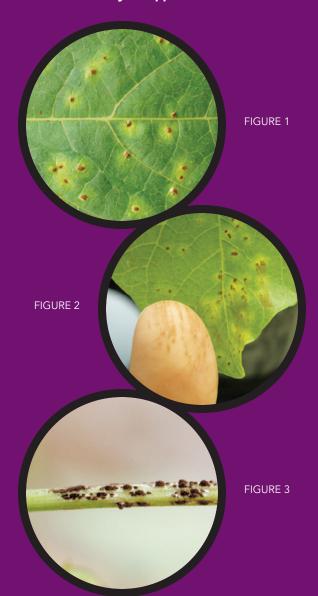


## **Common Rust**

Uromyces appendiculatus





# Legume ipmPIPE Diagnostic Pocket Series

### **Common Rust**

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 lateseason disease pressure

### ADDITIONAL DIAGNOSTICS AVAILABLE AT:

http://legume.ipmpipe.org http://wiki.bugwood.org/PIPE:Legume http://www.npdn.org/DesktopDefault.aspx