

2009 Annual Weed Research Report



Texas AgriLife Research Lubbock

December 4, 2009

Dear Cooperator,

This report contains results from the weed research and cotton harvest aid projects of the Texas AgriLife Research and Extension Center at Lubbock for 2009. Off-station tests were conducted at AG-CARES in Lamesa, Texas AgriLife Research at Halfway, the Helms Farm, and on-farm sites. These studies were conducted by Wayne Keeling, Peter Dotray, Lyndell Gilbert, Jacob Reed, Michael Petty, AJ Bloodworth, Brent Brown, Will Keeling, and Calvin Smijstrla. Rainfall for Lubbock, Lamesa, and Halfway in 2009 is included on separate pages.

We certainly appreciate the support and cooperation of each agricultural chemical company whose products were evaluated this year. We hope these data are of mutual benefit and we look forward to continued cooperative research in 2010.



Wayne Keeling
Professor



Peter Dotray
Professor

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2009 Rainfall Reports

Lubbock

January		June		September	
28	0.04	1	0.05	4	0.23
total	0.04	2	0.03	8	1.07
YTD	0.04	4	0.26	11	0.05
		10	0.33	13	0.02
February		13	0.02	22	0.17
8	0.68	15	0.02	total	1.54
total	0.68	18	0.04	YTD	8.45
YTD	0.72	19	0.02		
		20	0.63	October	
March		27	0.11	4	0.17
10	0.05	28	0.64	12	0.05
13	0.20	29	0.08	29	0.16
27	0.01	30	0.33	30	0.16
total	0.26	total	2.56	total	0.54
YTD	0.98	YTD	5.11	YTD	8.99
April		July		November	
2	0.02	5	0.42	total	0.00
11	0.29	18	0.08	YTD	8.99
12	0.02	20	0.04		
16	0.68	22	0.55		
total	1.01	27	0.04		
YTD	1.99	29	0.40		
		30	0.02		
May		31	0.10		
2	0.02	total	1.65		
11	0.19	YTD	6.76		
16	0.12				
23	0.18	August			
31	0.05	1	0.13		
total	0.56	15	0.02		
YTD	2.55	total	0.15		
		YTD	6.91		

Halfway

January	
total	0.00
YTD	0.00

February	
8	0.76
total	0.76
YTD	0.76

March	
total	0.00
YTD	0.76

April	
2	0.39
11	0.70
16	1.07
28	0.14
total	2.30
YTD	3.06

May	
24	1.00
25	0.28
26	0.31
28	0.06
total	1.65
YTD	4.71

June	
1	0.39
4	0.55
10	1.02
14	0.30
18	0.35
20	3.60
29	0.47
total	6.68
YTD	11.39

July	
5	0.55
6	0.66
16	0.11
17	0.06
20	0.23
22	0.26
26	0.17
29	0.37
30	0.19
total	2.60
YTD	13.99

August	
1	0.10
14	0.41
total	0.51
YTD	14.50

September	
3	0.43
12	0.27
13	0.08
22	0.23
total	1.01
YTD	15.51

October	
8	0.40
9	0.06
21	0.71
22	0.15
total	1.32
YTD	16.83

November	
total	0.00
YTD	

16.83

Lamesa

January		June		August	
total	0.00	10	1.24	12	0.01
YTD	0.00	13	0.03	14	0.15
		14	0.02	15	0.10
February		15	0.07	20	0.07
8	0.50	19	0.29	27	0.17
total	0.50	20	1.89	total	0.50
YTD	0.50	26	0.03	YTD	14.04
		27	0.01		
March		28	0.07	September	
total	0.00	29	0.21	8	0.28
YTD	0.50	30	2.36	9	0.62
		total	6.22	11	0.01
April		YTD	8.60	total	0.91
17	0.50			YTD	14.95
total	0.50	July			
YTD	1.00	4	0.91	October	
		5	0.85	3	0.07
May		17	0.61	7	0.05
2	0.20	18	0.07	8	0.06
14	0.50	20	0.24	11	0.04
15	0.35	22	1.64	12	0.02
26	0.10	23	0.09	21	0.48
27	0.10	27	0.01	22	0.01
28	0.13	29	0.16	28	0.06
total	1.38	30	0.10	29	0.09
YTD	2.38	31	0.26	total	0.88
		total	4.94	YTD	15.83
		YTD	13.54		
				November	
				15	0.02
				total	0.02
				YTD	

15.85

On-Station Trials

Texas Agricultural Experiment Station

PREPLANT BURNDOWN - WINFIELD SOLUTIONS

Trial ID: 101L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code	KOCHIA	RUS THIS	KOCHIA	RUS THIS	KOCHIA	RUS THIS
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/01/09	May/01/09	May/08/09	May/08/09	May/15/09	May/15/09

Trt No.	Treatment Name	Rate	Unit	Appl Code						
1	UNTREATED				0.0 d	0.0 f	0.0 d	0.0 e	0.0 d	0.0 d
2	ROUNDUP POWERMAX	22	oz/a	A	81.7 ab	68.3 bc	95.7 a	93.0 a	95.7 a	96.7 a
3	CLASS ACT NG	2.5	% v/v	A	91.7 a	90.0 a	99.0 a	100.0 a	99.0 a	100.0 a
	ROUNDUP POWERMAX	22	oz/a	A						
4	ROUNDUP POWERMAX	22	oz/a	A	61.7 c	46.7 e	80.0 c	50.0 d	85.0 c	56.7 c
	AGM 06018	3	pt/a	A						
5	CLASS ACT NG	1.25	% v/v	A	61.7 c	50.0 de	85.0 bc	66.7 c	86.7 bc	72.3 b
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	3	pt/a	A						
6	CLASS ACT NG	2.5	% v/v	A	81.7 ab	83.3 ab	94.3 a	95.7 a	96.3 a	97.7 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	3	pt/a	A						
7	CLASS ACT NG	3.5	% v/v	A	86.7 a	78.3 abc	96.3 a	94.7 a	96.0 a	96.7 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	3	pt/a	A						
8	CLASS ACT NG	5	% v/v	A	85.0 ab	81.7 ab	95.0 a	99.3 a	86.7 bc	99.0 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	3	pt/a	A						
9	ROUNDUP POWERMAX	22	oz/a	A	71.7 bc	63.3 cd	88.3 b	78.3 b	93.3 ab	95.0 a
	AGM 06018	1.5	pt/a	A						
10	CLASS ACT NG	1.25	% v/v	A	78.3 ab	80.0 ab	94.3 a	98.3 a	92.3 abc	98.3 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	1.5	pt/a	A						
11	CLASS ACT NG	2	% v/v	A	85.0 ab	80.0 ab	96.7 a	98.3 a	93.0 abc	99.7 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	1.5	pt/a	A						
12	CLASS ACT NG	2.5	% v/v	A	86.7 a	83.3 ab	96.0 a	98.0 a	92.7 abc	98.7 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	1.5	pt/a	A						
13	CLASS ACT NG	3.5	% v/v	A	85.0 ab	78.3 abc	95.7 a	93.7 a	94.7 ab	92.0 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	1.5	pt/a	A						
14	CLASS ACT NG	2.5	% v/v	A	85.0 ab	86.7 a	97.3 a	100.0 a	97.0 a	98.3 a
	ROUNDUP POWERMAX	22	oz/a	A						
	AGM 06018	1.5	pt/a	A						
	INTERLOC	4	oz/a	A						
LSD (P=.05)					12.58	14.52	5.06	9.39	7.33	12.41
Standard Deviation					7.49	8.65	3.01	5.59	4.36	7.39
CV					10.07	12.49	3.48	6.72	5.06	8.62
Bartlett's X2					11.811	7.96	9.704	12.436	10.057	34.036
P(Bartlett's X2)					0.461	0.633	0.375	0.257	0.525	0.001*
Replicate F					0.806	0.024	0.514	2.906	0.264	3.532
Replicate Prob(F)					0.4575	0.9765	0.6040	0.0726	0.7702	0.0440
Treatment F					28.927	22.789	214.997	76.086	99.933	41.994
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

PREPLANT BURNDOWN - WINFIELD SOLUTIONS

Trial ID: 101L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	RUSSIAN THISTLE	SALSOLA IBERICA
	KOCHIA	KOCHIA SCOPARIA

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: Apr/24/09
Time of Day: 3:00 PM
Application Method: SPRAY
Application Timing: PPBD
Applic. Placement: BROADCAST
Air Temp., Unit: 92 F
% Relative Humidity: 19
Wind Velocity, Unit: 5 MPH
Soil Temp., Unit: 81 F
Soil Moisture: ADEQUATE
% Cloud Cover: 5

WEED STAGE AT EACH APPLICATION

A
KOCHIA
Stage Scale: 3"
RSN THST
Stage Scale: 3"

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

SHARPEN - ADJUVANTS

Trial ID: 104L-09
Location: 101

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code	KOCHIA	KOCHIA	KOCHIA
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	May/04/09	May/11/09	May/18/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description			
1	UNTREATED					0.0 g	0.0 f	0.0 d
2	SHARPEN	0.5	oz/a	A	3-6" WEEDS	95.3 a	97.3 a	94.0 a
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	PX40802	0.5	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
3	SHARPEN	0.5	oz/a	A	3-6" WEEDS	94.7 ab	94.7 abc	89.3 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	PERSIST ULTRA	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
4	SHARPEN	0.5	oz/a	A	3-6" WEEDS	89.3 a-d	92.3 a-d	87.7 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	SUPERB	0.5	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
5	SHARPEN	0.5	oz/a	A	3-6" WEEDS	94.7 ab	95.3 ab	90.7 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	DESTINY HC	0.75	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
6	SHARPEN	0.5	oz/a	A	3-6" WEEDS	76.7 ef	85.3 b-e	75.0 c
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	CORNBELT PREMIUM COC	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
7	SHARPEN	0.5	oz/a	A	3-6" WEEDS	95.7 a	95.0 ab	91.7 ab
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	CORNBELT SOYSTICK	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
8	SHARPEN	0.5	oz/a	A	3-6" WEEDS	76.7 ef	81.7 de	75.0 c
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	LIBERATE	0.25	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
9	SHARPEN	0.5	oz/a	A	3-6" WEEDS	81.7 c-f	83.3 cde	76.7 bc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	LIBERATE	0.5	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
10	SHARPEN	0.5	oz/a	A	3-6" WEEDS	91.0 abc	93.0 a-d	84.3 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	MSO LECI-TECH	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
11	SHARPEN	0.5	oz/a	A	3-6" WEEDS	75.0 f	80.0 e	75.0 c
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	PREMIUM COC	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
12	SHARPEN	0.5	oz/a	A	3-6" WEEDS	85.7 a-f	87.0 a-e	82.3 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	SUCCEED	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
13	SHARPEN	0.5	oz/a	A	3-6" WEEDS	83.3 b-f	86.7 a-e	79.0 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	DIPLOMAT	0.5	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
14	SHARPEN	0.5	oz/a	A	3-6" WEEDS	88.0 a-e	91.0 a-e	87.3 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	SUNDANCE II	1.25	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			
15	SHARPEN	0.5	oz/a	A	3-6" WEEDS	80.0 c-f	85.0 b-e	82.7 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	DLZ	1	% v/v	A	3-6" WEEDS			
	HM 0825	8.5	lb/100 gal	A	3-6" WEEDS			
16	SHARPEN	0.5	oz/a	A	3-6" WEEDS	78.3 def	85.7 b-e	80.0 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	HM 8802A	0.5	% v/v	A	3-6" WEEDS			
	HM 0825	8.5	lb/100 gal	A	3-6" WEEDS			
17	SHARPEN	0.5	oz/a	A	3-6" WEEDS	81.7 c-f	85.0 b-e	80.0 abc
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			
	RIGO COC	1	% v/v	A	3-6" WEEDS			
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			

Texas Agricultural Experiment Station

Weed Code	KOCHIA	KOCHIA	KOCHIA
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	May/04/09	May/11/09	May/18/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description			
18	SHARPEN	0.5	oz/a	A	3-6" WEEDS	90.7	abc	92.0
	GLYPHOSATE	16	oz/a	A	3-6" WEEDS			a-d
	SUPER SPREAD MSO	1	% v/v	A	3-6" WEEDS			85.7
	AMS	8.5	lb/100 gal	A	3-6" WEEDS			abc
LSD (P=.05)						9.98		9.73
Standard Deviation						5.98		5.83
CV						7.39		6.95
Bartlett's X2						11.176		9.656
P(Bartlett's X2)						0.74		0.884
Replicate F						2.254		2.008
Replicate Prob(F)						0.1205		0.1499
Treatment F						38.331		40.983
Treatment Prob(F)						0.0001		0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SHARPEN - ADJUVANTS

