

### 3252. CARIBBEAN FRUIT FLY

State Exterior Quarantine

A quarantine is established against the following pest, its hosts, and possible carriers.

**A. Pest.** Caribbean fruit fly, *Anastrepha suspensa*, of the family Tephritidae is, in the adult state, a yellowish-brown fly from one and a half to two times the size of a housefly. This insect is a serious pest of many kinds of fruit.

**B. Area Under Quarantine.** The Commonwealth of Puerto Rico and all the State of Florida south of and including Hernando, Sumter, Lake, and Volusia counties.

**C. Articles and Commodities Covered.**

(For Additional Hosts, see Appendix H. For definition of Commercial Fruit, see Appendix D.)

1. The fruit or berries of all plants listed below are declared to be hosts and possible carriers of the Caribbean fruit fly.

<u>Common Name</u>	<u>Botanical Name</u>
Akee	<i>Blighia sapida</i>
Allspice	<i>Pimenta dioica</i>
Apple	<i>Malus sylvestris</i>
Avocado, except commercial fruit	<i>Persea americana</i>
Barbados Cherry	<i>Malpighia glabra</i>
Bell Pepper, except commercial fruit	<i>Capsicum frutescens</i>
Blackberry	<i>Rubus</i> hybrid
Box Orange	<i>Severinia buxifolia</i>
Calabur	<i>Muntingia calabura</i>
Calamondin	<i>X Citrofortunella mitis</i>
Carambola	<i>Averrhoa carambola</i>
Ceylon Gooseberry	<i>Dovyalis hebecarpa</i>
Cherry of the Rio Grande	<i>Eugenia aggregata</i>
Cocoplum	<i>Chrysolbalanus icaco</i>
Egg Fruit	<i>Pouteria campechiana</i>
Fig	<i>Ficus carica</i>
Governor's Plum	<i>Flacourtia indica</i>
Grapefruit	<i>Citrus paradisi</i>
Grumichama	<i>Eugenia brasiliensis</i>
Guava (all)	<i>Psidium</i> spp.
Guiana Plum	<i>Drypetes lateriflora</i>
Imbe	<i>Garcinia livingstonei</i>
Jaboticaba	<i>Myrciaria cauliflora</i>
Jambolan Plum	<i>Syzygium cumini</i>
Japanese Pear	<i>Pyrus pyrifolia</i>
Japanese Persimmon	<i>Diospyros kaki</i>
Java Apple	<i>Syzygium samarangense</i>
Kei Apple	<i>Dovyalis caffra</i>
Kieffer Pear	<i>Pyrus pyrifolia</i> x <i>Pyrus communis</i>
Kiwi	<i>Actinidia chinensis</i>
Kumquat	<i>Fortunella crassifolia</i>
Kumquat (oval)	<i>Fortunella margarita</i>
Lime	<i>Citrus aurantifolia</i>

Limeberry  
Limequat  
Longan, except commercial fruit  
Loquat  
Lychee, except commercial fruit  
Mango  
Miracle Fruit  
Natal Plum  
Nectarine  
Orange Jasmine  
Jack Orangequat

Otaheite Apple

Papaya  
Peach  
Pear  
Pitomba  
Pomegranate  
Pond Apple  
Rangpur Lime  
Rose Apple  
Sapodilla  
Sour Orange  
Sugar Apple  
Surinam Cherry  
Sweet Lemon  
Sweet Orange  
Tangelo

Tangerine  
Temple Orange

Tomato, except commercial fruit

Tropical Almond  
Velvet Apple or Velvet Persimmon  
Wampi  
White Sapote  
Wild Balsam Apple  
Wild Cinnamon  
Wild Dilly

*Triphasia trifolia*  
*X Citrofortunella floridana*

*Dimocarpus longan*  
*Eriobotrya japonica*

*Litchi chinensis*  
*Mangifera indica*  
*Synsepalum dulcificum*  
*Carissa grandiflora*  
*Prunus persica*  
*Murraya paniculata*  
*Citrus nobilis 'unshiu' x Fortunella* sp.

