

The Integrated Pest Management (IPM) Newsletter  
for the Row Crops in the Lower Rio Grande Valley

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**PEST CAST**

**GENERAL SITUATION:** Rain early this week slowed cotton harvesting and defoliation in few spots this week. Some area fields received up to 2 inches. Otherwise, the area remains dry. Hot weather is predicted through this weekend and should aid in continued crop harvest. Open cotton was increased Valley wide this week. Some boll rot was again detected in some fields with plant sizes over 4 feet tall which also has had excessive rainfall recently. Boll weevils remained a serious problem for late maturing fields.

### *Boll Weevils The Big Menace*



Boll weevils increased in fields which were still producing squares and small bolls. Trap readings on weevils from around the LRGV were high in many locations (See trap numbers in attached sheets). Punctured square and small boll counts ranged from 10 to 90 per 100 plants this week. All fields in which growers still are trying to finish small bolls likely will need to be protected from boll weevils.

### *Defoliation Trial Completion*

Cotton defoliation is ongoing and we have completed the cotton defoliation trial at Weslaco. Charles Stichler, Extension Agronomist, conducted the final evaluation on Thursday, July 25.

The attached tables shows defoliant evaluations at 7 and 14 days after initial treatment of the trial. There are differences among treatments and we encourage all readers to carefully review each of the tables to compare the differences. There were no readings for regrowth at the 7 days after treatment.

### *Weevil and Stalk Killing Time*

Boll weevils will be in high numbers for the rest of the season and that should be more than enough encouragement to add insecticides to defoliants and herbicides directed to killing weevils at the end of the season. Large numbers of weevils now will mean more weevils that could go into overwintered conditions and some of those will be around next spring. At least, their offspring will be. So, the more weevils that can be knocked off now, the less potential for offspring next spring.

Stalk destruction should be high on everyone's list of TO DO's. Please don't wait until the last minute before midnight on September 1. That is too late for good weevil control and likely means that stalks will have gone through some rainfall which will keep the stalks alive and healthy. And, the rains will cool off the soil surface temperature and more weevil immatures will survive when the

stalks are shredded and left on the ground. The quicker the stalks can be destroyed completely, the better for all concerned in the cotton industry. As a frequently seen and heard sports logo says: **JUST DO IT!**

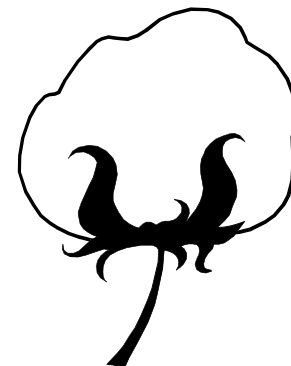
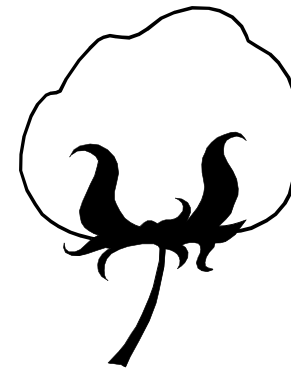
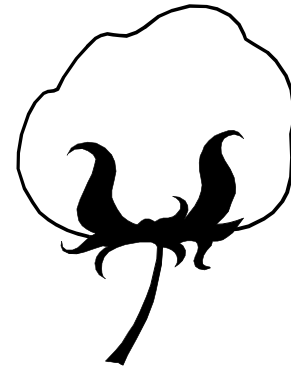
We have initiated a chemical stalk destruction test at the Texas A&M Research Farm, north of Weslaco. We are conducting the test to further determine what the best timing of herbicide application may be for 2,4-D and Dicamba (Banvel, Clarity). We will pass along the results of the test as they come in. We will also conduct a mini-field day to allow interested parties a chance to review the test and its results later in August.

***Last Regular Pest Cast***

This will be the last regular issue of ***Pest Cast*** for this season. We will be bringing you news of the weevil trapping efforts periodically from now until we have to stop running them. We hope that the information presented in newsletter was of help. We will be back next year with another set of issues. In the mean time, if you have any questions or comments, please let me hear from you. You can call, write or email me at the numbers listed on the header shown.

