

The Apple Maggot Quarantine

Overview, Regulations, Special Permits

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Apple Maggot (Rhagoletus pomonella)



Hosts

- Apple trees
- Hawthorn trees
- Crab apple trees

Spread by

- Homegrown fruit
- Municipal waste

Risk to apple industry

 Cost over \$500 million annually if pest established

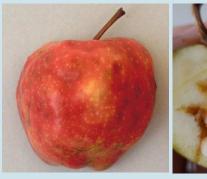




Potential Impacts









Damage to fruit

Dimpling, brown trails, and misshapen fruit

Reduced yield

Fruit is no longer fit for human consumption

Trade impacts

Domestic and international trade restrictions

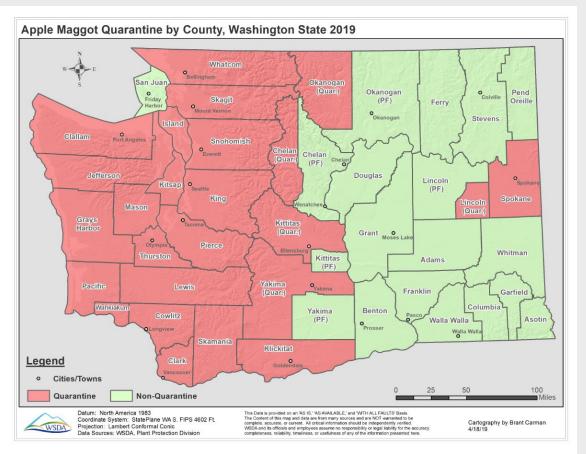
Apple Maggot Quarantine



DON'T CROSS THE LINE

No Homegrown Fruit Beyond This Point

Entering Apple Maggot Pest - Free Area



Chapter 16-470 WAC









WAC 16-470-111

Commodities regulated for apple maggot.

Finished compost is not regulated.

WAC 16-470-115

Requirements for shipment of regulated commodities from AM Q to PFA.

WAC 16-470-124

Special permit for solid waste and organic waste transport.

WSDA Special Permit



Required when transporting MSW or MGW from an apple maggot quarantine area into or through a pest-free area.

Municipal Solid Waste (MSW)

Municipal Green Waste (MGW)



Municipal Solid Waste (MSW)





- Separation of waste
 - Monitored & managed
- Green waste
 - Kept in quarantine area
- Covered during transport

Municipal Green Waste (MGW)



- Processing
- Heat treatment
 - Option 1: 55°C (131°F) for 2 weeks, 65°C (149°F) for 1 week, enclosed facility: 60°C (140°F) for 1 week
 - Option 2: 74°C (165°F) for 4 hours, 80°C (176°F) for 2 hours, 90°C (194°F) for 1 hour
- Sanitation
- Validation of system and annual monitoring

Options for Treatment and Disposal



- Steam treatment system
- 2018 Ecology & WSDA Report: (Publication # 18-07-026)
 - Facilities
 - Composting
 - Chipping
 - Biochar
 - Biomass electrical generation





To Learn More









Apple maggot is a pest that threatens Washington's lonic apple industry, as well as many of our other fruit crops. Apple maggot is pread through the transport of homegrown fruit and municipal waste into the pest-free areas of the state. Common fruits it targest include apple, crab apple, and hawthorn, among others. Apple maggot has never been detected in commercially packed Washington fruit, and by working together we continue to safeguard our farms, orchards, and fruit industry.

Photo: Joseph Berger, Bugwood.org











COMMERCIAL FRUIT GROWERS



QUARANTINE AREA RESIDENTS



GREEN WASTE



SOLID WASTE



LANDSCAPE PROFESSIONALS