

## Section 3423. Oriental Fruit Fly Interior Quarantine

**A. Pest.** A quarantine is established against the following pest, its host, and possible carriers: Oriental Fruit Fly (*Bactrocera dorsalis*),

**B. Area Under Quarantine.**

- 1. An area shall be designed as under quarantine** when survey results indicate an infestation is present, the Department has defined the infested area, and the local California County Agricultural Commissioner(s) is notified and requests the quarantine area be established. The Department shall also provide electronic and/or written notification of the area designation(s) to other California County Agricultural Commissioners and other interested or affected parties and post the area description to its website at: <http://www.cdfa.ca.gov/plant/off/regulation.html>. An interested party may also go to the website and elect to receive automatic notifications of any changes in the regulated or quarantine areas through the list serve option.
- 2. The initial area under quarantine shall be a minimum of 4.5 mile radius** surrounding the qualifying detections being used as an epicenter. Commercial host properties shall not be split by the quarantine boundary line and the boundary line shall be expanded beyond the 4.5 miles as necessary to encompass such host material in its entirety. Wherever possible, known accepted mapping features, including but not limited to roads, streets, highways, creeks, streams, rivers, canals, city, county, State, park and forest boundary lines are used first if and if there is no acceptable features such as these then imaginary lines with or without latitude and longitude points may be used.
- 3. Any interested party or local entity may appeal** an area designation by submission to the Department of a written request for review of the designation accompanied by clear and convincing evidence justifying a change in the designation. The appeal must be filed no later than ten (10) working days following receipt of the notice of designation. The Department must respond with a written decision no later than ten (10) working days following the receipt of the appeal. During the pending of the appeal, the designation under appeal shall remain in effect.
- 4. The infested area designation shall be removed** if no additional life stages are detected by trapping or visual surveys for three life cycles after the last detection within the quarantine area.
- 5. A life cycle** is an estimate of insect phenology based on a heat degree day temperature driven model. Base developmental temperature thresholds are used in this model's calculations and it estimates the generation time period necessary for the completion of a generation of Oriental

Fruit Fly. Daily minimum and maximum temperatures are used to produce a sine curve over a 24-hour period. The degree days for that day are estimated by calculating the area above the threshold and below the curve, assuming that the temperature curve is symmetrical around the maximum temperature. For Oriental Fruit Fly the Department uses the lifecycle model with 47.1° Fahrenheit (8.375° Celsius) base developmental temperature and 1125 degree days Fahrenheit (625 degree days Celsius) per generation.

**C. Commodities Covered. The following are declared to be hosts and possible carriers of Oriental fruit fly.**

**1. All fruit of the following plants:**

Akia (*Wikstroemia phyllraefolia*)  
Alexander laurel, laurel (*Calophyllum inophyllum*)  
Apple, common (*Malus sylvestris*)  
Apricot (*Prunus armeniaca*)  
Avocado (*Persea americana*)  
Banana (*Musa paradisiaca* var. *sapientum* = *Musa X paradisiaca*)  
Banana, dwarf (*Musa nana*)  
Barbados cherry (*Malpighia glabra*)  
Brazil cherry (*Eugenia dombeyi*)  
Breadfruit (*Artocarpus altilis*)  
Cactus (*Cereus coerulescens*)  
Caimitillo (*Chrysophyllum oliviforme*)  
Cashew (*Anacardium occidentale*)  
Cherimoya (*Annona cherimola*)  
Cherry, Catalina, Ornamental (*Prunus ilicifolia*)  
Cherry, Portugese (*Prunus lusitanica*)  
Cherry, Sweet (*Prunus avium*)  
Chili (*Capsicum frutescens* var. *longum*)  
Coffee, Arabian (*Coffea arabica*)  
Country gooseberry (*Averrhoa carambola*)  
Cucumber (*Cucumis sativas*)  
Custard apple (*Annona squamosa*)  
Custard apple, Annona (*Annona reticulata*)  
Date palm (*Phoenix dactylifera*)  
Dragon tree (*Dracena draco*)  
Eggfruit tree (*Pouteria campechiana*)=(*Lucuma nervosa*)  
Elengi tree (*Mimusops elengi*)  
Fig, common (*Ficus carica*)  
Gourka (*Carcinia celebica*)

Granadilla, Purple Passionflower (*Passiflora edulis*)  
Granadilla, sweet (*Passiflora ligularis*)  
Granadilla, yellow (*Passiflora lauriflora*)  
Grape (*Vitis* spp.)  
Grapefruit (*Citrus paradisi*)  
Guava (*Psidium guajava*)  
Guava, pineapple (*Feijoa sellowiana*)  
Guava, red strawberry (*Psidium littorale*)  
Guava, yellow strawberry (*Psidium cattleianum lucidum*)  
Imbu (*Spondias tuberosa*)  
Jackfruit (*Artocarpus heterophyllus*)  
Jerusalem cherry (*Solanum pseudocapsicum*)  
Jharber (*Ziziphus nummularia*, = *Ziziphus rotundifolia*)  
Jujube, Common (*Ziziphus zizyphus*, = *Ziziphus jujube*)  
Jujube, Indian (*Ziziphus mauritiana*)  
Jujube, Jackal (*Ziziphus oenoplia*)  
Kitebilla (*Dovyalis hebecarpa*)  
Kumquat (*Fortunella japonica*)  
Lemon (*Citrus limon*)  
Lime, Persian (*Citrus latifolia*)  
Lime, sour (*Citrus aurantiifolia*)  
Longan (*Euphoria longan*)  
Loquat (*Eriobotrya japonica*)  
Lychee (*Lychee chinensis*)  
Malay apple (*Eugenia malaccensis*)  
Mamme apple (*Mammea americana*)  
Mandarin, tangerine (*Citrus reticulata*)  
Mango (*Mangifera indica*)  
Mangosteen (*Garcinia mangostana*)  
Mock orange (*Murraya exotica*)  
Mulberry, black (*Morus nigra*)  
Myrtle, downy rose (*Rhodomyrtus tomentosa*)  
Natal plum (*Carissa grandiflora*)  
Nectarine (*Prunus persica* var. *nectarina*)  
Orange, calamondin (*Citrus japonica* & *Citrus mitis*)  
Orange, Chinese (*Citrus japonica hazara*)  
Orange, king (*Citrus nobilis*)  
Orange, sour (*Citrus aurantium*)  
Orange, sweet (*Citrus sinensis*)  
Orange, unshu (*Citrus unshu*)  
Otaheite apple (*Spondias dulcis*)  
Palm, date (*Phoenix* spp.)

