



ALERT!

SOUTHERN BACTERIAL WILT

Ralstonia solanacearum

Race 3 Biovar 2 (r3b2)



APHIS/PPQ
CCE
NYS - DEC,
DOT, DPW,
DOH, DEP
PRISM

HAVE YOU SEEN ANY OF THESE?

1. Wilted geraniums?
2. Abnormal yellowing of leaves?
3. Black stems and/or roots?



Necrosis & chlorosis (stem wilt and yellowing leaves)



Early wilt



Early Stages of Wilt



Diseased Plant



Advance wilting

SOUTHERN BACTERIAL WILT (SBW)

Design by: New York State Department of Agriculture & Markets

1. SYMPTOMLESS STOCK PLANTS



2. SYMPTOMLESS CUTTINGS



Symptomless unrooted cuttings arrive from a country outside the U.S.A. where *Ralstonia solanacearum* r3b2 is endemic.

4. QUARANTINE & DIAGNOSIS

Plants with suspicious symptoms are quarantined and samples are sent to the NEPDN lab for initial diagnostic screening by ELISA, to be followed by PCR if initial tests are positive.



3. SYMPTOMS APPEAR

Infected plants develop symptoms of leaf chlorosis: necrotic wedges, wilt and stunted growth.



Disease cycle interrupted by quarantine actions: eradication and sanitation

Globally there are five races of Southern Bacterial Wilt (SBW) with different hosts and geographic distributions.

- Race 1 - Wide host range and is endemic to the Southern United States
- Race 2 - Main host is bananas found in the Caribbean, Brazil, and the Philippines
- Race 3 - Affects geranium, potato, tomato, peppers and eggplant worldwide *except in the United States and Canada*
- Race 4 - Affects ginger in much of Asia
- Race 5 - Affects mulberries in China

The federal-state Cooperative Agricultural Pest Survey (CAPS) program is focused on the early detection of exotic invasive agricultural pests. State inspectors and cooperators target invasive insects, diseases and weeds considered to have a high probability for introduction and establishment in the State and the U.S. Exotic Invasives have the potential to seriously impede our ability to move plants and plant products domestically and abroad in addition to posing a significant risk to the environment.

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Check out New York CAPS
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invasive species