 tests will detect crops with viral infection level of <4.0% with a probability at the 95% confidence level. Sixteen positive tests will result in rejection of the crop for export to Thailand.
- 13.3 Laboratory test report of PVY and PLRV infection on seed potatoes shall be kept by USDA-APHIS-operated or USDA-APHIS-accredited/approved

laboratories and shall be made available to DOA upon request. Test report shall contain adequate information to assure traceability e.g. grower, supplier, seed potato certificate number, number of samples and results of analysis.

13.4 It is required that the tolerance level for visual symptoms of *Potato mop top virus* (PMTV) infection in seed potato tubers of identified fields should be nil.

## 14. Requirements for packing and labeling

- 14.1 Seed potatoes shall be packaged in bags that contain 25-50 kg, are new and closed after packing.
- 14.2 Each bag shall be affixed with a seed potato certification tag. The information labels on seed potato certification tag shall comply with USDA-APHIS's requirement.

## **15.** Export inspection

- 15.1 The consignment of seed potatoes shall be inspected for export to Thailand prior to or during loading in the last mode of transportation. Following inspection the container or truck shall be closed and sealed.
- 15.2 A Phytosanitary Certificate shall be issued only for the consignments that meet all phytosanitary requirements specified in this Notification.

### 16. Phytosanitary certification

- 16.1 A Phytosanitary Certificate must accompany each consignment of seed potatoes from the United States of America and must indicate the state of origin.
- 16.2 A Phytosantiary Certificate shall bear the following additional declaration.

"The seed potatoes in this consignment were produced in the United States of America in accordance with the conditions governing entry of seed potatoes to Thailand."

16.3 Container number (for sea freight only) and seed potato certificate number of seed potatoes in every container must be recorded on the Phytosanitary Certificate. In the case of transloading, the state seed potato certification agency will send a letter to the Thailand DOA with the seed certificate numbers and corresponding shipping container numbers.

### **17.** Import inspection

- 17.1 When the consignments of seed potatoes arrive at the port of entry in Thailand, the import inspection shall be conducted after confirming the respective documents accompanying the consignments concerned.
- 17.2 DOA reserves the right to have the consignment re-exported or destroyed at the importer's expense, if the certification does not conform to phytosanitary import requirements or if the seals on the containers are damaged.
- 17.3 If the Thailand quarantine pests of concern as stipulated in the Appendix are found or exceed acceptable tolerance levels during import inspection, the infested consignment shall be either re-exported or destroyed at the importer's expense. The DOA will notify USDA-APHIS of the non-compliance and, depending on the circumstances, may temporarily suspend importation from that lot, farm, state or the whole country.
- 17.4 USDA-APHIS shall immediately investigate the cause of such incidence and propose corrective actions. Suspension of imports will be lifted when the cause of non-compliance has been clarified and corrective actions have been implemented to the satisfaction of DOA.
- 17.5 If any live organism of potential quarantine concern to Thailand not listed in the Appendix is found, the consignment shall be re-exported, destroyed or treated with an appropriated treatment (if available) at the importer's expense. The DOA reserves the right to temporary suspension of imports from the identified pathway until a risk assessment of intercepted organisms is determined.
- 17.6 If the consignments of seed potatoes have been released from the port of entry, and if there is a reasonable ground from available evidence to believe that seed potatoes imported from certain production sites are likely to be contaminated with quarantine pests, then seed potatoes shall be withheld from planting and subjected to appropriate phytosanitary measures to prevent the pests spread under DOA supervision. The costs of such action shall be borne by the importer.
- 17.7 It is the requirement that the importer shall promptly provide DOA upon request a list of growers and planting areas of importing seed potatoes. In addition, field survey shall be immediately carried out by plant quarantine officials if there is a reasonable ground to believe that quarantine pests associated with importing seed potatoes may be present in potato fields. The costs of such survey shall be borne by the importer.

## **18.** Audit of export procedures

- 18.1 The seed potato production areas indicated in Section 7.2 are approved by DOA to export seed potatoes to Thailand. The export of seed potatoes from non-approved production areas in the United States of America to Thailand shall only be initiated after the DOA has audited export certification procedures. The costs of such audits must be borne by the United States of America.
- 18.2 In the event of a suspension of import, DOA may audit export certification procedures in the United States of America prior to a decision being taken on resumption of import. Where DOA has determined that such audits are necessary, the costs of these audits must be borne by the United States of America.

Effective on this date henceforth.

Issued on 13 October B.E. 2552 (2009)

Mr. Somchai Charnnarongkul

Director-General Department of Agriculture

# Appendix

# List of quarantine pests of seed potatoes and associated soil from the United States of America attached to the Notification of Department of Agriculture Re: Conditions for Import of Seed Potatoes from the United States of America B.E. 2552 (2009)

Scientific name	Common name
Insects	
Lepidoptera	
Symmetrischema tangolias	Andean potato tuber moth
Plant Pathogens	<u> </u>
Nematodes	
Ditylenchus destructor	potato rot nematode
Ditylenchus dipsaci (potato race)	stem and bulb nematode
* Globodera pallida	pale cyst nematode
* Globodera rostochiensis	golden nematode
Heterodera glycines	soybean cyst nematode
Meloidogyne chitwoodi	Columbia root knot nematode
Nacobbus aberrans	false root knot nematode
Fungi	
Phoma foveata	potato gangrene
Polyscytalum pustulans	skin spot of potato
Spongospora subterranea	powdery scab
Thecaphora solani	potato smut
Verticillium albo-atrum	verticillium wilt
Bacteria	
* Clavibacter michiganensis subsp. sepedonicus	bacterial ring rot
Viruses	
Alfalfa mosaic virus (AMV)	alfalfa yellow spot
Pepino mosaic virus (PepMV)	
Potato black ringspot virus (PBRV)	calico disease of potato
Potato deforming mosaic virus (PDMV)	deforming mosaic of potato
Potato latent virus (PotLV)	
Potato mop top virus (PMTV)	potato mop-top
Potato virus A (PVA)	
Potato virus M (PVM)	
Potato yellow dwarf virus (PYDV)	yellow dwarf of potato
Potato yellow vein virus (PYVV)	yellow vein of potato
Potato yellowing virus	
Tobacco rattle virus (TRV)	spraing of potato
Tobacco ringspot virus (TRSV)	annulus tabaci
Tobacco streak virus (TSV)	stunt of asparagus
Tomato black ring virus (ToBRV)	
Tomato infectious chlorosis virus	
Tomato spotted wilt virus (TSWV)	tomato spotted wilt

Scientific name	Common name
Viroids	
Potato spindle tuber viroid (PSTVd)	spindle tuber of potato
Phytoplasmas	
Aster yellows phytoplasma group	
Potato purple top wilt	
Potato witches' broom	

\* Required risk management measures.

<sup>•</sup> UNOFFICIAL TRANSLATION

<sup>•</sup> This is an English translation. In case of any difference in meaning between the Thai text and the English translation, the Thai text shall be applied.