<b>Cotton Heat Unit Accumulation Table</b>			
<b>Planting Dates</b>	<b>Accum. H.U.</b>	<b>Planting Dates</b>	<b>Accum. H.U.</b>
2/15-----	3066	3/15-----	2909
3/01-----	2986	4/01-----	2672

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Texas Cooperative Extension

2002 Cotton Defoliation Trials - Weslaco

Cotton 30-42" tall and 30% open at application - July 10

Application made by Gary Schwarzlose, BASF Tech Rep.

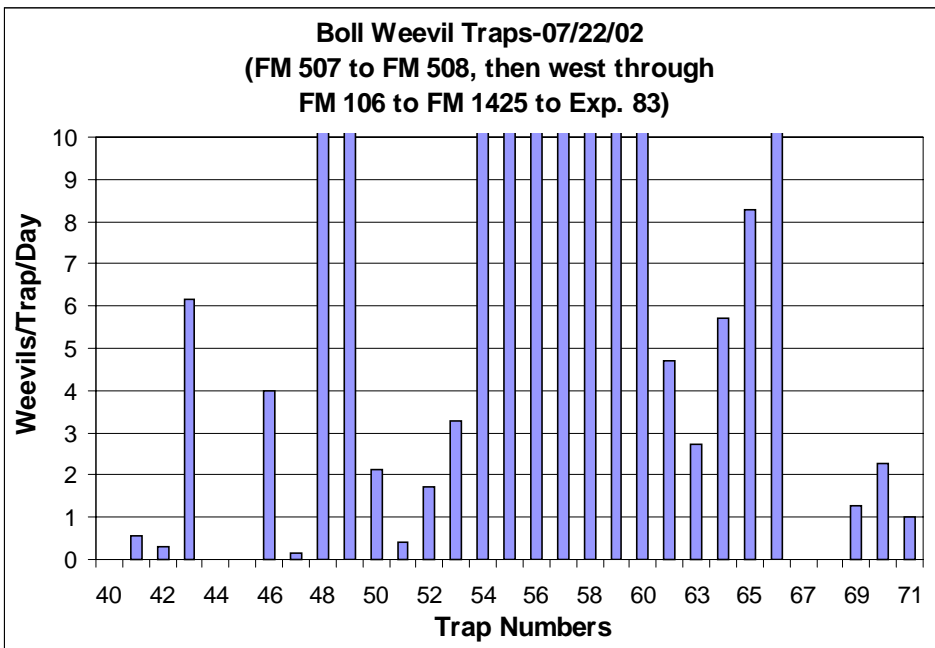
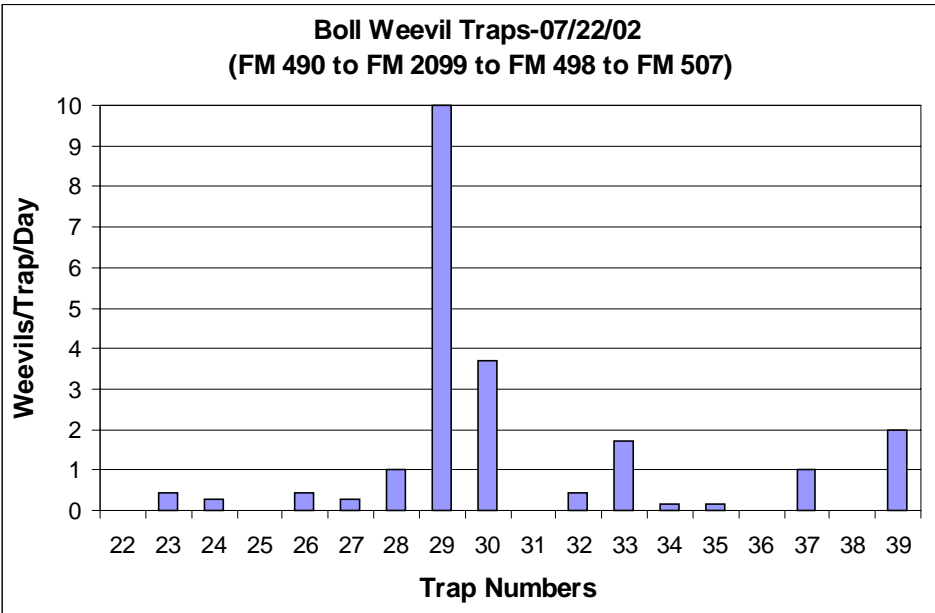
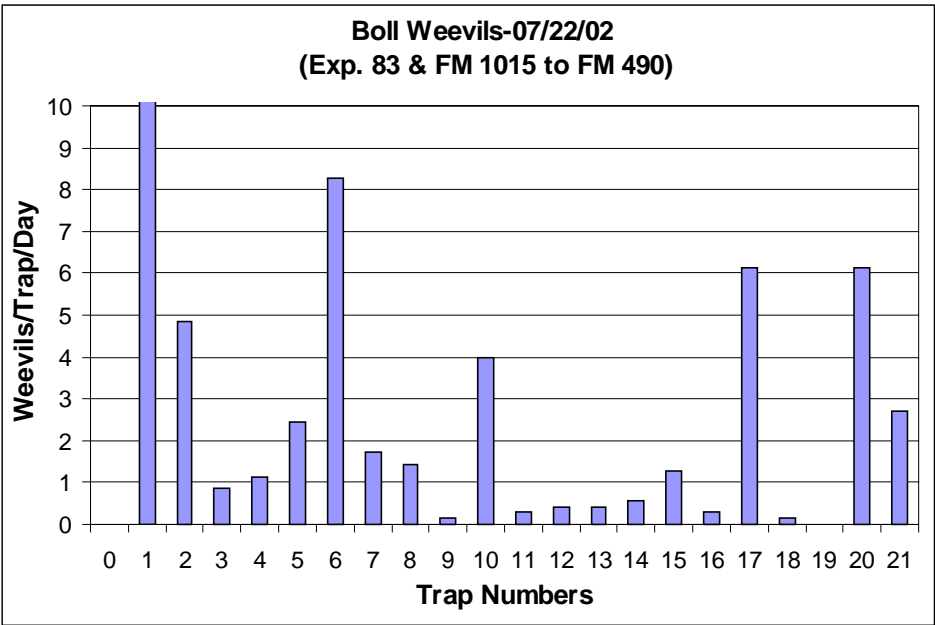
Location: Weslaco, Tx Investigator: Mr. Charles Stichler

