



Replanting Lost Cotton Stands to Soybean or Sorghum



L. Braswell, C. Cahoon, R. Seagroves, and A. York

➤ Potential replant crops

Cotton herbicide	Soybean	Sorghum
Prowl or Treflan	OK	NO
Reflex	OK	NO
Valor	OK	OK
Warrant	OK	OK (treated seed)
Staple	NO	NO
Cotoran, diuron	?	?

➤ Previous research in Mid-South (AR, TN), clay loam and silt loam soils

- Sorghum more tolerant than soybean
- Diuron less injurious than Cotoran
- Soybean yield reduced 6-8 wk after Cotoran but not 3 wk after diuron
- Less injury when replacement crop planted no-till



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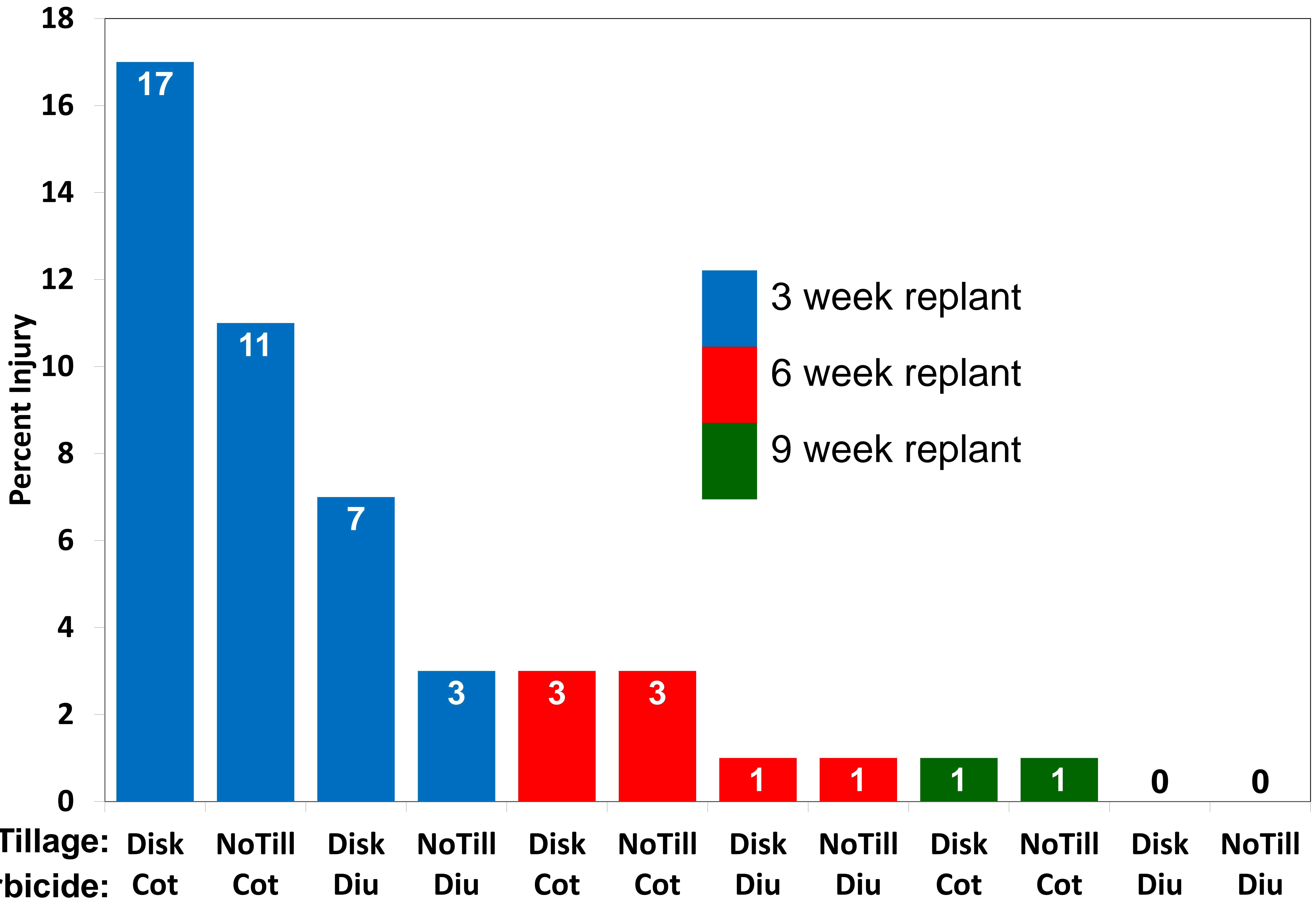


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- **Treatments:**
 - **Second year of experiment, total of 8 trials**
 - **Replacement crops: soybean and grain sorghum
separate trials for each crop**
 - **Herbicides: Cotoran or diuron PRE, broadcast**
 - **Time of replacement crop planting: 3, 6, 9 wks**
 - **Tillage for replacement crops: Disk or no-till**
 - **Sorghum on sand and sandy loam soils
Jackson Springs, Lewiston, Rocky Mount**
 - **Soybean on sandy loam soils
Clayton, Rocky Mount, Lewiston**

Soybean injury 3 weeks after planting

Injury not greater than 5% six weeks after planting





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Soybean and Sorghum Takeaways

- Both crops seem to be more sensitive to Cotoran
- Soybeans more sensitive than sorghum to both herbicides
- No benefit of tillage; possible increase in injury
- Potential stand reduction on both crops

Yield (based on 1 year of data)

- Strong main effect of planting delay on soybean
 - Higher yields with earlier plantings
- No yield impact on sorghum following diuron
- Cotoran reduced sorghum yields independent of planting delay
- Sorghum yields higher at 3 and 6 week replant