

# 2005 Annual Report

## Extension Cotton Research and Demonstrations In Oklahoma

*In Cooperation with*

OSU

Integrated Pest Management Program

OSU Southwest Research and Extension Center  
OSU Southwest Research and Extension Center



OSU

# 2005 State Extension Cotton Research Report

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An effective cotton integrated pest management program encompasses all aspects of production. This report contains summarized data from experiments and demonstrations intended to address key production issues in the areas of variety selection, weed control, agronomics (plant population, tillage, fertility) and defoliation. 2005 was another interesting year for Oklahoma cotton producers. Warm soil temperatures experienced later in the month of April created good planting conditions this year. However, the first week of May quickly turned cooler and wet resulting in a fair amount of delayed emergence. By the third week of May soil moisture and warmer temperatures combined for excellent planting conditions. May weather was very mild (cool) and overall made for a slower start than we would prefer. Scattered rains in June and the first week of July helped keep the crop going until the normal dry, hot weather of July set in. Irrigation began promptly around the middle of July and continued through August. August and September brought several rain showers that helped retain fruit on dryland acres and supplement soil moisture profiles on irrigated acres. September was unusually warm with the average monthly temperature nearly equivalent to that of August. This helped speed up many acres that were lagging behind from the cooler than normal temperatures we experienced in May. Overall dryland yields were exceptional across the state. Irrigated acreage as a whole also produced very nice yields. The state's average yield is expected to be a record breaker, most likely due to the "well above average" dryland crop. This year's harvest weather was for the most part exceptional due to the lack of rainfall we received. However, an early freeze the 3<sup>rd</sup> week of October did reduce yields in some late planted fields. Virtually no rain was received from the early part of October through the rest of the year. Although this may be a problem for next year's crop, it actually was a benefit to gins that faced a sizeable increase in the amount of cotton they were charged with processing.

It should be emphasized that the data from only one year should not be used for major production decisions, and at least 2-3 year's results should be utilized before production practices should be modified. This report includes data generated from "off-label" applications or practices. Although this data is presented, OSU does not recommend the implementation of any "off-label" use of any product.

We are very appreciative of the contributions made by Dr. Pat Bolin and the OSU Integrated Pest Management Program. Without their support, much of this work would not be possible. We also appreciate the support from producers, County Extension Educators, OSU Agricultural Experiment Station and ginners. Cotton Incorporated, through the Oklahoma State Support Committee, has provided assistance through partial funding of several projects. The Oklahoma Cotton Council and the Oklahoma Center for the Advancement of Science and Technology (OCAST) have made tremendous contributions to our educational programs and we are grateful for their continued support. A special thanks goes also to the following organizations, whose contributions make it possible to maintain and expand our research and demonstration programs and distribute results.

Bayer CropScience  
Cotton Growers Cooperative  
Cotton Incorporated State Support Committee  
Delta and Pine Land Company  
Dow AgroSciences  
Dupont  
Helena Chemical  
John Deere

Monsanto Company  
Nichino America  
Oklahoma Cotton Council  
OSU Integrated Pest Management Program  
Stoneville Pedigreed Seed Company  
Syngenta Crop Protection  
Valent  
Worrell Farms

We appreciate the interest, cooperation and support of all those involved in the cotton industry in Oklahoma and encourage your comments and suggestions for the improvement of our programs. This report can be accessed on the web at <http://www.osu.altus.ok.us>.

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### Producers and Cooperators

Western Oklahoma State College	Cotton Growers Cooperative
Humphreys Cooperative	Murray, Eddie, and Rann Williams-Altus
Keeff Felty & Natalie Wheeler-Altus	Brad McKinley-Frederick
Keith Graumman-Granite	Stephen Clay-Carnegie
Mike Johnson-Dill City	Bill Grossman-Yukon
Charles Shephard-Butler	Wayne Winsett-Altus
Darrel Gamble and Gayle Thompson-Erick	Bill Steinert-Covington



*Oklahoma State University, U.S. Department of Agriculture, State and Local Governments Cooperating. The Oklahoma Cooperative Extension Service offers its programs to all eligible persons regardless of race, color, national origin, religion, sex, age, disability, or status as a veteran, and is an equal opportunity employer.*

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# Irrigation and Weather Records

Western Oklahoma State College (WOSC) - Altus  
2 inches each date: 7/13, 7/20, 7/29, 8/3, 8/30

OSU Southwest Research & Extension Center (OSUREC) - Altus  
3 inches each date: 7/13, 7/25, 8/2, 8/29

Month	Apr.05			May.05			Jun.05		
Date	Air Temp.(F)			Air Temp. (F)			Air Temp. (F)		
	Max.	Min.	Precip.	Max.	Min.	Precip	Max.	Min.	Precip.
1	65	40	0	71	43	0	81	61	0.51
2	80	33	0.01	50	44	0	93	64	0
3	79	39	0	51	43	0.56	86	68	0
4	82	43	0	53	45	0.18	99	66	0.05
5	77	49	0	71	46	0.16	92	68	0
6	62	55	0	82	52	0.01	90	62	0.83
7	76	48	0.02	72	57	0	96	65	0.01
8	76	37	0	91	58	0	97	70	0
9	84	43	0	87	57	0	90	73	0
10	83	51	0	94	59	0	87	63	0.76
11	69	41	0	85	66	0	86	63	0.07
12	81	37	0	83	67	0	89	64	0
13	77	38	0	84	58	2.36	92	67	0
14	74	40	0	78	58	0.07	89	68	0
15	81	45	0	68	55	0	97	66	0
16	79	48	0	81	52	0	98	66	0.31
17	82	49	0	88	56	0	91	63	0.01
18	80	50	0.01	92	63	0	94	67	0
19	83	53	0.34	92	65	0	93	72	0
20	86	57	0	97	68	0	93	69	0
21	82	58	0.56	99	65	0	94	63	0
22	73	51	0	101	65	0	95	64	0
23	66	45	0	97	67	0	98	66	0
24	65	39	0	97	66	0	97	69	0
25	76	41	0.19	87	70	0	97	66	0
26	78	39	0	71	58	0.1	98	65	0
27	83	46	0	74	56	0.42	100	68	0
28	74	50	0	74	58	0	100	68	0
29	59	49	0	78	60	0.03	100	71	0
30	66	42	0	82	61	0	102	72	0
31				83	62	0			
<b>Totals</b>	<b>75.9</b>	<b>45.2</b>	<b>1.13</b>	<b>81.01</b>	<b>58.01</b>	<b>3.89</b>	<b>93.8</b>	<b>66.6</b>	<b>2.55</b>

**Weather Records, cont...**

<b>Month</b>	<b>Jul.05</b>			<b>Aug.05</b>			<b>Sep.05</b>		
<b>Date</b>	<b>Air Temp.(F)</b>			<b>Air Temp. (F)</b>			<b>Air Temp. (F)</b>		
	<b>Max.</b>	<b>Min.</b>	<b>Precip.</b>	<b>Max.</b>	<b>Min.</b>	<b>Precip</b>	<b>Max.</b>	<b>Min.</b>	<b>Precip.</b>
1	94	72	0	99	64	0	95	63	0
2	92	65	0.7	100	70	0	94	63	0
3	105	67	0	101	73	0	95	62	0
4	89	69	0	99	70	0	92	65	0
5	88	64	0.72	89	71	0.02	94	66	0
6	89	66	0.39	94	66	0	94	65	0
7	84	68	0.4	96	70	0	92	63	0
8	92	65	0	91	67	0.37	92	62	0
9	93	68	0	93	65	0	94	60	0
10	94	66	0	91	67	0	95	62	0
11	95	70	0	97	69	0	88	67	0
12	96	72	0	98	71	0	89	66	0.6
13	96	69	0	93	71	0	95	69	0
14	95	68	0.18	74	70	0.57	87	68	0.89
15	93	70	0	82	66	1.07	80	66	1.51
16	93	69	0	82	67	0.26	80	57	0
17	98	69	0	93	70	0.47	91	58	0
18	98	74	0	96	71	0	94	63	0
19	99	72	0	96	73	0	95	67	0
20	101	73	0	98	73	0	96	69	0
21	100	71	0	90	69	0.34	93	66	0
22	102	70	0	95	69	0	96	64	0
23	102	74	0	94	69	0.22	94	64	0
24	99	71	0	98	70	0	91	64	0
25	99	74	0.04	98	70	0	97	64	0
26	93	74	0	100	72	0	83	65	0
27	81	64	0.1	90	73	0	89	58	0
28	91	56	0	91	68	0	95	59	0
29	93	58	0	89	63	0.01	71	53	0
30	97	62	0	93	62	0	84	53	0
31	97	64	0	95	63	0			
<b>Totals</b>	<b>94.8</b>	<b>68.2</b>	<b>2.53</b>	<b>93.3</b>	<b>68.7</b>	<b>3.33</b>	<b>90.8</b>	<b>63</b>	<b>3</b>

# Variety Performance

Variety selection continues to be an important decision for cotton producers in Oklahoma. Although most newly released varieties have been tested prior to their commercial release, most cotton producers have had little experience with those varieties on their farms. Therefore, fourteen variety trials were established throughout Oklahoma comparing newly released varieties to Oklahoma standards. Unfortunately, four of the sites were lost to herbicide drift, bad weather, or a combination of both. Five of the remaining ten were dryland production while the remaining five were irrigated.

## Dryland Production:

All of the dryland locations (Washita, Tillman, Jackson, Caddo and Garfield Counties) were replicated trials comparing the following 25 varieties:

PM 2280 BR DP 424 B2R DP 455 BR DP 449 BR DP 555 BR DP 444 BR DP 488 BR  
 DP 434 R DP 432 R ST 4892 BR ST 5599 BR ST 4575 BR ST4646 B2R ST 6636 BR  
 ST 4686 R ST 3664 R ST 6848 R NG 3969 R NG 1553 R NG 2448 R FM 960 B2R  
 PH 480 WR PH 470 WR PH 310 R PH 410 R

Results varied across location as a result of scattered rainfall patterns within the growing season and varying soil types. Overall, Stoneville's 4892 BR consistently ranked the highest compared to the other 24 varieties across all locations. Tables 1-5 show detailed information for each location mentioned above.

**Table 1. Jackson County Dryland Trial**

**Planted:** May 11<sup>th</sup> **Harvested:** November 10<sup>th</sup> **Soil Type:** Clay Loam

Rank	Variety	Seed Cot		Gin %	Yield Lbs/A	Fiber Data			
		Lbs/A				Mic	Length	Uniformity	Strength
1	FM 960 B2R	2100	a	0.24	511 a	5	1.08	82.1	30.7
2	ST 4892 BR	1809	a-g	0.27	490 ab	5.4	1.03	81.5	29.8
3	DP 449 BR	2107	a	0.23	475 abc	4.6	1.09	81.7	30.5
4	ST 4646 B2R	1962	ab	0.24	460 a-d	4.7	1.01	79.9	25.5
5	ST6636 BR	1737	b-g	0.26	454 a-d	4.9	1.09	82.9	32.9
6	PH 410 R	1933	abc	0.23	438 a-e	5	1.04	81.5	29.3
7	ST 4686 R	1882	a-d	0.22	418 b-f	5	1.02	81.5	28.7
8	PH 470 WR	1846	a-e	0.23	415 b-f	4.8	1.01	83.4	30.9
9	DP 424 B2R	1868	a-d	0.22	414 b-f	4.7	1.03	80.1	27
10	DP 488 BR	1831	a-f	0.22	407 c-g	4.7	1.08	80.6	28.6
11	DP 555 BR	1606	b-g	0.25	396 c-h	4.8	1.04	79.6	27.6
12	ST 4575 BR	1737	b-g	0.23	391 d-h	4.9	1.04	82.5	31.1
13	DP 455 BR	1671	b-g	0.23	389 d-h	4.6	1.07	81.1	31.1
14	ST 3664 R	1599	c-g	0.24	385 d-h	4.6	0.98	79.8	28.9
15	DP 444 BR	1671	b-g	0.22	367 e-h	4.3	1.06	82.2	29.7
16	ST 5599 BR	1722	b-g	0.21	353 f-i	5.1	1.03	81.4	27.7
17	NG 1553 R	1548	d-g	0.23	349 f-i	4	1.1	81.1	30.3
18	NG 3969 R	1468	g	0.24	346 f-i	4.4	1.08	82.5	32.1
19	NG 2448 R	1708	b-g	0.20	343 f-i	4.7	1.06	80.8	30.9



**Table 1. Jackson County Dryland Trial (continued)**

Rank	Variety	Seed Cot Lbs/A	Gin %	Yield Lbs/A	Fiber Data			
					Mic	Length	Uniformity	Strength
20	PM 2280 BR	1773 a-g	0.19	332 ghi	4.5	1.04	80.3	33.7
21	ST 6848 R	1642 b-g	0.20	331 ghi	4.9	1.06	81.9	31.5
22	PH 480 WR	1613 b-g	0.20	327 hi	5.5	1.08	82.7	29
23	DP 434 R	1693 b-g	0.19	325 hi	4.8	1.08	81.6	26.4
24	DP 432 R	1475 fg	0.22	321 hi	5.1	1.06	83.4	32.2
25	PH 310 R	1490 efg	0.19	279 i	5	1.02	81.8	31.2
LSD (P=.05)		361		79.56				
CV		12.58		12.41				

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 2. Tillman County Dryland Trial**

Planted: June 3<sup>rd</sup> Harvested: November 21<sup>st</sup> Soil Type: Sandy Loam

Rank	Variety	Seed Cot Lbs/A	Gin %	Yield Lbs/A	Fiber Data			
					Mic	Length	Uniformity	Strength
1	DP 424 B2R	2144 ab	0.26	561 a	4.5	1.1	80.3	29.5
2	PH 480 WR	2035 a-d	0.26	536 ab	4.6	1.12	84.3	31.9
3	ST 4892 BR	2129 ab	0.24	520 abc	4	1.14	83.4	30.1
4	ST 4575 BR	2115 abc	0.24	516 abc	4.2	1.15	82.5	31.7
5	DP 555 BR	1773 cd	0.28	503 a-d	4.5	1.06	80.9	29.5
6	ST 5599 BR	2209 a	0.22	492 a-e	4.9	1.13	83.3	33.8
7	DP 455 BR	1984 a-d	0.24	482 a-f	4.6	1.05	82.1	26.9
8	FM 960 B2R	1838 bcd	0.26	479 a-g	3.4	1.06	80.9	28.7
9	PH 470 WR	1868 a-d	0.26	477 b-g	4.2	1.04	81	26.3
10	ST 4646 B2R	2006 a-d	0.24	475 b-g	4.1	1.1	83	29.6
11	ST 4686 R	1926 a-d	0.25	471 b-g	4.6	1.15	83.1	30.6
12	ST6636 BR	2035 a-d	0.23	470 b-g	4.9	1.13	82.2	28.7
13	DP 449 BR	1904 a-d	0.25	466 b-g	4.4	1.1	82.3	32.3
14	DP 434 R	2100 abc	0.22	463 b-g	5	1.09	83.1	26.6
15	PM 2280 BR	1984 a-d	0.23	460 b-g	5	1.08	84.1	28
16	DP 444 BR	2129 ab	0.22	458 b-g	3.8	1.14	81.3	29.4
17	PH 410 R	1809 bcd	0.25	449 c-g	4.4	1.08	82.5	28.8
18	ST 6848 R	1977 a-d	0.23	446 c-g	4.1	1.05	82.9	28.8
19	DP 488 BR	2056 a-d	0.21	439 c-g	4.4	1.13	80.9	27.6
20	NG 3969 R	1729 d	0.24	422 d-g	4.2	1.13	83.5	31.1
21	PH 310 R	2027 a-d	0.21	422 d-g	4.9	1.12	84.9	30
22	ST 3664 R	1838 bcd	0.23	418 efg	4.8	1.12	82	29.2
23	NG 1553 R	1860 a-d	0.22	402 fg	4.3	1.08	79.7	27.2
24	DP 432 R	1897 a-d	0.21	400 fg	4.2	1.08	80.6	27.6
25	NG 2448 R	1708 d	0.23	397 g	4.7	1.1	83.1	27.4
LSD (P=.05)		350.6		83.09				
CV		10.82		10.82				

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 3. Washita County Dryland Trial****Planted:** May 19<sup>th</sup>**Harvested:** November 16<sup>th</sup>**Soil Type:** Sandy Loam

Rank	Variety	Seed Cot Lbs/A	Gin %	Yield Lbs/A	Fiber Data			
					Mic	Length	Uniformity	Strength
1	FM 960 B2R	5063 abc	0.25	1266 a	4.3	1.17	82.4	31.4
2	ST 5599 BR	4573 b-f	0.25	1143 ab	4.1	1.09	81	30.9
3	ST 4892 BR	4567 b-f	0.24	1096 abc	4.5	1.1	83.5	28.6
4	PH 480 WR	5423 a	0.20	1085 bcd	4.1	1.16	84.9	31.6
5	PH 470 WR	5134 ab	0.21	1078 b-e	3.7	1.09	81.8	28.4
6	DP 424 B2R	5063 abc	0.21	1063 b-e	4	1.11	83.3	27
7	DP 555 BR	4415 b-g	0.24	1059 b-e	3.7	1.15	78.8	29
8	DP 455 BR	4780 a-e	0.22	1052 b-e	3.3	1.14	81.3	30.6
9	ST 3664 R	4534 b-f	0.23	1043 b-f	4.1	1.02	80.9	31.8
10	ST 4575 BR	4594 b-f	0.22	1011 b-g	4.3	1.14	83.1	28.5
11	ST 4646 B2R	4583 b-f	0.22	1008 b-g	4	1.13	83.5	29.4
12	ST 4686 R	4355 b-h	0.23	1002 b-g	4.1	1.16	84.7	30.7
13	DP 488 BR	4638 a-f	0.21	974 b-g	4	1.2	83.2	31.4
14	DP 449 BR	4485 b-f	0.21	942 c-h	3.7	1.16	82.4	30.4
15	PM 2280 BR	4938 a-d	0.19	938 c-h	3.6	1.12	82	30.2
16	PH 410 R	4643 a-f	0.20	929 c-i	4.1	1.14	83.5	27.5
17	DP 432 R	4583 b-f	0.20	917 d-i	3.9	1.13	84.9	27.6
18	DP 434 R	4322 c-h	0.21	908 e-j	3.7	1.17	81.6	28.6
19	ST 6848 R	4158 d-h	0.21	873 f-j	4	1.21	85.2	31.8
20	PH 310 R	4038 e-h	0.21	848 g-j	3.9	1.1	83.7	30.8
21	NG 3969 R	3935 fgh	0.20	787 hij	3.9	1.18	84.6	31.4
22	ST6636 BR	4137 e-h	0.19	786 hij	4.1	1.16	81.6	31.4
23	DP 444 BR	3619 h	0.21	760 ijk	3.6	1.1	82.3	30.8
24	NG 2448 R	3684 gh	0.20	737 jk	4.1	1.1	82.4	32
25	NG 1553 R	3679 gh	0.16	589 k	3.2	1.15	79.7	29.3

LSD (P=.05)

792.4

171.8

CV

12.51

12.71

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 4. Caddo County Dryland Trial****Planted:** May 25<sup>th</sup>**Harvested:** December 13<sup>th</sup>**Soil Type:** Sandy Loam

