



Halo Blight

Pseudomonas syringae pv. *phaseolicola*



FIGURE 1



FIGURE 2



FIGURE 3



Halo Blight

Pseudomonas syringae pv. *phaseolicola*

AUTHORS: H.F. Schwartz (Colorado State University), M.A.C. Langham (South Dakota State University), R.M. Harveson (University of Nebraska), and G.D. Franc (University of Wyoming)

PHOTOGRAPHS: Courtesy of H. F. Schwartz [06/09]

COMMON HOSTS: Common bean, Lima bean, Soybean

SYMPTOMS (ON COMMON BEAN):

FIGURE 1 • Medium, circular, chlorotic to yellow-green (4–8 mm or ¼–½ inch diameter), necrotic (1–2 mm or ⅛–⅓ inch diameter), water-soaked lesions on upper and lower leaf surfaces; lesions may develop on petioles and stems

FIGURE 2 • Lesion coalescence, plant yellowing and translocation of toxin to new upper growth with leaf distortion; chlorosis may be less noticeable at high temperatures or later in the season

FIGURE 3 • Small to medium (less than 3 mm or ⅛ inch diameter), circular, water-soaked and necrotic lesions on bean pods and seed

FACTORS FAVORING:

- Infected seed, infested debris and volunteers from previous seasons
- Rainstorms and sprinkler irrigation
- Moderate temperatures with daily highs less than 25°C [77°F]

ADDITIONAL DIAGNOSTICS AVAILABLE AT:

<http://legume.ipmpipe.org>

<http://wiki.bugwood.org/PIPE:Legume>

<http://www.npdn.org/DesktopDefault.aspx>