Trial ID: 104L-09
Location: 101

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
Kochia KOCHIA SCOPARIA

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: Apr/27/09
Time of Day: 10:00 AM
Application Method: SPRAY
Application Timing: PPBD
Applic. Placement: BROADCAST
Air Temp., Unit: 56 F
% Relative Humidity: 51
Wind Velocity, Unit: 6 MPH
Soil Temp., Unit: 63 F
Soil Moisture: ADEQUATE
% Cloud Cover: 85

WEED STAGE AT EACH APPLICATION

A
Kochia
Stage Scale: 3"

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - BURNDOWN

Trial ID: 109L-09
Location: GLOVER

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

Kochia RSN THST	Kochia RSN THST
CONTROL PERCENT May/08/09	CONTROL PERCENT May/19/09

Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Appl Description				
1	UNTREATED								0.0 c	0.0 c	0.0 c	0.0 c
2	SHARPEN	0.0223	lb ai/a	1 oz/a		EARPRE A		10 - 14 DBP	100.0 a	100.0 a	98.5 a	100.0 a
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
3	SHARPEN	0.0223	lb ai/a	1 oz/a		EARPRE A		10 - 14 DBP	98.5 a	100.0 a	100.0 a	100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75 lb ae/a		EARPRE A		10 - 14 DBP				
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
4	SHARPEN	0.067	lb ai/a	3 oz/a		EARPRE A		10 - 14 DBP	100.0 a	100.0 a	100.0 a	100.0 a
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
5	SHARPEN	0.067	lb ai/a	3 oz/a		EARPRE A		10 - 14 DBP	99.8 a	100.0 a	100.0 a	100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75 lb ae/a		EARPRE A		10 - 14 DBP				
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
6	INTEGRITY	0.65	lb ai/a	15 oz/a		EARPRE A		10 - 14 DBP	100.0 a	100.0 a	100.0 a	100.0 a
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
7	INTEGRITY	0.65	lb ai/a	15 oz/a		EARPRE A		10 - 14 DBP	100.0 a	100.0 a	100.0 a	100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75 lb ae/a		EARPRE A		10 - 14 DBP				
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
8	INTEGRITY	0.78	lb ai/a	18 oz/a		EARPRE A		10 - 14 DBP	100.0 a	100.0 a	100.0 a	100.0 a
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
9	INTEGRITY	0.78	lb ai/a	18 oz/a		EARPRE A		10 - 14 DBP	100.0 a	100.0 a	100.0 a	100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75 lb ae/a		EARPRE A		10 - 14 DBP				
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
10	ROUNDUP POWERMAX	0.75	lb ae/a	0.75 lb ae/a		EARPRE A		10 - 14 DBP	88.8 b	95.0 b	96.3 b	97.3 b
	COC		1 % v/v	1 % v/v		EARPRE A		10 - 14 DBP				
	AMS04	17	lb/100 gal	17 lb/100 gal		EARPRE A		10 - 14 DBP				
LSD (P=.05)									2.24	1.87	2.24	2.23
Standard Deviation									1.54	1.29	1.54	1.54
CV									1.74	1.44	1.72	1.71
Bartlett's X2									16.107	0.0	0.956	0.0
P(Bartlett's X2)									0.001*	.	0.328	.
Replicate F									0.868	1.000	1.078	1.000
Replicate Prob(F)									0.4698	0.4079	0.3750	0.4079
Treatment F									1652.002	2379.333	1668.399	1687.031
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code		Kochia		RSN THST		PIGWEED		SORGHUM	
Crop Code		CONTROL		CONTROL		CONTROL		INJURY	
Rating Data Type		PERCENT		PERCENT		PERCENT		PERCENT	
Rating Unit		May/29/09		May/29/09		May/29/09		Jun/01/09	
Rating Date									
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Appl Description	
1	UNTREATED								
2	SHARPEN	0.0223	lb ai/a	1	oz/a	EARPRE A	10 - 14	DBP	0.0 c
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	98.5 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	100.0 a
3	SHARPEN	0.0223	lb ai/a	1	oz/a	EARPRE A	10 - 14	DBP	100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A	10 - 14	DBP	100.0 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	100.0 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	100.0 a
4	SHARPEN	0.067	lb ai/a	3	oz/a	EARPRE A	10 - 14	DBP	100.0 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	100.0 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	100.0 a
5	SHARPEN	0.067	lb ai/a	3	oz/a	EARPRE A	10 - 14	DBP	99.3 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A	10 - 14	DBP	99.8 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	40.0 b
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	40.0 b
6	INTEGRITY	0.65	lb ai/a	15	oz/a	EARPRE A	10 - 14	DBP	100.0 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	100.0 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	100.0 a
7	INTEGRITY	0.65	lb ai/a	15	oz/a	EARPRE A	10 - 14	DBP	99.8 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A	10 - 14	DBP	100.0 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	83.8 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	83.8 a
8	INTEGRITY	0.78	lb ai/a	18	oz/a	EARPRE A	10 - 14	DBP	100.0 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	100.0 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	100.0 a
9	INTEGRITY	0.78	lb ai/a	18	oz/a	EARPRE A	10 - 14	DBP	100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A	10 - 14	DBP	100.0 a
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	100.0 a
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	100.0 a
10	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A	10 - 14	DBP	94.0 b
	COC	1	% v/v	1	% v/v	EARPRE A	10 - 14	DBP	95.5 b
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A	10 - 14	DBP	0.0 c
LSD (P=.05)									0.00
Standard Deviation									2.21
CV									2.27
Bartlett's X2									11.46
P(Bartlett's X2)									26.66
Replicate F									0.0
Replicate Prob(F)									0.0
Treatment F									14.478
Treatment Prob(F)									0.002*
Replicate F									0.001*
Replicate Prob(F)									0.004*
Treatment F									0.000
Treatment Prob(F)									0.000

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED
SORHGUM
INJURY CONTROL
PERCENT PERCENT
Jun/12/09 Jun/12/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Appl Description		
1	UNTREATED								0.0 a	0.0 d
2	SHARPEN	0.0223	lb ai/a	1	oz/a	EARPRE A		10 - 14 DBP	0.0 a	5.0 d
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
3	SHARPEN	0.0223	lb ai/a	1	oz/a	EARPRE A		10 - 14 DBP	0.0 a	5.0 d
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A		10 - 14 DBP		
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
4	SHARPEN	0.067	lb ai/a	3	oz/a	EARPRE A		10 - 14 DBP	0.0 a	18.8 c
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
5	SHARPEN	0.067	lb ai/a	3	oz/a	EARPRE A		10 - 14 DBP	0.0 a	25.0 c
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A		10 - 14 DBP		
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
6	INTEGRITY	0.65	lb ai/a	15	oz/a	EARPRE A		10 - 14 DBP	0.0 a	52.5 b
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
7	INTEGRITY	0.65	lb ai/a	15	oz/a	EARPRE A		10 - 14 DBP	0.0 a	61.3 b
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A		10 - 14 DBP		
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
8	INTEGRITY	0.78	lb ai/a	18	oz/a	EARPRE A		10 - 14 DBP	0.0 a	71.3 a
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
9	INTEGRITY	0.78	lb ai/a	18	oz/a	EARPRE A		10 - 14 DBP	0.0 a	73.8 a
	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A		10 - 14 DBP		
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
10	ROUNDUP POWERMAX	0.75	lb ae/a	0.75	lb ae/a	EARPRE A		10 - 14 DBP	0.0 a	0.0 d
	COC	1	% v/v	1	% v/v	EARPRE A		10 - 14 DBP		
	AMS04	17	lb/100 gal	17	lb/100 gal	EARPRE A		10 - 14 DBP		
LSD (P=.05)									0.00	9.86
Standard Deviation									0.00	6.80
CV									0.0	21.75
Bartlett's X2									0.0	11.918
P(Bartlett's X2)									.	0.103
Replicate F									0.000	4.707
Replicate Prob(F)									1.0000	0.0091
Treatment F									0.000	79.689
Treatment Prob(F)									1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - BURNDOWN

Trial ID: 109L-09
Location: GLOVER

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	KOCHIA	KOCHIA SCOPARIA
	PIGWEEED	AMARANTHUS PALMERI
	RUSSIAN THISTLE	SALSOA IBERICA

SORGHUM

Variety: PIONEER 85G01

Planting Date: May/15/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
IRRIGATED MARCH 10 AND MAY 15 WITH 3"

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: May/01/09
Time of Day: 10:00 AM
Application Method: SPRAY
Application Timing: PPBD
Applic. Placement: BROADCAST
Air Temp., Unit: 73 F
% Relative Humidity: 65
Wind Velocity, Unit: 6 MPH
Soil Temp., Unit: 70 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

WEED STAGE AT EACH APPLICATION

A
Stage Scale: KOCHIA
3-6"
Stage Scale: RSN THST
3-4"
Stage Scale: PIGWEED
PRE

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - WEED CONTROL - II

Trial ID: 111L-09
Location: STATION

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Weed Code									SORGHUM		PIGWEEED		PIGWEEED		PIGWEEED	
Crop Code									INJURY		INJURY		CONTROL		POPULATION	
Rating Data Type									PERCENT		PERCENT		PERCENT		2ROWSX2M	
Rating Unit									Jun/01/09		Jun/22/09		Jun/22/09		Jul/06/09	
Rating Date									Jun/01/09		Jun/22/09		Jun/22/09		Jul/09/09	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Appl Description								
1	UNTREATED								0.0 a	0.0 a	0.00 c	0.00 c			35.8 a	
2	INTEGRITY	0.65	lb ai/a	15	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
3	INTEGRITY	0.78	lb ai/a	18	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	98.75 a	100.00 a			0.0 c	
4	SHARPEN	0.0557	lb ai/a	2.5	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	96.75 ab	99.25 a			0.5 c	
5	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	95.25 b	87.50 b			5.5 bc	
6	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	94.65 b	89.58 b			11.0 b	
7	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
	ATRAZINE	0.5	lb ai/a	1.0	pt/a	PRE A		AT PLANTING								
8	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
	ATRAZINE	0.5	lb ai/a	1.0	pt/a	PRE A		AT PLANTING								
9	OUTLOOK	0.586	lb ai/a	12.5	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
10	OUTLOOK	0.7	lb ai/a	15.0	oz/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
11	ATRAZINE	0.5	lb ai/a	1.0	pt/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
12	G-MAX LITE	1.56	lb ai/a	2.5	pt/a	PRE A		AT PLANTING	0.0 a	0.0 a	100.00 a	100.00 a			0.0 c	
LSD (P=.05)									0.00	0.00	3.129	2.874			8.22	
Standard Deviation									0.00	0.00	2.167	1.990			5.69	
CV									0.0	0.0	2.4	2.22			129.48	
Bartlett's X2									0.0	0.0	1.1	3.555			25.117	
P(Bartlett's X2)									.	.	0.777	0.169			0.001*	
Replicate F									0.000	0.000	0.987	0.269			0.594	
Replicate Prob(F)									1.0000	1.0000	0.4110	0.8471			0.6234	
Treatment F									0.000	0.000	694.302	825.351			13.444	
Treatment Prob(F)									1.0000	1.0000	0.0001	0.0001			0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code	PIGWEEED
Crop Code	SORGHUM
Rating Data Type	CONTROL YIELD
Rating Unit	PERCENT KG/HA
Rating Date	Aug/04/09 Sep/15/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Appl Description		
1	UNTREATED								0.0 d	2758.0 a
2	INTEGRITY	0.65	lb ai/a	15	oz/a	PRE	A	AT PLANTING	100.0 a	3431.0 a
3	INTEGRITY	0.78	lb ai/a	18	oz/a	PRE	A	AT PLANTING	98.8 a	3458.0 a
4	SHARPEN	0.0557	lb ai/a	2.5	oz/a	PRE	A	AT PLANTING	92.5 b	2247.0 a
5	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	85.8 c	3431.0 a
6	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	85.0 c	2865.8 a
7	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	99.3 a	3229.0 a
	ATRAZINE	0.5	lb ai/a	1.0	pt/a	PRE	A	AT PLANTING		
8	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	100.0 a	3525.0 a
	ATRAZINE	0.5	lb ai/a	1.0	pt/a	PRE	A	AT PLANTING		
9	OUTLOOK	0.586	lb ai/a	12.5	oz/a	PRE	A	AT PLANTING	100.0 a	3888.5 a
10	OUTLOOK	0.7	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	100.0 a	3377.3 a
11	ATRAZINE	0.5	lb ai/a	1.0	pt/a	PRE	A	AT PLANTING	100.0 a	3404.3 a
12	G-MAX LITE	1.56	lb ai/a	2.5	pt/a	PRE	A	AT PLANTING	100.0 a	3269.5 a
LSD (P=.05)									4.35	918.58
Standard Deviation									3.01	636.18
CV									3.41	19.63
Bartlett's X2									8.769	20.609
P(Bartlett's X2)									0.033*	0.038*
Replicate F									0.858	4.334
Replicate Prob(F)									0.4724	0.0111
Treatment F									355.458	1.822
Treatment Prob(F)									0.0001	0.0901