Rank	Variety	Seed Cot		Gin %	Yield Lbs/A	Fiber Data			
		Lbs/A				Mic	Length	Uniformity	Strength
1	ST 4575 BR	6960	bcd	0.21	1442 a	3.3	1.17	83.2	33.3
2	PM 2280 BR	7058	bcd	0.19	1359 ab	4.3	1.13	81.8	29.3
3	DP 455 BR	6344	cde	0.21	1320 abc	3.4	1.14	81.7	32.2
4	PH 470 WR	8137	a	0.16	1317 abc	3.3	1.13	81.5	29.3
5	FM 960 B2R	7145	bcd	0.18	1309 abc	3.2	1.22	81.6	33.3
6	PH 480 WR	7701	ab	0.16	1264 bcd	3.5	1.19	84.1	31.2
7	DP 444 BR	6998	bcd	0.17	1198 cde	3.1	1.14	82.1	30.9
8	ST 4892 BR	7074	bcd	0.16	1148 def	3.4	1.13	80.8	28.3
9	DP 488 BR	6540	cde	0.17	1127 d-g	3.2	1.22	83.4	31.8
10	DP 424 B2R	7265	abc	0.15	1113 efg	2.9	1.1	83	27.6
11	ST 5599 BR	6295	cde	0.17	1069 e-h	3.2	1.17	81.3	30.4
12	DP 449 BR	6976	bcd	0.15	1036 fgh	3.3	1.16	82.8	31.3
13	ST6636 BR	6758	bcd	0.15	1003 gh	3.3	1.21	82.6	30.8
14	ST 4646 B2R	6393	cde	0.15	966 h	2.9	1.14	82.8	29.8
15	NG 1553 R	6249	de	0.15	961 h	3.2	1.17	82.6	28.9
16	DP 555 BR	5750	ef	0.13	744 i	2.7	1.17	80.6	28.5
17	PH 310 R	4169	gh	0.17	713 ij	3.3	1.17	83.3	31.2
18	NG 2448 R	4796	fg	0.14	672 ijk	3.4	1.15	83.3	30.6
19	PH 410 R	4115	gh	0.14	590 jkl	3.7	1.2	84	29.3
20	DP 434 R	4158	gh	0.14	570 kl	2.9	1.19	79.3	26.6
21	ST 4686 R	3870	ghi	0.12	479 lm	3.1	1.18	83.1	29.6
22	DP 432 R	3908	ghi	0.12	478 lm	3.1	1.19	84.5	27
23	ST 3664 R	3286	hi	0.13	412 mn	3.5	1.11	83.7	29.1
24	NG 3969 R	2943	i	0.12	338 n	2.7	1.21	83.5	34.7
25	ST 6848 R	1962	j	0.07	135 o	2.5	1.27	84.1	35.2

LSD (P=.05)

978.7

139.83

CV

12.11

10.86

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 5. Garfield County Dryland Trial****Planted:** May 25<sup>th</sup> **Harvested:** November 22<sup>nd</sup> **Soil Type:** Clay Loam

Rank	Variety	Seed Cot		Gin %	Yield		Fiber Data			
		Lbs/A			Lbs/A		Mic	Length	Uniformity	Strength
1	PH 310 R	2769	ab	0.22	621	a	3.5	1.01	78.8	27.4
2	NG 2448 R	2972	a	0.21	611	ab	3	1.02	78.3	30.1
3	DP 455 BR	2627	a-d	0.23	604	abc	3.7	1.02	79.2	27.6
4	PH 480 WR	2856	a	0.20	582	a-d	3.7	1.06	80	30.4
5	DP 555 BR	2674	abc	0.21	573	a-d	3.7	1.02	80.3	32.1
6	DP 424 B2R	2382	a-g	0.22	532	a-e	3.9	1.06	80.7	29.3
7	DP 432 R	2458	a-f	0.22	530	a-e	4.3	1.03	80.7	29.6
8	DP 488 BR	2500	a-e	0.21	529	a-e	3.4	1.08	79.6	29.7
9	DP 434 R	2414	a-f	0.21	518	a-f	4	1.04	79.7	26.7
10	DP 444 BR	2492	a-e	0.21	511	a-f	3.6	1.07	81	30.7
11	DP 449 BR	2447	a-f	0.20	482	a-g	3.9	1.03	80.4	26.3
12	ST6636 BR	2142	b-h	0.22	473	b-h	3.5	1.04	78.6	30
13	ST 3664 R	2747	ab	0.17	464	c-i	3.7	0.93	79	26.9
14	ST 4892 BR	2273	a-g	0.20	443	d-j	3.6	0.95	76.8	24.9
15	NG 3969 R	2284	a-g	0.19	443	d-j	3.6	0.99	78.6	25.8
16	ST 4686 R	2109	b-h	0.21	440	d-j	3.3	1.02	77.7	27.8
17	ST 4646 B2R	1984	c-h	0.22	439	d-j	3.7	1	79.5	26.8
18	ST 6848 R	1946	d-h	0.21	416	e-j	3.2	1	79.2	32.6
19	ST 5599 BR	1995	c-h	0.20	408	e-j	3.5	1.06	78.8	28.4
20	PM 2280 BR	2300	a-g	0.17	399	e-j	4.3	1.05	81.6	28.7
21	ST 4575 BR	1864	e-h	0.20	380	f-j	3.1	1.04	81	31.2
22	PH 410 R	1824	e-h	0.19	349	g-j	3.2	0.95	79	27.7
23	NG 1553 R	1695	gh	0.20	330	hij	4.2	1.01	77.4	26.4
24	PH 470 WR	1548	h	0.21	324	ij	4	1.01	80.2	29.3
25	FM 960 B2R	1771	fgh	0.18	313	j	4	1.07	82.6	25.9

LSD (P=.05) 706 145.16

CV 21.87 21.91

Means followed by same letter do not significantly differ (P=.05, LSD)

**Irrigated Production:**

Six irrigated trials were established in 2005, however only five were harvested due to the early freeze received the 3<sup>rd</sup> week of October. One trial was established specifically to evaluate Roundup Ready Flex cotton varieties. This trial consisted of 39 entries, two of which were considered checks (DP 424 B2R) for the Roundup Ready Flex tolerance to Glyphosate. DP 117 B2RF produced the highest lint yield per acre at 1945 lbs/A, however this was not significantly different than the next eight varieties. Table 6 below presents the details of the study.

**Table 6. Roundup Ready Flex Irrigated Variety Trial Jackson County**Planted: May 11<sup>th</sup> Harvested: November 9<sup>th</sup> Soil Type: Clay loam

Rank	Variety	Seed Cot		Gin %	Yield		Fiber Data			
		Lbs/A			Lbs/A		Mic	Length	Uniformity	Strength
1	DP 117B2RF	6175	ab	31.5	1945	a	4.4	1.06	81.1	27.2
2	BCG9124	5979	a-d	31.8	1901	ab	4.4	1.16	84.4	27.6
3	BCG1004	5810	a-g	32.4	1882	abc	4.3	1.09	82.2	31.4
4	PHY485RF	6153	ab	30.5	1877	abc	4.5	1.09	81.7	25.8
5	DP 152RF	5668	c-g	33.1	1876	abc	4.8	1.1	83.9	31
6	DP 156B2RF	5875	a-d	31.9	1874	abc	4	1.18	80.4	31
7	AME1532RFB2	5881	a-d	31.7	1864	a-d	4.6	1.14	83.3	27.2
8	DP 110RF	6066	abc	30.4	1844	a-e	4.5	1.11	83.7	31.9
9	ST4554B2RF	5782	a-g	31.5	1821	a-f	4.8	1.11	81.5	26.1
10	DP 108RF	5837	a-e	30.8	1798	b-g	4.2	1.1	79.8	28.8
11	DP 147RF	5597	d-h	32.0	1791	b-g	4.6	1.14	83.7	27.7
12	PHY475RF	6000	a-d	29.7	1784	b-h	4	1.12	82	25.3
13	ST4664RF	5728	b-g	30.8	1764	b-i	4.9	1.12	82.4	30.1
14	AME1504RFB2	5826	a-f	30.2	1759	c-i	4.8	1.11	85.1	31.6
15	04H205DF	5570	d-h	31.4	1749	c-j	4.9	1.11	82.3	30.9
16	BCG3255	5766	a-g	30.3	1747	c-k	3.6	1.18	83.7	37.7
17	ST6611B2RF	5755	a-g	30.0	1727	d-l	4.5	1.13	82.8	29.2
18	DP 143B2RF	5564	d-h	31.0	1725	d-l	4.3	1.12	81.6	26.8
19	PHY425RF	5951	a-d	28.9	1720	e-l	4.3	1.07	81.6	27.3
20	DP 164B2RF	6218	a	27.5	1710	e-m	4.4	1.16	83.6	28.6
21	PHY415RF	5886	a-d	28.9	1701	f-n	4.3	1.13	80.7	25.3
22	BCG4575	5663	c-g	29.9	1693	f-o	4.6	1.15	82.1	28.1
23	DP 113B2RF	5619	c-h	30.0	1686	f-o	3.7	1.12	80.8	30.7
24	ST4357B2RF	5537	d-i	30.4	1683	f-o	3.7	1.01	78.8	26.4
25	AME1622RFB2	5930	a-d	28.3	1678	g-o	4.3	1.16	82.3	28.3
26	ST6622RF	5723	b-g	29.3	1677	g-o	4.3	1.08	81.3	26
27	AME1521RFB2	5886	a-d	28.2	1660	g-o	4.3	1.11	83.3	27.9
28	DP 424 B2R	5772	a-g	28.5	1645	h-o	4.8	1.1	83	29.8
29	DP 424 B2R	5363	f-i	30.3	1625	i-p	4.3	1.16	83.8	31.6
30	BCG4153	5575	d-h	28.9	1611	j-q	4.8	1.13	82.6	28.7
31	ST5885B2RF	5744	b-g	28.0	1608	k-q	4.5	1.07	82.6	25.9
32	AGR3520OK	5543	d-i	28.9	1602	l-q	4.6	1.11	81.4	25.9
33	AGR4020OK	5881	a-d	27.1	1594	l-q	4.7	1.13	81.3	26.2
34	ST3550RF	5156	hi	30.5	1572	m-q	4.5	1.18	84	29.8
35	AME1664RFB2	5346	ghi	29.2	1561	n-r	4.7	1.11	83.3	30.3
36	AGR3020OK	5396	e-i	28.9	1559	o-r	4.5	1.12	80.9	32.2
37	BCG8391	5564	d-h	26.7	1486	pqr	4.3	1.05	80.9	26.9
38	ST5007B2RF	5096	i	29.0	1478	qr	4.5	1.16	83.3	30.1
39	BCG1505	5096	i	28.0	1427	r	4.4	1.09	83.1	29.5

LSD (P=.05)

465.6

140

CV

5.82

5.85

Means followed by same letter do not significantly differ (P=.05, LSD)

The remaining four variety trials included some or all of the following 27 varieties:

ST 5242 BR ST 4892 BR ST 4686 R ST 5599 BR ST 4575 BR ST 4646 B2R  
 ST 3664 R ST 6636 BR ST 6848 R ST 4686 R NG 2448 R NG 1553 R  
 FM 958 LL FM 989 B2R FM 960 B2R PH 310 R PH 410 R PH 470 WR  
 PH 480 WR DP 488 BR DP 444 BR DP 555 BR DP 455 BR DP 449 BR  
 DP 424 B2R DP 432 R DP 434 R

Overall, Phytogen 310 R had the best average ranking across locations. The details of each trial are presented below in tables 7-10.

**Table 7. Jackson County Irrigated Variety Trial OSUREC**  
 Planted: May 10<sup>th</sup> Harvested: October 31 Soil Type: Clay Loam

Rank	Variety	Seed Cot		Gin %	Yield		Fiber Data			
		Lbs/A			Lbs/A		Mic	Length	Uniformity	Strength
1	DP 555 BR	5363	a-d	0.28	1502	a	4.5	1.13	80.4	29.5
2	DP 432 R	5728	ab	0.26	1489	ab	4.7	1.11	83.5	29.7
3	ST 5599 BR	5597	abc	0.26	1455	ab	4.7	1.09	81	29.3
4	DP 488 BR	5308	a-d	0.26	1380	abc	4.7	1.18	81.8	30.6
5	PH 480 WR	5979	a	0.23	1375	a-d	4.9	1.12	83.4	29.2
6	DP 455 BR	5472	a-d	0.25	1368	a-e	4.4	1.09	80.3	30.4
7	DP 434 R	5597	abc	0.24	1343	a-e	4.3	1.17	83.1	28.6
8	PH 310 R	5554	abc	0.24	1333	a-e	4.3	1.07	82.2	29.9
9	ST 3664 R	5297	a-e	0.25	1324	a-f	4.6	1.01	81.7	28.6
10	ST 4575 BR	5036	b-e	0.26	1309	b-g	4.9	1.09	82.7	31.4
11	FM 960 B2R	5210	a-e	0.25	1303	b-g	4.6	1.14	81.4	31.7
12	PH 410 R	5450	a-d	0.23	1254	c-h	4.8	1.12	84	29.3
13	PH 470 WR	5363	a-d	0.23	1233	c-i	4.8	1.1	82.9	30.7
14	FM 958 LL	5336	a-d	0.23	1227	c-i	4.9	1.14	80.8	33.4
15	DP 444 BR	4709	de	0.26	1224	c-i	4.5	1.1	82.5	27.4
16	ST 6848 R	5248	a-e	0.23	1207	c-j	5	1.11	82.8	32.1
17	FM 989 B2R	5455	a-d	0.22	1200	c-j	4.5	1.13	83.7	32.5
18	ST 4686 R	4970	b-e	0.24	1193	d-j	4.8	1.07	82	30.2
19	ST 4892 BR	5374	a-d	0.22	1182	e-j	4.4	1.16	85.5	31.9
20	DP 424 B2R	4976	b-e	0.23	1144	f-j	4.6	1.13	84.9	27.5
21	NG 2448 R	5156	b-e	0.22	1134	g-j	4.9	1.12	82.3	31.3
22	DP 449 BR	4513	e	0.25	1128	g-j	4.7	1.14	83	30.9
23	NG 1553 R	4883	cde	0.23	1123	g-j	4.1	1.13	82.4	34
24	ST 6636 BR	4998	b-e	0.22	1099	hij	4.7	1.16	84.5	33.6
25	ST 5242 BR	4812	cde	0.22	1059	ij	4.7	1.11	83.4	28.8
26	ST 4646 B2R	4998	b-e	0.21	1050	ij	4.7	1.09	82.3	27.8
27	NG 3964 R	4894	cde	0.21	1028	j	5	1.07	81.9	29.2

LSD (P=.05)

791.4

187

CV

10.7

10.6

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 8. Jackson County Irrigated Variety Trial WOSC****Planted:** Replanted June 15<sup>th</sup> **Harvested:** November 14<sup>th</sup>**Soil Type:** Clay Loam

Rank	Variety	Seed Cot		Gin %	Yield		Fiber Data			
		Lbs/A			Lbs/A		Mic	Length	Uniformity	Strength
1	ST 5242 BR	4796	a-f	0.25	1212	a	3.9	1.07	81.7	28
2	FM 989 B2R	4883	a-d	0.24	1149	ab	3.6	1.12	82.7	32.4
3	PH 310 R	4801	a-f	0.22	1058	bc	4	1.05	81.9	31.1
4	ST 4892 BR	5009	abc	0.20	1006	cd	3.8	1.07	82.3	31.5
5	FM 958 LL	4660	a-g	0.21	992	cd	4.5	1.11	83	33.5
6	PH 410 R	5134	a	0.19	980	cde	4	1.09	83.7	31
7	FM 960 B2R	5009	abc	0.19	967	c-f	3.6	1.15	81.6	38.6
8	ST 4686 R	4671	a-g	0.21	960	c-f	3.5	1.09	80.7	31.7
9	ST 5599 BR	4905	a-d	0.20	960	c-f	3.8	1.07	80.5	30.4
10	ST 4646 B2R	4812	a-f	0.20	959	c-f	3.9	1.07	79.7	30.3
11	PH 470 WR	4731	a-g	0.20	956	c-f	4.2	1.14	84.4	30.3
12	ST 4575 BR	4889	a-d	0.20	953	c-f	3.7	1.08	83	32.8
13	DP 488 BR	4496	a-h	0.21	944	c-g	3.5	1.16	82.6	31.6
14	NG 2448 R	4829	a-e	0.19	928	d-g	3.9	1.1	82.8	31.2
15	DP 424 B2R	5074	ab	0.18	903	d-h	3.9	1.07	82.3	30.4
16	DP 455 BR	4207	e-h	0.21	901	d-h	3.8	1.09	80.9	31.3
17	DP 449 BR	4093	gh	0.22	885	d-h	4.1	1.08	80.9	30.4
18	DP 555 BR	3880	h	0.23	877	d-h	3.8	1.13	81.2	31
19	ST 3664 R	4349	c-h	0.20	860	e-h	4	1.01	82.2	29.3
20	DP 444 BR	4464	b-h	0.19	851	e-h	3.4	1.12	83.8	32.9
21	ST 6636 BR	4442	b-h	0.19	847	fgh	3.7	1.1	81.3	33.7
22	DP 434 R	4349	c-h	0.19	842	fgh	3.5	1.17	83.5	32.2
23	PH 480 WR	4529	a-h	0.18	823	ghi	4.2	1.13	83.4	33.9
24	DP 432 R	4153	fgh	0.19	779	hij	3.9	1.12	83	32
25	NG 3964 R	4246	d-h	0.17	702	ij	3.3	1.11	83.2	33.2
26	ST 6848 R	4126	gh	0.17	685	j	3.6	1.13	85.4	37.7
27	NG 1553 R	4126	gh	0.17	683	j	3.5	1.18	83.3	34.6

LSD (P=.05)

663.2

128.89

CV

10.24

9.98

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 9. Jackson County Irrigated Demonstration-Williams****Planted:** May 12<sup>th</sup> **Harvested:** October 26<sup>th</sup> **Soil Type:** Clay Loam

Rank	Variety	Seed Cot Lbs/A	Gin %	Yield Lbs/A	Avg Loan	Total \$/A
1	FM 960B2R	5850	36.1	1500	0.5800	\$ 870.00
2	DP 444BR	5309	35.4	1361	0.5711	\$ 777.27
3	ST 6636BR	4895	35.2	1255	0.5745	\$ 721.07
4	DP 555BR	5195	40.1	1332	0.5405	\$ 719.97
5	FM 989B2R	4685	32.4	1201	0.5814	\$ 698.43
6	DP 488BR	4767	34.3	1222	0.5674	\$ 693.54
7	DP 449BR	4763	35.6	1221	0.5616	\$ 685.87
8	PH 470WR	4730	34.9	1213	0.5583	\$ 677.12
9	DP 424B2R	4710	35.6	1208	0.5571	\$ 672.81
10	ST 5599BR	4707	37.0	1207	0.5566	\$ 671.77
11	ST 4646B2R	4721	35.6	1211	0.5508	\$ 666.75
12	PH 480WR	4641	36.2	1190	0.5596	\$ 665.92
13	DP 455BR	4393	38.4	1126	0.5551	\$ 625.27
14	ST 4892BR	4440	37.9	1138	0.5445	\$ 619.89
15	ST 5242BR	4292	34.5	1101	0.5526	\$ 608.14
16	ST 4575BR	4073	34.8	1044	0.5660	\$ 591.11