*Spondias dulcis* (=S. *cytherea*)  
*Carica papaya*  
*Prunus persica*  
*Pyrus communis*  
*Eugenia luschnathiana*  
*Punica granatum*

*Annona glabra*  
*Citrus limonia*  
*Syzygium jambos*  
*Manilkara zapota*  
*Citrus aurantium*  
*Annona squamosa*  
*Eugenia uniflora*  
*Citrus limetta*

*Citrus sinensis*  
*Citrus paradisi* x *Citrus reticulata*  
*Citrus reticulata* Blanco  
*Citrus sinensis* x *Citrus reticulata*  
*Lycopersicon esculentum* (L. *lycopersicum*)  
*Terminalia catappa*

*Diospyros blancoi*  
*Clausena lansium*  
*Casimiroa edulis*  
*Momordica charantia*  
*Canella winteriana*  
*Manilkara jaimiqui* ssp. *emarginata*  
*Annona hybrid*  
*Atalantia citriodes*  
*Eugenia coronata*  
*Eugenia ligustrina*  
*Ficus altissima*  
*Garcinia xanthochymus*  
*Manilkara roxburghiana*  
*Myrcianthes fragrans*  
*Myrciaria glomerata*  
*Pseudanmomis umbellulifera*  
*Rheedia aristata*  
*Terminalia muelleri*  
*Trevisia palmata*

**2. Soil or planting media within the drip area of plants producing, or which have produced, fruit of the plants listed in (1) above.**

**3. Exemptions. The following are exempt from provisions of this regulation:**

- (A) Green sour lime fruit which shows no yellow coloring.
- (B) Lemons regardless of color.

**D. Restrictions.** Articles and commodities covered are prohibited entry into California from the area under quarantine, except as provided below:

**1. Articles and Commodities Covered Admissible When Treated at Origin.** Articles and commodities covered are admissible into California from the area under quarantine provided each lot or shipment is accompanied by a certificate issued by an authorized representative of the origin State Department of Agriculture or the United States Department of Agriculture affirming that the lot or shipment was treated for Caribbean fruit fly, prior to shipment and under supervision of the origin State Department of Agriculture or the United States Department of Agriculture, in a manner approved by the Secretary of the Department of Food and Agriculture and was not exposed to reinfestation by the fly.

**CARIBBEAN FRUIT FLY FLORIDA INFESTED COUNTIES**

**APPENDIX A**

**Updated 08-31-20**

Alachua	Manatee
Brevard	Marion
Broward	Martin
Charlotte	Monroe
Citrus	Okeechobee
Collier	Orange
Dade	Osceola
DeSoto	Palm Beach
Duval	Pasco
Glades	Pinellas
Hardee	Polk
Hendry	Putnam
Hernando	Saint (St.) Johns
Highlands	St. Lucie
Hillsborough	Sarasota
Indian River	Seminole
Lake	Sumter
Lee	Volusia

**MASTER PERMIT FOR THE SHIPMENT OF CITRUS FRUIT AND CARAMBOLA FRUIT TO CALIFORNIA FROM FLORIDA**

**APPENDIX B**

**Updated 07-30-20**

**Master Permit No. QC 222** has been issued to the Florida Department of Agriculture and Consumer Services (FDACS) to authorize Florida businesses to ship citrus fruit (grapefruits, oranges, tangelos, pummelo, and tangerines only), grown in Florida in areas certified free of Caribbean

fruit fly, shipped to California without fumigation or cold treatment.

Certification: An additional declaration shall be placed on the phytosanitary certificate or USDA Fruit and Vegetable Citrus Certificate stating: "Meets the requirements of California Master Permit No. QC 222." The certificate must also contain the designated Caribbean Fruit Fly area numbers. The certificate shall contain designated area numbers and the numbers of boxes of fruit from each designated area included in the shipment as well as the name of the approved shipper and the shipper's assigned identification number.

Standard Boxes: Caribbean Fruit Fly certification with the term "designated area" and a corresponding number shall appear on the top surface of the carton.

Gift Pack Shipments: Must meet *all* of the following requirements.

- a. Gift packs containing Florida origin citrus must be accompanied (on the box or the accompanying paperwork) by a Federal Shield or other USDA approved stamp/sticker indicating the citrus fruit is certified for applicable federal quarantines.
- b. Each carton must be marked indicating the fruit "Meets the requirements of California Master Permit No. QC 222" and that it must be held for inspection.
- c. Each shipper must appear on the Master Permit No. QC 222 Approved Gift Pack Shippers List (available on the PHPPS Extranet site under [Quarantine Commodity Permits](#)).