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - WEED CONTROL - II

Trial ID: 111L-09
Location: STATION

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMARANTHUS PALMERI

Planting Date: May/15/09 Variety: PIONEER 85G01

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
IRRIGATED 3" ON
APRIL 14
JUNE 5
JULY 10

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: May/15/09
Time of Day: 7:00 PM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 85 F
% Relative Humidity: 46
Wind Velocity, Unit: 9 MPH
Soil Temp., Unit: 75 F
Soil Moisture: ADEQUATE
% Cloud Cover: 30

WEED STAGE AT EACH APPLICATION

A
Stage Scale: PIGWEED
3-6"

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - TOLERANCE - II

Trial ID: 112L-09
Location: STATION

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Crop Code		PIONEER		DEKALB		PIONEER		DEKALB		PIONEER		DEKALB	
Rating Data Type		INJURY		INJURY		INJURY		INJURY		HEIGHT		HEIGHT	
Rating Unit		PERCENT		PERCENT		PERCENT		PERCENT		CM		CM	
Rating Date		Jun/01/09		Jun/01/09		Jun/09/09		Jun/09/09		Jun/09/09		Jun/09/09	
Trt	Treatment	Rate	Product	Product	Grow	Appl	Appl						
No.	Name	Rate	Unit	Rate	Unit	Stg	Code	Description					
1	UNTREATED								0.0 a	0.0 a	0.0 b	0.0 b	10.25 a 10.75 a
2	INTEGRITY	0.39	lb ai/a	9.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	9.50 a 9.63 ab
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	9.75 a 10.25 ab
4	INTEGRITY	0.65	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	9.75 a 9.88 ab
5	INTEGRITY	0.78	lb ai/a	18.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.5 b	0.0 b	9.25 a 9.13 bc
6	INTEGRITY	1.57	lb ai/a	36.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	1.0 b	0.0 b	9.63 a 9.25 bc
7	SHARPEN	0.04	lb ai/a	1.8	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.5 b	0.0 b	10.50 a 8.38 c
8	SHARPEN	0.058	lb ai/a	2.6	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	1.5 b	0.0 b	10.25 a 9.63 ab
9	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	9.38 a 10.00 ab
10	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.5 b	0.0 b	10.00 a 9.88 ab
11	SHARPEN	0.16	lb ai/a	7.2	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	27.5 a	7.5 a	9.75 a 10.00 ab
12	OUTLOOK	0.7	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	10.25 a 10.25 ab
13	OUTLOOK	1.4	lb ai/a	30.0	oz/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	10.13 a 9.75 ab
14	G-MAX LITE	1.56	lb ai/a	2.5	pt/a	PRE	A	AT PLANTING	0.0 a	0.0 a	0.0 b	0.0 b	10.38 a 10.13 ab
LSD (P=.05)									0.00	0.00	5.78	2.47	1.085 1.035
Standard Deviation									0.00	0.00	4.05	1.73	0.759 0.724
CV									0.0	0.0	179.87	322.03	7.66 7.41
Bartlett's X2									0.0	0.0	46.4	0.0	14.541 8.095
P(Bartlett's X2)									.	.	0.001*	.	0.337 0.837
Replicate F									0.000	0.000	1.063	1.000	0.299 3.892
Replicate Prob(F)									1.0000	1.0000	0.3760	0.4031	0.8256 0.0159
Treatment F									0.000	0.000	12.950	5.400	1.075 2.553
Treatment Prob(F)									1.0000	1.0000	0.0001	0.0001	0.4074 0.0119

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code								PIONEER	DEKALB	PIONEER	DEKALB	PIONEER		
Rating Data Type								POPULATION	POPULATION	INJURY	INJURY	HEIGHT		
Rating Unit								1000/AC	1000/AC	PERCENT	PERCENT	CM		
Rating Date								Jun/09/09	Jun/09/09	Jun/23/09	Jun/23/09	Jun/23/09		
Trt	Treatment	Rate	Product	Product	Grow	Appl	Appl							
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code	Description					
1	UNTREATED													
2	INTEGRITY	0.39	lb ai/a	9.0	oz/a		PRE	A	AT PLANTING	35.0 a	35.8 a	0.0 c	0.0 c	39.8 a
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a		PRE	A	AT PLANTING	37.0 a	36.8 a	0.0 c	0.0 c	38.3 a
4	INTEGRITY	0.65	lb ai/a	15.0	oz/a		PRE	A	AT PLANTING	32.5 a	34.8 a	0.0 c	0.0 c	39.5 a
5	INTEGRITY	0.78	lb ai/a	18.0	oz/a		PRE	A	AT PLANTING	34.8 a	38.0 a	0.0 c	0.0 c	39.3 a
6	INTEGRITY	1.57	lb ai/a	36.0	oz/a		PRE	A	AT PLANTING	34.8 a	33.0 a	0.0 c	0.0 c	39.3 a
7	SHARPEN	0.04	lb ai/a	1.8	oz/a		PRE	A	AT PLANTING	34.8 a	35.0 a	6.3 b	4.3 b	37.8 a
8	SHARPEN	0.058	lb ai/a	2.6	oz/a		PRE	A	AT PLANTING	34.5 a	36.3 a	0.0 c	0.0 c	39.0 a
9	SHARPEN	0.067	lb ai/a	3.0	oz/a		PRE	A	AT PLANTING	33.3 a	35.8 a	1.3 c	0.0 c	38.8 a
10	SHARPEN	0.08	lb ai/a	3.6	oz/a		PRE	A	AT PLANTING	35.0 a	37.5 a	0.0 c	0.0 c	39.8 a
11	SHARPEN	0.16	lb ai/a	7.2	oz/a		PRE	A	AT PLANTING	35.0 a	34.3 a	2.5 c	1.3 bc	38.5 a
12	OUTLOOK	0.7	lb ai/a	15.0	oz/a		PRE	A	AT PLANTING	33.8 a	38.3 a	42.5 a	16.3 a	34.5 a
13	OUTLOOK	1.4	lb ai/a	30.0	oz/a		PRE	A	AT PLANTING	34.5 a	35.3 a	0.0 c	0.0 c	37.0 a
14	G-MAX LITE	1.56	lb ai/a	2.5	pt/a		PRE	A	AT PLANTING	32.0 a	37.0 a	0.0 c	0.0 c	37.0 a
LSD (P=.05)								34.8 a	35.3 a	0.0 c	0.0 c	39.8 a		
Standard Deviation								5.86	7.46	3.06	3.08	3.25		
CV								4.10	5.22	2.14	2.15	2.27		
Bartlett's X2								11.98	14.54	57.06	138.63	5.91		
P(Bartlett's X2)								12.609	19.506	2.6	7.469	22.883		
								0.478	0.108	0.457	0.024*	0.043*		
Replicate F								1.139	0.867	0.650	0.959	0.618		
Replicate Prob(F)								0.3454	0.4662	0.5877	0.4219	0.6077		
Treatment F								0.412	0.324	111.300	16.576	1.679		
Treatment Prob(F)								0.9562	0.9839	0.0001	0.0001	0.1052		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code								DEKALB	PIONEER	DEKALB	PIONEER	DEKALB	PIONEER	
Rating Data Type								HEIGHT	HEAD	HEAD	INJURY	INJURY	HEIGHT	
Rating Unit								CM	PERCENT	PERCENT	PERCENT	PERCENT	CM	
Rating Date								Jun/23/09	Jul/16/09	Jul/16/09	Jul/20/09	Jul/20/09	Jul/20/09	
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl							
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code	Description						
1	UNTREATED							41.5 a	13.8 a	99.0 a	0.0 b	0.0 b	120.0 ab	
2	INTEGRITY	0.39	lb ai/a	9.0	oz/a	PRE	A	AT PLANTING	40.5 abc	12.5 a	76.3 abc	0.0 b	0.0 b	123.0 ab
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a	PRE	A	AT PLANTING	40.8 ab	12.5 a	90.0 ab	0.0 b	0.0 b	120.5 ab
4	INTEGRITY	0.65	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	41.8 a	10.0 a	87.5 ab	0.0 b	0.0 b	121.3 ab
5	INTEGRITY	0.78	lb ai/a	18.0	oz/a	PRE	A	AT PLANTING	39.3 a-d	8.0 a	54.5 abc	0.0 b	0.0 b	123.0 ab
6	INTEGRITY	1.57	lb ai/a	36.0	oz/a	PRE	A	AT PLANTING	38.0 bcd	2.5 a	53.8 abc	0.0 b	0.0 b	118.8 b
7	SHARPEN	0.04	lb ai/a	1.8	oz/a	PRE	A	AT PLANTING	36.5 d	13.8 a	86.3 ab	0.0 b	0.0 b	128.3 a
8	SHARPEN	0.058	lb ai/a	2.6	oz/a	PRE	A	AT PLANTING	38.0 bcd	12.5 a	85.0 ab	0.0 b	0.0 b	123.8 ab
9	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	42.5 a	16.3 a	87.5 ab	0.0 b	0.0 b	123.8 ab
10	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	39.3 a-d	14.3 a	35.0 c	0.0 b	0.0 b	120.5 ab
11	SHARPEN	0.16	lb ai/a	7.2	oz/a	PRE	A	AT PLANTING	37.0 d	1.3 a	34.3 c	42.5 a	18.8 a	81.3 c
12	OUTLOOK	0.7	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	37.3 cd	5.0 a	51.3 bc	0.0 b	0.0 b	125.8 ab
13	OUTLOOK	1.4	lb ai/a	30.0	oz/a	PRE	A	AT PLANTING	37.8 bcd	10.0 a	62.5 abc	0.0 b	0.0 b	121.8 ab
14	G-MAX LITE	1.56	lb ai/a	2.5	pt/a	PRE	A	AT PLANTING	39.3 a-d	11.3 a	90.0 ab	0.0 b	0.0 b	120.5 ab
LSD (P=.05)								2.97	11.94	39.65	3.31	4.23	7.35	
Standard Deviation								2.08	8.35	27.74	2.31	2.96	5.14	
CV								5.3	81.51	39.13	76.24	221.24	4.31	
Bartlett's X2								13.593	30.492	24.391	0.0	0.0	22.646	
P(Bartlett's X2)								0.403	0.004*	0.028*	.	.	0.046*	
Replicate F								1.924	2.323	2.293	1.000	1.000	1.117	
Replicate Prob(F)								0.1417	0.0900	0.0931	0.4031	0.4031	0.3538	
Treatment F								3.399	1.175	2.472	96.333	11.441	19.194	
Treatment Prob(F)								0.0015	0.3327	0.0146	0.0001	0.0001	0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

DEKALB PIONEER DEKALB
HEIGHT YIELD YIELD
CM KG/HA KG/HA
Jul/20/09 Sep/15/09 Sep/15/09

Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl	Appl				
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code	Description				
1	UNTREATED								115.0	ab	3027.5	abc 3794.3 a
2	INTEGRITY	0.39	lb ai/a	9.0	oz/a	PRE	A	AT PLANTING	116.8	ab	2893.0	abc 3323.5 a
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a	PRE	A	AT PLANTING	119.3	a	2960.0	abc 3605.8 a
4	INTEGRITY	0.65	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	118.0	ab	2812.0	abc 3902.3 a
5	INTEGRITY	0.78	lb ai/a	18.0	oz/a	PRE	A	AT PLANTING	108.8	b	3067.8	ab 2825.5 a
6	INTEGRITY	1.57	lb ai/a	36.0	oz/a	PRE	A	AT PLANTING	112.3	ab	2368.0	bc 3512.0 a
7	SHARPEN	0.04	lb ai/a	1.8	oz/a	PRE	A	AT PLANTING	117.8	ab	2058.8	bc 4709.5 a
8	SHARPEN	0.058	lb ai/a	2.6	oz/a	PRE	A	AT PLANTING	112.0	ab	2327.8	bc 4709.3 a
9	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	120.5	a	3094.5	ab 4144.0 a
10	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	114.8	ab	2341.3	bc 3014.0 a
11	SHARPEN	0.16	lb ai/a	7.2	oz/a	PRE	A	AT PLANTING	93.8	c	1803.0	c 3565.5 a
12	OUTLOOK	0.7	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	114.3	ab	3902.0	a 3269.5 a
13	OUTLOOK	1.4	lb ai/a	30.0	oz/a	PRE	A	AT PLANTING	115.5	ab	3014.0	abc 3525.3 a
14	G-MAX LITE	1.56	lb ai/a	2.5	pt/a	PRE	A	AT PLANTING	115.5	ab	2637.3	bc 4009.8 a
LSD (P=.05)									7.98		1063.33	2032.42
Standard Deviation									5.58		744.08	1422.20
CV									4.9		27.19	38.36
Bartlett's X2									6.775		9.819	26.29
P(Bartlett's X2)									0.913		0.709	0.016*
Replicate F									0.466		13.623	3.130
Replicate Prob(F)									0.7076		0.0001	0.0364
Treatment F									5.509		2.022	0.614
Treatment Prob(F)									0.0001		0.0451	0.8277