**Table 10. Beckham County Irrigated Trial**

Rank	Variety	Seed Cot		Gin %	Yield		Fiber Data			
		Lbs/A			Lbs/A		Mic	Length	Uniformity	Strength
1	ST 5242 BR	5445	a-e	0.2	1089	a	2.7	1.09	78.5	28.9
2	DP 449 BR	5472	a-e	0.19	1040	ab	3.1	1.12	80.8	32.2
3	PH 480 WR	5739	ab	0.18	1033	ab	2.7	1.13	79.4	28.7
4	DP 444 BR	5619	abc	0.18	1011	abc	3.4	1.14	82.8	32.3
5	PH 470 WR	5586	abc	0.18	1006	a-d	3.2	1.1	80.2	28
6	ST 4892 BR	5913	a	0.17	1005	a-d	2.5	1.06	80.2	27.6
7	PM 2280 B/R	5543	a-d	0.18	998	a-d	3.3	1.13	81.2	30.4
8	PH 310 R	5172	b-g	0.19	983	a-e	3.3	1.15	82.7	33.3
9	PH 410 R	5505	a-d	0.17	936	b-f	3	1.15	84	33.4
10	ST 3664 R	5390	a-e	0.17	916	c-f	2.6	1.15	80.7	33.8
11	FM 960 B2R	5641	abc	0.16	903	c-f	3.5	1.08	81.6	27.9
12	DP 488 BR	5248	a-g	0.17	892	d-g	3.2	1.12	82.3	29.1
13	ST 4646 B2R	5505	a-d	0.16	881	e-h	2.8	1.15	81.3	34.4
14	NG 1553 R	5058	b-g	0.17	860	f-i	2.8	1.07	78.6	28.7
15	DP 455 BR	5041	c-g	0.17	857	f-i	3.4	1.1	83.1	31.7
16	DP 434 R	5314	a-f	0.16	850	f-j	3.3	1.18	82.6	32.5
17	DP 424 B2R	5597	abc	0.15	840	f-k	3.1	1.08	82.3	30
18	ST 5599 BR	5886	a	0.14	824	f-l	3.2	1.09	81.9	31.2
19	ST 4575 BR	5183	b-g	0.15	777	g-l	2.8	1.13	81.3	31.6
20	FM 989 B2R	5472	a-e	0.14	766	h-l	3.1	1.12	80.6	29.4
21	DP 555 BR	4676	f-i	0.16	748	i-l	2.6	1.05	79	25.7
22	DP 432 R	4600	ghi	0.16	736	jkl	2.8	1.15	80	30.4
23	ST 4686 R	4878	d-h	0.15	732	kl	2.9	1.1	81.4	28.8
24	ST 6636 BR	4796	e-h	0.15	719	l	2.6	1.17	81	33
25	NG 3964 R	4311	hi	0.14	604	m	2.8	1.08	80.8	29.1
26	ST 6848 R	4077	i	0.14	571	m	3	1.15	81.5	31.9
27	NG 2448 R	5466	a-e	0.1	547	m	3.1	1.11	83.6	33.8

LSD (P=.05)                      693.4                      115  
CV                                      9.31                      9.49

Means followed by same letter do not significantly differ (P=.05, LSD)

**Table 11. Average Yield Ranking for Dryland Projects Across Locations.**

	<b>Location: Cooperator: Planting Date: Soil Type: Variety</b>	Tillman Mckinley June 3rd Sandy Loam	Jackson WOSC May 11th Clay Loam	Garfield Steinert May 25th Clay Loam	Washita Johnson May 19th Sandy Loam	Caddo Clay May 25th Sandy Loam	<b>Average</b>
1	<b>ST 4892 BR</b>	<b>3</b>	<b>2</b>	<b>14</b>	<b>3</b>	<b>8</b>	<b>6</b>
2	<b>DP 424 B2R</b>	<b>1</b>	<b>9</b>	<b>6</b>	<b>6</b>	<b>10</b>	<b>6.4</b>
3	<b>DP 455 BR</b>	<b>7</b>	<b>13</b>	<b>3</b>	<b>8</b>	<b>3</b>	<b>6.8</b>
4	<b>PH 480 WR</b>	<b>2</b>	<b>22</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>7.6</b>
5	<b>FM 960 B2R</b>	<b>8</b>	<b>1</b>	<b>25</b>	<b>1</b>	<b>5</b>	<b>8</b>
6	DP 555 BR	5	11	5	7	16	8.8
7	ST 4575 BR	4	12	21	10	1	9.6
8	PH 470 WR	9	8	24	5	4	10
9	DP 449 BR	13	3	11	14	12	10.6
10	ST 5599 BR	6	16	19	2	11	10.8
11	ST 4646 B2R	10	4	17	11	14	11.2
12	DP 488 BR	19	10	8	13	9	11.8
13	ST6636 BR	12	5	12	22	13	12.8
14	ST 4686 R	11	7	16	12	21	13.4
15	DP 444 BR	16	15	10	23	7	14.2
16	PM 2280 BR	15	20	20	15	2	14.4
17	PH 410 R	17	6	22	16	19	16
18	ST 3664 R	22	14	13	9	23	16.2
19	PH 310 R	21	25	1	20	17	16.8
20	DP 434 R	14	23	9	18	20	16.8
21	NG 2448 R	25	19	2	24	18	17.6
22	DP 432 R	24	24	7	17	22	18.8
23	NG 3969 R	20	18	15	21	24	19.6
24	ST 6848 R	18	21	18	19	25	20.2
25	NG 1553 R	23	17	23	25	15	20.6

**Table 12. Average Yield Ranking for Irrigated Projects Across Locations.**

Some varieties not present due to its absence at two of the four locations.

	<b>Location:</b>	Beckham	Jackson	Jackson	Jackson	
	<b>Cooperator:</b>	Gamble	WOSC	OSU	Williams	
	<b>Planting Date:</b>	May 20th	June 15th*	May 10th	May 12th	
	<b>Soil Type:</b>	Sandy Loam	Clay Loam	Clay Loam	Clay Loam	
	<b>Variety</b>					<b>Average</b>
1	<b>PH 310 R</b>	<b>8</b>	<b>3</b>	<b>8</b>	<b>**</b>	<b>6.3</b>
2	<b>FM 960 B2R</b>	<b>11</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>7.5</b>
3	<b>DP 488 BR</b>	<b>12</b>	<b>13</b>	<b>4</b>	<b>5</b>	<b>8.5</b>
4	<b>PH 470 WR</b>	<b>5</b>	<b>11</b>	<b>13</b>	<b>7</b>	<b>9.0</b>
5	<b>PH 410 R</b>	<b>9</b>	<b>6</b>	<b>12</b>	<b>**</b>	<b>9.0</b>
6	ST 5599 BR	18	9	3	10	10.0
7	DP 444 BR	4	20	15	2	10.3
8	ST 5242 BR	1	1	25	15	10.5
9	ST 4892 BR	6	4	19	13	10.5
10	PH 480 WR	3	23	5	12	10.8
11	DP 555 BR	21	18	1	3	10.8
12	DP 449 BR	2	17	22	6	11.8
13	FM 989 B2R	20	2	17	11	12.5
14	ST 3664 R	10	19	9	**	12.7
15	DP 455 BR	15	16	6	14	12.8
16	ST 4646 B2R	13	10	26	8	14.3
17	ST 4575 BR	19	12	10	16	14.3
18	DP 434 R	16	22	7	**	15.0
19	DP 424 B2R	17	15	20	9	15.3
20	DP 432 R	22	24	2	**	16.0
21	ST 4686 R	23	8	18	**	16.3
22	ST 6636 BR	24	21	24	4	18.3
23	NG 2448 R	27	14	21	**	20.7
24	NG 1553 R	14	27	23	**	21.3
25	ST 6848 R	26	26	16	**	22.7
26	NG 3969 R	25	25	27	**	25.7

\* Replanted due to weather

\*\* Variety Not Present at Location

# Weed Control

Weed control decisions continue to be an important part of cotton production in Oklahoma. The introduction of new herbicides and new seed technologies are increasing producer's options and maximizing efficiency of their operations. Our purpose is to identify the best options available to Oklahoma producers and help adapt those programs to their operation. We accomplish this through the generation of research-based information. As new options emerge producers often don't have the capability to experiment with them. The following trials attempt to address current or potential weed control issues important to Oklahoma cotton producers.

## Using Staple in RR Flex Cotton for Morningglory Control

**Planted:** May 19th    **Variety:** Mon RRF    **Soil Type:** Clay loam    **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Pitted Morningglory Control		
						6/1	6/9	6/17
1	UNTREATED					0 b	0 b	0 d
2	STAPLE	0.68	oz ai/a	EP2-4LFC	B	0 b	90 a	93 ab
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
3	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	0 b	85 a	92 ab
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	STAPLE	0.68	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
4	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	0 b	88 a	90 ab
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	STAPLE	0.68	oz ai/a	LAYBY	E			
	ROUNDUP WEATHERMAX	15	oz ai/a	LAYBY	E			
5	STAPLE	0.34	oz ai/a	EP2-4LFC	B	0 b	90 a	93 ab
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	STAPLE	0.34	oz ai/a	MP7-8LFC	D			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
6	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	0 b	90 a	93 ab
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	ROUNDUP WEATHERMAX	15	oz ai/a	LAYBY	E			

**Using Staple in RR Flex Cotton for Morningglory Control (continued)**

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Pitted Morningglory Control					
						6/1	6/9	6/17			
7	COTORAN	16	oz ai/a	PREEMERG	A	63	a	6.7	b	67	c
	STAPLE	0.51	oz ai/a	MP5LFC	C						
	ROUNDUP WEATHERMAX	15	oz ai/a	MP5LFC	C						
	LAYBY PRO	16	oz ai/a	LAYBY	E						
	MSMA	24	oz ai/a	LAYBY	E						
	INDUCE	0.25	% v/v	LAYBY	E						
8	STAPLE	1	oz ai/a	EP2-4LFC	B	0	b	92	a	95	a
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B						
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D						
	LAYBY PRO	16	oz ai/a	LAYBY	E						
	MSMA	24	oz ai/a	LAYBY	E						
	INDUCE	0.25	% v/v	LAYBY	E						
9	STAPLE	0.5	oz ai/a	EP2-4LFC	B	0	b	85	a	93	ab
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B						
	STAPLE	0.5	oz ai/a	MP7-8LFC	D						
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D						
	LAYBY PRO	16	oz ai/a	LAYBY	E						
	MSMA	24	oz ai/a	LAYBY	E						
10	INDUCE	0.25	% v/v	LAYBY	E						
	STAPLE	0.21	oz ai/a	EP2-4LFC	B	0	b	90	a	90	ab
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B						
	STAPLE	0.21	oz ai/a	MP7-8LFC	D						
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D						
	STAPLE	0.21	oz ai/a	LAYBY	E						
11	ROUNDUP WEATHERMAX	15	oz ai/a	LAYBY	E						
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	0	b	85	a	88	b
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D						
	STAPLE LX	2.4	oz/a	MP7-8LFC	D						
	LAYBY PRO	16	oz ai/a	LAYBY	E						
	MSMA	24	oz ai/a	LAYBY	E						
12	INDUCE	0.25	% v/v	LAYBY	E						
	ROUNDUP ORIGINAL MAX	22	oz/a	EP2-4LFC	B	0	b	90	a	93	ab
	ROUNDUP ORIGINAL MAX	22	oz/a	MP7-8LFC	D						
	STAPLE	1.2	oz/a	LAYBY	E						
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	E						
LSD (P=.05)						2.82		8.29		5.5	

Means followed by same letter do not significantly differ (P=.05, LSD)

**Using Staple in RR Flex Cotton for Morningglory Control (cont.)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Pitted Morningglory Control		
						6/21	7/15	8/1
1	UNTREATED					0 g	0 f	0 e
2	STAPLE	0.68	oz ai/a	EP2-4LFC	B	80 bc	88 bcd	95 a
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
3	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	77 cd	88 bcd	83 d
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	STAPLE	0.68	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
4	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	73 cde	87 cde	87 bcd
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	STAPLE	0.68	oz ai/a	LAYBY	E			
	ROUNDUP WEATHERMAX	15	oz ai/a	LAYBY	E			
5	STAPLE	0.34	oz ai/a	EP2-4LFC	B	77 cd	92 abc	95 a
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	STAPLE	0.34	oz ai/a	MP7-8LFC	D			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
6	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	72 de	92 abc	85 cd
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	ROUNDUP WEATHERMAX	15	oz ai/a	LAYBY	E			
7	COTORAN	16	oz ai/a	PREEMERG	A	53 f	82 e	93 ab
	STAPLE	0.51	oz ai/a	MP5LFC	C			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP5LFC	C			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
8	STAPLE	1	oz ai/a	EP2-4LFC	B	93 a	93 ab	93 ab
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			

**Using Staple in RR Flex Cotton for Morningglory Control (cont.)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Pitted Morningglory Control		
						6/21	7/15	8/1
9	STAPLE	0.5	oz ai/a	EP2-4LFC	B	87 ab	95 a	92 abc
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	STAPLE	0.5	oz ai/a	MP7-8LFC	D			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
10	STAPLE	0.21	oz ai/a	EP2-4LFC	B	70 de	85 de	83 d
	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B			
	STAPLE	0.21	oz ai/a	MP7-8LFC	D			
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	STAPLE	0.21	oz ai/a	LAYBY	E			
	ROUNDUP WEATHERMAX	15	oz ai/a	LAYBY	E			
11	ROUNDUP WEATHERMAX	15	oz ai/a	EP2-4LFC	B	68 e	87 cde	92 abc
	ROUNDUP WEATHERMAX	15	oz ai/a	MP7-8LFC	D			
	STAPLE LX	2.4	oz/a	MP7-8LFC	D			
	LAYBY PRO	16	oz ai/a	LAYBY	E			
	MSMA	24	oz ai/a	LAYBY	E			
	INDUCE	0.25	% v/v	LAYBY	E			
12	ROUNDUP ORIGINAL MAX	22	oz/a	EP2-4LFC	B	72 de	90 a-d	85 cd
	ROUNDUP ORIGINAL MAX	22	oz/a	MP7-8LFC	D			
	STAPLE	1.2	oz/a	LAYBY	E			
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	E			
LSD (P=.05)						8.33	5.45	7.86

Means followed by same letter do not significantly differ (P=.05, LSD)

**Using Staple in RR Flex Cotton for Morningglory Control (cont.)**

	<b>Application Description</b>				
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Application Date:</b>	5/19/2005	6/2/2005	6/14/2005	6/21/2005	7/21/2005
<b>Time of Day:</b>	9:00 AM	10:00 AM	9:30 AM	10:45 AM	10:00 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PREEMERGE	2-4LF COT	5LF(TRT7)	7LF	14-16LF
<b>Application Placement:</b>	BROADCAST	BROADCAST	BROADCAST	BROADCAST	DIRECTED
<b>Applied By:</b>	OSU	OSU	OSU	OSU	OSU
<b>Air Temperature, Unit:</b>	78 F	75 F	80 F	87 F	91 F
<b>% Relative Humidity:</b>	70	70	53	28	36
<b>Wind Velocity, Unit:</b>	3 MPH	8.5 MPH	3 MPH	2.5 MPH	5.5 MPH
<b>Wind Direction:</b>	SSE	SSE	EAST	SE	SW
<b>Soil Temperature, Unit:</b>	77 F	73 F	76 F	100 F	98 F
<b>Soil Moisture:</b>	GOOD	GOOD	GOOD	ADEQUATE	ADEQUATE
<b>% Cloud Cover:</b>	0	0	90	0	
<b>Appl. Equipment:</b>	LEESPIDER	LEESPIDER	LEESPIDER	LEESPIDER	REDBALL 420
<b>Operating Pressure:</b>	26	26	26	26	26
<b>Pressure Unit:</b>	PSI	PSI	PSI	PSI	PSI
<b>Nozzle Type:</b>	FLATFAN	FLATFAN	FLATFAN	FLATFAN	FLATFAN
<b>Nozzle Size:</b>	8002	8002	8002	8002	8003&001
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN	20 IN	20 IN	
<b>Nozzles/Row:</b>	2	2	2	2	3
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER	WATER	WATER	WATER
<b>Spray Volume:</b>	10	10	10	10	15
<b>Volume Unit:</b>	GPA	GPA	GPA	GPA	GPA
<b>Propellant:</b>	COMP. AIR	COMP. AIR	COMP. AIR	COMP. AIR	COMP. AIR



### Ignite 280 for Morningglory Control

**Planted:** May 19th    **Variety:** FM 958 LL    **Soil Type:** Clay loam    **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Appl Code	Pitted Morningglory Control		
					6/1/2005	6/9/2005	7/15/2005
1	UNTREATED				0 b	0 c	0 d
2	IGNITE 280	22.9	oz/a	B	0 b	100 a	97 a
	IGNITE 280	22.9	oz/a	D			
3	CAPAROL	3.2	pt/a	A	0 b	98.3 a	97 a
	IGNITE 280	22.9	oz/a	C			
	IGNITE 280	22.9	oz/a	D			
4	IGNITE 280	22.9	oz/a	B	0 b	100 a	94.3 a
	IGNITE 280	22.9	oz/a	D			
	IGNITE 280	11.5	oz/a	F			
	VALOR	1.5	oz/a	F			
5	IGNITE 280	22.9	oz/a	B	0 b	100 a	96 a
	IGNITE 280	22.9	oz/a	D			
	IGNITE 280	11.5	oz/a	F			
	ENVOKE	0.15	oz/a	F			
6	IGNITE 280	22.9	oz/a	D	0 b	0 c	56.7 c
	METOLACHLOR	16	oz/a	D			
	IGNITE 280	22.9	oz/a	E			
7	IGNITE 280	22.9	oz/a	B	0 b	100 a	97 a
	IGNITE 280	22.9	oz/a	D			
	IGNITE 280	11.5	oz/a	E			
	STAPLE	0.8	oz/a	E			
8	CAPAROL	3.2	pt/a	A	76.7 a	43.3 b	82.7 b
	IGNITE 280	22.9	oz/a	D			
	IGNITE 280	22.9	oz/a	E			
9	IGNITE 280	22.9	oz/a	C	0 b	0 c	97 a
	STAPLE	1.5	oz/a	D			
	CROP OIL CONCENTRATE	1	% v/v	D			
10	STAPLE	1.8	oz/a	B	0 b	96.7 a	93.3 ab
	CROP OIL CONCENTRATE	1	% v/v	B			
LSD (P=.05)					3.13	4.76	11.28

Means followed by same letter do not significantly differ (P=.05, LSD)

**Ignite 280 for Morningglory Control (cont.)**

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Pitted Morningglory Control	
					8/1/2005	8/25/2005
1	UNTREATED				0 d	0 g
2	IGNITE 280	22.9	oz/a	B	90 ab	70 d
	IGNITE 280	22.9	oz/a	D		
3	CAPAROL	3.2	pt/a	A	91.7 ab	70 d
	IGNITE 280	22.9	oz/a	C		
	IGNITE 280	22.9	oz/a	D		
4	IGNITE 280	22.9	oz/a	B	88.3 b	100 a
	IGNITE 280	22.9	oz/a	D		
	IGNITE 280	11.5	oz/a	F		
	VALOR	1.5	oz/a	F		
5	IGNITE 280	22.9	oz/a	B	91.7 ab	100 a
	IGNITE 280	22.9	oz/a	D		
	IGNITE 280	11.5	oz/a	F		
	ENVOKE	0.15	oz/a	F		
6	IGNITE 280	22.9	oz/a	D	73.3 c	51.7 f
	METOLACHLOR	16	oz/a	D		
	IGNITE 280	22.9	oz/a	E		
7	IGNITE 280	22.9	oz/a	B	97 a	90 b
	IGNITE 280	22.9	oz/a	D		
	IGNITE 280	11.5	oz/a	E		
	STAPLE	0.8	oz/a	E		
8	CAPAROL	3.2	pt/a	A	87.7 b	80 c
	IGNITE 280	22.9	oz/a	D		
	IGNITE 280	22.9	oz/a	E		
9	IGNITE 280	22.9	oz/a	C	90 ab	80 c
	STAPLE	1.5	oz/a	D		
	CROP OIL CONCENTRATE	1	% v/v	D		
10	STAPLE	1.8	oz/a	B	78.3 c	61.7 e
	CROP OIL CONCENTRATE	1	% v/v	B		
LSD (P=.05)					7.8	3.54

