Search Journal >

Home » Volume 7 / 2003 » Issue 4 »

Yield Of Glyphosate-Tolerant Cotton As Affected By Topical Glyphosate Applications On The Texas High Plains And Rolling Plains

Authors: Ginger G. Light, Todd A. Baughman, Peter A. Dotray, J. Wayne Keeling, and David B. Wester Pages: 231-235 Weed Science

Full Text PDF (61K)

Boll abscission may occur following glyphosate application to glyphosate-tolerant cotton (*Gossypium hirsutum* L.) due to altered male floral morphology and poor pollination. The ability of glyphosate-tolerant cotton to compensate for boll abscission ascribed to glyphosate may be limited with stripper-type cultivars grown on the Texas High Plains and Rolling Plains. The objective of this study was to determine yield response of stripper cotton to glyphosate applied postemergence topically after the four-leaf stage. On the Texas Rolling Plains, yields of cultivar Paymaster 2326RR were recorded following glyphosate applied postemergence at the 6-, 9-, or 12-node stages. On the Texas High Plains, yield of cultivars Paymaster 2326RR and Paymaster 2200RR was recorded following glyphosate applied postemergence to four locations, glyphosate applied postemergence to four-leaf cotton followed by glyphosate applied postemergence to 9- or 12- node cotton reduced yields. Yield also was reduced by glyphosate applied postemergence to mid-bloom cotton but not by glyphosate applied postemergence at six nodes above white flower or later. These studies suggest stripper-type glyphosate-tolerant cotton may suffer yield losses when glyphosate is applied contrary to the label.

The Journal of Cotton Science is published four times a year by <u>The Cotton Foundation</u>. Articles are available as Adobe PDF files and can be viewed with the free <u>Adobe Acrobat Reader</u>. Copyright ©1997-2005 The Cotton Foundation. All Rights Reserved.