

UTILITY OF STAPLE LX IN LIBERTY LINK COTTON IN LOUISIANA

D.K. Miller
M.S. Mathews
LSU AgCenter
St. Joseph, LA.

Abstract

A field study was conducted in 2010 to evaluate the effectiveness of Staple LX herbicide in weed control programs with Liberty Link cotton in Louisiana. 'FM1845LLB2' cotton was planted on May 26. Soil was a silt loam with pH 6.8. Treatments included Staple LX @ 2 oz/A plus Direx @ 16 oz/A or Reflex @ 16 oz/A applied PRE followed by Ignite @ 29 oz/A plus Staple LX @ 1.7 oz/A Mid POST (12 lf), Ignite @ 29 oz/A plus Staple LX @ 1.7 oz/A applied Mid POST; Ignite @ 29 oz/A plus Staple LX @ 2.7 oz/A applied Early POST (2-3 lf); Ignite @ 43 oz/A plus Staple LX @ 2 oz/a applied Early POST; Ignite @ 29 oz/A plus Staple LX @ 2 or 2.7 oz/A applied Early POST followed by Late POST (4" bark); and Ignite @ 29 oz/a applied Early POST followed by Late POST. Parameter measurements included weed control and crop injury 14 d after PRE, 7 d after Early Post, 14 d after Mid POST, 21 d after Late POST, and seedcotton yield.

At 14 d after PRE applications, Staple LX in combination with either Direx or Reflex resulted in complete control of all weeds evaluated and resulted in no injury. Control of hemp sesbania, sicklepod, pitted and entireleaf morningglory, redroot pigweed, yellow nutsedge, large crabgrass, and barnyardgrass was at least 98, 98, 100, 93, 95, 88, 98, and 96%, respectively, 7 d after the 2-3 leaf application and equal for treatments evaluated. Treatments including a PRE application followed by a Mid Post application resulted in equal control of all weeds evaluated of at least 89%. Likewise, treatments including a Late Post application following a Mid Post application resulted in at least 88% control of all weeds. Seedcotton yield ranged from 1791 lb/A to 3532 lb/A and was equivalent for all treatments.