Means followed by same letter do not significantly differ (P=.05, LSD)



### Roundup Ready Flex Weed Control and Compatability

**Planted:** May 19th     **Variety:** Mon RRF     **Soil Type:** Clay loam     **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	PitMG Control 8/25/2005	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
1	UNTREATED					0 e	0 c		0 c
2	MON 3539	22	oz/a	1-3LF COT	B	78.8 d	5308 b	0.253 d	1343 b
	ORTHENE	4	oz/a	1-3LF COT	B				
	MON 3539	22	oz/a	2-5"WEEDS-AN	ASN				
3	CAPAROL	3.2	pt/a	PREEMERGE	A	93.8 a	5782 a	0.253 d	1463.3 a
	MON 3539	22	oz/a	1-3LF COT	B				
	ORTHENE	4	oz/a	1-3LF COT	B				
	MON 3539	22	oz/a	PINHEAD SQ	C				
	VYDATE	6.4	oz/a	PINHEAD SQ	C				
	MON 3539	22	oz/a	1ST BLOOM	D				
	PIX	8	oz/a	1ST BLOOM	D				
	MON 3539	22	oz/a	2-5"WEEDS-AN	ASN				
4	MON 3539	22	oz/a	1-3LF COT	B	93.8 a	5793 a	0.258 c	1494.8 a
	ORTHENE	4	oz/a	1-3LF COT	B				
	MON 3539	22	oz/a	5-8LF COT	C				
	STAPLE	1.5	oz/a	5-8LF COT	C				
	VYDATE	6.4	oz/a	5-8LF COT	C				
	MON 3539	22	oz/a	1ST BLOOM	D				
	PIX	8	oz/a	1ST BLOOM	D				
5	MON 3539	22	oz/a	1-3LF COT	B	93.8 a	5455 ab	0.25 e	1432 ab
	ORTHENE	4	oz/a	1-3LF COT	B				
	MON 3539	22	oz/a	PINHEAD SQ	C				
	TRIMAX	1.5	oz/a	PINHEAD SQ	C				
	MON 3539	22	oz/a	1ST BLOOM	D				
	ENVOKE	0.15	oz/a	1ST BLOOM	D				
	PIX	8	oz/a	1ST BLOOM	D				
6	MON 3539	22	oz/a	1-3LF COT	B	91.3 ab	5848 a	0.247 f	1444.5 ab
	MON 3539	22	oz/a	PNHEAD SQ	C				
	STAPLE	1.5	oz/a	PINHEAD SQ	C				
	VYDATE	6.4	oz/a	PINHEAD SQ	C				
	MON 3539	22	oz/a	2-5"WEEDS-AN	ASN				
7	MON 3539	22	oz/a	2-5"WEEDS-AN	ASN	88.8 bc	5188 b	0.271 a	1406 ab
	MON 3539	22	oz/a	EARLYBLOOM	D				
	TRACER	2	oz/a	EARLYBLOOM	D				
8	MON 3539	22	oz/a	2-5"WEEDS-AN	ASN	86.3 c	5586 ab	0.269 b	1502.5 a
	MON 3539	22	oz/a	EARLYBLOOM	D				
	KARATE	4	oz/a	EARLYBLOOM	D				

LSD (P=.05) 4.22 433.5 0.00114 114.51

Means followed by same letter do not significantly differ (P=.05, LSD)

## Roundup Ready Flex Weed Control and Compatability (cont.)

	Application Description			
	A	B	C	D
<b>Application Date:</b>	5/20/2005	6/1/2005	6/21/2005	7/19/2005
<b>Time of Day:</b>	9:00 AM	10:00 AM	9:00 AM	4:30 PM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PREEMERGE	EP 1-2LF	EP5-8LF	1STBLOOM
<b>Application Placement:</b>	BROADCAST	BROADCAST	BROADCAST	BROADCAST
<b>Applied By:</b>	OSU	OSU	OSU	OSU
<b>Air Temperature, Unit:</b>	75 F	73 F	84 F	99 F
<b>% Relative Humidity:</b>	83	55	34	26
<b>Wind Velocity, Unit:</b>	2.3 MPH	5.5 MPH	3.8 MPH	9.5 MPH
<b>Wind Direction:</b>	NE	SSE	SE	S
<b>Soil Temperature, Unit:</b>	74 F	73 F	84 F	103 F
<b>Soil Moisture:</b>	GOOD	GOOD	GOOD	GOOD
<b>% Cloud Cover:</b>	30	30	0	40
<b>Appl. Equipment:</b>	LEESPIDER	LEESPIDER	LEESPIDER	LEESPIDER
<b>Operating Pressure:</b>	25	25	25	25
<b>Pressure Unit:</b>	PSI	PSI	PSI	PSI
<b>Nozzle Type:</b>	FLATFAN	FLATFAN	FLATFAN	FLATFAN
<b>Nozzle Size:</b>	8002	8002	8002	8002
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN	20 IN	20 IN
<b>Nozzles/Row:</b>	2	2	2	2
<b>Ground Speed, Unit:</b>	2.7 MPH	2.7 MPH	2.7 MPH	2.7 MPH
<b>Carrier:</b>	WATER	WATER	WATER	WATER
<b>Spray Volume:</b>	15	15	15	15
<b>Volume Unit:</b>	GPA	GPA	GPA	GPA
<b>Propellant:</b>	COMP.AIR	COMP.AIR	COMP.AIR	COMP.AIR

**V10139 for the Postemergence Control of Red Sprangletop**

**Planted:** May 15th    **Variety:** DP 444 BR    **Soil Type:** Clay loam    **Location:** Felty Farms

Trt No.	Treatment Name	Growth Stage	Appl Code	Red Sprangletop Control	
				8/12/2005	8/24/2005
1	UNTREATED			0 c	0 b
2	V-10139	BROADPOST	A	96.7 a	99.3 a
	CROP OIL CONCENTRATE	BROADPOST	A		
	AMMONIUM SULFATE	BROADPOST	A		
3	V-10139	BROADPOST	A	83.3 b	93.3 a
	CROP OIL CONCENTRATE	BROADPOST	A		
	AMMONIUM SULFATE	BROADPOST	A		
4	V-10139	BROADPOST	A	73.3 b	95 a
	ENVOKE	BROADPOST	A		
	INDUCE	BROADPOST	A		
LSD (P=.05)				11.04	8.79

Means followed by same letter do not significantly differ (P=.05, LSD)

**Application Description**

	<b>A</b>
<b>Application Date:</b>	7/27/2005
<b>Time of Day:</b>	2:30 PM
<b>Application Method:</b>	SPRAY
<b>Application Timing:</b>	POSTEMERG
<b>Application Placement:</b>	BROADCAST
<b>Applied By:</b>	OSU
<b>Air Temperature, Unit:</b>	80 F
<b>% Relative Humidity:</b>	44
<b>Wind Velocity, Unit:</b>	5 MPH
<b>Wind Direction:</b>	E
<b>Soil Temperature, Unit:</b>	89 F
<b>Soil Moisture:</b>	GOOD
<b>% Cloud Cover:</b>	0
<b>Appl. Equipment:</b>	JUL2705
<b>Operating Pressure:</b>	25
<b>Pressure Unit:</b>	PSI
<b>Nozzle Type:</b>	FLATFAN
<b>Nozzle Size:</b>	8002
<b>Nozzle Spacing, Unit:</b>	20 IN
<b>Nozzles/Row:</b>	2
<b>Ground Speed, Unit:</b>	2 MPH
<b>Carrier:</b>	WATER
<b>Spray Volume:</b>	20
<b>Volume Unit:</b>	GPA
<b>Propellant:</b>	COMP. AIR

### Pigweed Control with Sequence in No-Till Cotton

**Planted:** June 10th    **Variety:** DP 655 BR    **Soil Type:** Clay loam    **Location:** Felty Farms

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Pigweed Control		
						7/19/2005	7/26/2005	8/10/2005
1	UNTREATED					0 b	0 c	0 b
2	TOUCHDOWN HITECH	0.6	qt/a	4LF COTTON	A	100 a	81.7 b	100 a
	AMMONIUM SULFATE	17	lb/100 gal	4LF COTTON	A			
	TOUCHDOWN HITECH	0.6	qt/a	8LF COTTON	B			
	AMMONIUM SULFATE	17	lb/100 gal	8LF COTTON	B			
3	SEQUENCE	2.5	pt/a	4LF COTTON	A	100 a	100 a	100 a
	AMMONIUM SULFATE	17	lb/100 gal	4LF COTTON	A			
	TOUCHDOWN HITECH	0.6	qt/a	AS NEEDED	C			
	AMMONIUM SULFATE	17	lb/100 gal	AS NEEDED	C			
4	SEQUENCE	2.5	pt/a	4LF COTTON	A	100 a	100 a	100 a
	TOUCHDOWN HITECH	0.6	qt/a	AS NEEDED	C			
5	SEQUENCE	2.5	pt/a	8LF COTTON	B	0 b	0 c	100 a
	AMMONIUM SULFATE	17	lb/100 gal	8LF COTTON	B			
	TOUCHDOWN HITECH	0.6	qt/a	AS NEEDED	C			
	AMMONIUM SULFATE	17	lb/100 gal	AS NEEDED	C			
6	SEQUENCE	2.5	pt/a	4LF COTTON	A	100 a	100 a	100 a
	TOUCHDOWN HITECH	0.6	qt/a	AS NEEDED	C			
LSD (P=.05)						0	2.14	0

Means followed by same letter do not significantly differ (P=.05, LSD)

### Pigweed Control with Sequence in No-Till Cotton (cont.)

	Application Description	
	A	B
Application Date:	7/12/2005	7/26/2005
Time of Day:	2:00 PM	9:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	3-4LF	5-6LF
Application Placement:	BROADCAST	BROADCAST
Applied By:	OSU	OSU
Air Temperature, Unit:	98 F	81 F
% Relative Humidity:	30	56
Wind Velocity, Unit:	6 MPH	5.7 F
Wind Direction:	SE	S
Soil Temperature, Unit:	100 F	85 F
Soil Moisture:	MARGINAL	MARGINAL
% Cloud Cover:	30	80
Appl. Equipment:	LEESPIDER	LEESPIDER
Operating Pressure:	24	24
Pressure Unit:	PSI	PSI
Nozzle Type:	TJFLATFAN	TJFLATFAN
Nozzle Size:	8002	8002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume:	10	10
Volume Unit:	GPA	GPA
Propellant:	COMP.AIR	COMP.AIR



### Layby Comparisons for Late-Season Morningglory Control

**Planted:** May 19th    **Variety:** FM 989 B2R    **Soil Type:** Clay loam    **Location:** OSU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Pitted Morningglory Control	
						8/1/2005	8/25/2005
1	UNTREATED					0 f	0 g
2	LAYBY PRO	1	qt/a	LAYBY	A	85 bc	68.3 de
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	A		
3	LAYBY PRO	1	qt/a	LAYBY	A	78.3 cd	63.3 ef
	ROUNDUP WEATHERMAX	22	oz/a	LAYBY	A		
4	DIREX	1	qt/a	LAYBY	A	78.3 cd	70 cde
	ROUNDUP WEATHERMAX	22	oz/a	LAYBY	A		
5	LAYBY PRO	1	qt/a	LAYBY	A	73.3 d	83.3 ab
	MSMA	2.7	pt/a	LAYBY	A		
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	A		
6	LAYBY PRO	1	qt/a	LAYBY	A	95 a	91.7 a
	VALOR	2	oz/a	LAYBY	A		
	INDUCE	0.25	% v/v	LAYBY	A		
7	ROUNDUP WEATHERMAX	22	oz/a	LAYBY	A	85 bc	65 def
	VALOR	2	oz/a	LAYBY	A		
8	SUPREND	1.5	lb/a	LAYBY	A	93.3 ab	81.7 abc
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	A		
9	ROUNDUP WEATHERMAX	22	oz/a	LAYBY	A	50 e	53.3 f
10	AIM	1	oz/a	LAYBY	A	93.3 ab	76.7 bcd
	DIREX	1	qt/a	LAYBY	A		
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	A		
11	ET	1.5	oz/a	LAYBY	A	93.3 ab	76.7 bcd
	DIREX	1	qt/a	LAYBY	A		
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	A		
12	ET	1	oz/a	LAYBY	A	71.7 d	83.3 ab
	CAPAROL	1	qt/a	LAYBY	A		
	CROP OIL CONCENTRATE	1	% v/v	LAYBY	A		
LSD (P=.05)						9.31	12.46

Means followed by same letter do not significantly differ (P=.05, LSD)

## Layby Comparisons for Late-Season Morningglory Control (cont.)

### Application Description

A

Application Date:	7/15/2005
Time of Day:	11:00 AM
Application Method:	SPRAY
Application Timing:	LAYBY
Application Placement:	DIRECTED
Applied By:	OSU
Air Temperature, Unit:	87 F
% Relative Humidity:	48
Wind Velocity, Unit:	6 MPH
Wind Direction:	NE
Soil Temperature, Unit:	81 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	0
Appl. Equipment:	REDBALL 420
Operating Pressure:	25
Pressure Unit:	PSI
Nozzle Type:	FLATFANS
Nozzle Size:	8003/001
Nozzles/Row:	3
Ground Speed, Unit:	4 MPH
Carrier:	WATER
Spray Volume:	15
Volume Unit:	GPA
Propellant:	COMP.AIR

**Envoke and Suprend for Morningglory Control**

**Planted:** May 19th    **Variety:** FM 989 B2R    **Soil Type:** Clay loam    **Location:** OSU

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Pitted Morningglory Control	
						6/9/2005	6/21/2005
1	CHECK UNTREATED					0 d	0 f
2	ENVOKE 75 WG NIS	0.101	ozwtpr/a	PT 1-2"WDS PT 1-2"WDS	A A	91.3 b	82.5 cd
3	ENVOKE 75 WG NIS	0.15	ozwtpr/a	PT 1-4"WDS PT 1-4"WDS	A A	91.3 b	85 bc
4	TOUCHDOWN HITECH 5 SL NIS ENVOKE 75 WG NIS	0.6 0.101	qt/a ozwtpr/a	PT 4 LF PT 4 LF PT 1-2"WDS PT 1-2"WDS	B B C C	0 d	66.3 e
5	SEQUENCE 5.25 EW ENVOKE 75 WG NIS	2.5 0.101	pt/a ozwtpr/a	PT 4 LF PT 1-2"WDS PT 1-2"WDS	B C C	0 d	65 e
6	SEQUENCE 5.25 EW ENVOKE 75 WG NIS	2.5 0.15	pt/a ozwtpr/a	PT 4 LF PT 1-4"WDS PT 1-4"WDS	B C C	0 d	67.5 e
7	TOUCHDOWN HITECH 5 SL NIS SUPREND 80 WG COC	0.6 1	qt/a lb/a	PT 4 LF PT 4 LF PD 1-4"WDS PD 1-4"WDS	B B D D	0 d	65 e
8	TOUCHDOWN HITECH 5 SL NIS SUPREND 80 WG COC	0.6 1.5	qt/a lb/a	PT 4 LF PT 4 LF PD 1-4"WDS PD 1-4"WDS	B B D D	0 d	66.3 e
9	SEQUENCE 5.25 EW SUPREND 80 WG COC	2.5 1	pt/a lb/a	PT 4 LF PD 1-4"WDS PD 1-4"WDS	B D D	0 d	63.8 e
10	SEQUENCE 5.25 EW SUPREND 80 WG COC	2.5 1.5	pt/a lb/a	PT 4 LF PD 1-4"WDS PD 1-4"WDS	B D D	0 d	66.3 e
11	TOUCHDOWN HITECH 5 SL NIS ENVOKE 75 WG NIS SUPREND 80 WG COC	0.6 0.101 1	qt/a ozwtpr/a lb/a	PT 4 LF PT 4 LF PT 1-4"WDS PT 1-4"WDS PD 1-4"WDS PD 1-4"WDS	B B C C D D	0 d	76.3 d

**Envoke and Suprend for Morningglory Control (continued)**

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Pitted Morningglory Control	
						6/9/2005	6/21/2005
12	SEQUENCE 5.25 EW	2.5	pt/a	PT 4 LF	B	0 d	62.5 e
	NIS			PT 4 LF	B		
	ENVOKE 75 WG	0.101	ozwtpr/a	PT 1-4"WDS	C		
	NIS			PT 1-4"WDS	C		
	SUPREND 80 WG	1	lb/a	PD 1-4"WDS	D		
	COC			PD 1-4"WDS	D		
13	ENVOKE 75 WG	0.101	ozwtpr/a	PT 1-4"WDS	A	91.3 b	81.3 cd
	NIS			PT 1-4"WDS	A		
	SUPREND 80 WG	1	lb/a	PD 1-4"WDS	D		
	COC			PD 1-4"WDS	D		
14	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PT 4 LF	B	0 d	60 e
	NIS			PT 4 LF	B		
	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PD ASN	D		
	NIS			PD ASN	D		
15	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PT 4 LF	B	0 d	66.3 e
	NIS			PT 4 LF	B		
	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PD ASN	D		
	NIS			PD ASN	D		
	SUPREND 80 WG	1.25	lb/a	LAYBY	D		
	COC			LAYBY	D		
16	STAPLE 85 SP	1.2	ozwtpr/a	PT 1-4"WDS	A	88.8 c	91.3 ab
	NIS			PT 1-4"WDS	A		
17	STAPLE 85 SP	1.2	ozwtpr/a	PT 1-4"WDS	A	93.8 a	93.8 a
	NIS			PT 1-4"WDS	A		
	SUPREND 80 WG	1.25	lb/a	PD 1-4"WDS	D		
	COC			PD 1-4"WDS	D		
18	STAPLE 85 SP	1.2	ozwtpr/a	PT 1-4"WDS	A	95 a	95 a
	NIS			PT 1-4"WDS	A		
	TOUCHDOWN HITECH 5 SL			PT 1-4"WDS	A		
	NIS			PT 1-4"WDS	A		
	SUPREND 80 WG	1.25	lb/a	LAYBY	D		
	COC	1	% v/v	LAYBY	D		
LSD (P=.05)						2.25	8.73

Means followed by same letter do not significantly differ (P=.05, LSD)

