

# Common Rust

*Uromyces appendiculatus*



FIGURE 1



FIGURE 2



FIGURE 3

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*Uromyces appendiculatus*

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**PHOTOGRAPHS:** Courtesy of H.F. Schwartz & S.G. Markell [08/09]

**COMMON HOSTS:** Common bean, Lima bean

**SYMPTOMS (ON COMMON BEAN):**

**FIGURE 1** • Reddish brown, circular pustules or uredinia up to 6 mm in diameter (¼ inch) form on leaves or stems, rarely pods. Uredinia may be surrounded by a yellow halo, and commonly occur on both surfaces of leaves.

**FIGURE 2** • Spores feel like fine powder, and leave dusty streaks when uredinia are rubbed.

**FIGURE 3** • Dark brown to black telia up to 6 mm in diameter (¼ inch) may form on leaves, stems or pods later in the season. This spore stage will overwinter and does not re-infect current season beans.

**FACTORS FAVORING:**

- Infested debris and volunteers from previous season
- Rainstorms, dew, fog and irrigation
- Regional weather systems and wind patterns
- Moderate temperatures with daily highs less than 30°C [86°F], especially during V4 to R4 growth stages
- Delayed maturity may expose legumes to late-season disease pressure

**ADDITIONAL DIAGNOSTICS AVAILABLE AT:**

<http://legume.ipmpipe.org>

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

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