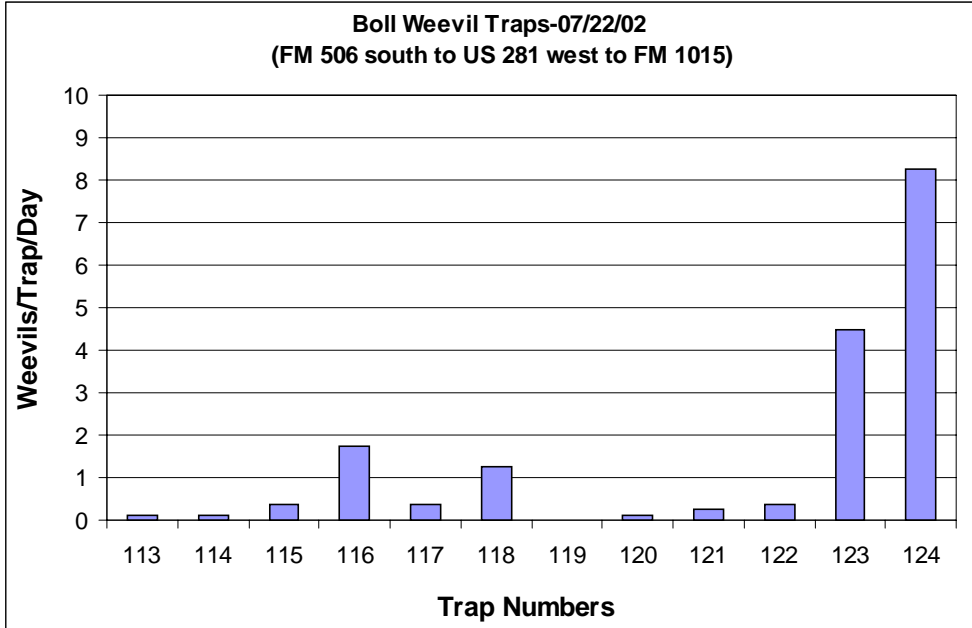
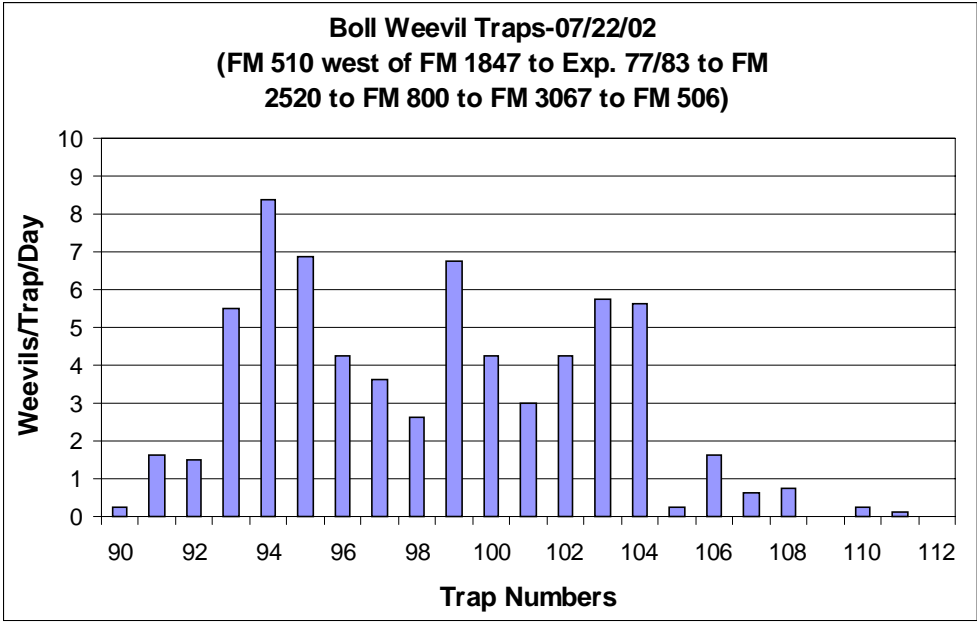
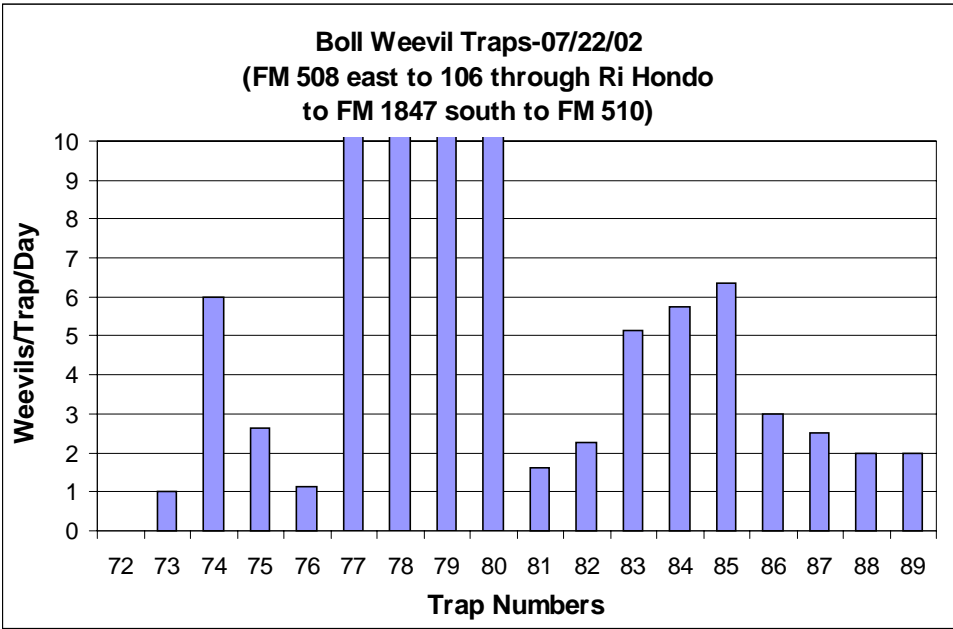
Reps: 3 Plots: 12.7 by 30 feet

