Replanting Cotton Where Warrant® Herbicide was Previously Applied

What You’ll Learn...
- Cotton growers should be aware that previously applied herbicides have the potential to injure replanted cotton.
- The Warrant® Herbicide label allows replanting immediately, but cautions that crop injury could occur.
- Some weed scientists recommend a 14 to 21-day waiting period after Warrant Herbicide application before replanting.
- Keeping weeds controlled after replanting should also be a priority.

Replant Concerns
Unfavorable weather conditions this spring have damaged or killed cotton seedlings, leading to the need for replanting. In addition to carefully evaluating stands to determine the need to replant, farmers should also evaluate the potential impact of previously applied herbicides on replanted cotton, as well as their ongoing weed control plans.

Some herbicides, including Warrant® Herbicide, that come into contact with germinating seed, can cause significant crop damage. The Warrant Herbicide label states: “If a crop treated with this product is lost, corn (all types), cotton, soybeans, and milo (sorghum) may be replanted immediately, but could result in crop injury.”

Extension Recommendations
“Our data in Georgia suggests that farmers should wait 14 to 21 days after Warrant Herbicide application before replanting,” says Stanley Culpepper, weed scientist, University of Georgia. “If he pulls a ripper shank with untreated soil riding up the shank, I’m comfortable with waiting only 14 days. If he drops in and plants without tillage, I recommend waiting 21 days. I may be overly conservative, but who knows where the herbicides are after a 4-inch rain. Some farmers have had two 4-inch rains.”

Alan York, professor emeritus, North Carolina State University, says most North Carolina farmers will probably replant cotton without doing additional tillage. “Unless their strip-till rig is still attached to the planter, most farmers will not do any tillage before replanting. Our experience has shown Warrant Herbicide to be pretty safe on cotton.”

Keeping weeds controlled after replanting should be a priority. “I’d say half of the Warrant Herbicide is probably gone 3 weeks after application,” York says. “If you’re going to drop in and replant, I’d recommend putting on another 2 pints of Warrant Herbicide behind the planter. If you run a strip-till rig and disturb the soil, you probably will need the full rate. Another option is to use a herbicide you didn’t use earlier in the season. If you don’t have any Reflex® out, that’s a good choice. If you started with Warrant Herbicide and Reflex, you could use Cotoran® or diuron when you replant. If you had a full load up front, I think Warrant Herbicide is the safest for a repeat.”

Warrant® Herbicide may be applied preplant, at-planting, PRE and POST surface. Broadcast rates should be 3.0 to 4.0 pints/acre, depending on soil organic matter and texture. Do not exceed 4.0 pints/acre as a single application or 8.0 pints/acre (3 lb/acre acetochlor) per season when making multiple applications. Allow 7 days between sequential applications. Do not exceed a total of 3 applications per season. The recommended rate is 3 pints/acre and two applications per season.

Additional Weed Management Tips
Roundup Ready PLUS® Weed Management Solutions provide useful information about weed management, including how to reduce risk, how to manage risk and how to receive incentives to offset herbicide costs in qualifying crops. The platform features regionally-specific recommendations for using herbicides, as well as agronomic recommendations developed by leading university weed scientists. More information is available at www.roundupreadyPLUS.com.

Sources:
Personal interviews with Stanley Culpepper, weed scientist, University of Georgia and Alan York, Professor Emeritus, North Carolina State University (May 19, 2014).

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