

Cedar-Quince Rust

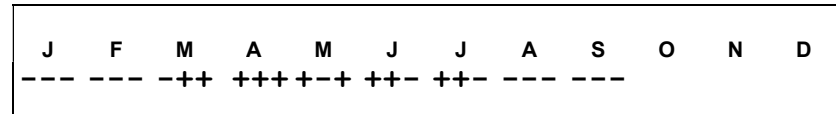
*Gymnosporangium clavipes*  
Cooke & Peck



ALTERNATE: Dept of Rec & Parks HQ,  
Columbia, 5/8/2018, S. Muller.  
CLOSEUP (immature): Dunloggin Park, 7/6/2014,  
N. Magnusson.  
CLOSEUP (immature): Western Regional Park,  
7/12/2014, R. Orr.  
CLOSEUP (on fruit): Western Regional Park,  
7/12/2014, R. Orr.  
FRUIT: Elkridge ES, 6/5/2020,  
S. Muller.

Cedar-Quince Rust

*Gymnosporangium clavipes*  
Pucciniaceae



**ID:** Galls in quince, pear, apple and other trees produce jelly-like horns.

**Habitat:** Cedar and quince (and other *Rosaceae*) trees (alternate hosts)

**Fruiting Body:** 1 – 2 " gall [2.5 – 5 cm]

Small, greenish-brown swelling on twigs in fall. Overwinters as reddish dark-brown gall w/ small, circular depressions. In spring produces orange (immature) to orange-brown (mature) jelly-like horns (3/8 – 3/4" [1 – 2 cm]).

**Spores:** Irregularly ellipsoid, 2-celled, brownish walls.

**Frequency:** Occasional.

**Locations:** GULPKI, OTHER (3), WSTRP.

**Notes:** Mycobank 178591. The fungus infects a wide range of *Rosaceae*, such as apple, hawthorn and quince trees, and also requires an evergreen host such as Eastern Red Cedar or a number of other juniper species to complete its life cycle.\* Species of *Amelanchier*, *Aronia*, *Chaenomeles*, *Crataegus*, *Mespilus* and *Photinia* have also been recorded as hosts.\*\* Bottom three photos on left were on Bradford Pear (*Pyrus calleryana*).

**References:** E&S 330. \*Wikipedia,

<http://www.cafcs.wvu.edu/kearneysville/pdfFiles/quincerust.PDF>,

\*\*[http://www.eppo.int/QUARANTINE/fungi/Gymnosporangium\\_clavipes/GYMNCL\\_ds.pdf](http://www.eppo.int/QUARANTINE/fungi/Gymnosporangium_clavipes/GYMNCL_ds.pdf)  
<http://extension.illinois.edu/hortanswers/detailProblem.cfm?PathogenID=8>



SPORES (47.0-57.1 [63.5] x 23.4-26.0 µm):  
Dept of Rec & Parks HQ, Columbia,  
5/8/2018, R. Solem.