Master Permit No. QC 1439 has been issued to the FDACS to authorize Florida businesses to ship carambola fruit grown in approved production areas. Businesses must meet all requirements and appear on the approved packing houses and shippers list on FDACS website.

**TREATMENT APPENDIX C**

**Updated 08-31-20**

**USDA TREATMENT MANUAL**

The [USDA Treatment Manual](#) list acceptable methods of treatment for Caribbean fruit fly.

**FUMIGATION TREATMENT APPROVED BY CDFA**

Carambola: Methyl bromide fumigation treatment for carambola only. The acceptable treatment schedule for Caribbean fruit fly (carambola only) is:

40 g/m<sup>3</sup> for 2 h (temperature 23 ± 1aC)

Note: The treatment reduces shelf life by 24-30% and 10ppb residues were not detected after 2 hours at 23C.

Citrus: For citrus fruit (grapefruits, oranges, tangelos, and tangerines only), grown in Florida in areas *not* certified free of Caribbean fruit fly, California will accept methyl bromide fumigation treatment at a minimum rate of 2.5 lbs./1000 cubic ft. for 2 hours at 70° F and above. Also, as per the guidance in the federal treatment manual, the lot of Citrus sp. shall only be eligible for fumigation if a representative sample of the fruit is inspected and the level of fruit infested with fruit flies is less than 0.5% for the lot.

Phytosanitary certificates for the above listed commodities must state an acceptable quarantine treatment temperature/time duration in the certificate treatment section.

**DEFINITION OF COMMERCIAL FRUIT**  
**APPENDIX D**

Commercial fruit means fruit which has been commercially produced, cleaned, sorted and packed. The foregoing results in fruit that is free of splits or cracks, among other things, and thus without risk of harboring Caribbean fruit fly.

**MAMEY COLORADO**  
**APPENDIX E**

Mamey Colorado, *Pouteria sapota*, (a.k.a. mamey sapote) fruit, when certified as grown and harvested in Florida from commercial or backyard sources, is allowed into California. Studies conducted by USDA's Agricultural Research Service have been interpreted as demonstrating that this fruit is not a host for Caribbean fruit fly in Florida.

**IMMATURE MANGOS**  
**APPENDIX F**

Untreated, Florida-grown **immature** mango fruit can enter California each year from **April 15 through July 31**, provided they meet the following criteria:

1. Mango fruit must have flesh that is white, cream, or very light yellow in color. Peel color may vary, and not necessarily be green.
2. Each mango fruit must be no more than two thirds the full normal size and weight of a mature fruit.
3. The sides and shoulder of the fruit must not be fully developed (i. e., swollen).
4. The fruit must be accompanied by a Florida phytosanitary certificate with the following additional declaration: The immature mango fruit in this shipment were harvested prior to July 31 of the current year.

**APPROVED FLORIDA COMMERCIAL LITCHI & LONGAN SHIPPERS**

**APPENDIX G**

**Updated 06-06-22**

Growers/Packers/Shippers, Location  
18W Farms, Clewiston  
A & B Tropical Produce, Miami  
AEG Trading Co., Inc. Chee "Max" Tun, Homestead  
ATB Trading Inc. Wui Lee, Homestead  
Bee Heaven Farm, MJ and SM Pikarsky, Homestead  
Best Florida Produce, Miami  
Brother Farm, Suhong Wu, Homestead  
Chen-Wan & Kwong Lung Chiu, Loxahatchee

Cook's Grove, Regis Cook, Miami  
Daniel J. Hodgman, Miami  
Double Green Farms, Mike Chow, Florida City  
Ely & Syphya Ham, Homestead  
Fresh King, Inc., Peter Schnebly, Homestead  
Global Organic Specialty Source, Sarasota  
Green Groves Farm, Homestead  
Green Groves Organic Farm, Homestead  
JB Garden, Wui Lee, Homestead  
J&C Tropicals, Nibaldo Capote, Miami  
JLS Litchi Farm, Mean Saniny, Miami  
Juan Miguel Alconso, Zeaida Serrapio, Homestead  
Kam Tai Farms, Choy Thay Chau, Homestead  
Keith Rowe, Homestead  
Khemara Farms, Peter Pith, Homestead  
Laub Groves, Charles Laub, Homestead  
Leaf Farms, Princeton  
LNB Groves, Marc Ellenby, Homestead  
Lychee Fruit Store, Pete Jaschinski, Loxahatchee  
New Asian Tropical Produce LLC, Homestead  
New Limeco LLC, Princeton  
NGP Groves, Andrew Chau, Homestead  
OK Farms, Gigi Lao, Homestead  
Perez Groves, Maria Perez, Miami  
Richard Quigley, Homestead  
Season's Farm Fresh, Inc., Nick Bernal, Homestead  
Sithol Yin, Good Boy Produce, Homestead  
Steven Green, Homestead  
Sun Harvest Tropicals, LLC, Miami  
Sunshine Tropical Farm, Inc., Homestead  
**Tierra Suelta, Adrian Abreu, Miami**  
Triple 8 Trading Intl Corp., Frederick Woo, Miami  
Tron Dawdon, Tron & Joe Dawson, Homestead  
Tropical Fruit Box, Guillermo Pardo, Miami  
Unity Groves, Homestead  
Vega Produce LLC, Angel Jaimes, Medley  
William B. Malaney, Homestead  
WP Produce, Desiree Morales, Miami

