

### Summary

Crop management plays an important role in controlling take-all induced yield losses and reduced profitability. But remember, adoption of a complete management package produces the best results . . . and best returns. Summarized recommendations include:

#### Pre-plant management

- **Liming.** A soil pH of 5.5 is desirable for combating take-all. Apply lime only if the soil pH is 5.2 or less.
- **Stubble.** Chop stubble and plow deeply to bury the inoculum.

#### Planting

- **Planting date.** On well-drained valley-floor soils, delay planting until late October if possible. Do not delay planting beyond mid-October on hill soils or valley-floor soils with reduced drainage.

- **Fertilization.** Band 20 to 30 lb N/A as ammonium, 30 to 50 lb  $P_2O_5$ /A and 10 to 15 lb S/A. Apply 25 to 30 lb  $K_2O$ /A if a soil test indicates the need for K.

#### Growing season

- **Fertilization.** Apply 140 to 180 lb N/A as  $(NH_4)_2SO_4$  plus 100 lb Cl/A as KCl before Feekes growth stage 5. Alternatively, apply 40 lb N/A and 100 lb Cl/A at late tillering (Feekes 4; mid-Feb.) and the remaining N within 3 to 4 weeks, but before jointing (Feekes 6).
- **Weed Control.** Control weeds to minimize competition with wheat for nutrients and moisture.
- **Disease Control.** Control leaf diseases such as Septoria and other root diseases by using resistant varieties or fungicides to ensure maximum benefit from other aspects of this management plan to reduce yield loss from take-all. ■

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