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - TOLERANCE - II

Trial ID: 112L-09
Location: STATION

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

SORGHUM
Planting Date: May/15/09

Variety: PIONEER 85G01 DEKALB 4420

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
IRRIGATED WITH 3"
APRIL 14
JUNE 15
JULY 10

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A

Application Date: May/15/09
Time of Day: 7:30 PM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 85 F
% Relative Humidity: 46
Wind Velocity, Unit: 9 MPH
Soil Temp., Unit: 75 F
Soil Moisture: ADEQUATE
% Cloud Cover: 30

APPLICATION EQUIPMENT

A

Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

SHARPEN - BURNDOWN - WOOLLYLEAF BURSAGE

Trial ID: 113L-09
Location: GLOVER

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Weed Code
Rating Data Type
Rating Unit
Rating Date

AMBGR	AMBGR	AMBGR	AMBGR
CONTROL	CONTROL	CONTROL	CONTROL
PERCENT	PERCENT	PERCENT	PERCENT
May/13/09	May/20/09	Jun/03/09	Jun/15/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	SHARPEN	0.0223	lb ai/a	1.0	oz/a	PPBD	A	97.7	a	88.3	a
	COC	1.0	% v/v	1.0	% v/v	PPBD	A			46.7	d
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	PPBD	A				8.3
2	SHARPEN	0.0446	lb ai/a	2.0	oz/a	PPBD	A	98.3	a	91.7	a
	COC	1.0	% v/v	1.0	% v/v	PPBD	A			53.3	d
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	PPBD	A				13.3
3	SHARPEN	0.067	lb ai/a	3.0	oz/a	PPBD	A	98.7	a	91.7	a
	COC	1.0	% v/v	1.0	% v/v	PPBD	A			58.3	cd
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	PPBD	A				20.0
4	SHARPEN	0.134	lb ai/a	6.0	oz/a	PPBD	A	99.0	a	98.3	a
	COC	1.0	% v/v	1.0	% v/v	PPBD	A			70.0	bc
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	PPBD	A				26.7
5	CLARITY	0.25	lb ai/a	8	oz/a	PPBD	A	66.7	b	76.7	b
6	2,4-D	1.0	lb ai/a	32	oz/a	PPBD	A	46.7	c	65.0	c
7	ROUNDUP POWERMAX	1.13	lb ae/a	32	oz/a	PPBD	A	50.0	c	65.0	c
LSD (P=.05)								3.98		10.42	
Standard Deviation								2.23		5.86	
CV								2.81		7.11	
Bartlett's X2								10.492		4.93	
P(Bartlett's X2)								0.033*		0.424	
Replicate F								2.948		0.838	
Replicate Prob(F)								0.0909		0.4563	
Treatment F								355.091		16.015	
Treatment Prob(F)								0.0001		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SHARPEN - BURNDOWN - WOOLLYLEAF BURSAGE

Trial ID: 113L-09
Location: GLOVER

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	WOOLLYLEAF BURSAGE	AMBROSIA GRAYI

SITE AND DESIGN

Plot Width, Unit: 6.667 FT Plot Length, Unit: 20 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: May/05/09
Time of Day: 4:00 PM
Application Method: SPRAY
Application Timing: PPBD
Applic. Placement: BROADCAST
Air Temp., Unit: 79 F
% Relative Humidity: 48
Wind Velocity, Unit: 2 MPH
Soil Temp., Unit: 95 F
Soil Moisture: ADEQUATE
% Cloud Cover: 50

WEED STAGE AT EACH APPLICATION

A
AMBGR
Stage Scale: 2-6"

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: C02

Texas Agricultural Experiment Station

SHARPEN - BURNDOWN - FIELD BINDWEED

Trial ID: 122L-09
Location: STATION

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

							BINDWEED CONTROL PERCENT Apr/28/09 A TIMING	BINDWEED CONTROL PERCENT May/07/09 A TIMING	BINDWEED CONTROL PERCENT May/13/09 B TIMING	BINDWEED CONTROL PERCENT May/20/09 A & B	BINDWEED CONTROL PERCENT Jun/03/09 A & B
Trt	Treatment	Rate	Rate	Product	Product	Appl					
No.	Name		Unit	Rate	Rate	Unit					
1	KIXOR	0.0223	lb ai/a	1.0	oz/a	A	PPBD	84.0 a	73.3 c	25.0 g	13.3 g
	COC	1.0	% v/v	1.0	% v/v	A	PPBD				
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
2	KIXOR	0.0446	lb ai/a	2.0	oz/a	A	PPBD	88.0 a	76.7 c	30.0 fg	20.0 g
	COC	1.0	% v/v	1.0	% v/v	A	PPBD				
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
3	KIXOR	0.067	lb ai/a	3.0	oz/a	A	PPBD	92.3 a	80.0 bc	38.3 f	30.0 fg
	COC	1.0	% v/v	1.0	% v/v	A	PPBD				
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
4	KIXOR	0.134	lb ai/a	6.0	oz/a	A	PPBD	94.0 a	90.0 a	41.7 ef	30.0 fg
	COC	1.0	% v/v	1.0	% v/v	A	PPBD				
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
5	CLARITY	0.25	lb ai/a	8	oz/a	A	PPBD	56.7 b	86.7 ab	90.0 a	73.3 bcd
6	2,4-D	1.0	lb ai/a	32	oz/a	A	PPBD	50.0 b	90.0 a	88.3 ab	81.7 abc
7	ROUNDUP POWERMAX	1.13	lb ae/a	32	oz/a	A	PPBD	31.7 c	73.3 c	75.0 cd	71.7 bcd
8	KIXOR	0.0223	lb ai/a	1.0	oz/a	B	PPBD			96.3 a	81.7 abc
	COC	1.0	% v/v	1.0	% v/v	B	PPBD				46.7 ef
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD				
9	KIXOR	0.0446	lb ai/a	2.0	oz/a	B	PPBD			98.0 a	90.0 a
	COC	1.0	% v/v	1.0	% v/v	B	PPBD				60.0 cde
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD				
10	KIXOR	0.067	lb ai/a	3.0	oz/a	B	PPBD			99.0 a	93.3 a
	COC	1.0	% v/v	1.0	% v/v	B	PPBD				43.3 ef
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD				
11	KIXOR	0.134	lb ai/a	6.0	oz/a	B	PPBD			99.0 a	91.7 a
	COC	1.0	% v/v	1.0	% v/v	B	PPBD				61.7 cde
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD				
12	CLARITY	0.25	lb ai/a	8	oz/a	B	PPBD			46.7 b	76.7 bcd
13	2,4-D	1.0	lb ai/a	32	oz/a	B	PPBD			36.7 c	68.3 d
14	ROUNDUP POWERMAX	1.13	lb ae/a	32	oz/a	B	PPBD			28.3 d	51.7 e
LSD (P=.05)							9.74	8.50	5.77	11.30	20.18
Standard Deviation							5.47	4.78	3.24	6.73	12.02
CV							7.72	5.87	4.5	10.0	21.6
Bartlett's X2							5.288	4.776	4.545	12.986	18.717
P(Bartlett's X2)							0.382	0.444	0.208	0.37	0.096
Replicate F							3.243	2.035	1.264	1.354	1.568
Replicate Prob(F)							0.0748	0.1734	0.3175	0.2758	0.2275
Treatment F							60.658	7.235	310.390	40.871	14.303
Treatment Prob(F)							0.0001	0.0019	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date
Crop Stage

BINDWEED
CONTROL
PERCENT
Jun/15/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Appl Code	Appl Description	
1	KIXOR	0.0223	lb ai/a	1.0	oz/a	A	PPBD	10.0 d
	COC	1.0	% v/v	1.0	% v/v	A	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD	
2	KIXOR	0.0446	lb ai/a	2.0	oz/a	A	PPBD	11.7 d
	COC	1.0	% v/v	1.0	% v/v	A	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD	
3	KIXOR	0.067	lb ai/a	3.0	oz/a	A	PPBD	13.3 d
	COC	1.0	% v/v	1.0	% v/v	A	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD	
4	KIXOR	0.134	lb ai/a	6.0	oz/a	A	PPBD	20.0 cd
	COC	1.0	% v/v	1.0	% v/v	A	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD	
5	CLARITY	0.25	lb ai/a	8	oz/a	A	PPBD	60.0 b
6	2,4-D	1.0	lb ai/a	32	oz/a	A	PPBD	66.7 b
7	ROUNDUP POWERMAX	1.13	lb ae/a	32	oz/a	A	PPBD	55.0 b
8	KIXOR	0.0223	lb ai/a	1.0	oz/a	B	PPBD	20.0 cd
	COC	1.0	% v/v	1.0	% v/v	B	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD	
9	KIXOR	0.0446	lb ai/a	2.0	oz/a	B	PPBD	36.7 c
	COC	1.0	% v/v	1.0	% v/v	B	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD	
10	KIXOR	0.067	lb ai/a	3.0	oz/a	B	PPBD	23.3 cd
	COC	1.0	% v/v	1.0	% v/v	B	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD	
11	KIXOR	0.134	lb ai/a	6.0	oz/a	B	PPBD	33.3 c
	COC	1.0	% v/v	1.0	% v/v	B	PPBD	
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	B	PPBD	
12	CLARITY	0.25	lb ai/a	8	oz/a	B	PPBD	92.3 a
13	2,4-D	1.0	lb ai/a	32	oz/a	B	PPBD	96.0 a
14	ROUNDUP POWERMAX	1.13	lb ae/a	32	oz/a	B	PPBD	63.3 b
LSD (P=.05)								17.86
Standard Deviation								10.64
CV								24.76
Bartlett's X2								12.607
P(Bartlett's X2)								0.32
Replicate F								0.348
Replicate Prob(F)								0.7091
Treatment F								22.779
Treatment Prob(F)								0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SHARPEN - BURNDOWN - FIELD BINDWEED

Trial ID: 122L-09
Location: STATION

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	FIELD BINDWEED	CONVOLVULUS ARVENSIS

SITE AND DESIGN

Plot Width, Unit:	6.667	FT	Plot Length, Unit:	20	FT	Reps:	3
Study Design: RANDOMIZED COMPLETE BLOCK							

SOIL DESCRIPTION

Texture:	LOAM
Soil Name:	ACUFF

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr/21/09	May/05/09
Time of Day:	4:00 PM	2:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PPBD	PPBD
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	83 F	79 F
% Relative Humidity:	6	48
Wind Velocity, Unit:	1.5 MPH	1.5 MPH
Soil Temp., Unit:	75 F	95 F
% Cloud Cover:	0	50

WEED STAGE AT EACH APPLICATION

	A	B
	FBINDWEED	FBINDWEED
Stage Scale:	6-10"	10-14"

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	23	23
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	C02	C02

Texas Agricultural Experiment Station

SHARPEN - BURNDOWN - TEXAS BLUEWEED

Trial ID: 123L-09
Location: GLOVER

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Weed Code
Rating Data Type
Rating Unit
Rating Date

TXBLWEED	TXBLWEED	TXBLWEED	TXBLWEED
CONTROL	CONTROL	CONTROL	CONTROL
PERCENT	PERCENT	PERCENT	PERCENT
May/13/09	May/20/09	Jun/03/09	Jun/15/09

Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Appl Code	Appl Description				
1	SHARPEN	0.0223	lb ai/a	1.0	oz/a	A	PPBD	81.7	b	86.7	b
	COC	1.0	% v/v	1.0	% v/v	A	PPBD			53.3	cd
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
2	SHARPEN	0.0446	lb ai/a	2.0	oz/a	A	PPBD	90.0	a	95.7	a
	COC	1.0	% v/v	1.0	% v/v	A	PPBD			56.7	bcd
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
3	SHARPEN	0.067	lb ai/a	3.0	oz/a	A	PPBD	90.0	a	96.3	a
	COC	1.0	% v/v	1.0	% v/v	A	PPBD			58.3	bcd
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
4	SHARPEN	0.134	lb ai/a	6.0	oz/a	A	PPBD	93.3	a	98.0	a
	COC	1.0	% v/v	1.0	% v/v	A	PPBD			66.7	b
	AMS04	17.0	lb/100 gal	17.0	lb/100 gal	A	PPBD				
5	CLARITY	0.25	lb ai/a	8	oz/a	A	PPBD	40.0	d	58.3	d
6	2,4-D	1.0	lb ai/a	32	oz/a	A	PPBD	56.7	c	68.3	c
7	ROUNDUP POWERMAX	1.13	lb ae/a	32	oz/a	A	PPBD	35.0	d	60.0	cd
LSD (P=.05)								5.60		8.36	
Standard Deviation								3.15		4.70	
CV								4.53		5.84	
Bartlett's X2								1.393		10.922	
P(Bartlett's X2)								0.707		0.053	
Replicate F								1.560		0.922	
Replicate Prob(F)								0.2499		0.4242	
Treatment F								190.600		42.725	
Treatment Prob(F)								0.0001		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SHARPEN - BURNDOWN - TEXAS BLUEWEED