**ADDITIONAL HOSTS**  
**APPENDIX H**

**Updated 10-01-21**

The following are known hosts for Caribbean fruit fly and should be rejected under the authority of California FAC, Section 6461.5 unless treated as outlined in Section D.1. of this quarantine. Note: There are many common names for scientific names. This list is not inclusive of all common names and common names should be verified.

<u>Common Name</u>	<u>Botanical Name</u>
Acerola or Barbados Cherry	<i>Malpighia emarginata</i>
Ambarella	<i>Spondias cytherea</i>
Apple	<i>Malus domestica</i> , <i>Malus</i> spp.
Atemoya	<i>Annona cherimola</i> x <i>A. squamosa</i>
Autumn Maple Tree	<i>Bischofia javanica</i>
Balsam Apple	<i>Momordica balsamina</i>
Bell Pepper (except commercial fruit)	<i>Capsicum annum</i>
Birchberry	<i>Eugenia ligustrina</i>
Brazil Cherry	<i>Eugenia dombeyi</i>
Cabeluda	<i>Plinia glomerata</i>
Citrus, all varieties including Meyer and sweet lemon (except sour lime and lemon)	<i>Citrus</i> spp.

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Clementine	<i>Citrus reticulata</i>
Custard Apple,	<i>Annona squamosa</i> ,
Sugar Apple	<i>Annona reticulata</i>
Date Palm	<i>Phoenix dactylifera</i>
Garcinia Aristata	<i>Garcinia aristata</i>
Garcinia	<i>Garcinia</i> spp.
Hog Plum	<i>Spondias mombin</i>
Jamboisier Rouge	<i>Eugenia pyriformis</i>
	<i>Cambess. var. uvalha</i>
Kumquat	<i>Fortunella</i> spp.
Kumquat (round)	<i>Fortunella japonica</i>
Kumquat, Meiwa	<i>Fortunella x crassifolia</i>
Malay Apple	<i>Syzygium malaccense</i>
Mandarin	<i>Citrus reticulata</i>
Mangosteen	<i>Garcinia mangostana</i>
Mombin, Purple	<i>Spondias purpurea</i>
Mombin	<i>Spondias</i> spp.
Murraya	<i>Murraya</i> spp.
Natal Plum	<i>Carissa macrocarpa</i>
Orange	<i>Citrus sinensis</i>
Panama Orange	<i>Citrofortunella microcarpa</i>
Paradise Apple	<i>Malus pumila</i>
Persimmon	<i>Diospyros virginiana</i>
Plum	<i>Prunus domestica</i>
Plum, Japanese	<i>Prunus salicina</i>
Pummelo	<i>Citrus maxima</i>
Raspberry	<i>Rubus idaeus</i>
Sapodilla	<i>Achras zapota</i>
Satinleaf, Damson-plum	<i>Chrysophyllum oliviforme</i>
Sea-grape	<i>Coccoloba uvifera</i>
Shaddock	<i>Citrus grandis</i>
Snowflake Aralia	<i>Trevesia palmata</i>
Star Apple	<i>Chrysophyllum cainito</i>
Syzygium	<i>Syzygium</i> spp.
Tallowwood, Yellow-plum	<i>Ximenia americana</i>
Triphasia	<i>Triphasia</i> spp.
West Indian Mahogany	<i>Swietenia mahogani</i>
Wild Coffee	<i>Casearia hirsuta</i>
Wild Dilly	<i>Eugenia</i> spp.