Spray Vol: 11 gal/ac Mix Size: 2.8 liters (min 1.0926)

Trt	Treatment	Rate	7 DAT	7 DAT	7 DAT	7 DAT
No.	Name	Rate Unit	% Def	% GrLvs	% Des	% Open
1	Untreated		21.7 d	78.3 a	0 d	73.3 g
2	Dropp 50 WP	0.125LB/A				
2R-11	W-E Silicone Surf.	0.25% V/V	86.7 abc	13.3 b-f	0 d	85 c-f
3	Dropp 50 WP	0.1LB/A				
3	Hasten	8FL OZ/A	81.7 abc	18.3 b-f	0 d	81.7 efg
4	Dropp 50 WP	0.1LB/A				
4	Hasten	16FL OZ/A	82.7 abc	17.3 b-f	0 d	84 d-g
5	Dropp 50 WP	0.125LB/A				
5	AMS	17LB/100 GAL	75 c	25 b	0 d	81.7 efg
6	Dropp 50 WP	0.1LB/A				
6	Ginstar	4.3FL OZ/A	94.3 ab	5.3 c-f	0.3 d	88.3 a-f
7	Dropp 50 WP	0.125LB/A				
7	Def	12FL OZ/A	77.7 abc	22 bcd	0.3 d	83.3 d-g
8	Def	8FL OZ/A				
8	Finish	16FL OZ/A	92 abc	7.7 b-f	0.3 d	94 a-e
9	Def	16FL OZ/A				
9	Prep	16FL OZ/A	85.7 abc	10.7 b-f	3.7 c-d	89 a-f
10	Def	24FL OZ/A				
10	Kinitic	0.1% V/V	85 abc	11.7 b-f	3.3 cd	85.7 b-f
11	Dropp 50 WP	0.1LB/A				
11	Prep	1PT/A	77.7 abc	22.3 bc	0 d	91.7 a-f
12	Ginstar	6FL OZ/A	85 abc	14 b-f	1 d	84.3 c-g
13	Ginstar	6FL OZ/A				
13	Syl-Tac	4FL OZ/A	90.7 abc	8 b-f	1.3 d	87.3 a-f
14	Finish	16FL OZ/A				
14	Ginstar	3FL OZ/A	86.3 abc	12.7 b-f	1 d	92.7 a-f
15	Ginstar	3FL OZ/A				
15	Cottonquik	3PT/A	90.3 abc	8.7 b-f	1 d	97 abc
16	Cottonquik	3PT/A				
16	FreeFall	0.1LB/A	81.3 abc	17 b-f	0 d	95 a-d
17	FreeFall	0.1LB/A				
17	Super Boll	1PT/A	78.3 abc	21.7 bcd	d	86.7 a-f
18	Dropp 50 WP	0.1LB/A				
18	Prep	1PT/A				
18	Hasten	8FL OZ/A	88.7 abc	10.7 b-f	.7 d	91 a-f
19	Leafless	10FL OZ/A				
19	Crop Oil Conc	8FL OZ/A	79.0 a-f	17.7 b-f	3.3 cd	82.3 d-g
20	Leafless	12FL OZ/A				
20	Crop Oil Conc	8FL OZ/A	76.7 bc	20.0 b-e	3.3 cd	81.0 fg

