

**DROPP ULTRA AND GINSTAR DEFOLIATION  
PERFORMANCE IN THE MID-SOUTH,  
SOUTHEAST AND TEXAS**

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**Abstract**

Dropp Ultra 75WP (thidiazuron + diuron) and Ginstar 1.5EC (thidiazuron + diuron) were extensively evaluated in the Southeast, Mid-south and Texas for efficacy in cotton (*Gossypium hirsutum*) defoliation under varying environmental conditions.

Dropp Ultra + crop oil concentrate (112 g /ha + 1.2 l/ha) provided the best defoliation under all weather conditions in comparison to Dropp Ultra + COC (84 g/ha + 1.2 l/ha) or Dropp Ultra + Prep (ethephon), (112 + 840 g/ha). When temperatures were cool, Dropp Ultra + Def (S,S,S-tributyl phosphorotrithioate) or Harvade (dimethipin, 2,3-dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide) at 112 + 840 or 112 + 175 g/ha provided the best defoliation and both treatments were superior to the standard. Dropp Ultra + COC did not provide adequate defoliation when temperatures were cool. Dropp Ultra + Prep (112 + 280 g/ha) provided excellent defoliation under warm temperature regimes. Increasing the rate of Prep to 1120 g/ha increased regrowth control but decreased defoliation. Adding COC to Dropp Ultra + Prep did not improve performance.

Ginstar results from the Southeast, mid-south and Texas under warm temperatures showed that Ginstar (105 g/ha) provided excellent defoliation and was superior to the standard, Dropp 50WP + Def + Prep. A comparison of different Ginstar + Prep ratios showed that the rates of 105 + 1260 and 140 + 1680 g/ha provided the best defoliation and were superior in efficacy to Ginstar alone.