Trial ID: 123L-09
Location: GLOVER

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	TEXAS BLUEWEED	HELIANTHUS CILIARIS

SITE AND DESIGN

Plot Width, Unit: 6.667 FT Plot Length, Unit: 20 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: May/05/09
Time of Day: 3:00 PM
Application Method: SPRAY
Application Timing: PPBD
Applic. Placement: BROADCAST
Air Temp., Unit: 79 F
% Relative Humidity: 48
Wind Velocity, Unit: 1.5 MPH
Soil Temp., Unit: 95 F
Soil Moisture: ADEQUATE
% Cloud Cover: 50

WEED STAGE AT EACH APPLICATION

A
TXBLWEED
Stage Scale: 6-8"

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10
Propellant: C02

Texas Agricultural Experiment Station

MORNINGGLORY - PDIR

Trial ID: 125L-09
Location: 301

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code	MRNGGLRY	MRNGGLRY	MRNGGLRY	MRNGGLRY
Rating Data Type	CONTROL	CONTROL	CONTROL	PLANTS
Rating Unit	PERCENT	PERCENT	PERCENT	PER PLOT
Rating Date	Jul/22/09	Jul/30/09	Aug/21/09	Aug/21/09

Trt	Treatment	Rate	Grow	Appl	Appl				
No.	Name	Rate	Unit	Stg	Code	Description			
1	UNTREATED						0.0 d	0.0 c	0.0 e
2	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	99.0 a	99.7 a	94.3 a
	SHARPEN	0.75 oz/a	PDIR	A		COTY-12LF MG			7.0 d
3	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	98.0 a	97.3 a	86.3 ab
	CAPAROL	1.2 qt/a	PDIR	A		COTY-12LF MG			19.3 d
4	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	98.0 a	99.0 a	75.0 bc
	DIREX	1 qt/a	PDIR	A		COTY-12LF MG			37.0 cd
5	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	99.0 a	96.3 a	86.7 ab
	LAYBY PRO	1 qt/a	PDIR	A		COTY-12LF MG			21.7 d
6	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	66.7 b	63.3 b	46.7 d
	VALOR	1 oz/a	PDIR	A		COTY-12LF MG			82.3 ab
7	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	97.0 a	94.7 a	91.3 a
	SUPREND	1.5 lb/a	PDIR	A		COTY-12LF MG			13.0 d
8	ROUNDUP POWERMAX	22 oz/a	PDIR	A		COTY-12LF MG	33.3 c	55.0 b	63.3 c
							8.78	10.85	13.20
	LSD (P=.05)						5.01	6.19	7.54
	Standard Deviation						6.78	8.19	11.09
	CV						15.451	23.889	3.232
	Bartlett's X2						0.009*	0.001*	0.779
	P(Bartlett's X2)								0.207
	Replicate F						0.154	1.096	0.256
	Replicate Prob(F)						0.8585	0.3614	0.7776
	Treatment F						172.609	96.968	53.382
	Treatment Prob(F)						0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

MORNINGGLORY - PDIR

Trial ID: 125L-09
Location: 301

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
IVYLEAF MORNINGGLORY	IPOMOEA	hederacea

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

A
Application Date: Jul/13/09
Time of Day: 1:15 PM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: PDIR
Air Temp., Unit: 98 F
% Relative Humidity: 31
Wind Velocity, Unit: 4 MPH
Soil Temp., Unit: 91 F
Soil Moisture: ADEQUATE
% Cloud Cover: 0

WEED STAGE AT EACH APPLICATION

A
MRNGGLRY
Stage Scale: 2-6 LF

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 34
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

MORNINGGLORY - ROUNDUP/IGNITE COMBINATIONS

Trial ID: 128L-09
Location: 301

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code
Rating Data Type
Rating Unit
Rating Date

MRNGGLRY MRGGLRY MRGGLRY MRGGLRY MRGGLRY
CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/10/09 Jul/30/09 Aug/06/09 Aug/13/09 Aug/21/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description					
1	UNTREATED					0.0	f			
2	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	70.0	d			
3	IGNITE 280	0.52	lb ai/a	A	EP	100.0	a			
4	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	99.0	ab			
	IGNITE 280	0.52	lb ai/a	A	EP					
5	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	100.0	a			
	IGNITE 280	0.39	lb ai/a	A	EP					
6	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	98.3	ab			
	IGNITE 280	0.26	lb ai/a	A	EP					
7	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	90.0	bc			
	IGNITE 280	0.13	lb ai/a	A	EP					
8	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	100.0	a			
	IGNITE 280	0.52	lb ai/a	A	EP					
9	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	99.7	a			
	IGNITE 280	0.39	lb ai/a	A	EP					
10	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	98.0	ab			
	IGNITE 280	0.26	lb ai/a	A	EP					
11	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	91.7	abc			
	IGNITE 280	0.13	lb ai/a	A	EP					
12	ROUNDUP POWERMAX	0.75	lb ae/a	B	MP			71.7	b	86.7
	IGNITE 280	0.52	lb ai/a	B	MP			98.3	a	96.3
14	ROUNDUP POWERMAX	0.75	lb ae/a	B	MP			99.7	a	99.3
	IGNITE 280	0.52	lb ai/a	B	MP					
15	ROUNDUP POWERMAX	0.75	lb ae/a	B	MP			94.3	a	90.7
	IGNITE 280	0.39	lb ai/a	B	MP					
16	ROUNDUP POWERMAX	0.75	lb ae/a	B	MP			97.7	a	95.7
	IGNITE 280	0.26	lb ai/a	B	MP					
17	ROUNDUP POWERMAX	0.75	lb ae/a	B	MP			93.7	a	91.7
	IGNITE 280	0.13	lb ai/a	B	MP					
18	ROUNDUP POWERMAX	0.375	lb ae/a	B	MP			99.0	a	97.7
	IGNITE 280	0.52	lb ai/a	B	MP					
19	ROUNDUP POWERMAX	0.375	lb ae/a	B	MP			99.0	a	93.7
	IGNITE 280	0.39	lb ai/a	B	MP					
20	ROUNDUP POWERMAX	0.375	lb ae/a	B	MP			92.3	a	89.7
	IGNITE 280	0.26	lb ai/a	B	MP					
21	ROUNDUP POWERMAX	0.375	lb ae/a	B	MP			60.0	c	50.0
	IGNITE 280	0.13	lb ai/a	B	MP					
22	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	61.7	e			97.0
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LP					98.0
23	IGNITE 280	0.52	lb ai/a	A	EP	100.0	a			97.0
	IGNITE 280	0.52	lb ai/a	C	LP					99.0
24	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	100.0	a			98.7
	IGNITE 280	0.52	lb ai/a	A	EP					98.0
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LP					
	IGNITE 280	0.52	lb ai/a	C	LP					
25	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	98.0	ab			96.0
	IGNITE 280	0.39	lb ai/a	A	EP					96.0
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LP					
	IGNITE 280	0.39	lb ai/a	C	LP					
26	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	93.3	abc			86.7
	IGNITE 280	0.26	lb ai/a	A	EP					90.0
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LP					
	IGNITE 280	0.26	lb ai/a	C	LP					
27	ROUNDUP POWERMAX	0.75	lb ae/a	A	EP	87.7	c			91.7
	IGNITE 280	0.13	lb ai/a	A	EP					89.7
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LP					
	IGNITE 280	0.13	lb ai/a	C	LP					
28	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	93.3	abc			94.7
	IGNITE 280	0.52	lb ai/a	A	EP					94.3
	ROUNDUP POWERMAX	0.375	lb ae/a	C	LP					
	IGNITE 280	0.52	lb ai/a	C	LP					
29	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	98.7	ab			78.3
	IGNITE 280	0.39	lb ai/a	A	EP					83.3
	ROUNDUP POWERMAX	0.375	lb ae/a	C	LP					
	IGNITE 280	0.39	lb ai/a	C	LP					

Texas Agricultural Experiment Station

Weed Code	MRNGGLRY	MRGGLRY	MRGGLRY	MRGGLRY	MRGGLRY
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/10/09	Jul/30/09	Aug/06/09	Aug/13/09	Aug/21/09

Trt	Treatment	Rate	Unit	Appl	Appl					
No.	Name	Rate	Unit	Code	Description					
30	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	92.7	abc		70.0	c
	IGNITE 280	0.26	lb ai/a	A	EP					70.0
	ROUNDUP POWERMAX	0.375	lb ae/a	C	LP					
	IGNITE 280	0.26	lb ai/a	C	LP					
31	ROUNDUP POWERMAX	0.375	lb ae/a	A	EP	85.7	c		50.0	d
	IGNITE 280	0.13	lb ai/a	A	EP					56.7
	ROUNDUP POWERMAX	0.375	lb ae/a	C	LP					
	IGNITE 280	0.13	lb ai/a	C	LP					
LSD (P=.05)						7.72	8.89	12.52	10.76	11.37
Standard Deviation						4.68	5.18	7.30	6.27	6.63
CV						5.29	5.72	8.19	7.29	7.58
Bartlett's X2						28.926	27.635	20.322	12.221	9.434
P(Bartlett's X2)						0.007*	0.001*	0.016*	0.201	0.223
Replicate F						0.979	1.364	0.717	0.735	0.883
Replicate Prob(F)						0.3843	0.2808	0.5015	0.4932	0.4308
Treatment F						70.267	20.532	11.496	18.834	13.326
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

MORNINGGLORY - ROUNDUP/IGNITE COMBINATIONS

Trial ID: 128L-09
Location: 301

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
IVYLEAF MORNINGGLORY	IPOMOEA	hederacea

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Jul/03/09	Jul/23/09	Aug/04/09
Time of Day:	12:45 PM	9:00 AM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	A - EPOST	B - MPOST	C - LPOST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	88 F	67 F	87 F
% Relative Humidity:	44	80	40
Wind Velocity, Unit:	9 MPH	1 MPH	3 MPH
Soil Temp., Unit:	82 F	70 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	100	10

WEED STAGE AT EACH APPLICATION

	A	B	C
MRNGGLRY	MRNGGLRY	MRNGGLRY	MRNGGLRY
Stage Scale:	4 LF	2-8 LF	6-30"

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	TRACTOR	BACKPACK	TRACTOR
Operating Pressure:	30	23	32
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	AIR	CO2	AIR

