

**5 DAT and 12 DAT Cotton Defoliation Study Ratings for 2017 - Wharton County**  
**By Corrie Bowen**  
**August 11, 2017**

Attached are the final results for the cotton defoliation study that was sprayed on July 28, 2017 in Wharton, Texas. Ratings were taken at 5 and 12 days after the original treatment date of July 28, 2017. This email includes the results of the defoliation study taken at 12 days after the initial defoliation. Due to the recent rains on recently defoliated cotton, you may want to look at how the individual treatments rated for % regrowth. Below is the 12 DAT results. The attached file contains the 5 DAT, approximate cost/acre, and the 12 DAT results on page 2. The cotton variety on the site of the defoliation study was PHY 490, which was planted on March 22, 2017.

**2017 Cotton Harvest Aid Trial – Wharton County**

Cooperator: Josh Marek

Corrie Bowen, County Extension Agent, AG/NR - Wharton County

Kate Harrell, County Extension Agent, IPM – Wharton, Matagorda, Jackson County

Dr. Gaylon D. Morgan, Extension Cotton Agronomist

Dale A. Mott, Extension Program Specialist

First application (App Timing A) was made on July 28, 2017. Ratings were taken on August 2, 2017

Second application (App Timing B) was made on August 4, 2017

Cost per acre is approximate and should only be used to determine relative cost of applications.

Treatment	Product	Rate	App Timing*	% Defoliation August 2, 2017 5 Days After Trt.	% Desiccation August 2, 2017 5 Days After Trt.	% Green Leaf August 2, 2017 5 Days After Trt	% Unopened Boll August 2, 2017 5 Days After Trt	Approximate Cost, \$/acre
1	Untreated Check			0.0 f	0.0 d	100 a	12.90 a	\$0.00
2	Thidiazuron SC	2.4 oz/a	A	88.3 a	3.7 c	8.0 e	9.37 a	\$3.88
	Ginstar	2 oz/a	A					
3	Thidiazuron SC	2.4 oz/a	A	76.7 bcd	5.0 bc	18.3 cd	5.87 a	\$7.75
	Ethephon	21 oz/a	A					
	Ginstar + NIS(0.25%)	2 oz/a	B					
4	Thidiazuron SC	2.4 oz/a	A	58.3 e	5.0 bc	36.7 b	8.10 a	\$7.02
	Ethephon	21 oz/a	A					
	Folex	4 oz/a	A					
5	Thidiazuron SC	2.4 oz/a	A	73.3 d	5.0 bc	18.3 cd	7.70 a	\$8.04
	Ethephon	21 oz/a	A					
	Folex	6 oz/a	A					
6	Thidiazuron SC	2.4 oz/a	A	85.0 ab	5.0 bc	10.0 de	5.87 a	\$11.51
	Folex	4 oz/a	A					
	Ethephon	24 oz/a	B					
	Folex	8 oz/a	B					
7	Thidiazuron SC	2.4 oz/a	A	75.0 cd	6.7 ab	18.3 cd	7.37 a	\$12.64
	Ginstar + NIS(0.25%)	2 oz/a	A					
	Aim + NIS(0.25%)	1.5 oz/a	B					
8	Thidiazuron SC	2.4 oz/a	A	83.3 abc	6.7 ab	10.0 de	9.57 a	\$16.96
	Sharpen + MSO (1.0%v/v)	0.5 oz/a	A					
	Sharpen + MSO (1.0%v/v) + AMS(7.5lb/100 gal)	1 oz/a	B					
9	Thidiazuron SC	2.4 oz/a	A	73.3 d	5.0 bc	20.0 c	8.07 a	\$11.04
	Ethephon	21 oz/a	A					
	ETX + COC (1.0%v/v)	1.3 oz/a	B					
10	Thidiazuron SC	2.4 oz/a	A	68.3 d	6.7 ab	25.0 c	11.47 a	\$10.22
	Ginstar + NIS (.25%v/v)	2 oz/a	A					
	Aim + NIS (.25%v/v)	1 oz/a	B					
11	Thidiazuron SC	2.4 oz/a	A	73.3 d	8.3 a	18.3 cd	6.23 a	\$14.73
	Finish 6 Pro	21 oz/a	A					
	Ginstar + NIS(.25%v/v)	2 oz/a	B					
12	Thidiazuron SC	2.4 oz/a	A	76.7 bcd	5.0 bc	18.3 cd	9.2 a	\$17.43
	Finish 6 Pro	21 oz/a	A					
	Gramoxone + NIS (.25%v/v)	24 oz/a	B					
13	Ethephon	21 oz/a	A	73.3 d	5.0 bc	18.3 cd	7.00 a	\$7.81
	Ginstar + MSO (1.0%v/v)	2 oz/a	A					
14	Thidiazuron SC	1.2 oz/a	A	85.0 ab	5.0 bc	10.0 de	12.53 a	\$3.29
	Ginstar + MSO (0.5% v/v)	1 oz/a	A					

