

PINE NEEDLE RUST

TREES AT RISK:

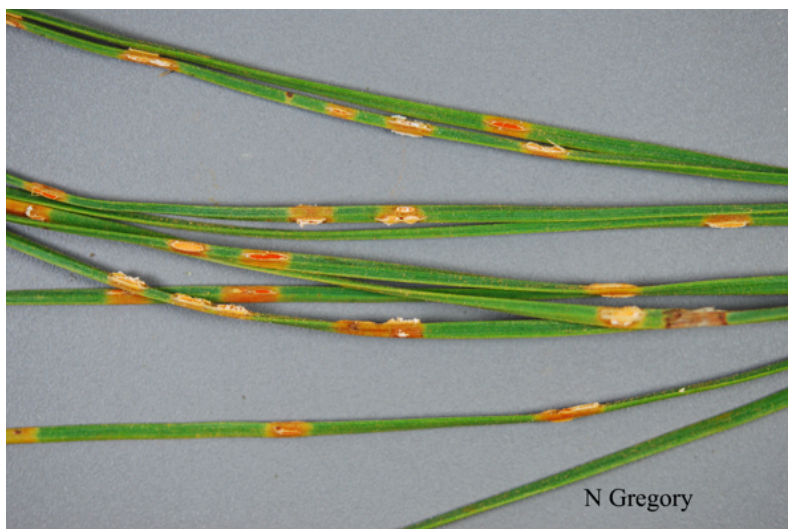
- Red, Scotch, and other two-three needle pines (Alternate Hosts: Goldenrod & Aster)

IMPORTANT:

- Inspect Pines in May-June
- Most common on young trees inspect trees that are 3-6 years old
- Inspect Aster and Goldenrod in August-September
- Contact your local Diagnostician for extra information and treatment options

WHAT TO LOOK FOR:

- **April to May (Early Spring)**
 - **Orange scale like structures on needles of the lower branches**



- **May to June (late spring-early summer)**
 - **Orange scales begin to erupt and release spores**



- **Summer**
 - **Orange color spores on the underside of the Aster and Goldenrod**
- **Late summer- Early fall**
 - **Orange spores become a cushiony pin-pad like bumps on underside of leaves of aster**

RECOMMENDATIONS:

- Remove aster and goldenrods around property before august or at least within 1000 feet of newly planted trees, this will not let the fungus complete its life cycle. However the fungus overwinters in the pine needles and can survive for 2 years.
- Remove fallen needles, branches, and severely infected trees

COMMONLY CONFUSED WITH:

- N/A