Texas Agricultural Experiment Station

TOLERANCE AND EFFICACY OF PYRIMAX AND STAPLE HERBICIDES

Trial ID: 129L-09
Location: ON STATION F301

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code							PIGWEEED					
Crop Code							COTTON	COTTON	COTTON	COTTON	COTTON	
Rating Data Type							STAND	PHYTO	PHYTO	STAND	INJURY	CONTROL
Rating Unit							PLANT/2M	PERCENT	PERCENT	PLANT/2M	PERCENT	PERCENT
Rating Date							May/26/09	May/26/09	Jun/09/09	Jun/09/09	Jun/16/09	Jun/16/09
Trt-Eval Interval							14 DA-A	14 DA-A	28 DA-A	28 DA-A		
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	UNTREATED							10.3 a	0.0 a	0.0 a	13.8 a	0.0 f 0.0 e
2	PYRIMAX	0.0163	lb ai/a	0.65	oz/a	PRE	A	9.5 a	0.0 a	0.0 a	15.0 a	0.0 f 61.3 d
3	STAPLE LX	0.0163	lb ai/a	0.65	oz/a	PRE	A	10.0 a	0.0 a	0.0 a	15.8 a	0.0 f 61.3 d
4	PYRIMAX	0.0325	lb ai/a	1.3	oz/a	PRE	A	9.8 a	0.0 a	0.0 a	16.0 a	0.0 f 62.5 d
5	STAPLE LX	0.0325	lb ai/a	1.3	oz/a	PRE	A	10.0 a	0.0 a	0.0 a	17.8 a	0.0 f 78.8 c
6	PYRIMAX	0.0525	lb ai/a	2.1	oz/a	PRE	A	9.8 a	0.0 a	0.0 a	14.0 a	0.0 f 83.8 bc
7	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	PRE	A	9.5 a	0.0 a	0.0 a	15.0 a	0.0 f 79.3 c
8	PYRIMAX	0.0525	lb ai/a	2.1	oz/a	PRE	A	10.5 a	0.0 a	0.0 a	17.0 a	4.5 cd 93.3 ab
	PYRIMAX	0.075	lb ai/a	3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
9	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	PRE	A	9.8 a	0.0 a	0.0 a	15.5 a	5.0 c 91.3 ab
	STAPLE LX	0.075	lb ai/a	3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
10	PYRIMAX	0.02	lb ai/a	0.8	oz/a	2-4LF	B	10.5 a	0.0 a		16.5 a	2.8 de 95.0 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
11	STAPLE LX	0.02	lb ai/a	0.8	oz/a	2-4LF	B	10.0 a	0.0 a		15.3 a	2.3 e 95.0 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
12	PYRIMAX	0.0325	lb ai/a	1.3	oz/a	2-4LF	B	10.3 a	0.0 a		10.3 a	4.5 cd 92.8 ab
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
13	STAPLE LX	0.0325	lb ai/a	1.3	oz/a	2-4LF	B	11.0 a	0.0 a		15.3 a	5.0 c 97.0 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
14	PYRIMAX	0.065	lb ai/a	2.6	oz/a	2-4LF	B	10.0 a	0.0 a		17.5 a	4.5 cd 99.5 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
15	STAPLE LX	0.065	lb ai/a	2.6	oz/a	2-4LF	B	10.0 a	0.0 a		15.8 a	5.0 c 99.3 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
16	PYRIMAX	0.095	lb ai/a	3.8	oz/a	2-4LF	B	10.3 a	0.0 a		18.5 a	13.8 a 100.0 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
17	STAPLE LX	0.095	lb ai/a	3.8	oz/a	2-4LF	B	10.5 a	0.0 a		15.8 a	11.3 b 100.0 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
LSD (P=.05)							2.09	0.00	0.00	5.18	1.66	8.96
Standard Deviation							1.46	0.00	0.00	3.63	1.16	6.27
CV							14.48	0.0	0.0	23.3	33.82	7.67
Bartlett's X2							17.246	0.0	0.0	23.857	6.004	51.31
P(Bartlett's X2)							0.37	.	.	0.093	0.539	0.001*
Replicate F							1.112	0.000	0.000	1.401	2.215	4.242
Replicate Prob(F)							0.3534	1.0000	1.0000	0.2539	0.0984	0.0097
Treatment F							0.292	0.000	0.000	1.050	48.497	64.421
Treatment Prob(F)							0.9953	1.0000	1.0000	0.4257	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Weed Code								PIGWEEED		MG		MG		PIGWEEED	
Crop Code												COTTON			
Rating Data Type								NECROSIS		CONTROL		NECROSIS		INJURY	
Rating Unit								PERCENT		PERCENT		PERCENT		PERCENT	
Rating Date								Jun/16/09		Jun/16/09		Jun/16/09		Jun/23/09	
Trt-Eval Interval															
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code								
1	UNTREATED							0.0 c	0.0 g	0.0 c	0.0 a	0.0 g			
2	PYRIMAX	0.0163	lb ai/a	0.65	oz/a	PRE	A	0.0 c	60.0 f	0.0 c	0.0 a	53.8 ef			
3	STAPLE LX	0.0163	lb ai/a	0.65	oz/a	PRE	A	0.0 c	60.0 f	0.0 c	0.0 a	50.0 f			
4	PYRIMAX	0.0325	lb ai/a	1.3	oz/a	PRE	A	0.0 c	70.0 e	0.0 c	0.0 a	58.8 de			
5	STAPLE LX	0.0325	lb ai/a	1.3	oz/a	PRE	A	0.0 c	72.5 e	0.0 c	0.0 a	61.3 d			
6	PYRIMAX	0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	85.0 bcd	0.0 c	0.0 a	73.8 c			
7	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	83.8 cd	0.0 c	0.0 a	72.5 c			
8	PYRIMAX	0.0525	lb ai/a	2.1	oz/a	PRE	A	33.8 b	85.0 bcd	17.5 bc	0.0 a	84.3 b			
	PYRIMAX	0.075	lb ai/a	3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
9	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	PRE	A	26.3 b	88.8 ab	18.8 bc	0.0 a	82.5 b			
	STAPLE LX	0.075	lb ai/a	3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
10	PYRIMAX	0.02	lb ai/a	0.8	oz/a	2-4LF	B	100.0 a	81.3 d	15.0 c	0.0 a	96.0 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
11	STAPLE LX	0.02	lb ai/a	0.8	oz/a	2-4LF	B	100.0 a	82.5 cd	15.0 c	0.0 a	94.0 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
12	PYRIMAX	0.0325	lb ai/a	1.3	oz/a	2-4LF	B	100.0 a	85.0 bcd	17.5 bc	0.0 a	94.5 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
13	STAPLE LX	0.0325	lb ai/a	1.3	oz/a	2-4LF	B	100.0 a	85.0 bcd	16.3 c	0.0 a	94.5 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
14	PYRIMAX	0.065	lb ai/a	2.6	oz/a	2-4LF	B	100.0 a	90.5 a	20.0 bc	0.0 a	97.5 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
15	STAPLE LX	0.065	lb ai/a	2.6	oz/a	2-4LF	B	100.0 a	89.3 ab	18.8 bc	1.7 a	96.3 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								
16	PYRIMAX	0.095	lb ai/a	3.8	oz/a	2-4LF	B	100.0 a	86.3 abc	38.8 ab	3.3 a	98.3 a			
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B								
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B								

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Texas Agricultural Experiment Station

Weed Code							PIGWEEED		MG	MG	PIGWEEED		MG
Crop Code							NECROSIS		CONTROL		COTTON		CONTROL
Rating Data Type							PERCENT		PERCENT		INJURY		PERCENT
Rating Unit							Jun/23/09		Jun/23/09		Jun/23/09		Jul/07/09
Rating Date							Jun/23/09		Jun/23/09		Jun/23/09		Jul/07/09
Trt-Eval Interval							Jun/23/09		Jun/23/09		Jun/23/09		Jul/07/09
Trt	Treatment		Rate	Unit	Product	Product	Grow	Appl					
No.	Name		Rate	Unit	Rate	Rate	Stg	Code					
1	UNTREATED								0.0 c	0.0 f	0.0 c	0.0 c	0.0 e
2	PYRIMAX		0.0163	lb ai/a	0.65	oz/a	PRE	A	0.0 c	45.0 e	0.0 c	0.0 c	22.5 i
3	STAPLE LX		0.0163	lb ai/a	0.65	oz/a	PRE	A	0.0 c	42.5 e	0.0 c	0.0 c	18.8 i
4	PYRIMAX		0.0325	lb ai/a	1.3	oz/a	PRE	A	0.0 c	51.3 d	0.0 c	0.0 c	25.0 i
5	STAPLE LX		0.0325	lb ai/a	1.3	oz/a	PRE	A	0.0 c	51.3 d	0.0 c	1.3 c	28.8 i
6	PYRIMAX		0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	62.5 c	0.0 c	0.0 c	57.5 gh
7	STAPLE LX		0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	66.3 c	0.0 c	0.0 c	51.3 h
8	PYRIMAX		0.0525	lb ai/a	2.1	oz/a	PRE	A	77.5 b	85.0 b	61.3 b	0.0 c	73.3 ef
	PYRIMAX		0.075	lb ai/a	3	oz/a	2-4LF	B					95.5 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
9	STAPLE LX		0.0525	lb ai/a	2.1	oz/a	PRE	A	77.5 b	81.3 b	61.3 b	0.0 c	65.0 fg
	STAPLE LX		0.075	lb ai/a	3	oz/a	2-4LF	B					95.8 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
10	PYRIMAX		0.02	lb ai/a	0.8	oz/a	2-4LF	B	100.0 a	86.3 b	91.3 a	0.0 c	82.0 de
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
11	STAPLE LX		0.02	lb ai/a	0.8	oz/a	2-4LF	B	100.0 a	85.0 b	91.3 a	0.0 c	82.5 cde
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					94.5 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
12	PYRIMAX		0.0325	lb ai/a	1.3	oz/a	2-4LF	B	100.0 a	84.3 b	92.5 a	0.0 c	86.8 bcd
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					94.3 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
13	STAPLE LX		0.0325	lb ai/a	1.3	oz/a	2-4LF	B	100.0 a	93.5 a	92.5 a	0.0 c	93.3 ab
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					94.3 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
14	PYRIMAX		0.065	lb ai/a	2.6	oz/a	2-4LF	B	100.0 a	93.5 a	92.5 a	6.3 b	92.5 abc
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					97.5 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
15	STAPLE LX		0.065	lb ai/a	2.6	oz/a	2-4LF	B	100.0 a	95.0 a	92.5 a	5.0 b	93.0 ab
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					96.5 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
16	PYRIMAX		0.095	lb ai/a	3.8	oz/a	2-4LF	B	100.0 a	94.3 a	92.5 a	10.0 a	98.3 a
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					98.3 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
17	STAPLE LX		0.095	lb ai/a	3.8	oz/a	2-4LF	B	100.0 a	92.3 a	92.5 a	10.0 a	93.8 ab
	ROUNDUP WEATHERMAX		0.75	lb ae/a	21.3	oz/a	2-4LF	B					96.5 a
	NIS		0.25	% v/v	3.2	oz/a	2-4LF	B					
LSD (P=.05)									3.06	5.50	2.66	3.40	9.58
Standard Deviation									2.14	3.85	1.86	2.38	6.71
CV									3.82	5.41	3.68	124.36	10.71
Bartlett's X2									0.0	14.251	0.274	1.943	29.038
P(Bartlett's X2)									.	0.507	1.00	0.746	0.016*
Replicate F									2.133	3.718	5.664	0.954	1.330
Replicate Prob(F)									0.1083	0.0175	0.0021	0.4221	0.2757
Treatment F									2087.000	183.839	2309.921	9.000	92.492
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code								PIGWEEED	MG		PIGWEEED
Crop Code								COTTON			COTTON
Rating Data Type								INJURY	CONTROL	CONTROL	INJURY
Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								Jul/23/09	Jul/23/09	Jul/23/09	Aug/10/09
Trt-Eval Interval											Aug/10/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	UNTREATED							0.0 c	0.0 e	0.0 e	0.0 c	0.0 e
2	PYRIMAX	0.0163	lb ai/a	0.65	oz/a	PRE	A	0.0 c	17.5 de	2.5 e	0.0 c	7.5 de
3	STAPLE LX	0.0163	lb ai/a	0.65	oz/a	PRE	A	0.0 c	22.5 cd	20.0 de	0.0 c	10.0 de
4	PYRIMAX	0.0325	lb ai/a	1.3	oz/a	PRE	A	0.0 c	15.0 de	20.0 de	0.0 c	1.3 e
5	STAPLE LX	0.0325	lb ai/a	1.3	oz/a	PRE	A	0.0 c	31.3 bcd	39.4 cd	0.0 c	6.3 de
6	PYRIMAX	0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	31.3 bcd	35.0 cd	0.0 c	12.5 de
7	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	27.5 bcd	57.5 bc	0.0 c	10.0 de
8	PYRIMAX	0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	46.3 b	91.3 a	0.0 c	22.5 d
	PYRIMAX	0.075	lb ai/a	3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
9	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	PRE	A	0.0 c	41.3 bc	92.5 a	0.0 c	11.3 de
	STAPLE LX	0.075	lb ai/a	3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
10	PYRIMAX	0.02	lb ai/a	0.8	oz/a	2-4LF	B	0.0 c	67.5 a	77.5 ab	0.0 c	47.5 c
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
11	STAPLE LX	0.02	lb ai/a	0.8	oz/a	2-4LF	B	0.0 c	68.8 a	65.0 abc	0.0 c	46.3 c
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
12	PYRIMAX	0.0325	lb ai/a	1.3	oz/a	2-4LF	B	0.0 c	68.8 a	71.3 ab	2.5 bc	45.0 c
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
13	STAPLE LX	0.0325	lb ai/a	1.3	oz/a	2-4LF	B	0.0 c	73.8 a	62.5 abc	0.0 c	52.5 bc
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
14	PYRIMAX	0.065	lb ai/a	2.6	oz/a	2-4LF	B	3.8 bc	77.5 a	90.0 a	7.5 ab	55.0 bc
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
15	STAPLE LX	0.065	lb ai/a	2.6	oz/a	2-4LF	B	2.5 bc	72.5 a	86.3 ab	0.0 c	45.0 c
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
16	PYRIMAX	0.095	lb ai/a	3.8	oz/a	2-4LF	B	10.0 a	88.8 a	91.3 a	10.0 a	76.3 a
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
17	STAPLE LX	0.095	lb ai/a	3.8	oz/a	2-4LF	B	6.3 ab	83.8 a	80.0 ab	5.0 abc	66.3 ab
	ROUNDUP WEATHERMAX	0.75	lb ae/a	21.3	oz/a	2-4LF	B					
	NIS	0.25	% v/v	3.2	oz/a	2-4LF	B					
LSD (P=.05)								4.95	18.48	27.37	5.91	16.96
Standard Deviation								3.46	12.93	19.15	4.13	11.87
CV								261.67	26.37	33.16	281.16	39.17
Bartlett's X2								2.006	26.912	45.613	1.462	17.009
P(Bartlett's X2)								0.571	0.029*	0.001*	0.691	0.318
Replicate F								1.022	2.370	0.559	0.573	5.752
Replicate Prob(F)								0.3914	0.0822	0.6448	0.6352	0.0019
Treatment F								2.701	18.380	11.272	2.204	17.604
Treatment Prob(F)								0.0040	0.0001	0.0001	0.0179	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