**Envoke and Suprend for Morningglory Control (continued)**

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Pitted Morningglory Control	
						7/15/2005	8/1/2005
1	CHECK UNTREATED					0 i	0 i
2	ENVOKE 75 WG NIS	0.101	ozwtpr/a	PT 1-2"WDS PT 1-2"WDS	A A	25 h	27.5 h
3	ENVOKE 75 WG NIS	0.15	ozwtpr/a	PT 1-4"WDS PT 1-4"WDS	A A	47.5 g	35 h
4	TOUCHDOWN HITECH 5 SL NIS ENVOKE 75 WG NIS	0.6 0.101	qt/a ozwtpr/a	PT 4 LF PT 4 LF PT 1-2"WDS PT 1-2"WDS	B B C C	72.5 c-f	57.5 g
5	SEQUENCE 5.25 EW ENVOKE 75 WG NIS	2.5 0.101	pt/a ozwtpr/a	PT 4 LF PT 1-2"WDS PT 1-2"WDS	B C C	73.8 c-f	67.5 efg
6	SEQUENCE 5.25 EW ENVOKE 75 WG NIS	2.5 0.15	pt/a ozwtpr/a	PT 4 LF PT 1-4"WDS PT 1-4"WDS	B C C	80 a-d	66.3 fg
7	TOUCHDOWN HITECH 5 SL NIS SUPREND 80 WG COC	0.6 1	qt/a lb/a	PT 4 LF PT 4 LF PD 1-4"WDS PD 1-4"WDS	B B D D	78.8 b-e	86.3 bc
8	TOUCHDOWN HITECH 5 SL NIS SUPREND 80 WG COC	0.6 1.5	qt/a lb/a	PT 4 LF PT 4 LF PD 1-4"WDS PD 1-4"WDS	B B D D	71.3 def	70 def
9	SEQUENCE 5.25 EW SUPREND 80 WG COC	2.5 1	pt/a lb/a	PT 4 LF PD 1-4"WDS PD 1-4"WDS	B D D	65 f	78.8 cd
10	SEQUENCE 5.25 EW SUPREND 80 WG COC	2.5 1.5	pt/a lb/a	PT 4 LF PD 1-4"WDS PD 1-4"WDS	B D D	71.3 def	83.8 bc
11	TOUCHDOWN HITECH 5 SL NIS ENVOKE 75 WG NIS SUPREND 80 WG COC	0.6 0.101 1	qt/a ozwtpr/a lb/a	PT 4 LF PT 4 LF PT 1-4"WDS PT 1-4"WDS PD 1-4"WDS PD 1-4"WDS	B B C C D D	85 ab	85 bc

**Envoke and Suprend for Morningglory Control (continued)**

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Pitted Morningglory Control			
						7/15/2005		8/1/2005	
12	SEQUENCE 5.25 EW	2.5	pt/a	PT 4 LF	B	72.5	c-f	77.5	cde
	NIS			PT 4 LF	B				
	ENVOKE 75 WG	0.101	ozwtpr/a	PT 1-4"WDS	C				
	NIS			PT 1-4"WDS	C				
	SUPREND 80 WG			1	lb/a				
COC	PD 1-4"WDS	D							
13	ENVOKE 75 WG	0.101	ozwtpr/a	PT 1-4"WDS	A				
	NIS			PT 1-4"WDS	A				
	SUPREND 80 WG	1	lb/a	PD 1-4"WDS	D				
	COC			PD 1-4"WDS	D				
14	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PT 4 LF	B	68.8	ef	61.3	fg
	NIS			PT 4 LF	B				
	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PD ASN	D				
	NIS			PD ASN	D				
15	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PT 4 LF	B	72.5	c-f	82.5	bc
	NIS			PT 4 LF	B				
	TOUCHDOWN HITECH 5 SL	0.6	qt/a	PD ASN	D				
	NIS			PD ASN	D				
	SUPREND 80 WG			1.25	lb/a				
COC	LAYBY	D							
16	STAPLE 85 SP	1.2	ozwtpr/a	PT 1-4"WDS	A	82.5	abc	58.8	g
	NIS			PT 1-4"WDS	A				
17	STAPLE 85 SP	1.2	ozwtpr/a	PT 1-4"WDS	A	87.5	ab	91.3	ab
	NIS			PT 1-4"WDS	A				
	SUPREND 80 WG	1.25	lb/a	PD 1-4"WDS	D				
	COC			PD 1-4"WDS	D				
18	STAPLE 85 SP	1.2	ozwtpr/a	PT 1-4"WDS	A	90	a	96.5	a
	NIS			PT 1-4"WDS	A				
	TOUCHDOWN HITECH 5 SL			PT 1-4"WDS	A				
	NIS	PT 1-4"WDS	A						
	SUPREND 80 WG	1.25	lb/a	LAYBY	D				
COC	1			% v/v	LAYBY	D			
LSD (P=.05)								10.07	10.17

Means followed by same letter do not significantly differ (P=.05, LSD)

**Envoke and Suprend for Morningglory Control (continued)**

	APPLICATION DESCRIPTION			
	A	B	C	D
<b>Application Date:</b>	6/20/2005	6/14/2005	6/22/2005	7/21/2005
<b>Time of Day:</b>	9:00 AM	8:00 AM	10:00 AM	1:30 PM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	EP 1-4" W	4 LF COT	7-8LF COT	PD&LAYBY
<b>Applic. Placement:</b>	BROADCAST	BROADCAST	BROADCAST	DIRECTED
<b>Air Temp., Unit:</b>	76 F	71 F	91 F	95 F
<b>% Relative Humidity:</b>	77	53	25	31
<b>Wind Velocity, Unit:</b>	8 MPH	3.1 MPH	1.8 MPH	7.7 MPH
<b>Soil Temp., Unit:</b>	75 F	75 F	90 F	100 F
<b>Soil Moisture:</b>	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
<b>% Cloud Cover:</b>	10	95	0	0
<b>Appl. Equipment:</b>	LEESPIDER	LEESPIDER	LEESPIDER	REDBAL420
<b>Operating Pressure:</b>	24PSI	24PSI	24PSI	25PSI
<b>Nozzle Type:</b>	FLATFAN	FLATFAN	FLATFAN	FLATFAN
<b>Nozzle Size:</b>	8002	8002	8002	8001/003
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN	20 IN	
<b>Nozzles/Row:</b>	2	2	2	3
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	10 GPA	10 GPA	10 GPA	15 GPA
<b>Propellant:</b>	COMP.AIR	COMP.AIR	COMP.AIR	C02

**Treatment Application Comments**

TREATMENTS 2,3,13, & 16-18 WERE APPLIED ON 6/2 (APP CODE "A"); TREATMENT 4-12 & 14-15 WERE APPLIED ON 6/14 (APP CODE "B"); TREATMENTS 4-6 & 11-12 WERE APPLIED ON 6/22 (APP CODE "C"); TREATMENTS 7-15 & 16-17 (ALL PD OR LAYBY TRTS) WERE APPLIED ON 7/21 (APP CODE "D")

## Economic Comparison of the Roundup Ready and Liberty Link Cotton Production Systems

**Planted:** May 19th

**Variety:** Stated

**Soil Type:** Clay loam

**Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Pitted Morningglory Control		
						6/9/2005	7/15/2005	8/10/2005
1	UNTREATED (FM 958 LL)					0 c	0 c	0 c
2	IGNITE (FM 958 LL)	32	oz/a	EP1-2LF	A	96.7 a	90 a	92.7 a
	IGNITE(FM 958 LL)	32	oz/a	MP10-12LF	C			
	IGNITE	32	oz/a	PD	D			
	DIREX	1	qt/a	PD	D			
3	UNTREATED (FM 960 RR)					0 c	0 c	0 c
4	ROUNDUP WM (FM 960 RR)	22	oz/a	EP1-2LF	A	90 b	90 a	87.7 ab
	STAPLE (BANDED)	1.5	oz/a	6-8LF	B			
	ROUNDUP WM	33	oz/a	COT	D			
	DIREX	1	qt/a	PD	D			
5	UNTREATED (FM 958)					0 c	0 c	0 c
6	STAPLE (FM 958)BROADCAST	1.5	oz/a	EP1-2LF	A	88.3 b	85 b	81.7 b
	AIM	1.5	oz/a	PD	D			
	DIREX	1	qt/a	PD	D			
LSD (P=.05)						2.88	4.98	8.49

Means followed by same letter do not significantly differ (P=.05, LSD)



**Economic Comparison of the Roundup Ready and Liberty Link Cotton Production Systems (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
1	UNTREATED (FM 958 LL)					0 c	0 d	0 c
2	IGNITE (FM 958 LL)	32	oz/a	EP1-2LF	A	3553 b	0.269 a	955.7 ab
	IGNITE(FM 958 LL)	32	oz/a	MP10-12LF	C			
	IGNITE	32	oz/a	PD	D			
	DIREX	1	qt/a	PD	D			
3	UNTREATED (FM 960 RR)					0 c	0 d	0 c
4	ROUNDUP WM (FM 960 RR)	22	oz/a	EP1-2LF	A	4476 a	0.254 c	1137 a
	STAPLE (BANDED)	1.5	oz/a	6-8LF COT	B			
	ROUNDUP WM	33	oz/a	PD	D			
	DIREX	1	qt/a	PD	D			
5	UNTREATED (FM 958)					0 c	0 d	0 c
6	STAPLE (FM 958)BROADCAST	1.5	oz/a	EP1-2LF	A	3125 b	0.257 b	802.7 b
	AIM	1.5	oz/a	PD	D			
	DIREX	1	qt/a	PD	D			
LSD (P=.05)						693.2	0	184.05

Means followed by same letter do not significantly differ (P=.05, LSD)

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Mic	Length	Fiber Data Uniform.	Strength
1	UNTREATED (FM 958 LL)							
2	IGNITE (FM 958 LL)	32	oz/a	A	3.8	1.12	81.4	26.8
	IGNITE(FM 958 LL)	32	oz/a	C				
	IGNITE	32	oz/a	D				
	DIREX	1	qt/a	D				
3	UNTREATED (FM 960 RR)							
4	ROUNDUP WM (FM 960 RR)	22	oz/a	A	4.0	1.18	83.1	31.2
	STAPLE (BANDED)	1.5	oz/a	B				
	ROUNDUP WM	33	oz/a	D				
	DIREX	1	qt/a	D				
5	UNTREATED (FM 958)							
6	STAPLE (FM 958)BROADCAST	1.5	oz/a	A	3.2	1.12	83.3	31.1
	AIM	1.5	oz/a	C				
	DIREX	1	qt/a	C				

**Economic Comparison of the Roundup Ready, Liberty Link and Conventional Cotton Systems (continued)**

Treatment (system) Variety	Seed & Tech. Cost \$/Acre	Herbicide Program Cost w/ app.'s	Lint Yield Lbs/Ac	Loan Value (\$/lb)	Gross Revenue \$/Acre	Partial Returns Herb. System
2 (Liberty Link) FM 958 LL	\$ 28.00	\$ 48.81	955.7	\$ 0.5000	\$ 477.85	\$ 401.04
4 (Roundup Ready) FM 960 RR	\$ 31.40	\$ 55.32	1137	\$ 0.5525	\$ 628.19	\$ 541.47
6 (Conventional) FM 958	\$ 15.60	\$ 52.87	802.7	\$ 0.5075	\$ 407.37	\$ 338.90

**Application Description**

	A	B	C	D
Application Date:	6/1/2005	6/21/2005	6/30/2005	7/21/2005
Time of Day:	10:00 AM	2:00 PM	6:45 AM	2:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	EP 1-2LF	MP 6-8LF	MP10-12LF	LP
Application Placement:	BROADCAST	BANDED	BROADCAST	DIRECTED
Applied By:	OSU	OSU	OSU	OSU
Air Temperature, Unit:	73 F	91 F	78 F	95 F
% Relative Humidity:	55	33	51	31
Wind Velocity, Unit:	5.5 MPH	5.5 MPH	6 MPH	7.7 MPH
Wind Direction:	SSE	ESE	SE	SW
Soil Temperature, Unit:	73 F	83 F	84 F	112 F
Soil Moisture:	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	30	0	0	0
Appl. Equipment:	LEESPIDER	LEESPIDER	LEESPIDER	REDBALL420
Operating Pressure:	25	25	25	25
Pressure Unit:	PSI	PSI	PSI	PSI
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN	FLATFAN
Nozzle Size:	8002	8002	8002	8001/003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	
Nozzles/Row:	2	2	2	3
Ground Speed, Unit:	2.7 MPH	2.7 MPH	2.7 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume:	15	15	15	15
Volume Unit:	GPA	GPA	GPA	GPA
Propellant:	COMP.AIR	COMP.AIR	COMP.AIR	COMP.AIR

# Agronomic Projects

## Supplemental Fertility Programs with Foliar Applications of Coron

**Planted:** May 9th      **Variety:** DP 444 BR      **Soil Type:** Clay loam      **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
1	REC. NITROGEN PROG					4397 a	33.13 a	1455 a
2	2/3 OF REC. PREPLANT N					4430 a	32.33 ab	1432 a
	HM9754	1	gal/a	IN-FURROW	B			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	CORON 10-0-10+B	1	gal/a	1ST BLOOM	D			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			
	CORON 25-0-0	1	gal/a	AS NEEDED	F			
3	2/3 OF REC. PREPLANT N					4471 a	31.88 b	1427 a
	HM0404 SEED TREATMENT	4	oz/cwt	SEED TRT	A			
	HM9754	1	gal/a	IN-FURROW	B			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	CORON 10-0-10+B	1	gal/a	1ST BLOOM	D			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			
	CORON 25-0-0	1	gal/a	AS NEEDED	F			
4	2/3 OF REC. PREPLANT N					4522 a	31.63 b	1430 a
	HM0425	4	oz/a	IN-FURROW	B			
	HM9754	1	gal/a	IN-FURROW	B			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	CORON 10-0-10+B	1	gal/a	1ST BLOOM	D			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			
	CORON 25-0-0	1	gal/a	AS NEEDED	F			
5	2/3 OF REC. PREPLANT N					4522 a	32.03 ab	1448 a
	HM0404 SEED TREATMENT	4	oz/cwt	SEED TRT	A			
	HM0425	4	oz/a	IN-FURROW	B			
	HM9754	1	gal/a	IN-FURROW	B			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	CORON 10-0-10+B	1	gal/a	1ST BLOOM	D			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			
	CORON 25-0-0	1	gal/a	AS NEEDED	F			
6	REC. NITROGEN PROG					4451 a	32.25 ab	1436 a
	HM0404 SEED TREATMENT	4	oz/cwt	SEED TRT	A			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			
7	REC. NITROGEN PROG					4706 a	32.2 ab	1517 a
	HM0425	4	oz/a	IN-FURROW	B			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			

**Supplemental Fertility Programs with Foliar Applications of Coron (continued)**

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
8	REC. NITROGEN PROG					4724 a	32.15 ab	1518 a
	HM404 SEED TREATMENT	4	oz/cwt	SEED TRT	A			
	HM0425	4	oz/a	IN-FURROW	B			
	HM9826A (12-0-0+B)BLANKET	1	qt/a	PINHEAD	C			
	HM9870 BLANKET	2	qt/a	MIDBLOOM	E			

LSD (P=.05)

361.5

1.138

119.3

Means followed by same letter do not significantly differ (P=.05, LSD)

**Supplemental Fertility Programs with Foliar Applications of Coron (continued)**

Trt No.	Treatment Name	Rate	Unit	Appl Code	Fiber Data							
					Mic	Length	Uniformity		Strength			
1	RECOMMENDED NITROGEN PROG				4.43	a	1.103	a	82.43	a	29.35	a
2	2/3 OF REC. PREPLANT N				4.35	a	1.103	a	82.23	a	29.03	ab
	HM9754	1	gal/a	B								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	CORON 10-0-10+B	1	gal/a	D								
	HM9870 BLANKET	2	qt/a	E								
	CORON 25-0-0	1	gal/a	F								
3	2/3 OF REC. PREPLANT N				4.48	a	1.11	a	82.85	a	28.75	ab
	HM0404 SEED TREATMENT	4	oz/cwt	A								
	HM9754	1	gal/a	B								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	CORON 10-0-10+B	1	gal/a	D								
	HM9870 BLANKET	2	qt/a	E								
	CORON 25-0-0	1	gal/a	F								
4	2/3 OF REC. PREPLANT N				4.45	a	1.113	a	82.8	a	27.48	b
	HM0425	4	oz/a	B								
	HM9754	1	gal/a	B								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	CORON 10-0-10+B	1	gal/a	D								
	HM9870 BLANKET	2	qt/a	E								
	CORON 25-0-0	1	gal/a	F								
5	2/3 OF REC. PREPLANT N				4.3	a	1.105	a	81.88	a	27.88	ab
	HM0404 SEED TREATMENT	4	oz/cwt	A								
	HM0425	4	oz/a	B								
	HM9754	1	gal/a	B								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	CORON 10-0-10+B	1	gal/a	D								
	HM9870 BLANKET	2	qt/a	E								
	CORON 25-0-0	1	gal/a	F								
6	RECOMMENDED NITROGEN PROG				4.38	a	1.095	a	82.35	a	28.2	ab
	HM0404 SEED TREATMENT	4	oz/cwt	A								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	HM9870 BLANKET	2	qt/a	E								
7	RECOMMENDED NITROGEN PROG				4.38	a	1.11	a	82.6	a	28.25	ab
	HM0425	4	oz/a	B								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	HM9870 BLANKET	2	qt/a	E								
8	RECOMMENDED NITROGEN PROG				4.45	a	1.105	a	82.58	a	28.05	ab
	HM404 SEED TREATMENT	4	oz/cwt	A								
	HM0425	4	oz/a	B								
	HM9826A (12-0-0+B)BLANKET	1	qt/a	C								
	HM9870 BLANKET	2	qt/a	E								
LSD (P=.05)					0.229		0.0223		1.167		1.752	
CV					3.54		1.37		0.96		4.2	

Means followed by same letter do not significantly differ (P=.05, LSD)



### Roundup Ready Flex Crop Tolerance

**Planted:** May 9th

**Variety:** MON RRF

**Soil Type:** Clay loam

**Location:** OSU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Injury 6/1-7/15	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
1	STAPLE	1.5	oz/a	EP	A	0 a	5145 bc	28.98 a	1493 ab
	CROP OIL CONCENTRATE	1	% v/v	EP	A				
2	MON 3539	22	oz/a	1-3LF COT	A	0 a	5499 a	29.15 a	1608 a
	MON 3539	22	oz/a	6-8LF COT	B				
	MON 3539	22	oz/a	12-14LF COT	C				
3	MON 3539	33	oz/a	1-3LF COT	A	0 a	5390 abc	27.85 a	1503 ab
	MON 3539	33	oz/a	6-8LF COT	B				
	MON 3539	33	oz/a	12-14LF COT	C				
4	MON 3539	22	oz/a	1-3LF COT	A	0 a	5112 c	28.63 a	1458 b
	MON 3539	22	oz/a	2ND APP	A				
	MON 3539	22	oz/a	6-8LF COT	B				
	MON 3539	22	oz/a	2ND APP	B				
	MON 3539	22	oz/a	12-14LF COT	C				
	MON 3539	22	oz/a	2ND APP	C				
5	MON 3539	33	oz/a	1-3LF COT	A	0 a	5336 abc	28.73 a	1534 ab
	MON 3539	33	oz/a	2ND APP	A				
	MON 3539	33	oz/a	6-8LF COT	B				
	MON 3539	33	oz/a	2ND APP	B				
	MON 3539	33	oz/a	12-14LF COT	C				
	MON 3539	33	oz/a	2ND APP	C				
6	ROUNDUP WEATHERMAX	22	oz/a	1-3LF COT	A	0 a	5259 abc	29.15 a	1531 ab
	ROUNDUP WEATHERMAX	22	oz/a	6-8LF COT	B				
	ROUNDUP WEATHERMAX	22	oz/a	12-14LF COT	C				
7	ROUNDUP WEATHERMAX	33	oz/a	1-3LF COT	A	0 a	5455 abc	28 a	1532 ab
	ROUNDUP WEATHERMAX	33	oz/a	6-8LF COT	B				
	ROUNDUP WEATHERMAX	33	oz/a	12-14LF COT	C				
8	ROUNDUP WEATHERMAX	22	oz/a	1-3LF COT	A	0 a	5466 ab	28.55 a	1562 ab
	ROUNDUP WEATHERMAX	22	oz/a	2ND APP	A				
	ROUNDUP WEATHERMAX	22	oz/a	6-8LF COT	B				
	ROUNDUP WEATHERMAX	22	oz/a	2ND APP	B				
	ROUNDUP WEATHERMAX	22	oz/a	12-14LF COT	C				
	ROUNDUP WEATHERMAX	22	oz/a	2ND APP	C				
9	ROUNDUP WEATHERMAX	33	oz/a	1-3LF COT	A	0 a	5428 abc	29.08 a	1582 ab
	ROUNDUP WEATHERMAX	33	oz/a	2ND APP	A				
	ROUNDUP WEATHERMAX	33	oz/a	6-8LF COT	B				
	ROUNDUP WEATHERMAX	33	oz/a	2ND APP	B				
	ROUNDUP WEATHERMAX	33	oz/a	12-14LF COT	C				
	ROUNDUP WEATHERMAX	33	oz/a	2ND APP	C				

