

California Citrus to China 2022-2023

USDA-APHIS-PPQ, California Program Managers

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Getting Started

- Requirements apply to all citrus varieties.
- Register with APHIS through CCQC
 - List will be sent to China
- Prepare Standard Operating Procedures (SOP)
 - Must include how fruit for export to China will be separated in the field and packing house.
- Sign and comply with "Industry Affirmation Agreement For China Citrus Exports."
- Grower lot list
 - Lots removed must be documented to keep the ineligible lots from being presented for inspection and export.



Requirements

- Only fruit from approved counties is allowed.
- Skirt prune trees in participating orchards
 - No fruit or branches touching the ground
 - Must be maintained
- Mandatory pre-harvest treatment with a copper fungicide just after the first rain (typically between Oct 15 and Nov 30).
 - CCQC will notify packinghouses when additional applications are needed. Additional applications are mandatory
 - Do not have to contain copper (consult CCQC and GAPs document for alternate fungicides).
 - Applications need to be made to the entire tree
 - Pesticide Use Reports need to be made available if requested.



Field Monitoring

Mandatory field monitoring

- Conducted at least one week before harvest
- If more than 5 symptomatic brown rot fruit per acre are found above 20 inches from the ground then the orchard is ineligible.
 - If Tulare origin: 0 symptomatic fruit are allowed.
- Verify adequate skirt pruning and required fungicide applications have been made
- Document on "China Orchard Monitoring Record."



China Orchard Monitoring Record	
Grower/Ranch Name	

China Protocol Monitoring Frequency: Groves should be monitored monthly or within 14 days after every major rainfall, and one week before each harvest. **Minimum requirement is to monitor one week before each harvest.**

Grower Number	Lot Number	Block Number	Monitoring Date	Harvest Date	Who Monitored	Checked	Completed		Brown Rot above	Monitoring Results
						Skirt Pruning	1 st Spray	2 nd Spray	20 inches from ground	and Comments
			mm/dd/yy	mm/dd/yy		✓	✓	✓	Yes/No	
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Requirements cont.

- Fruit being exported to China must be harvested at or above 50 cm (approx. 20 inches) from the ground
- Screen for Phytophthora spp. in the packinghouse and remove any decayed fruit
 - P. syringae or P. hibernalis found will suspend orchard block for the season.
- Fruit must be treated with a fungicide prior to packing

Requirements cont.

- Incubation (Tulare grown fruit only)
 - Two weeks before harvest
 - Fruit samples taken above 20" from the ground
 - 100 fruit for the first 12.35 acres + 30 fruit for each additional 12.35 acres per block
 - Incubate for two weeks at 41°F
 - If any brown rot is found the orchard block is suspended from China for the season
 - Suspect fruit sent to UC Kearney for identification.
 - Documented on "Citrus to China Incubation Log"



Citrus to China incubation log for citrus grown in Tulare County

- In addition to field monitoring, fruit incubation is required for Tulare County groves only.
 Two weeks before harvest, fruit should be collected above 50 cm (20 inches) from the ground for each grower lot as follows:
 - 100 fruit for the first 12.35 acres (5 hectares) and 30 fruit for each additional
 12.35 acres (5 hectares) for each orchard block. (For example, collect 190 fruit for a 42 acre block)
 - o Incubate the fruit for two weeks at 5 C (41 F)
 - o Evaluate fruit for brown rot decay. If any brown rot is found, the lot is ineligible for shipment to China (use sample form to send suspects to UC Kearney)
 - o Packinghouses should keep records on their incubation results
- Since incubation will be for brown rot (any *Phytophthora* species) the use of test strips will
 not be necessary. Test strips are only necessary to distinguish among *Phytophthora* species.
 Any species of *Phytophthora* that is found during incubation will disqualify the lot for
 shipment to China.

Block or lot #	Acres in block	# of fruit incubated	Start date / Room temp.	End date	Results – Rot detected - Y/N
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Requirements cont.

- Citrus destined for China must be kept segregated from other fruit
- Safeguard the citrus from pest reinfestation
- The carton needs to indicate the fruit name and name of packing facility in Chinese or English



Phytosanitary Inspection

- County will inspect 2% of the fruit being certified for export
 - 3% for Tulare County grown fruit.
 - The inspection amount will be from a representative sample of the grower lots making up the shipment
- Zero tolerance for fruit showing signs of decay
 - If any decay is found then that grower lot will be rejected
 - P. syringae or P. hibernalis found will suspend orchard block for the season
- Fruit must be free of quarantine pests of concern to China



China inspection

- Will verify that markings on carton are from the approved registration list
 - If product is not on the registration list it will be rejected
- If Med fly or Mex fly is found the product will be rejected and the facility or the orchard will be suspended



China inspection cont.

- 1st incidence of a pest from Citrus Work Plan California section I, subpart B > the product will be treated and facility will need to implement appropriate corrective measures
 - Note: work plan incorrectly references Article 13 for above information
- 2nd incidence of the same pest > the relevant orchards will be suspended until an investigation has been conducted and additional corrective measures are taken
- If any other pest of quarantine concern to China are found the fruit will be treated



Additional Information

- The name of the facility listed in the additional declaration on the phytosanitary certificate must be on the approved facility list and match the label on the carton
- All shipments must list the ocean container on the phytosanitary certificate
- Trucks can not transit through a Med Fly quarantine unless the container is sealed (prevent entry of pest)

Approved Counties

- Butte County
- Fresno County
- Glenn County
- Imperial County
- Kern County
- Kings County
- Madera County
- Mariposa County
- Merced County
- Monterey County
- Orange County

- Placer County
- Riverside County
- San Bernardino County
- San Diego County
- San Luis Obispo County
- Santa Barbara County
- Santa Clara County
- Stanislaus County
- Tulare County
- Ventura County



Citrus Work Plan – California section I, subpart B pests

- Ceratitis capitata (Mediterranean Fruit Fly)
- Anastrepha ludens (Mexican Fruit Fly)
- Frankliniella occidentalis (Western Flower Thrips)
- Pantomorus cervinus (Fuller Rose Beetle)
- Citrus crinkly leaf virus
- Citrus infectious variegation virus
- Citrus psorosis virus
- citrus xyloporsis viroid
- Xanthomonas campestris pv. citri

Contact Information

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