



Appendix M

Reasons for Sealing or Not Sealing Fruit Fly Host Material in Vessels' Stores

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Reasons for Not Sealing in Hawaii, Puerto Rico, and the U.S. Virgin Islands

Hawaii

In Hawaii, you **do not** need to seal any fruit fly host material from Mediterranean (West) countries because *Ceratitidis capitata* (Mediterranean fruit fly) and *Rhagoletis cerasi* (European cherry fruit fly) are the only major pest fruit flies from Mediterranean (West) countries. Since *Ceratitidis capitata* occurs in Hawaii and there are few host materials for *Rhagoletis cerasi* in Hawaii, there is no need to seal host material from Mediterranean (West) countries.

Puerto Rico and the U.S. Virgin Islands

In Puerto Rico and the U.S. Virgin Islands, you **do not** need to seal any fruit fly host material from the West Indies because the only fruit flies of economic importance, *Anastrepha obliqua* and *A. suspensa*, both occur in Puerto Rico. If *Anastrepha suspensa* could potentially become established in the U.S. Virgin Islands, it would have occurred through natural movement or through the movement of people from Puerto Rico to the U.S. Virgin Islands.

Reasons for Sealing and Not Sealing Fruits from Other Areas

Central America

Ceratitis capitata (Mediterranean fruit fly) and various species of *Anastrepha* such as *A. ludens* occur in Central America. These fruit flies **do not** use cucurbits, eggplant, legumes, lemons, limes (sour), okra, pineapples, or strawberries as hosts. Cucurbits **do not** need to be sealed because *Anastrepha grandis* does **not** occur in Central America and is the only New World species that is a pest of cucurbits. Bananas, for example, **do not** have to be sealed because the Medfly uses only ripe bananas as a host.

Mediterranean (West)

Ceratitis capitata (Mediterranean fruit fly) and *Rhagoletis cerasi* (European cherry fruit fly) are the only fruit flies that occur in Mediterranean (West) countries. These fruit flies **do not** use cucurbits, eggplant, legumes, lemons, limes (sour), okra, pineapples, or strawberries as hosts.

Chile

Rhagoletis tomatis is a fruit fly which occurs in Chile and attacks tomatoes.

Hawaii

Ceratitis capitata, *Dacus cucurbitae*, *D. dorsalis*, and *D. latifrons* occur in Hawaii. The varieties of pineapples grown in Hawaii are **not** attacked by these four species of fruit flies. Papayas that are treated and are certified **do not** present a pest risk.

Japan and Korea

The only fruit fly likely to be found in commercial shipments of fruit is *Bactrocera depressa*.

Mexico or Belize

The only fruit flies of economic importance found in Mexico or Belize are various *Anastrepha* spp. such as *A. ludens* (but **not** *A. grandis*). These fruit flies **do not** use banana (*Musa* spp.), breadfruit, cactus fruit, cucurbits, dates, grapes, legumes, lemons, limes (sour), litchi, mangosteens, okra, papaya, pineapples, strawberries, or Solanaceous fruits as hosts.

South America (except Chile)

Ceratitis capitata (Mediterranean fruit fly), *Anastrepha grandis*, other *Anastrepha* species, *Rhagoletis* spp. that are of economic importance, and *Dacus* spp. (from Suriname) occur in South America. These fruit flies are **not** known to use eggplant, legumes, lemons, limes (sour), okra, pineapples, or strawberries as hosts. Bananas, for example, **do not** have to be sealed because the Medfly uses only ripe bananas as a host.

West Indies

Anastrepha obliqua and *A. suspensa* are the only fruit flies of economic importance that occur in the West Indies. These fruit flies **do not** use avocado, banana, breadfruit, cactus fruit, citrus, cucurbits, dates, genip, grapes, legumes, litchi, mangosteens, okra, papaya, pineapples, Solanaceae, or strawberries as hosts.

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