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

**Table 2. 12 DAT Evaluation of % Defoliation, % Desiccation, % Green Leaf, % Unopened Boll, and % Regrowth**

Treatment	Product	Rate	App Timing*	% Defoliation August 9, 2017 12 Days After Trt.	% Desiccation August 9, 2017 12 Days After Trt.	% Green Leaf August 9, 2017 12 Days After Trt.	% Unopened Boll August 9, 2017 12 Days After Trt.	% Regrowth August 9, 2017 12 Days After Trt.
1	Untreated Check			0.0 d	0.0 a	100 a	0.0 a	40 a
2	Thidiazuron SC	2.4 oz/a	A	94.7 a	0.0 a	5.3 d	0.0 a	16.6 c de
	Ginstar	2 oz/a	A					
3	Thidiazuron SC	2.4 oz/a	A	95.3 a	0.7 a	4.0 d	0.0 a	13.0 ef
	Ethephon	21 oz/a	A					
	Ginstar + NIS(0.25%)	2 oz/a	B					
4	Thidiazuron SC	2.4 oz/a	A	75.0 c	0.0 a	25.0 b	0.0 a	28.2 b
	Ethephon	21 oz/a	A					
	Folex	4 oz/a	A					
5	Thidiazuron SC	2.4 oz/a	A	85.0 b	1.7 a	13.3 c	0.0 a	20.0 c
	Ethephon	21 oz/a	A					
	Folex	6 oz/a	A					
6	Thidiazuron SC	2.4 oz/a	A	99.3 a	0.0 a	0.7 d	0.0 a	11.3 fg
	Folex	4 oz/a	A					
	Ethephon	24 oz/a	B					
	Folex	8 oz/a	B					
7	Thidiazuron SC	2.4 oz/a	A	94.3 a	0.7 a	5d	0.0 a	14.0 def
	Ginstar + NIS(0.25%)	2 oz/a	A					
	Aim + NIS(0.25%)	1.5 oz/a	B					
8	Thidiazuron SC	2.4 oz/a	A	98.7 a	0.0 a	1.3 d	0.0 a	8.2 g
	Sharpen + MSO (1.0%v/v)	0.5 oz/a	A					
	Sharpen + MSO (1.0%v/v) + AMS(7.5lb/100 gal)	1 oz/a	B					
9	Thidiazuron SC	2.4 oz/a	A	97.3 a	0.0 a	2.7 d	0.0 a	16.6 cde
	Ethephon	21 oz/a	A					
	ETX + COC (1.0%v/v)	1.3 oz/a	B					
10	Thidiazuron SC	2.4 oz/a	A	98.3 a	1.0a	0.7d	0.0 a	12.6 efg
	Ginstar + NIS (.25%v/v)	2 oz/a	A					
	Aim + NIS (.25%v/v)	1 oz/a	B					
11	Thidiazuron SC	2.4 oz/a	A	99.0 a	0.0 a	1.0 d	0.0 a	14.8 cf
	Finish 6 Pro	21 oz/a	A					
	Ginstar + NIS(.25%v/v)	2 oz/a	B					
12	Thidiazuron SC	2.4 oz/a	A	83.3ba	0.0 a	16.7 c	0.0 a	31.6 b
	Finish 6 Pro	21 oz/a	A					
	Gramoxone + NIS (.25%v/v)	24 oz/a	B					
13	Ethephon	21 oz/a	A	85.0 b	0.0 a	15.0 c	0.0 a	26.4b
	Ginstar + MSO (1.0%v/v)	2 oz/a	A					
14	Thidiazuron SC	1.2 oz/a	A	94.0 a	0.0 a	6.0 d	0.0 a	19.3 cd
	Ginstar + MSO (0.5% v/v)	1 oz/a	A					

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.