



APHIS-Approved Packing House Procedures for
Elsinoë australis,
Causal Agent of Sweet Orange Scab (SOS)

A) Regulated fruit of *Citrus* spp. and *Fortunella* spp. from an SOS quarantined area can move interstate with a certificate to all States provided it has met all conditions of the SOS Federal Order and is treated as follows:

- 1) Washed, and
- 2) Brushed, and
- 3) Surface disinfected with at least one of the following treatments:

Treatment: D301.75-11(a-1) — Chemical Treatment

Thoroughly wet the fruit for at least 2 minutes with a solution containing 200 parts per million sodium hypochlorite. Maintain the solution at a pH of 5.5 to 7.0. Must be applied in accordance with label directions. Treatment must be applied in accordance with label directions.

Treatment: D301.75-11(a-2) — Chemical Treatment

Thoroughly wet the fruit with a solution containing sodium o-phenyl phenate at a concentration of 1.86 to 2.0 percent of the total solution. If the solution has sufficient soap or detergent to cause a visible foaming action, wet for 45 seconds. If the solution does not contain sufficient soap to cause a visible foaming action, wet for 1 minute. Treatment must be applied in accordance with label directions.

Treatment: D301.75-11(a-3) — Chemical Treatment

Thoroughly wet the fruit with a solution of 85 parts per million peroxyacetic acid (PAA) for at least 1 minute. Treatment must be applied in accordance with label directions.

- 4) Treated with an EPA-approved post-harvest fungicide labeled for use in citrus at the time of packing, and
- 5) Waxed

B) Regulated asymptomatic fruit of *Citrus* spp. and *Fortunella* spp., from an SOS quarantined area, can move interstate with a certificate to all States provided it has been inspected by an inspector, meets all other conditions of the SOS Federal Order, and is treated as follows:

- 1) Washed, and
- 2) Brushed, and
- 3) Surface disinfected with an organic disinfectant, such as PAA or hydrogen peroxide).
Treatments must be applied in accordance with label directions.

C) Regulated fruit of *Citrus* spp. and *Fortunella* spp., from an SOS quarantined area, can move interstate with a limited permit to non-commercial citrus-producing areas provided it meets all other conditions of the SOS Federal Order, and is treated as follows:



- 1) Washed, and
- 2) Brushed, and
- 3) Surface disinfected with an organic disinfectant, such as PAA or hydrogen peroxide. Treatments must be applied in accordance with label directions.

D) Regulated fruit from an SOS quarantined areas, that is destined for processing in a commercial citrus-producing area outside the SOS quarantined area, may move interstate under limited permit provided it meets all other conditions of the SOS Federal Order, and is treated as follows:

- 1) Washed, and
- 2) Brushed, and
- 3) Surface disinfected with one or more of the disinfectants listed in A3 above, or an organic disinfectant, such as PAA or hydrogen peroxide. Treatments must be applied in accordance with label directions.

E) References

USDA APHIS PPQ. Treatment Manual in Agricultural Commodity Import Requirements (ACIR). Sections D301.75-11 (a-1), (a-2), and (a-3).

[Treatments - D301 - Schedules for Domestic Movement of Regulated Articles](#) (Published 9/27/2023).

USDA APHIS PPQ, 2010. The significance of *Citrus* spp. fruit as a pathway for the introduction or spread of *Elsinoë australis*, the organism that causes Sweet orange scab disease. Center for Plant Health Science and Technology, Plant Epidemiology and Risk Analysis Laboratory, Raleigh, NC, USA.

USDA APHIS PPQ, April 2024. DA-2024-12: Domestic Quarantine for Sweet Orange Scab (SOS) and Revised Conditions for the Interstate Movement of Citrus Nursery Stock and Packing House Procedures for Citrus Fruit. <https://www.aphis.usda.gov/sites/default/files/da-2024-12.pdf>