

Foliar applied potassium nitrate reduced rice lodging incidence from 40% to 15%

Decreased lodging and increased stalk strength are associated with proper K nutrition Therefore, the effect of K treatments on lodging of Baldo tall rice variety was studied at Qulin, Missouri (USA) in 1999 and 2000. A silty loam soil having 123 kg  $NH_4OAc$  extractable K/ha was used. Preplant application consisted of 54 kg  $K_2O/ha$  and midseason of two applications of 27 kg  $K_2O/ha$ , using KCl as K source. Two applications of 14 kg  $K_2O/ha$  as potassium nitrate (2 \* 30 kg = 60 kg  $KNO_3/ha$ ) were compared to soil-applied KCl. Lodging of Baldo was significantly reduced by foliar applications with potassium nitrate at midseason (Figure 1).

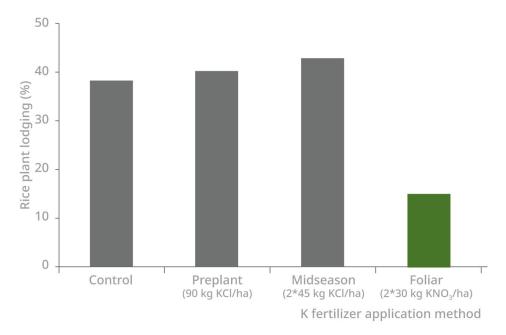


Figure 1.

Effect of K treatments on lodging of Baldo tall rice variety averaged across 1999 and 2000.