

Onion Exotic Pest Identification • 2018



Image courtesy of Howard F. Schwartz, Colorado State University, Bugwood.org (inset Bruce Watt, University of Maine, Bugwood.org)

Onion rust

RISK RATING: MEDIUM – HIGH

- Affects foliage
- Dispersed via wind; infected plant material (mother bulbs); imported garlic planted in backyard gardens
- Currently widespread infection worldwide, including New Zealand



Pest and Diseases Image Library, Bugwood.org

Onion fly

RISK RATING: HIGH

- Affects bulbs, foliage, roots and seedlings
- Dispersed via infested soil and plant material
- Currently found in palearctic Asia, Americas and Europe



Image courtesy of Howard F. Schwartz, Colorado State University, Bugwood.org

Onion smut

RISK RATING: HIGH

- Affects whole plant
- Dispersed via soil, bulbs as a possible minor contaminant of seed
- Currently widespread infection worldwide, except Australia (eradicated October 2017)



Image courtesy of Whitney Cranshaw, Colorado State University, Bugwood.org

Onion thrips

RISK RATING: HIGH

- Affects foliage, bulbs and flowers
- Dispersed via infested plant material and capable of flight
- Currently found in Africa, Asia, Central and Southern America, and limited distribution in Northern America



Image courtesy of Whitney Cranshaw, Colorado State University, Bugwood.org (inset Pest and Diseases Image Library, Bugwood.org)

Vegetable leafminer

RISK RATING: HIGH

- Affects foliage, bulbs and flowers
- Dispersed via infested planting material
- Currently found in Africa, Asia, Central and Southern America, and limited distribution in Northern America

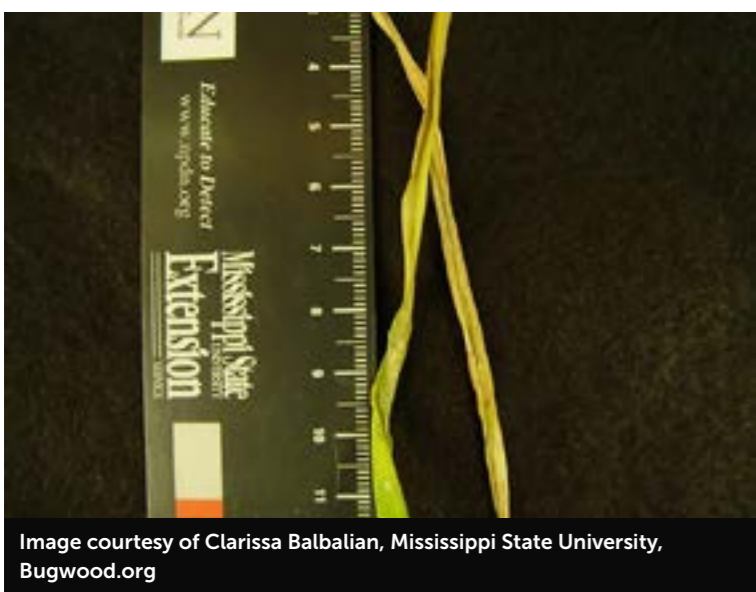


Image courtesy of Clarissa Balbalian, Mississippi State University, Bugwood.org

Leaf blotch

RISK RATING: HIGH

- Affects foliage
- Dispersed via infected debris, soil and seed
- Currently found in parts of Europe and Northern America



Image courtesy of Lindsey du Toit, Washington State University, Bugwood.org (inset David B. Langston, University of Georgia, Bugwood.org)

Leaf and neck rot

RISK RATING: HIGH

- Affects foliage
- Dispersed via infested soil, plant material, wind and rain
- Currently found worldwide in appropriate conditions, except Australia



Image courtesy of Howard F. Schwartz, Colorado State University, Bugwood.org

Xanthomonas leaf blight

RISK RATING: HIGH

- Affects foliage
- Dispersed via infested soil and plant material and seed
- Hosts include onion, garlic, leek, chives, shallot and Welsh onion
- Currently found in the Americas, parts of Asia and Southern Africa



Knot in the onion root as a result of the nematode. Image sourced by Seminis courtesy of Lindsey du Toit of Washington State University.

Root knot nematode

RISK RATING: HIGH

- Affects roots
- Dispersed via soil, water, infested plant material
- Currently found in Africa, Asia, Central and Southern America. Limited distribution in North America



Image of *Delia antiqua* (close relative of the bean fly) sourced by Seminis courtesy of Brian Nault of Cornell University.

Bean fly

RISK RATING: HIGH

- Affects bulbs and seedlings
- Dispersed via infested soil and plant material
- Currently found in North America, Western Europe and the Mediterranean region, Russia, and Central and eastern Asia



Image sourced by Seminis

Bacterial soft rot (exotic strain)

RISK RATING: HIGH

- Affects bulbs and roots
- Dispersed via soil and water in association with plant residues
- Currently found worldwide in appropriate conditions, except Australia
- **NB:** Be alert for outbreaks of exotic strains of Bacterial Soft Rot which may be more damaging or less responsive to treatments.

EXOTIC PLANT PEST HOTLINE
1800 084 881



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For more information and the latest biosecurity updates visit www.planthealthaustralia.com.au