Palm, syrup (*Jubaea spectabilis*)  
Papaya, common (*Carica papaya*)  
Passionflower, softleaf (*Passiflora mollissima*)  
Passionfruit (yellow lilikoi) (*Passiflora edulis flavicarpa*)  
Peach (*Prunus persica*)  
Pear (*Pyrus communis*)  
Pepino (*Solanum muricatum*)  
Pepper, bell or chilli (*Capsicum annuum*)  
Pepper, bush, red Oriental (*Capsicum frutescens* var. *abbreviatum*)  
Pepper, sweet (*Capsicum frutescens* var. *grossum*)  
Persimmon (*Diospyros* spp.)  
Persimmon, Japanese (*Diospyros khaki*)  
Plum, American (*Prunus americana*)  
Plum, garden, common European prune (*Prunus domestica*)  
Pomegranate (*Punica granatum*)  
Prickly Pear (*Opuntia ficus-indica*)  
Prickly pear, mission (*Opuntia megacantha*)  
Pummelo (*Citrus grandis*)  
Quince (*Cydonia oblonga*)  
Rose apple (*Eugenia jambos*=*Syzygium jambos*)  
Sandalwood (*Santalum paniculatum*)  
Sandalwood, white (*Santalum album*)  
Santol (*Sandoricum koetjape*)  
Sapodilla (*Manilkara zapota*)  
Sapodilla, chiku (*Achras zapota*)  
Sapote, white (*Casimiroa edulis*)  
Seagrape (*Coccoloba uvifera*)  
Soursop (*Annona muricata*)  
Star apple (*Chrysophyllum cainito*)  
Surinam cherry (*Eugenia uniflora*)  
Tomato (*Lycopersicon esculentum*)  
Tropical almond (*Terminalia catappa*, *Terminalia chebula*)  
Velvet apple (*Diospyros discolor*)  
Walnut, California black (*Juglans hindsii*)  
Walnut, English (*Juglans regia*)  
Wampi (*Citrus lansium*)  
West Indian cherry (*Malpighia puniceifolia*)  
Ylang-ylang (*Cananga odorata*)

- 2. Any other product, article, or means of conveyance** when it is determined by the Secretary or county agricultural commissioner to present a hazard of spreading live Oriental fruit fly and the person in possession thereof has been so notified.

**D. Restriction on Movement, Possession and Sale of Commodities Covered.**

- 1. At the wholesale level, articles and commodities covered, which have been commercially produced within the area under quarantine,** are prohibited movement from or within the area under quarantine except in accordance with the following provisions:
  - a. The commodity has been treated for Oriental fruit fly in a manner approved by the Secretary, is transported in a manner approved by the Secretary to preclude exposure to Oriental fruit fly, and is accompanied by a certificate, verifying compliance with the above requirements, issued by the Secretary or county agricultural commissioner; or,
  - b. The commodity is moving for treatment for Oriental fruit fly or processing and in a manner approved by the Secretary to preclude exposure to Oriental fruit fly, and is accompanied by a written document affirming that movement has been authorized by the Secretary or county agricultural commissioner.
- 2. At the wholesale level, articles and commodities covered which have been commercially produced outside the area under quarantine** are prohibited movement into the area under quarantine except when accompanied by a shipping document indicating the point of origin and destination and moved in accordance with the following provisions:
  - a. The commodity is moving directly through the area under quarantine without delay in an enclosed vehicle or completely enclosed by a covering to prevent exposure to *B. dorsalis*; or,
  - b. The commodity is destined to a wholesale or retail establishment and, if moving between 9:00 a.m. and sunset, is transported in an enclosed vehicle, or completely enclosed by a covering to prevent exposure to *B. dorsalis*; or,
  - c. The commodity is destined to a commercial processing facility.
- 3. At the retail level, articles and commodities covered which have been commercially produced are prohibited movement from or within the area under quarantine** except when the person in possession has a sales slip or other comparable document showing the commodity was purchased from a commercial establishment.
- 4. Articles and commodities covered which have been non-commercially produced within the area under quarantine,** including "backyard" production, are prohibited movement from the premises where grown except under written authorization of the Secretary or county agricultural commissioner.
- 5. Articles and commodities covered which have been non-commercially produced outside the area under quarantine** are prohibited movement into the area under quarantine except when

the person in possession has signed a statement showing the commodity, amount, origin, destination, and date of transportation.

6. **Within the area under quarantine, no wholesale or retail establishment shall handle, sell or offer for sale any article or commodity covered** unless such commodities at all times are maintained in a manner approved by the Secretary to preclude exposure to Oriental fruit fly.