Trt No.	Treatment Name	Rate	Unit	7 DAT % Def	7 DAT % GrLvs	7 DAT % Des	7 DAT % Open
21	Boa		8FL OZ/A				
21	Cottonquik		32FL OZ/A				
21R-11	W-E Silicone Surf.	0.25%	V/V	86.7 abc	1.7 ef	11.7 a	98.3 ab
23	Cyclone MAX		6FL OZ/A				
23R-11	W-E Silicone Surf.	1%	V/V	88.0 abc	3.0 ef	9.0 ab	98.7 a
24	Cyclone MAX		6FL OZ/A				
24	Cayuse Plus		1% V/V	86.0 abc	8.3 b-f	6.0 bc	95.0 a-d
25	Dropp 50 WP		0.1LB/A				
25R-11	W-E Silicone Surf.	0.25%	V/V	93.0 abc	6.0 c-f	1.7 d	93.3 a-f
25	Cyclone MAX @ 7 DAT		8FL OZ/A				
25R-11	W-E Silicone Surf.	0.25%	V/V				
26	Dropp 50 WP		0.1LB/A				
26R-11	W-E Silicone Surf.	0.25%	V/V	89.7 abc	8.3 b-f	2.0 cd	92.3 a-f
26	Aim @ 7 DAT		1FL OZ/A				
27	Aim		1FL OZ/A				
27	Crop Oil Conc		16FL OZ/A	88 abc	8.3 e-f	3.7 cd	93.3 a-f
27	Cyclone MAX @ 7 DAT		8FL OZ/A				
27R-11	W-E Silicone Surf.	0.25%	V/V				
28	Cyclone MAX		6FL OZ/A				
28R-11	W-E Silicone Surf.	0.25%	V/V				
28	AMS		17LB/100 GAL	88.7 abc	3.7 def	7.7 b	97 abc
29	Dropp 50 WP		0.15LB/A				
29	Methyl parathion		16FL OZ/A	94 abc	4.7 c-f	1.3 d	93.3 a-f
30	Def		16FL OZ/A				
30	Finish		8FL OZ/A				
30	Guthion		16FL OZ/A	96 a	1.3 f	2.7 c-d	98.3 ab





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2002 Cotton Defoliation Trials - Weslaco

Cotton 30-42" tall and 30% open at  
application - July 10

Application made by Gary Schwarzlose, Bayer Tech Rep.

Location: Weslaco, Tx

Investigator: Mr. Charles Stichler

Reps: 3

Plots: 12.7 by 30 feet

Spray Vol: 11 gal/ac

Mix Size: 2.8 liters (min 1.0926)

Trt No.	Treatment Name	Rate	Unit	14 DAT % Def	14 DAT % GrLvs	14 DAT % Des	14 DAT % Open	14 DAT Top RGR	14 DAT Bot RGR
1	Untreated			50 b	50 a	0 e	95.0 d	0.3 de	0.3 a
2	Dropp 50 WP	0.125	LB/A						
2	R-11 W-E Silicone	0.25	% V/V	95.7 a	2.7 b	0 e	97.3 a-d	1.3 a-e	1.3 a
3	Dropp 50 WP	0.1	LB/A						
3	Hasten	8	FL OZ/A	95.7 a	4.3 b	0 e	98.3 a-d	1.0 b-e	0.3 a
4	Dropp 50 WP	0.1	LB/A						
4	Hasten	16	FL OZ/A	93.3 a	6.7 b	0 e	97.0 a-d	1.0 b-e	0.3 a
5	Dropp 50 WP	0.125	LB/A						
5	AMS	17	LB/100	94.7 a	5.3 b	0 e	97.7 a-d	1.7 a-e	1.7 a
6	Dropp 50 WP	0.1	LB/A						
6	Ginstar	4.3	FL OZ/A	98.3 a	2.0 b	0 e	99.0 abc	0.3 de	1.0 a
7	Dropp 50 WP	0.125	LB/A						
7	Def	12	FL OZ/A	95.7 a	4.3 b	0 e	95.7 cd	1.3 a-e	1.0 a
8	Def	8	FL OZ/A						
8	Finish	16	FL OZ/A	98.0 a	2.0 b	0 e	98.7 abc	2.3 a-d	2.0 a
9	Def	16	FL OZ/A						
9	Prep	16	FL OZ/A	96.3 a	3.7 b	0 e	98.0 a-d	2.7 abc	2.0 a
10	Def	24	FL OZ/A						
10	Kenetic	0.1	% V/V	95.3 a	4.7 b	0 e	98.7 abc	1.7 a-e	1.0 a
11	Dropp 50 WP	0.1	LB/A						
11	Prep	1	PT/A	93.7 a	6.3 b	0 e	98.3 a-d	1.7 a-e	1.7 a
12	Ginstar	6	FL OZ/A	97.7 a	2.3 b	0 e	98.7 abc	1.0 b-e	1.0 a
13	Ginstar	6	FL OZ/A						
13	Syl-Tac	4	FL OZ/A	98.7 a	1.3 b	0 e	99.3 abc	0.7 cde	1.0 a
14	Finish	16	FL OZ/A						
14	Ginstar	3	FL OZ/A	96.3 a	3.7 b	0 e	98.3 a-d	1.3 a-e	1.3 a
15	Ginstar	3	FL OZ/A						
15	Cottonquik	3	PT/A	96.7 a	3.0 b	0 e	98.3 a-d	1.3 a-e	1.7 a
16	Cottonquik	3	PT/A						
16	FreeFall	0.1	LB/A	95.3 a	4.7 b	0 e	96.0 bcd	1.7 a-e	1.3 a
17	FreeFall	0.1	LB/A						
17	Super Boll	1	PT/A	91.7 a	8.3 b	0 e	97.7 a-d	1.3 a-e	1.0 a
18	Dropp 50 WP	0.1	LB/A						
18	Prep	1	PT/A						
18	Hasten	8	FL OZ/A	96.3 a	3.7 b	0 e	98.7 abc	1.0 b-e	1.3 a
19	Leafless	10	FL OZ/A						
19	Crop Oil Conc	8	FL OZ/A	96.3 a	3.7 b	0 e	97.0 a-d	0.7 cde	0.7 a
20	Leafless	12	FL OZ/A						
20	Crop Oil Conc	8	FL OZ/A	93.7 a	6.3 b	0 e	97.0 a-d	1.3 de	0.7 a