**Roundup Ready Flex Crop Tolerance (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Injury 6/1-7/15	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
10	MON 3539	66	oz/a	1-3LF COT	A	0 a	5499 a	28.88 a	1588 ab
	MON 3539	66	oz/a	6-8LF COT	B				
	MON 3539	66	oz/a	12-14LF COT	C				
LSD (P=.05)						0	347.7	1.645	135.6

Means followed by same letter do not significantly differ (P=.05, LSD)



**Roundup Ready Flex Crop Tolerance (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Fiber Data							
					Mic	Length	Uniform	Strength				
1	STAPLE	1.5	oz/a	A	4.63	a	1.103	ab	82.23	a	27.2	bc
	CROP OIL CONCENTRATE	1	% v/v	A								
2	MON 3539	22	oz/a	A	4.33	b	1.108	ab	82.9	a	27.33	abc
	MON 3539	22	oz/a	B								
	MON 3539	22	oz/a	C								
3	MON 3539	33	oz/a	A	4.25	b	1.1	ab	82.2	a	27.05	c
	MON 3539	33	oz/a	B								
	MON 3539	33	oz/a	C								
4	MON 3539	22	oz/a	A	4.35	ab	1.095	b	82.95	a	28.63	ab
	MON 3539	22	oz/a	A								
	MON 3539	22	oz/a	B								
	MON 3539	22	oz/a	B								
	MON 3539	22	oz/a	C								
	MON 3539	22	oz/a	C								
5	MON 3539	33	oz/a	A	4.3	b	1.095	b	82.53	a	28.75	a
	MON 3539	33	oz/a	A								
	MON 3539	33	oz/a	B								
	MON 3539	33	oz/a	B								
	MON 3539	33	oz/a	C								
	MON 3539	33	oz/a	C								
6	ROUNDUP WEATHERMAX	22	oz/a	A	4.53	ab	1.1	ab	82.48	a	27.33	abc
	ROUNDUP WEATHERMAX	22	oz/a	B								
	ROUNDUP WEATHERMAX	22	oz/a	C								
7	ROUNDUP WEATHERMAX	33	oz/a	A	4.25	b	1.1	ab	82.98	a	27.75	abc
	ROUNDUP WEATHERMAX	33	oz/a	B								
	ROUNDUP WEATHERMAX	33	oz/a	C								
8	ROUNDUP WEATHERMAX	22	oz/a	A	4.35	ab	1.113	ab	83.18	a	28.03	abc
	ROUNDUP WEATHERMAX	22	oz/a	A								
	ROUNDUP WEATHERMAX	22	oz/a	B								
	ROUNDUP WEATHERMAX	22	oz/a	B								
	ROUNDUP WEATHERMAX	22	oz/a	C								
	ROUNDUP WEATHERMAX	22	oz/a	C								
9	ROUNDUP WEATHERMAX	33	oz/a	A	4.5	ab	1.108	ab	82.43	a	27.35	abc
	ROUNDUP WEATHERMAX	33	oz/a	A								
	ROUNDUP WEATHERMAX	33	oz/a	B								
	ROUNDUP WEATHERMAX	33	oz/a	B								
	ROUNDUP WEATHERMAX	33	oz/a	C								
	ROUNDUP WEATHERMAX	33	oz/a	C								
10	MON 3539	66	oz/a	A	4.5	ab	1.118	a	82.43	a	28.2	abc
	MON 3539	66	oz/a	B								
	MON 3539	66	oz/a	C								
LSD (P=.05)					0.297		0.0194		1.437		1.436	
CV					4.65		1.21		1.2		3.56	

Means followed by same letter do not significantly differ (P=.05, LSD)

### Roundup Ready Flex Crop Tolerance (continued)

	Application Description		
	A	B	C
<b>Application Date:</b>	5/27/2005	6/17/2005	7/12/2005
<b>Time of Day:</b>	4:00 PM	10:30 PM	8:45 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	EP1-3LF	6-8LF	12-14LF
<b>Application Placement:</b>	BROADCAST	BROADCAST	BROADCAST
<b>Applied By:</b>	OSU	OSU	OSU
<b>Air Temperature, Unit:</b>	76 F	84 F	82 F
<b>% Relative Humidity:</b>	58	40	64
<b>Wind Velocity, Unit:</b>	6 MPH	5 MPH	3 MPH
<b>Wind Direction:</b>	E		
<b>Soil Temperature, Unit:</b>	72 F	80 F	82 F
<b>Soil Moisture:</b>	GOOD	GOOD	GOOD
<b>% Cloud Cover:</b>	100	0	60
<b>Appl. Equipment:</b>	LEE SPIDER	LEE SPIDER	LEE SPIDER
<b>Operating Pressure:</b>	25	25	25
<b>Pressure Unit:</b>	PSI	PSI	PSI
<b>Nozzle Type:</b>	FLATFAN	FLATFAN	FLATFAN
<b>Nozzle Size:</b>	8002	8002	8002
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN	20 IN
<b>Nozzles/Row:</b>	2	2	2
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume:</b>	10	10	10
<b>Volume Unit:</b>	GPA	GPA	GPA
<b>Propellant:</b>	COMP.AIR	COMP.AIR	COMP.AIR

### Dryland Plant Population Study

**Planted:** May 19th    **Variety:** ST 5599 BR    **Soil Type:** Sandy loam    **Location:** Johnson Farm

Entry No.	Entry Name	Seeding Rate	Rate Unit	Appl Code	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
1	ST 5599 BR	22000	plants/a	A	3619 a	0.21 a	764 a
2	ST 5599 BR	32000	plants/a	A	3510 a	0.22 a	772 a
3	ST 5599 BR	42000	plants/a	A	3379 a	0.208 a	712 a
4	ST 5599 BR	52000	plants/a	A	3177 a	0.205 a	652 a
5	ST 5599 BR	62000	plants/a	A	3461 a	0.208 a	727 a
LSD (P=.05)					926.6	0.0203	240.5

Means followed by same letter do not significantly differ (P=.05, LSD)

Entry No.	Entry Name	Seeding Rate	Rate Unit	Appl Code	Fiber Data						
					Mic	Length	Uniform.	Strength			
1	ST 5599 BR	22000	plants/a	A	3.73 a	1.093 a	80.33 a	28.88 b			
2	ST 5599 BR	32000	plants/a	A	3.83 a	1.108 a	81.1 a	30.25 ab			
3	ST 5599 BR	42000	plants/a	A	3.78 a	1.115 a	81.68 a	29.8 ab			
4	ST 5599 BR	52000	plants/a	A	3.53 a	1.128 a	80.43 a	31.88 a			
5	ST 5599 BR	62000	plants/a	A	3.6 a	1.11 a	80.75 a	31.78 a			
LSD (P=.05)					0.364	0.0424	2.182	2.344			
CV					6.39	2.48	1.75	4.99			

Means followed by same letter do not significantly differ (P=.05, LSD)

### Effects of Trimax Insecticide on Cotton Lint Yields

**Planted:** May 12th    **Variety:** FM 960 B2R    **Soil Type:** Clay loam    **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Seed Cotton Lbs/A	Gin %	Yield Lbs/A
1	UNTREATED					5347 b	0.2268 a	1210 b
2	TRIMAX	1.5	oz/a	PINHEAD	A	5517 ab	0.2288 a	1263.5 ab
	TRIMAX	1.5	oz/a	18 DAIT	B			
3	AE F106464 00 SC41 A2	1.8	oz/a	PINHEAD	A	5695 a	0.2353 a	1338.5 a
	AE F106464 00 SC41 A2	1.8	oz/a	18 DAIT	B			
4	INTRUDER	1.07	oz/a	PINHEAD	A	5677 a	0.2395 a	1361.3 a
	INTRUDER	1.07	oz/a	18 DAIT	B			
5	CENTRIC	1.5	oz/a	PINHEAD	A	5590 ab	0.2318 a	1293.3 ab
	CENTRIC	1.5	oz/a	18 DAIT	B			
LSD (P=.05)						283.7	0.0214	127.28

Means followed by same letter do not significantly differ (P=.05, LSD)

Trt No.	Treatment Name	Rate	Unit	Appl Code	Fiber Data						
					Mic	Length	Uniform.	Strength			
1	UNTREATED				4.58 a	1.158 ab	82.68 a	32.83 a			
2	TRIMAX	1.5	oz/a	A	4.55 a	1.135 b	82.13 a	32.6 a			
	TRIMAX	1.5	oz/a	B							
3	AE F106464 00 SC41 A2	1.8	oz/a	A	4.53 a	1.14 ab	81.45 a	34.28 a			
	AE F106464 00 SC41 A2	1.8	oz/a	B							
4	INTRUDER	1.07	oz/a	A	4.5 a	1.165 a	82.65 a	33.98 a			
	INTRUDER	1.07	oz/a	B							
5	CENTRIC	1.5	oz/a	A	4.38 a	1.14 ab	81.88 a	33.25 a			
	CENTRIC	1.5	oz/a	B							
LSD (P=.05)					0.269	0.0266	1.719	2.197			
CV					3.88	1.5	1.36	4.27			

Means followed by same letter do not significantly differ (P=.05, LSD)

## Effects of Trimax Insecticide on Cotton Lint Yields (continued)

	Application Description	
	A	B
<b>Application Date:</b>	6/23/2005	7/12/2005
<b>Time of Day:</b>	8:00 AM	11:00 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PINHEAD	14LF
<b>Application Placement:</b>	BROADCAST	BROADCAST
<b>Applied By:</b>	OSU	OSU
<b>Air Temperature, Unit:</b>	77 F	95 F
<b>% Relative Humidity:</b>	49	34
<b>Wind Velocity, Unit:</b>	4 MPH	4 MPH
<b>Wind Direction:</b>	SE	E
<b>Soil Temperature, Unit:</b>	80 F	100 F
<b>Soil Moisture:</b>	GOOD	ADEQUATE
<b>% Cloud Cover:</b>	0	0
<b>Appl. Equipment:</b>	LEESPIDER	LEESPIDER
<b>Operating Pressure:</b>	25	25
<b>Pressure Unit:</b>	PSI	PSI
<b>Nozzle Type:</b>	FLATFAN	FLATFAN
<b>Nozzle Size:</b>	8002	8002
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN
<b>Nozzles/Row:</b>	2	2
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume:</b>	10	10
<b>Volume Unit:</b>	GPA	GPA
<b>Propellant:</b>	COMP.AIR	COMP.AIR

### Comparison of Stance Plant Growth Regulator to Mepiquat Chloride

Planted: May 12th		Variety: FM 960 B2R		Soil Type: Clay loam		Location: OSU					
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Seed		GIN %	Yield Lbs/A		
						Cotton Lbs/A					
1	UNTREATED					4949	bc	0.234	e	1158.5	bcd
2	PIX	4	oz/a	1STBLOOM	A	4954	abc	0.242	b	1197.8	ab
	PIX	8	oz/a	MIDBLOOM	B						
3	TADS15338	1.5	oz/a	1STBLOOM	A	4807	c	0.217	k	1045	fg
	TADS15338	3	oz/a	MIDBLOOM	B						
4	PIX	8	oz/a	1STBLOOM	A	4965	abc	0.207	l	1030	g
	PIX	16	oz/a	MIDBLOOM	B						
5	TADS15338	3	oz/a	1STBLOOM	A	4981	abc	0.224	g	1117.8	cde
	TADS15338	3	oz/a	MIDBLOOM	B						
6	PIX	4	oz/a	1STBLOOM	A	5079	ab	0.237	d	1202	ab
	TADS15338	1.5	oz/a	MIDBLOOM	B						
7	PIX	4	oz/a	1STBLOOM	A	4932	bc	0.239	c	1176.5	b
	TADS15338	3	oz/a	MIDBLOOM	B						
8	PIX	16	oz/a	MIDBLOOM	B	5107	ab	0.243	a	1241.5	a
9	TADS15338	3	oz/a	MIDBLOOM	B	5205	a	0.227	f	1184.3	ab
10	PIX	4	oz/a	1STBLOOM	A	5058	abc	0.217	k	1098	ef
	TADS15338	1.5	oz/a	MIDBLOOM	B						
11	PIX	4	oz/a	1STBLOOM	A	5063	ab	0.22	j	1114.8	de
	TADS15338	3	oz/a	MIDBLOOM	B						
12	TADS15338	3	oz/a	MIDBLOOM	B	4954	abc	0.237	d	1175.3	bc
	TADS15338	3	oz/a	CUTOUT	C						
13	PIX	16	oz/a	MIDBLOOM	B	4943	bc	0.221	i	1090.5	ef
	TADS15338	3	oz/a	CUTOUT	C						
14	TADS15338	3	oz/a	MIDBLOOM	B	4883	bc	0.224	g	1093.8	ef
	TADS15338	8	oz/a	CUTOUT	C						
15	PIX	16	oz/a	MIDBLOOM	B	4932	bc	0.222	h	1093.3	ef
	TADS15338	8	oz/a	CUTOUT	C						
LSD (P=.05)						252.6		0		57.52	

Means followed by same letter do not significantly differ (P=.05, LSD)

**Comparison of Stance Plant Growth Regulator to Mepiquat Chloride (continued)**

Trt No.	Treatment Name	Rate	Unit	Appl Code	Mic	Fiber Data		
						Length	Uniform	Strength
1	UNTREATED				4.3	1.15	81.5	32.1
2	PIX	4	oz/a	A	4.3	1.14	81.9	31.5
	PIX	8	oz/a	B				
3	TADS15338	1.5	oz/a	A	4.3	1.17	81.8	32.9
	TADS15338	3	oz/a	B				
4	PIX	8	oz/a	A	4.3	1.15	82.9	31.3
	PIX	16	oz/a	B				
5	TADS15338	3	oz/a	A	4.5	1.18	82	30.5
	TADS15338	3	oz/a	B				
6	PIX	4	oz/a	A	4.3	1.16	83	32.3
	TADS15338	1.5	oz/a	B				
7	PIX	4	oz/a	A	4.9	1.16	82.7	30.3
	TADS15338	3	oz/a	B				
8	PIX	16	oz/a	B	4.4	1.16	82	32.1
9	TADS15338	3	oz/a	B	4.5	1.16	82.4	30.4
10	PIX	4	oz/a	A	4.4	1.16	80.2	33.7
	TADS15338	1.5	oz/a	B				
11	PIX	4	oz/a	A	4.7	1.17	84.3	32.2
	TADS15338	3	oz/a	B				
12	TADS15338	3	oz/a	B	4.5	1.16	81	30.3
	TADS15338	3	oz/a	C				
13	PIX	16	oz/a	B	4.7	1.12	81.5	32.8
	TADS15338	3	oz/a	C				
14	TADS15338	3	oz/a	B	4.6	1.16	83.1	33.3
	TADS15338	8	oz/a	C				
15	PIX	16	oz/a	B	4.6	1.17	82.3	33.7
	TADS15338	8	oz/a	C				

**Comparison of Stance Plant Growth Regulator to Mepiquat Chloride (continued)**

<b>Application Description</b>			
	<b>A</b>	<b>B</b>	<b>C</b>
Application Date:	7/12/2005	7/26/2005	8/23/2005
Time of Day:	11:30 AM	3:00 PM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	1STBLOOM	14DAIT	CUTOUT
Application Placement:	BROADCAST	BROADCAST	BROADCAST
Applied By:	OSU	OSU	OSU
Air Temperature, Unit:	94 F	89 F	83 F
% Relative Humidity:	34	50	63
Wind Velocity, Unit:	4.5 MPH	9 MPH	4.3 MPH
Wind Direction:	E	N	S
Soil Temperature, Unit:	100 F	96 F	86 F
Soil Moisture:	GOOD	GOOD	GOOD
% Cloud Cover:	0	80	0
Appl. Equipment:	LEESPIDER	LEESPIDER	LEESPIDER
Operating Pressure:	25	25	25
Pressure Unit:	PSI	PSI	PSI
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN
Nozzle Size:	8002	8002	8002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume:	10	10	10
Volume Unit:	GPA	GPA	GPA
Propellant:	COMP.AIR	COMP.AIR	COMP.AIR



**Effects of Mid-bloom Water Stress on Fiber Quality and Lint Yields**

**Planted:** May 12th

**Variety:** Stated

**Soil Type:** Clay loam

**Location:** OSU

Trt No.	Treatment Name	Seed Cotton		Gin		Yield		Fiber Data							
		Lbs/A		%		Lbs/A		Mic	Length	Uniformity	Strength				
1	DP 444 BR - Non-stressed	5295	a	34	a	1802	a	4.47	a	1.133	a	83.23	a	29.2	a
2	DP 444 BR - Stressed	3176	b	30.3	b	964	b	4.63	a	1.09	a	83.1	a	28.37	a
LSD (P=.05)		55.9		1.43		135.3		0.625		0.1226		4.446		2.309	

Means followed by same letter do not significantly differ (P=.05, LSD)

Trt No.	Treatment Name	Seed Cotton		Gin		Yield		Fiber Data							
		Lbs/A		%		Lbs/A		Mic	Length	Uniformity	Strength				
1	DP 555 BR - Non-stressed	5213	a	35	a	1841	a	4.7	a	1.13	a	82.13	a	29.53	a
2	DP 555 BR - Stressed	2912	b	33	b	951	b	4.8	a	1.08	b	81.3	b	28.17	b
LSD (P=.05)		892.1		1.43		252.8		0.379		0.0497		0.532		0.155	

Means followed by same letter do not significantly differ (P=.05, LSD)