TOLERANCE AND EFFICACY OF PYRIMAX AND STAPLE HERBICIDES

Trial ID: 129L-09
Location: ON STATION F301

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LUBBOCK
State/Prov.: TX

Initiation Date: May/12/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. IPOHE	Ivyleaf morningglory	Ipomoea hederacea
2. AMAPA	Palmer amaranth	Amaranthus palmeri

COTTON

Variety: DP 0935B2F

Planting Date: May/12/09

Planting Method: 4 ROW

Rate: 52000 P/A

Row Spacing: 40 IN Spacing Within Row: 4 SD/FT

Soil Temperature: 74.8 F Soil Moisture: DRY

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B
Application Date:	May/12/09	Jun/09/09
Time of Day:	4:00 PM	10:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE A	2-4 LF B
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	94.6 F	83.9 F
% Relative Humidity:	21.2	43.2
Wind Velocity, Unit:	9 MPH	8 MPH
Soil Temp., Unit:	74.8 F	77 F
Soil Moisture:	DRY	ADEQUATE
% Cloud Cover:	70	70

CROP STAGE AT EACH APPLICATION

	A	B
	COTTON	COTTON
Stage Scale:	PRE	2-4 LF
Height, Unit:	N/A	5 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	IPOHE	IPOHE MORNINGLO
Stage Scale:		EMERGING
Density, Unit:		0.75 INCH
Weed 2 Code, Stage:	AMAPA	AMAPA PALMER AM
Stage Scale:		EMERGING
Density, Unit:		0.25 INCH

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	28 PSI
Nozzle Type:	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	C02	C02

Texas Agricultural Experiment Station

STAPLE - ALS SORGHUM

Trial ID: 130L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Crop Code	DK	ALS	DK	ALS	DK	ALS	DK	ALS
Rating Data Type	INJURY	INJURY	INJURY	INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/30/09	Jun/30/09	Jul/06/09	Jul/06/09	Jul/22/09	Jul/22/09	Aug/03/09	Aug/03/09

Trt	Treatment	Rate	Appl	Appl									
No.	Name	Rate	Unit	Code	Description								
1	STAPLE LX	0.032	lb ai/a	A	PRE	41.7	d	0.0	a	78.3	c	0.0	a
2	STAPLE LX	0.063	lb ai/a	A	PRE	53.3	c	0.0	a	90.0	ab	0.0	a
3	STAPLE LX	0.125	lb ai/a	A	PRE	66.7	b	0.0	a	93.3	a	0.0	a
4	UNTREATED			A	PRE	0.0	e	0.0	a	0.0	d	0.0	a
5	STAPLE LX	0.032	lb ai/a	B	EPOST	53.3	c	0.0	a	85.0	bc	0.0	a
6	STAPLE LX	0.063	lb ai/a	B	EPOST	76.7	a	0.0	a	90.0	ab	0.0	a
7	STAPLE LX	0.125	lb ai/a	B	EPOST	85.0	a	0.0	a	95.0	a	0.0	a
8	UNTREATED			B	EPOST	0.0	e	0.0	a	0.0	d	0.0	a
LSD (P=.05)						8.83		0.00		7.02		0.00	
Standard Deviation						5.04		0.00		4.01		0.00	
CV						10.71		0.0		6.03		0.0	
Bartlett's X2						1.532		0.0		3.182		0.0	
P(Bartlett's X2)						0.909		.		0.364		.	
Replicate F						0.532		0.000		0.259		0.000	
Replicate Prob(F)						0.5988		1.0000		0.7752		1.0000	
Treatment F						121.895		0.000		319.028		0.000	
Treatment Prob(F)						0.0001		1.0000		0.0001		1.0000	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

STAPLE - ALS SORGHUM

Trial ID: 130L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

SORGHUM

Variety: DK 44-20; ALS TOLERANT

Planting Date: Jun/22/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:

ROWS 1-2 - DK 44-20

ROWS 3-4 - ALS RESISTANT SORGHUM

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B
Application Date:	May/11/09	Jun/09/09
Time of Day:	2:15 PM	1:45 PM
Application Method:	BROADCAST	BROADCAST
Application Timing:	PRE	EPOST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	59 F	93 F
% Relative Humidity:	86	13
Wind Velocity, Unit:	3 MPH	6 MPH
Soil Temp., Unit:	62 F	80 F
Soil Moisture:	ADEQUATE	DRY
% Cloud Cover:	100	100

CROP STAGE AT EACH APPLICATION

	A	B
	SORGHUM	SORGHUM
Stage Scale:	PREPLANT	PREPLANT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	23	23
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	C02	C02

Texas Agricultural Experiment Station

HERBICIDE COMPARISON STUDY

Trial ID: 133L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code		PIGWEEED		DEVILS C		PUNCTURE	
Rating Data Type		PLANTS		PLANTS		PLANTS	
Rating Unit		40"X30'		40"X30'		40"X30'	
Rating Date		PERCENT		PERCENT		PERCENT	
		Jul/06/09		Jul/06/09		Jul/06/09	
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl
No.	Name	Rate	Unit	Rate	Rate	Stg	Code
1	UNTREATED CHECK						
2	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
3	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	PURSUIT	0.0625	lb ai/a	4	oz/a	POST	C
	NIS	0.25	% v/v	3.2	oz/a	POST	C
4	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	CADRE	0.0625	lb ai/a	4	oz/a	POST	C
	NIS	0.25	% v/v	3.2	oz/a	POST	C
5	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	CADRE	0.0313	lb ai/a	2	oz/a	POST	C
	NIS	0.25	% v/v	3.2	oz/a	POST	C
	CADRE	0.0313	lb ai/a	2	oz/a	MPOST	D
	NIS	0.25	% v/v	3.2	oz/a	MPOST	D
6	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	BASAGRAN	1	lb ai/a	1	qt/a	POST	C
	COC	1	% v/v	0.4	qt/a	POST	C
7	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	ULTRABLAZER	0.375	lb ai/a	1.5	pt/a	POST	C
	COC	1	% v/v	0.4	qt/a	POST	C
8	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C
	COC	1	% v/v	0.8	pt/a	POST	C
9	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	2,4-DB	0.4	lb ai/a	1.6	pt/a	POST	C
	COC	1	% v/v	0.8	pt/a	POST	C
10	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a	POST	C
	NIS	0.25	% v/v	3.2	oz/a	POST	C
11	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B
	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a	POST	C
	NIS	0.25	% v/v	3.2	oz/a	POST	C
12	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B
13	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B
14	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C
	COC	1	% v/v	0.8	pt/a	POST	C
15	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C
	COC	1.0	% v/v	0.8	pt/a	POST	C
LSD (P=.05)		34.21		27.79		6.29	
Standard Deviation		20.20		16.41		3.72	
CV		170.91		18.37		60.49	
Bartlett's X2		35.465		37.762		24.954	
P(Bartlett's X2)		0.001*		0.001*		0.023*	
Replicate F		0.333		2.331		3.626	
Replicate Prob(F)		0.7201		0.1207		0.0436	
Treatment F		7.938		7.573		2.805	
Treatment Prob(F)		0.0001		0.0001		0.0148	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code		R THISTL		PIGWEEED		DEVILS C	
Rating Data Type		PLANTS		PLANTS		PLANTS	
Rating Unit		40"X30'		40"X30'		40"X30'	
Rating Date		PERCENT		PERCENT		PERCENT	
		Jul/06/09		Jul/20/09		Jul/20/09	
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl
No.	Name	Unit	Unit	Rate	Unit	Stg	Code
1	UNTREATED CHECK						
2	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	1.0 a	0.0 c
3	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.3 bc	66.7 ab
	PURSUIT	0.0625 lb ai/a	4 oz/a	POST	C	0.7 ab	33.3 bc
	NIS	0.25 % v/v	3.2 oz/a	POST	C		
4	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.0 c	100.0 a
	CADRE	0.0625 lb ai/a	4 oz/a	POST	C	4.7 b	96.0 a-d
	NIS	0.25 % v/v	3.2 oz/a	POST	C	13.0 a	0.0 a
5	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.0 c	100.0 a
	CADRE	0.0313 lb ai/a	2 oz/a	POST	C	6.0 b	94.3 bcd
	NIS	0.25 % v/v	3.2 oz/a	POST	C	9.3 a	30.0 a
	CADRE	0.0313 lb ai/a	2 oz/a	MPOST	D		
	NIS	0.25 % v/v	3.2 oz/a	MPOST	D		
6	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	-0.1 c	100.0 a
	BASAGRAN	1 lb ai/a	1 qt/a	POST	C	8.0 b	90.8 d
	COC	1 % v/v	0.4 qt/a	POST	C	6.5 a	24.6 a
7	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	-0.1 c	100.0 a
	ULTRABLAZER	0.375 lb ai/a	1.5 pt/a	POST	C	1.0 b	97.9 abc
	COC	1 % v/v	0.4 qt/a	POST	C	6.5 a	24.5 a
8	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	-0.1 c	100.0 a
	COBRA	0.195 lb ai/a	12.5 oz/a	POST	C	3.0 b	95.9 a-d
	COC	1 % v/v	0.8 pt/a	POST	C	8.5 a	3.3 a
9	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	-0.1 c	100.0 a
	2,4-DB	0.4 lb ai/a	1.6 pt/a	POST	C	5.0 b	93.4 cd
	COC	1 % v/v	0.8 pt/a	POST	C	10.0 a	14.5 a
10	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	-0.1 c	100.0 a
	GRAMOXONE INTEON	0.25 lb ai/a	16 oz/a	POST	C	2.5 b	96.4 abc
	NIS	0.25 % v/v	3.2 oz/a	POST	C	7.5 a	19.5 a
11	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.0 c	100.0 a
	DUAL MAGNUM	0.95 lb ai/a	1 pt/a	PRE	B	0.7 b	99.3 ab
	GRAMOXONE INTEON	0.25 lb ai/a	16 oz/a	POST	C	5.0 a	30.0 a
	NIS	0.25 % v/v	3.2 oz/a	POST	C		
12	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.0 c	100.0 a
	VALOR SX	0.096 lb ai/a	3 oz/a	PRE	B	0.0 b	100.0 a
13	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.0 c	100.0 a
	VALOR SX	0.096 lb ai/a	3 oz/a	PRE	B	0.0 b	100.0 a
	DUAL MAGNUM	0.95 lb ai/a	1 pt/a	PRE	B	3.3 a	45.0 a
14	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	0.0 c	100.0 a
	DUAL MAGNUM	0.95 lb ai/a	1 pt/a	PRE	B	1.0 b	99.0 ab
	COBRA	0.195 lb ai/a	12.5 oz/a	POST	C	5.3 a	31.7 a
	COC	1 % v/v	0.8 pt/a	POST	C		
15	SONALAN	0.75 lb ai/a	2 pt/a	PPI	A	-0.1 c	100.0 a
	VALOR SX	0.096 lb ai/a	3 oz/a	PRE	B	-1.0 b	99.4 ab
	DUAL MAGNUM	0.95 lb ai/a	1 pt/a	PRE	B	2.5 a	47.0 a
	COBRA	0.195 lb ai/a	12.5 oz/a	POST	C		
	COC	1.0 % v/v	0.8 pt/a	POST	C		
LSD (P=.05)						0.38	39.55
Standard Deviation						0.23	23.35
CV						203.97	26.95
Bartlett's X2						0.0	0.0
P(Bartlett's X2)						.	.
Replicate F						3.004	1.222
Replicate Prob(F)						0.0703	0.3138
Treatment F						5.774	5.063
Treatment Prob(F)						0.0001	0.0004
						0.0001	0.0001
						0.3213	0.2825