*The following treatments are intended for stripper or short picker cotton.*

Treatments were applied to cotton that had cut out earlier and was shorter than treatments 1-20

Plots were in the same field and same rows. Cotton 24-30" tall, 60% open at application.

Trt No.	Treatment Name	Rate	Unit	14 DAT % Def	14 DAT % GrLvs	14 DAT % Des	14 DAT % Open	14 DAT Top RGR	14 DAT Bot RGR
21	Boa	8	FL OZ/A						
21	Cottonquik	32	FL OZ/A						
21	R-11 W-E Silicone Surf.	0.25	% V/V	95.0 a	0 b	5.0 a	100.0 a	2.0 a-e	1.7 a
22	Cyclone MAX	6	FL OZ/A						
22	R-11 W-E Silicone Surf.	0.25	% V/V	93.7 a	1.3 b	5.0 a	100.0 a	3.3 a	2.0 a
23	Cyclone MAX	6	FL OZ/A						
23	R-11 W-E Silicone Surf.	1	% V/V	94.0 a	1.7 b	4.3 a	100.0 a	3.0 ab	1.3 a
24	Cyclone MAX	6	FL OZ/A						
24	Cayuse Plus	1	% V/V	96.3 a	2.0 b	1.7 cd	99.7 ab	2.7 abc	1.7 a
25	Dropp 50 WP	0.1	LB/A						
25	R-11 W-E Silicone Surf.	0.25	% V/V						
25	Cyclone MAX @ 7 DAT	8	FL OZ/A						
25	R-11 W-E Silicone Surf.	0.25	% V/V	98.0 a	0.3 b	1.7 cd	100 a	1.3 a-e	1.3 a
26	Dropp 50 WP	0.1	LB/A						
26	R-11 W-E Silicone Surf.	0.25	% V/V						
26	Aim @ 7 DAT	1	FL OZ/A						
26	Crop Oil Conc	16	FL OZ/A	97.7 a	0.0 b	2.3 c	100 a	0 e	1.0 a
27	Aim	1	FL OZ/A						
27	Crop Oil Conc	16	FL OZ/A						
27	Cyclone MAX @ 7 DAT	8	FL OZ/A						
27	R-11 W-E Silicone Surf.	0.25	% V/V	98.0 a	0 b	2.0 c	100 a	0.7 cde	0.7 a
28	Cyclone MAX	6	FL OZ/A						
28	R-11 W-E Silicone Surf.	0.25	% V/V						
28	AMS	17	LB/100 GAL	95.0 a	1.7 b	3.3 b	99.3 abc	2.3 a-d	1.3 a
29	Dropp 50 WP	0.15	LB/A						
29	Methyl parathion	16	FL OZ/A	97.7 a	2.0 b	0.3 e	99.3 abc	2.3 a-e	2.0 a
30	Def	16	FL OZ/A						
30	Finish	8	FL OZ/A						
30	Guthion	16	FL OZ/A	98.0 a	1.3 b	0.7 de	99.3 abc	2.7 abc	