# Harvest Aid Performance Projects

## Blizzard Defoliation Trial-Irrigated

Planted: May 5th

Variety: ST 4575 BR

Soil Type: Clay loam

Location: OSU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 9/29/2005	Open
1	UNTREATED					0 e	0 b	79 c
2	BLIZZARD	0.6	oz/a	65%OPEN	A	80.5 c	5 a	89.5 ab
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
3	BLIZZARD	0.5	oz/a	65%OPEN	A	85.3 abc	5 a	94 a
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
4	BLIZZARD	0.4	oz/a	65%OPEN	A	86.8 abc	5 a	94.5 a
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
5	BLIZZARD	0.5	oz/a	65%OPEN	A	86.5 abc	5 a	91 ab
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.4	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
6	BLIZZARD	0.6	oz/a	65%OPEN	A	90 a	5 a	84 bc
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
7	BLIZZARD	0.5	oz/a	65%OPEN	A	88 ab	5 a	85.5 bc
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
8	BLIZZARD	0.4	oz/a	65%OPEN	A	84 abc	5 a	93.5 a
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			

**Blizzard Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 9/29/2005	Open
9	ET	2	oz/a	65%OPEN	A	82.5 bc	5 a	89 ab
	PREP	21.3	oz/a	65%OPEN	A			
	ET	2	oz/a	7DAIT	B			
10	AIM	1	oz/a	65%OPEN	A	55 d	5 a	80.5 c
	PREP	21.3	oz/a	65%OPEN	A			
	INDUCE	0.25	% v/v	65%OPEN	A			
	AIM	1	oz/a	7DAIT	B			
	INDUCE	0.25	% v/v	7DAIT	B			
11	FINISH 6 PRO	21.3	oz/a	65%OPEN	A	88.8 ab	5 a	91 ab
	DEF	16	oz/a	65%OPEN	A			
	INDUCE	0.25	% v/v	65%OPEN	A			
	GRAMOXONE MAX	16	oz/a	7DAIT	B			
	INDUCE	0.25	% v/v	7DAIT	B			
LSD (P=.05)						6.64	0	7.78

Means followed by same letter do not significantly differ (P=.05, LSD)

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 10/6/2005	Open
1	UNTREATED					0 c	0 a	90.5 de
2	BLIZZARD	0.6	oz/a	65%OPEN	A	98.5 a	0 a	89 e
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
3	BLIZZARD	0.5	oz/a	65%OPEN	A	96.5 a	0 a	97.5 a
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
4	BLIZZARD	0.4	oz/a	65%OPEN	A	97.8 a	0 a	97 ab
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
5	BLIZZARD	0.5	oz/a	65%OPEN	A	97.3 a	0 a	93.5 cd
	PREP	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.4	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			

**Blizzard Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 10/6/2005	Open
6	BLIZZARD	0.6	oz/a	65%OPEN	A	98.8 a	0 a	89 e
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
7	BLIZZARD	0.5	oz/a	65%OPEN	A	98.5 a	0 a	95 abc
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
8	BLIZZARD	0.4	oz/a	65%OPEN	A	97.3 a	0 a	94 bc
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A			
	CROP OIL CONC	1	% v/v	65%OPEN	A			
	BLIZZARD	0.5	oz/a	7DAIT	B			
	CROP OIL CONC	1	% v/v	7DAIT	B			
9	ET	2	oz/a	65%OPEN	A	82 b	0 a	96 abc
	PREP	21.3	oz/a	65%OPEN	A			
	ET	2	oz/a	7DAIT	B			
10	AIM	1	oz/a	65%OPEN	A	82.5 b	0 a	84.5 f
	PREP	21.3	oz/a	65%OPEN	A			
	INDUCE	0.25	% v/v	65%OPEN	A			
	AIM	1	oz/a	7DAIT	B			
	INDUCE	0.25	% v/v	7DAIT	B			
11	FINISH 6 PRO	21.3	oz/a	65%OPEN	A	97.3 a	0 a	98 a
	DEF	16	oz/a	65%OPEN	A			
	INDUCE	0.25	% v/v	65%OPEN	A			
	GRAMOXONE MAX	16	oz/a	7DAIT	B			
	INDUCE	0.25	% v/v	7DAIT	B			
LSD (P=.05)						3.86	0	3.41

Means followed by same letter do not significantly differ (P=.05, LSD)

**Blizzard Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Term.Reg	Bas.Reg. 10/13/2005
1	UNTREATED					0 d	0 c
2	BLIZZARD	0.6	oz/a	65%OPEN	A	8.8 bc	23.8 ab
	PREP	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.5	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
3	BLIZZARD	0.5	oz/a	65%OPEN	A	8.8 bc	18.8 b
	PREP	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.5	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
4	BLIZZARD	0.4	oz/a	65%OPEN	A	7.5 bc	18.8 b
	PREP	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.5	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
5	BLIZZARD	0.5	oz/a	65%OPEN	A	8.8 bc	25 ab
	PREP	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.4	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
6	BLIZZARD	0.6	oz/a	65%OPEN	A	5 cd	21.3 b
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.5	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
7	BLIZZARD	0.5	oz/a	65%OPEN	A	6.3 bc	21.3 b
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.5	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
8	BLIZZARD	0.4	oz/a	65%OPEN	A	8.8 bc	21.3 b
	FINISH 6 PRO	21.3	oz/a	65%OPEN	A		
	CROP OIL CONC	1	% v/v	65%OPEN	A		
	BLIZZARD	0.5	oz/a	7DAIT	B		
	CROP OIL CONC	1	% v/v	7DAIT	B		
9	ET	2	oz/a	65%OPEN	A	33.8 a	31.3 a
	PREP	21.3	oz/a	65%OPEN	A		
	ET	2	oz/a	7DAIT	B		

**Blizzard Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Term.Reg	Bas.Reg. 10/13/2005		
10	AIM	1	oz/a	65%OPEN	A	6.3	bc	8.8	c
	PREP	21.3	oz/a	65%OPEN	A				
	INDUCE	0.25	% v/v	65%OPEN	A				
	AIM	1	oz/a	7DAIT	B				
	INDUCE	0.25	% v/v	7DAIT	B				
11	FINISH 6 PRO	21.3	oz/a	65%OPEN	A	10.8	b	25	ab
	DEF	16	oz/a	65%OPEN	A				
	INDUCE	0.25	% v/v	65%OPEN	A				
	GRAMOXONE								
	MAX	16	oz/a	7DAIT	B				
	INDUCE	0.25	% v/v	7DAIT	B				
LSD (P=.05)						5.13		9.13	

Means followed by same letter do not significantly differ (P=.05, LSD)

**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	9/22/2005	9/29/2005
<b>Time of Day:</b>	1:00 PM	4:30 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	65%OPEN	7DAIT
<b>Application Placement:</b>	BROADCAST	BROADCAST
<b>Applied By:</b>	OSU	OSU
<b>Air Temperature, Unit:</b>	95 F	72 F
<b>% Relative Humidity:</b>	26	29
<b>Wind Velocity, Unit:</b>	6.6 MPH	2.3 MPH
<b>Wind Direction:</b>	S	NNE
<b>Soil Temperature, Unit:</b>	90 F	75.6 F
<b>Soil Moisture:</b>	GOOD	GOOD
<b>% Cloud Cover:</b>	0	40
<b>Appl. Equipment:</b>	LEESPIDER	LEESPIDER
<b>Operating Pressure:</b>	58	58
<b>Pressure Unit:</b>	PSI	PSI
<b>Nozzle Type:</b>	FLATFAN	FLATFAN
<b>Nozzle Size:</b>	8002	8002
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN
<b>Nozzles/Row:</b>	2	2
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume:</b>	15	15
<b>Volume Unit:</b>	GPA	GPA
<b>Propellant:</b>	COMP.AIR	COMP.AIR

### Finish Programs in Irrigated Cotton

**Planted:** May 5th      **Variety:** ST 4575 BR      **Soil Type:** Clay loam      **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Defol.	Desicc. 9/29	Open
1	UNTREATED					0 d	0 b	75.5 c
2	FINISH 6 PRO GINSTAR	21	oz/a	60%OPEN	A	92.5 a	4.3 a	81.5 abc
		6	oz/a	60%OPEN	A			
3	PREP GINSTAR	24	oz/a	60%OPEN	A	90 a	5 a	80.5 bc
		6	oz/a	60%OPEN	A			
4	FINISH 6 PRO DEF	21	oz/a	60%OPEN	A	80 b	5 a	84.5 abc
		16	oz/a	60%OPEN	A			
5	PREP DEF	32	oz/a	60%OPEN	A	89.3 a	5 a	90 ab
		16	oz/a	60%OPEN	A			
6	PREP	32	oz/a	60%OPEN	A	71.3 c	5 a	86 ab
7	FINISH 6 PRO DEF	24	oz/a	60%OPEN	A	87.5 a	5 a	88 ab
		6	oz/a	60%OPEN	A			
8	FINISH 6 PRO DEF	24	oz/a	60%OPEN	A	88.3 a	4.3 a	88.5 ab
		24	oz/a	60%OPEN	A			
9	PREP DEF	21	oz/a	60%OPEN	A	90 a	4.3 a	91 a
		16	oz/a	60%OPEN	A			
10	FINISH 6 PRO	32	oz/a	60%OPEN	A	90.8 a	4.3 a	88.5 ab
LSD (P=.05)						5.19	1.3	9.99

Means followed by same letter do not significantly differ (P=.05, LSD)

**Finish Programs in Irrigated Cotton (continued)**

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Defol.	Desicc. 10/6	Open
1	UNTREATED					0 f	0 a	81 c
2	FINISH 6 PRO	21	oz/a	60%OPEN	A	96.5 a	0 a	94 a
	GINSTAR	6	oz/a	60%OPEN	A			
3	PREP	24	oz/a	60%OPEN	A	94.5 ab	0 a	92.3 ab
	GINSTAR	6	oz/a	60%OPEN	A			
4	FINISH 6 PRO	21	oz/a	60%OPEN	A	80 d	0 a	90 ab
	DEF	16	oz/a	60%OPEN	A			
5	PREP	32	oz/a	60%OPEN	A	85 cd	0 a	92.8 ab
	DEF	16	oz/a	60%OPEN	A			
6	PREP	32	oz/a	60%OPEN	A	63.8 e	0 a	88.5 b
7	FINISH 6 PRO	24	oz/a	60%OPEN	A	88.5 bc	0 a	92.5 ab
	DEF	6	oz/a	60%OPEN	A			
8	FINISH 6 PRO	24	oz/a	60%OPEN	A	83.3 cd	0 a	90 ab
	DEF	24	oz/a	60%OPEN	A			
9	PREP	21	oz/a	60%OPEN	A	88.8 abc	0 a	90.5 ab
	DEF	16	oz/a	60%OPEN	A			
10	FINISH 6 PRO	32	oz/a	60%OPEN	A	94.8 ab	0 a	91.5 ab
LSD (P=.05)						7.76	0	5.11

Means followed by same letter do not significantly differ (P=.05, LSD)



### Finish Programs in Irrigated Cotton (continued)

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Term. Reg. 10/13	Bas. Reg.
1	UNTREATED					0 d	0 d
2	FINISH 6 PRO GINSTAR	21	oz/a	60%OPEN	A	7.5 d	22.5 c
		6	oz/a	60%OPEN	A		
3	PREP GINSTAR	24	oz/a	60%OPEN	A	12.5 d	22.5 c
		6	oz/a	60%OPEN	A		
4	FINISH 6 PRO DEF	21	oz/a	60%OPEN	A	55 a	42.5 a
		16	oz/a	60%OPEN	A		
5	PREP DEF	32	oz/a	60%OPEN	A	55 a	40 a
		16	oz/a	60%OPEN	A		
6	PREP	32	oz/a	60%OPEN	A	47.5 ab	30 bc
7	FINISH 6 PRO DEF	24	oz/a	60%OPEN	A	27.5 c	30 bc
		6	oz/a	60%OPEN	A		
8	FINISH 6 PRO DEF	24	oz/a	60%OPEN	A	40 bc	37.5 ab
		24	oz/a	60%OPEN	A		
9	PREP DEF	21	oz/a	60%OPEN	A	42.5 ab	37.5 ab
		16	oz/a	60%OPEN	A		
10	FINISH 6 PRO	32	oz/a	60%OPEN	A	11.3 d	25 c
LSD (P=.05)						13.03	9.36

Means followed by same letter do not significantly differ (P=.05, LSD)

## Finish Programs in Irrigated Cotton (continued)

### Application Description

A

Application Date:	9/22/2005
Time of Day:	3:00 PM
Application Method:	SPRAY
Application Timing:	65%OPEN
Application Placement:	BROADCAST
Applied By:	OSU
Air Temperature, Unit:	95 F
% Relative Humidity:	26
Wind Velocity, Unit:	6.6 MPH
Wind Direction:	S
Soil Temperature, Unit:	90 F
Soil Moisture:	GOOD
% Cloud Cover:	0
Appl. Equipment:	LEESPIDER
Operating Pressure:	58
Pressure Unit:	PSI
Nozzle Type:	FLATFAN
Nozzle Size:	8002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	2
Ground Speed, Unit:	4 MPH
Carrier:	WATER
Spray Volume:	15
Volume Unit:	GPA
Propellant:	COMP.AIR

### Resource Defoliation Trial-Irrigated

**Planted:** May 5th      **Variety:** ST 4575 BR      **Soil Type:** Clay loam      **Location:** OSU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Defol.	Desicc. 9/29	Open
1	UNTREATED CHECK					0 c	0 b	79 c
2	RESOURCE	8	oz/a	60%OPEN	A	83 b	4.5 a	86.5 ab
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
	RESOURCE	6	oz/a	7DAIT	B			
	CROP OIL	1	pt/a	7DAIT	B			
3	RESOURCE	4	oz/a	60%OPEN	A	82.5 b	3.8 a	89 a
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
4	RESOURCE	4	oz/a	60%OPEN	A	81.3 b	2.5 ab	85.5 ab
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
5	RESOURCE	8	oz/a	60%OPEN	A	84.5 b	2.5 ab	82.5 bc
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
6	FINISH 6 PRO	1.3	pt/a	60%OPEN	A	91.3 a	4.3 a	83 bc
	DEF	1.3	pt/a	60%OPEN	A			
	INDUCE	0.25	v/v	60%OPEN	A			
LSD (P=.05)						4.7	3.35	4.2

Means followed by same letter do not significantly differ (P=.05, LSD)

**Resource Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Defol.	Desicc. 10/6	Open
1	UNTREATED CHECK					0 e	0 a	78 d
2	RESOURCE	8	oz/a	60%OPEN	A	97.5 a	0 a	91.5 ab
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
	RESOURCE	6	oz/a	7DAIT	B			
	CROP OIL	1	pt/a	7DAIT	B			
3	RESOURCE	4	oz/a	60%OPEN	A	83.8 c	0 a	89.8 abc
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
4	RESOURCE	4	oz/a	60%OPEN	A	78.8 d	0 a	86.5 c
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
5	RESOURCE	8	oz/a	60%OPEN	A	81.3 cd	0 a	87.8 bc
	PREP	1.3	pt/a	60%OPEN	A			
	CROP OIL	1	pt/a	60%OPEN	A			
6	FINISH 6 PRO	1.3	pt/a	60%OPEN	A	88.8 b	0 a	93.8 a
	DEF	1.3	pt/a	60%OPEN	A			
	INDUCE	0.25	v/v	60%OPEN	A			
LSD (P=.05)						4.84	0	4.35

Means followed by same letter do not significantly differ (P=.05, LSD)

**Resource Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Term. Reg. 10/13	Bas. Reg.
1	UNTREATED CHECK					0 d	0 d
2	RESOURCE	8	oz/a	60%OPEN	A	10 d	31.3 c
	PREP	1.3	pt/a	60%OPEN	A		
	CROP OIL	1	pt/a	60%OPEN	A		
	RESOURCE	6	oz/a	7DAIT	B		
	CROP OIL	1	pt/a	7DAIT	B		
3	RESOURCE	4	oz/a	60%OPEN	A	55 b	62.5 a
	PREP	1.3	pt/a	60%OPEN	A		
	CROP OIL	1	pt/a	60%OPEN	A		
4	RESOURCE	4	oz/a	60%OPEN	A	50 b	50 b
	PREP	1.3	pt/a	60%OPEN	A		
	CROP OIL	1	pt/a	60%OPEN	A		
5	RESOURCE	8	oz/a	60%OPEN	A	37.5 c	47.5 b
	PREP	1.3	pt/a	60%OPEN	A		
	CROP OIL	1	pt/a	60%OPEN	A		
6	FINISH 6 PRO	1.3	pt/a	60%OPEN	A	70 a	55 ab
	DEF	1.3	pt/a	60%OPEN	A		
	INDUCE	0.25	v/v	60%OPEN	A		
LSD (P=.05)						12.43	9.05

Means followed by same letter do not significantly differ (P=.05, LSD)

### Resource Defoliation Trial-Irrigated (continued)

	Application Description	
	A	B
Application Date:	9/22/2005	9/29/2005
Time of Day:	4:30 PM	4:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	60%OPEN	7DAIT
Application Placement:	BROADCAST	BROADCAST
Applied By:	OSU	OSU
Air Temperature, Unit:	95 F	74 F
% Relative Humidity:	26	25
Wind Velocity, Unit:	6.6 MPH	7 MPH
Wind Direction:	S	NNE
Soil Temperature, Unit:	90 F	78 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	0	40
Appl. Equipment:	LEESPIDER	LEESPIDER
Operating Pressure:	58	58
Pressure Unit:	PSI	PSI
Nozzle Type:	FLATFAN	FLATFAN
Nozzle Size:	8002	8002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume:	15	15
Volume Unit:	GPA	GPA
Propellant:	COMP.AIR	COMP.AIR

### FirstPick Defoliation Trial-Irrigated

Planted: May 5th

Variety: ST 4575 BR

Soil Type: Clay loam

Location: OSU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 9/29	Open
1	UNTREATED					0 e	0 b	78 c
2	FIRSTPICK FOLEX	1.5 6	qt/a oz/a	65%OPEN 65%OPEN	A A	78.8 c	5 a	89 ab
3	FIRSTPICK FOLEX	2 6	qt/a oz/a	65%OPEN 65%OPEN	A A	83.8 b	5 a	88 ab
4	FINISH 6 PRO FOLEX	1.3 6	pt/a oz/a	65%OPEN 65%OPEN	A A	85 b	5 a	87.5 ab
5	SUPERBOLL FOLEX	1.5 6	pt/a oz/a	65%OPEN 65%OPEN	A A	81.3 bc	5 a	95.5 a
6	FIRSTPICK GINSTAR	1.5 3	qt/a oz/a	65%OPEN 65%OPEN	A A	93 a	4.3 a	91 ab
7	FINISH 6 PRO GINSTAR	1.3 6	pt/a oz/a	65%OPEN 65%OPEN	A A	91.5 a	5 a	87 ab
8	FIRSTPICK AIM INDUCE	1.5 0.5 0.25	qt/a oz/a % v/v	65%OPEN 65%OPEN 65%OPEN	A A A	63.8 d	5 a	89 ab
9	FIRSTPICK AIM INDUCE	2 0.5 0.25	qt/a oz/a % v/v	65%OPEN 65%OPEN 65%OPEN	A A A	85 b	5 a	86 bc
10	FIRSTPICK FREEFALL FIRSTPICK FOLEX	0.4 0.1 1.6 6	qt/a lb ai/a qt/a oz/a	65%OPEN 65%OPEN 7DAIT 7DAIT	A A B B	90 a	5 a	88.5 ab
LSD (P=.05)						4.42	0.85	8.72

Means followed by same letter do not significantly differ (P=.05, LSD)

**FirstPick Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 10/6	Open
1	UNTREATED					0 e	0 a	84.5 b
2	FIRSTPICK	1.5	qt/a	65%OPEN	A	82.5 cd	0 a	95 a
	FOLEX	6	oz/a	65%OPEN	A			
3	FIRSTPICK	2	qt/a	65%OPEN	A	85.3 cd	0 a	95.3 a
	FOLEX	6	oz/a	65%OPEN	A			
4	FINISH 6 PRO	1.3	pt/a	65%OPEN	A	79.5 d	0 a	92.5 a
	FOLEX	6	oz/a	65%OPEN	A			
5	SUPERBOLL	1.5	pt/a	65%OPEN	A	80 d	0 a	91.5 a
	FOLEX	6	oz/a	65%OPEN	A			
6	FIRSTPICK	1.5	qt/a	65%OPEN	A	95.8 ab	0 a	95.5 a
	GINSTAR	3	oz/a	65%OPEN	A			
7	FINISH 6 PRO	1.3	pt/a	65%OPEN	A	96.5 ab	0 a	96.5 a
	GINSTAR	6	oz/a	65%OPEN	A			
8	FIRSTPICK	1.5	qt/a	65%OPEN	A	79.5 d	0 a	92.8 a
	AIM	0.5	oz/a	65%OPEN	A			
	INDUCE	0.25	% v/v	65%OPEN	A			
9	FIRSTPICK	2	qt/a	65%OPEN	A	90 bc	0 a	96 a
	AIM	0.5	oz/a	65%OPEN	A			
	INDUCE	0.25	% v/v	65%OPEN	A			
10	FIRSTPICK	0.4	qt/a	65%OPEN	A	99.5 a	0 a	93.5 a
	FREEFALL	0.1	lb ai/a	65%OPEN	A			
	FIRSTPICK	1.6	qt/a	7DAIT	B			
	FOLEX	6	oz/a	7DAIT	B			
LSD (P=.05)						9.32	0	6.4

Means followed by same letter do not significantly differ (P=.05, LSD)



**FirstPick Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Term. Reg. 10/13	Bas. Reg.
1	UNTREATED					0 f	0 d
2	FIRSTPICK	1.5	qt/a	65%OPEN	A	63.8 a	40 ab
	FOLEX	6	oz/a	65%OPEN	A		
3	FIRSTPICK	2	qt/a	65%OPEN	A	41.3 c	47.5 a
	FOLEX	6	oz/a	65%OPEN	A		
4	FINISH 6 PRO	1.3	pt/a	65%OPEN	A	50 bc	42.5 ab
	FOLEX	6	oz/a	65%OPEN	A		
5	SUPERBOLL	1.5	pt/a	65%OPEN	A	57.5 ab	35 b
	FOLEX	6	oz/a	65%OPEN	A		
6	FIRSTPICK	1.5	qt/a	65%OPEN	A	11.3 e	36.3 b
	GINSTAR	3	oz/a	65%OPEN	A		
7	FINISH 6 PRO	1.3	pt/a	65%OPEN	A	10 ef	22.5 c
	GINSTAR	6	oz/a	65%OPEN	A		
8	FIRSTPICK	1.5	qt/a	65%OPEN	A	60 ab	41.3 ab
	AIM	0.5	oz/a	65%OPEN	A		
	INDUCE	0.25	% v/v	65%OPEN	A		
9	FIRSTPICK	2	qt/a	65%OPEN	A	25 d	36.3 b
	AIM	0.5	oz/a	65%OPEN	A		
	INDUCE	0.25	% v/v	65%OPEN	A		
10	FIRSTPICK	0.4	qt/a	65%OPEN	A	0 f	13.8 c
	FREEFALL	0.1	lb ai/a	65%OPEN	A		
	FIRSTPICK	1.6	qt/a	7DAIT	B		
	FOLEX	6	oz/a	7DAIT	B		
LSD (P=.05)						10.56	10.83

Means followed by same letter do not significantly differ (P=.05, LSD)

### FirstPick Defoliation Trial-Irrigated (continued)

Description	Application	
	A	B
Application Date:	9/22/2005	9/29/2005
Time of Day:	1:00 PM	4:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	65%OPEN	7DAIT
Application Placement:	BROADCAST	BROADCAST
Applied By:	OSU	OSU
Air Temperature, Unit:	95 F	72 F
% Relative Humidity:	26	28
Wind Velocity, Unit:	6.6 MPH	5.5 MPH
Wind Direction:	S	NNE
Soil Temperature, Unit:	90 F	77 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	0	40
Appl. Equipment:	LEESPIDER	LEESPIDER
Operating Pressure:	58	58
Pressure Unit:	PSI	PSI
Nozzle Type:	FLATFAN	FLATFAN
Nozzle Size:	8002	8002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume:	15	15
Volume Unit:	GPA	GPA
Propellant:	COMP.AIR	COMP.AIR

### ET Defoliation Trial-Irrigated

**Planted:** May 5th

**Variety:** ST 4575 BR

**Soil Type:** Clay loam

**Location:** OSU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.		Desicc. 10/6		Open	
1	UNTREATED					0	c	0	b	79	e
2	ET	1.5	oz/a	70%OPEN	A	87.3	a	0	b	92.3	ab
	ETHEPHON	1	qt/a	70%OPEN	A						
	CROP OIL	0.25	% v/v	70%OPEN	A						
3	ET	1.5	oz/a	70%OPEN	A	88.3	a	0	b	93	ab
	ETHEPHON	1	qt/a	70%OPEN	A						
	CROP OIL	1	% v/v	70%OPEN	A						
4	ET	1.5	oz/a	70%OPEN	A	79.5	b	0	b	85.3	d
	ETHEPHON	1	qt/a	70%OPEN	A						
	INDUCE	1	% v/v	70%OPEN	A						
5	ET	2	oz/a	70%OPEN	A	87.5	a	0	b	93	ab
	ETHEPHON	1	qt/a	70%OPEN	A						
	CROP OIL	1	% v/v	70%OPEN	A						
6	ET	2	oz/a	70%OPEN	A	88.3	a	0	b	94	a
	ETHEPHON	1	qt/a	70%OPEN	A						
	CROP OIL	0.25	% v/v	70%OPEN	A						
7	ET	1.25	oz/a	70%OPEN	A	80	b	0	b	89.8	bc
	GRAMOXONE MAX	3	oz/a	70%OPEN	A						
	ETHEPHON	1.5	pt/a	70%OPEN	A						
	INDUCE	1	% v/v	70%OPEN	A						
8	ET	1.25	% v/v	70%OPEN	A	83.3	ab	12.5	a	86	d
	GRAMOXONE MAX	3	oz/a	70%OPEN	A						
	INDUCE	1	% v/v	70%OPEN	A						
9	ET	1.5	oz/a	70%OPEN	A	88	a	1.3	b	87	cd
	CROP OIL	1	% v/v	70%OPEN	A						
	ET	1.5	oz/a	7DAIT	B						
	CROP OIL	1	% v/v	7DAIT	B						
10	ETHEPHON	1	qt/a	70%OPEN	A						
	DEF	1	pt/a	70%OPEN	A						
	INDUCE	1	% v/v	70%OPEN	A						
LSD (P=.05)						5.17		1.79		3.7	

Means followed by same letter do not significantly differ (P=.05, LSD)

**ET Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 10/13	Open
1	UNTREATED					0 d	0 b	83.5 d
2	ET	1.5	oz/a	70%OPEN	A	90 a	0 b	93.8 a
	ETHEPHON	1	qt/a	70%OPEN	A			
	CROP OIL	0.25	% v/v	70%OPEN	A			
3	ET	1.5	oz/a	70%OPEN	A	92.5 a	0 b	95 a
	ETHEPHON	1	qt/a	70%OPEN	A			
	CROP OIL	1	% v/v	70%OPEN	A			
4	ET	1.5	oz/a	70%OPEN	A	81.3 c	0 b	93.8 a
	ETHEPHON	1	qt/a	70%OPEN	A			
	INDUCE	1	% v/v	70%OPEN	A			
5	ET	2	oz/a	70%OPEN	A	92.5 a	0 b	95.8 a
	ETHEPHON	1	qt/a	70%OPEN	A			
	CROP OIL	1	% v/v	70%OPEN	A			
6	ET	2	oz/a	70%OPEN	A	92.5 a	0 b	92.5 abc
	ETHEPHON	1	qt/a	70%OPEN	A			
	CROP OIL	0.25	% v/v	70%OPEN	A			
7	ET	1.25	oz/a	70%OPEN	A	83.8 bc	0 b	93.5 ab
	GRAMOXONE MAX	3	oz/a	70%OPEN	A			
	ETHEPHON	1.5	pt/a	70%OPEN	A			
	INDUCE	1	% v/v	70%OPEN	A			
8	ET	1.25	% v/v	70%OPEN	A	78.8 c	20 a	88.5 bcd
	GRAMOXONE MAX	3	oz/a	70%OPEN	A			
	INDUCE	1	% v/v	70%OPEN	A			
9	ET	1.5	oz/a	70%OPEN	A	88.8 ab	0 b	87.8 cd
	CROP OIL	1	% v/v	70%OPEN	A			
	ET	1.5	oz/a	7DAIT	B			
	CROP OIL	1	% v/v	7DAIT	B			
10	ETHEPHON	1	qt/a	70%OPEN	A			
	DEF	1	pt/a	70%OPEN	A			
	INDUCE	1	% v/v	70%OPEN	A			

LSD (P=.05)

5.11

0

5.14

Means followed by same letter do not significantly differ (P=.05, LSD)

**ET Defoliation Trial-Irrigated (continued)**

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	TermReg. 10/20	BasReg.
1	UNTREATED					0 f	0 e
2	ET	1.5	oz/a	70%OPEN	A	12.5 c	35 ab
	ETHEPHON	1	qt/a	70%OPEN	A		
	CROP OIL	0.25	% v/v	70%OPEN	A		
3	ET	1.5	oz/a	70%OPEN	A	8 de	27.5 bc
	ETHEPHON	1	qt/a	70%OPEN	A		
	CROP OIL	1	% v/v	70%OPEN	A		
4	ET	1.5	oz/a	70%OPEN	A	20 b	35 ab
	ETHEPHON	1	qt/a	70%OPEN	A		
	INDUCE	1	% v/v	70%OPEN	A		
5	ET	2	oz/a	70%OPEN	A	11.3 cd	32.5 b
	ETHEPHON	1	qt/a	70%OPEN	A		
	CROP OIL	1	% v/v	70%OPEN	A		
6	ET	2	oz/a	70%OPEN	A	10 cd	32.5 b
	ETHEPHON	1	qt/a	70%OPEN	A		
	CROP OIL	0.25	% v/v	70%OPEN	A		
7	ET	1.25	oz/a	70%OPEN	A	26.3 a	41.3 a
	GRAMOXONE MAX	3	oz/a	70%OPEN	A		
	ETHEPHON	1.5	pt/a	70%OPEN	A		
	INDUCE	1	% v/v	70%OPEN	A		
8	ET	1.25	% v/v	70%OPEN	A	0 f	23.8 c
	GRAMOXONE MAX	3	oz/a	70%OPEN	A		
	INDUCE	1	% v/v	70%OPEN	A		
9	ET	1.5	oz/a	70%OPEN	A	6.3 e	12.5 d
	CROP OIL	1	% v/v	70%OPEN	A		
	ET	1.5	oz/a	7DAIT	B		
	CROP OIL	1	% v/v	7DAIT	B		
10	ETHEPHON	1	qt/a	70%OPEN	A		
	DEF	1	pt/a	70%OPEN	A		
	INDUCE	1	% v/v	70%OPEN	A		

LSD (P=.05)

3.53

7.87

Means followed by same letter do not significantly differ (P=.05, LSD)

### ET Defoliation Trial-Irrigated (continued)

	Application Description	
	A	B
Application Date:	9/29/2005	10/18/2005
Time of Day:	11:30 AM	4:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	70%OPEN	19DAIT
Application Placement:	BROADCAST	BROADCAST
Applied By:	OSU	OSU
Air Temperature, Unit:	68 F	86 F
% Relative Humidity:	44	30
Wind Velocity, Unit:	4.5 MPH	7 MPH
Wind Direction:	NNE	SW
Soil Temperature, Unit:	77 F	80 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	40	0
Appl. Equipment:	LEESPIDER	LEESPIDER
Operating Pressure:	58	58
Pressure Unit:	PSI	PSI
Nozzle Type:	FLATFAN	FLATFAN
Nozzle Size:	8002	8002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume:	15	15
Volume Unit:	GPA	GPA
Propellant:	COMP.AIR	COMP.AIR

**Dryland Defoliation Trial**

**Planted:** May 10th    **Variety:** PM 2280 BR    **Soil Type:** Sandy loam    **Location:** OSU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol. 10/25/2005	Desicc.	Open	Defol. 11/20/2005	Desicc.
1	UNTREATED					0 e	0 d	43.5 a	82.5 a	11.3 d
2	GRAMOXONE INTEON INDUCE	8 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	22.5 c	47.5 b	42.5 a	62.5 b	30 c
3	GRAMOXONE INTEON INDUCE	16 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	10 d	87.5 a	50.5 a	40 c	50 b
4	GRAMOXONE INTEON INDUCE	24 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	8.8 d	91.3 a	50.5 a	35 cd	65 a
5	GRAMOXONE INTEON INDUCE	32 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	8.8 d	91.3 a	47.5 a	30 d	70 a
6	AIM INDUCE	1 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	40 ab	23.8 c	48 a	82.5 a	12.5 d
7	AIM INDUCE	1 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	32.5 b	17.5 c	49 a	85 a	10 d
8	AIM INDUCE	1.5 0.25	oz/a % v/v	80%OPEN 80%OPEN	A A	42.5 a	22.5 c	47.5 a	81.3 a	13.8 d
9	BLIZZARD CROP OIL	0.5 1	oz/a % v/v	80%OPEN 80%OPEN	A A	42.5 a	25 c	49.5 a	86.3 a	10 d
10	BLIZZARD CROP OIL	0.75 1	oz/a % v/v	80%OPEN 80%OPEN	A A	40 ab	22.5 c	45.5 a	82.5 a	12.5 d
LSD (P=.05)						8.42	13.2	8.73	8.67	12.74

Means followed by same letter do not significantly differ (P=.05, LSD)

## Dryland Defoliation Trial (continued)

### Application Description

**A**

<b>Application Date:</b>	10/18/2005
<b>Time of Day:</b>	2:30 PM
<b>Application Method:</b>	Spray
<b>Application Timing:</b>	50%OPEN
<b>Application Placement:</b>	Broadcast
<b>Applied By:</b>	OSU
<b>Air Temperature, Unit:</b>	88 F
<b>% Relative Humidity:</b>	30
<b>Wind Velocity, Unit:</b>	8 MPH
<b>Wind Direction:</b>	SW
<b>Soil Temperature, Unit:</b>	79 F
<b>Soil Moisture:</b>	ADEQUATE
<b>% Cloud Cover:</b>	0
<b>Appl. Equipment:</b>	LEESPIDER
<b>Operating Pressure:</b>	57
<b>Pressure Unit:</b>	PSI
<b>Nozzle Type:</b>	TEEJET
<b>Nozzle Size:</b>	8002
<b>Nozzle Spacing, Unit:</b>	20 IN
<b>Nozzles/Row:</b>	2
<b>Ground Speed, Unit:</b>	4 MPH
<b>Carrier:</b>	WATER
<b>Spray Volume:</b>	15
<b>Volume Unit:</b>	GPA
<b>Propellant:</b>	COMP.AIR



**Tillman County Dryland Defoliation Demonstration**

**Planted:** May 20th     **Variety:** ST 4892 BR     **Soil Type:** Clay loam     **Location:** Schrader Farm

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	Defol.	Desicc. 9/29/2005	Open	Defol. 10/6/2005	Desicc. 10/6/2005	Open
1	FINISH 6 PRO	1.3	pt/a	60-70%OPEN	A	95	0	94	100	0	100
	GINSTAR	5	oz/a	60-70%OPEN	A						
	INDUCE	0.25	% v/v	60-70%OPEN	A						
2	FINISH 6 PRO	1.3	pt/a	60-70%OPEN	A	85	0	100	92	0	100
	DEF	1	pt/a	60-70%OPEN	A						
	INDUCE	0.25	% v/v	60-70%OPEN	A						
3	PREP	1.3	pt/a	60-70%OPEN	A	80	0	98	90	0	100
	DEF	1	pt/a	60-70%OPEN	A						
	INDUCE	0.25	% v/v	60-70%OPEN	A						
4	COTTON QUIK	3	pt/a	60-70%OPEN	A	98	5	98	100	0	100
	GINSTAR	3	oz/a	60-70%OPEN	A						
	INDUCE	0.25	% v/v	60-70%OPEN	A						
5	GRAMAXONE MAX	6	oz/a	60-70%OPEN	A	65	5	88	80	0	90
	INDUCE	0.25	% v/v	60-70%OPEN	A						
6	ET	2	oz/a	60-70%OPEN	A	55	10	88	80	0	90

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	TermReg. 10/13/2005	BasReg.	TermReg. 10/19/2005	BasReg.
1	FINISH 6 PRO	1.3	pt/a	60-70%OPEN	A	0	20	5	40
	GINSTAR	5	oz/a	60-70%OPEN	A				
	INDUCE	0.25	% v/v	60-70%OPEN	A				
2	FINISH 6 PRO	1.3	pt/a	60-70%OPEN	A	50	45	80	100
	DEF	1	pt/a	60-70%OPEN	A				
	INDUCE	0.25	% v/v	60-70%OPEN	A				
3	PREP	1.3	pt/a	60-70%OPEN	A	50	40	80	100
	DEF	1	pt/a	60-70%OPEN	A				
	INDUCE	0.25	% v/v	60-70%OPEN	A				
4	COTTON QUIK	3	pt/a	60-70%OPEN	A	0	50	10	85
	GINSTAR	3	oz/a	60-70%OPEN	A				
	INDUCE	0.25	% v/v	60-70%OPEN	A				
5	GRAMAXONE MAX	6	oz/a	60-70%OPEN	A	50	70	80	100
	INDUCE	0.25	% v/v	60-70%OPEN	A				
6	ET	2	oz/a	60-70%OPEN	A	30	70	80	100
	INDUCE	0.25	% v/v	60-70%OPEN	A				

**Tillman County Dryland Defoliation Demonstration (continued)**

**Application Description**

**A**

<b>Application Date:</b>	9/21/2005
<b>Time of Day:</b>	2:00 PM
<b>Application Method:</b>	SPRAY
<b>Application Timing:</b>	75%OPEN
<b>Application Placement:</b>	BROADCAST
<b>Applied By:</b>	OSU
<b>Air Temperature, Unit:</b>	92 F
<b>% Relative Humidity:</b>	32
<b>Wind Velocity, Unit:</b>	7 MPH
<b>Wind Direction:</b>	SSE
<b>Soil Temperature, Unit:</b>	88 F
<b>Soil Moisture:</b>	GOOD
<b>% Cloud Cover:</b>	5
<b>Appl. Equipment:</b>	LEESPIDER
<b>Operating Pressure:</b>	58
<b>Pressure Unit:</b>	PSI
<b>Nozzle Type:</b>	FLATFAN
<b>Nozzle Size:</b>	8002
<b>Nozzle Spacing, Unit:</b>	20 IN
<b>Nozzles/Row:</b>	2
<b>Ground Speed, Unit:</b>	4 MPH
<b>Carrier:</b>	WATER
<b>Spray Volume:</b>	15
<b>Volume Unit:</b>	GPA
<b>Propellant:</b>	COMP.AIR