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code		PUNCTURE		PUNCTURE		R THISTL		R THISTL		PIGWEEED		DEVILS C	
Rating Data Type		PLANTS		CONTROL		PLANTS		CONTROL		CONTROL		CONTROL	
Rating Unit		40"X30'		PERCENT		40"X30'		PERCENT		PERCENT		PERCENT	
Rating Date		Jul/20/09		Jul/20/09		Jul/20/09		Jul/20/09		Aug/03/09		Aug/03/09	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	UNTREATED CHECK							6.3 a	0.0 c	1.0 a	0.0 b	0.0 f	0.0 h
2	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	1.0 a	66.7 ab	0.3 b	66.7 a	85.0 de	3.3 h
3	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.3 a	66.7 ab	0.3 b	66.7 a	83.3 e	30.0 fg
	PURSUIT	0.0625	lb ai/a	4	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
4	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.0 a	100.0 a	0.0 b	100.0 a	90.7 cd	65.0 cd
	CADRE	0.0625	lb ai/a	4	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
5	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.0 a	100.0 a	0.0 b	100.0 a	92.7 bc	55.0 de
	CADRE	0.0313	lb ai/a	2	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
	CADRE	0.0313	lb ai/a	2	oz/a	MPOST	D						
	NIS	0.25	% v/v	3.2	oz/a	MPOST	D						
6	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.4 a	100.0 a	0.0 b	100.0 a	81.6 e	80.0 abc
	BASAGRAN	1	lb ai/a	1	qt/a	POST	C						
	COC	1	% v/v	0.4	qt/a	POST	C						
7	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	2.4 a	55.5 abc	0.0 b	100.0 a	90.1 cd	80.0 abc
	ULTRABLAZER	0.375	lb ai/a	1.5	pt/a	POST	C						
	COC	1	% v/v	0.4	qt/a	POST	C						
8	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	1.9 a	20.5 bc	0.0 b	100.0 a	95.6 abc	95.0 ab
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C						
	COC	1	% v/v	0.8	pt/a	POST	C						
9	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.4 a	100.0 a	0.0 b	100.0 a	90.1 cd	40.1 ef
	2,4-DB	0.4	lb ai/a	1.6	pt/a	POST	C						
	COC	1	% v/v	0.8	pt/a	POST	C						
10	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	1.4 a	20.5 bc	0.0 b	100.0 a	91.6 c	20.1 fgh
	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
11	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.0 a	100.0 a	0.0 b	100.0 a	95.7 abc	73.3 bcd
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
12	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.3 a	66.7 ab	0.0 b	100.0 a	98.3 ab	3.3 h
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B						
13	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.0 a	100.0 a	0.0 b	100.0 a	100.0 a	13.3 gh
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B						
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
14	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.0 a	100.0 a	0.0 b	100.0 a	99.3 a	100.0 a
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C						
	COC	1	% v/v	0.8	pt/a	POST	C						
15	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	0.9 a	70.5 ab	0.0 b	100.0 a	99.2 a	100.0 a
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B						
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C						
	COC	1.0	% v/v	0.8	pt/a	POST	C						
LSD (P=.05)								3.97	53.47	0.41	40.99	5.43	20.18
Standard Deviation								2.35	31.57	0.24	24.20	3.20	11.92
CV								229.79	44.38	248.14	27.23	3.72	23.57
Bartlett's X2								18.625	2.043	0.0	0.0	12.084	10.05
P(Bartlett's X2)								0.005*	0.916	.	.	0.357	0.346
Replicate F								1.378	3.586	1.071	0.379	4.820	0.497
Replicate Prob(F)								0.2729	0.0449	0.3597	0.6887	0.0184	0.6149
Treatment F								1.476	3.507	4.084	3.793	176.102	28.984
Treatment Prob(F)								0.2006	0.0042	0.0016	0.0026	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code Rating Data Type Rating Unit Rating Date							PUNCTURE CONTROL PERCENT Aug/03/09	R THISTL CONTROL PERCENT Aug/03/09	PIGWEEED CONTROL PERCENT Aug/17/09	DEVILS C CONTROL PERCENT Aug/17/09	PUNCTURE CONTROL PERCENT Aug/17/09	R THISTL CONTROL PERCENT Aug/17/09	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	UNTREATED CHECK							0.0 c	0.0 b	0.0 f	0.0 e	0.0 c	0.0 b
2	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	50.0 abc	66.7 a	90.0 e	0.0 e	61.7 ab	93.3 a
3	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	76.7 ab	73.3 a	94.0 d	50.0 cd	83.3 ab	100.0 a
	PURSUIT	0.0625	lb ai/a	4	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
4	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	100.0 a	100.0 a	95.7 bcd	92.7 a	96.7 a	100.0 a
	CADRE	0.0625	lb ai/a	4	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
5	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	56.7 abc	100.0 a	97.0 a-d	98.3 a	91.7 a	100.0 a
	CADRE	0.0313	lb ai/a	2	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
	CADRE	0.0313	lb ai/a	2	oz/a	MPOST	D						
	NIS	0.25	% v/v	3.2	oz/a	MPOST	D						
6	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	100.0 a	98.8 a	86.9 e	95.2 a	100.0 a	100.0 a
	BASAGRAN	1	lb ai/a	1	qt/a	POST	C						
	COC	1	% v/v	0.4	qt/a	POST	C						
7	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	52.2 abc	98.8 a	95.5 cd	87.7 ab	51.6 ab	100.0 a
	ULTRABLAZER	0.375	lb ai/a	1.5	pt/a	POST	C						
	COC	1	% v/v	0.4	qt/a	POST	C						
8	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	77.2 ab	98.8 a	98.0 abc	98.8 a	89.1 a	100.0 a
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C						
	COC	1	% v/v	0.8	pt/a	POST	C						
9	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	67.2 ab	98.9 a	94.5 cd	45.3 d	89.1 a	100.0 a
	2,4-DB	0.4	lb ai/a	1.6	pt/a	POST	C						
	COC	1	% v/v	0.8	pt/a	POST	C						
10	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	17.2 bc	98.9 a	95.5 cd	32.8 d	39.2 bc	100.0 a
	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
11	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	93.3 a	100.0 a	99.3 ab	90.0 ab	100.0 a	100.0 a
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a	POST	C						
	NIS	0.25	% v/v	3.2	oz/a	POST	C						
12	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	53.3 abc	100.0 a	99.3 ab	38.3 d	91.7 a	100.0 a
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B						
13	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	100.0 a	100.0 a	100.0 a	68.3 bc	100.0 a	100.0 a
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B						
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
14	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	100.0 a	100.0 a	99.3 ab	100.0 a	95.0 a	100.0 a
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C						
	COC	1	% v/v	0.8	pt/a	POST	C						
15	SONALAN	0.75	lb ai/a	2	pt/a	PPI	A	82.2 a	98.9 a	99.5 a	100.0 a	89.2 a	100.0 a
	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	B						
	DUAL MAGNUM	0.95	lb ai/a	1	pt/a	PRE	B						
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C						
	COC	1.0	% v/v	0.8	pt/a	POST	C						
LSD (P=.05)								54.96	37.05	3.28	21.30	41.79	5.70
Standard Deviation								32.46	21.88	1.94	12.58	24.68	3.36
CV								47.45	24.62	2.16	18.91	31.41	3.62
Bartlett's X2								6.764	0.097	12.532	15.292	14.167	0.0
P(Bartlett's X2)								0.662	0.755	0.325	0.122	0.166	.
Replicate F								0.184	0.468	4.105	1.512	2.027	0.786
Replicate Prob(F)								0.8330	0.6326	0.0306	0.2426	0.1556	0.4682
Treatment F								2.689	4.463	501.821	24.810	4.017	175.888
Treatment Prob(F)								0.0184	0.0009	0.0001	0.0001	0.0018	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

HERBICIDE COMPARISON STUDY

Trial ID: 133L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LUBBOCK
State/Prov.: TX

Initiation Date: May/28/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH
DEVIL'S CLAW
PUNCTUREVINE
RUSSIAN THISTLE

NON CROP

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	May/28/09	May/28/09	Jul/20/09	Aug/03/09
Time of Day:	11:00 AM	11:00 AM	10:00 AM	11:30 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	A - PPI	B - PRE	C - POST	D - MPOST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	72.7 F	72.7 F	81 F	84.2 F
% Relative Humidity:	55	55	56.7	58
Wind Velocity, Unit:	6 MPH	6 MPH	5.8 MPH	7 MPH
Soil Temp., Unit:	71 F	71 F	80.6 F	80.2 F
Soil Moisture:	DRY	DRY	DRY	ADEQUATE
% Cloud Cover:	0	0	20	10

WEED STAGE AT EACH APPLICATION

	A B	C	D
Stage Scale:	PALMER AM	PALMER AM	PALMER AM
Density, Unit:	HEIGHT	HEIGHT	HEIGHT
	2-30 IN	6-20 IN	DEVILCLAW
Stage Scale:	HEIGHT	HEIGHT	HEIGHT
Density, Unit:	2-4 IN	2-4 IN	2-4 IN

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	TRACTOR	TRACTOR	BACKPACK	BACKPACK
Operating Pressure:	30 PSI	30 PSI	25 PSI	24 PSI
Nozzle Type:	TURBOTEE	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015	110015	110015
Nozzle Spacing, Unit:	20 IN	20 IN	19 IN	19 IN
Boom Height, Unit:	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Incorporation Equip.:	ROLL CULT	ROLL CULT		
Hours to Incorp.:	1	1		
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	CO2	CO2

Treatment Application Comment

5/28/09 - SPRAYED PPI'S, INCORP 1X W/ROLL CULT @ 5 MPH THEN SPRAYED PRE
5/28/09 - SPRAYED PRE'S, INCORP 1X W/ROLL CULT @ 5 MPH

Texas Agricultural Experiment Station

DUPONT - ALS SORGHUM

Trial ID: 134L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

						PIGWEEED		D-CLAW		PIGWEEED		D-CLAW		SORGHUM	
Weed Code						SORGHUM		CONTROL		CONTROL		CONTROL		SORGHUM	
Crop Code						INJURY		PERCENT		PERCENT		PERCENT		INJURY	
Rating Data Type						PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Rating Unit						Jun/18/09		Jun/18/09		Jun/18/09		Jun/25/09		Jun/25/09	
Rating Date						Jun/18/09		Jun/18/09		Jun/18/09		Jun/25/09		Jun/25/09	
Trt	Treatment	Rate	Rate	Grow	Appl										
No.	Name	Rate	Unit	Stg	Code	Description									
1	ATRAZINE	1 lb ai/a	PRE	A	PRE	3.3	def	100.0	a	100.0	a	0.0	b	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ATRAZINE	1 lb ai/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
2	ATRAZINE	1 lb ai/a	PRE	A	PRE	15.0	a	100.0	a	100.0	a	6.7	a	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ATRAZINE	1 lb ai/a	POST	B	3-4" SORG										
	CLARITY	8 oz/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
3	ATRAZINE	1 lb ai/a	PRE	A	PRE	5.0	cde	100.0	a	100.0	a	0.0	b	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ATRAZINE	1 lb ai/a	POST	B	3-4" SORG										
	2, 4-D ESTER	8 oz/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
4	ATRAZINE	1 lb ai/a	PRE	A	PRE	1.7	ef	100.0	a	100.0	a	0.0	b	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ATRAZINE	1 lb ai/a	POST	B	3-4" SORG										
	STARANE	4 oz/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
5	ATRAZINE	1 lb ai/a	PRE	A	PRE	6.7	bcd	95.0	a	91.7	b	0.0	b	95.0	b
	ACCENT	0.38 oz ai/a	POST	B	3-4" SORG										
	RESOLVE	0.188 oz ai/a	POST	B	3-4" SORG										
	CLARITY	8 oz/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
6	ATRAZINE	1 lb ai/a	PRE	A	PRE	10.0	b	99.0	a	98.0	a	0.0	b	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ALLY	0.06 oz ai/a	POST	B	3-4" SORG										
	ATRAZINE	1 lb ai/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
7	ATRAZINE	1 lb ai/a	PRE	A	PRE	8.3	bc	99.3	a	95.3	ab	1.7	b	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ALLY	0.06 oz ai/a	POST	B	3-4" SORG										
	CLARITY	8 oz/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
8	ATRAZINE	1 lb ai/a	PRE	A	PRE	0.0	f	100.0	a	98.0	a	0.0	b	100.0	a
	ACCENT	0.5 oz ai/a	POST	B	3-4" SORG										
	ALLY	0.06 oz ai/a	POST	B	3-4" SORG										
	STARANE	4 oz/a	POST	B	3-4" SORG										
	COC	1 % v/v	POST	B	3-4" SORG										
	AMS	2 lb/a	POST	B	3-4" SORG										
9	ATRAZINE	1 lb ai/a	PRE	A	PRE	0.0	f	86.7	b	23.3	c	0.0	b	90.0	c
10	UNTREATED					0.0	f	0.0	c	0.0	d	0.0	b	0.0	d
LSD (P=.05)						4.08		4.81		4.51		2.28		2.71	
Standard Deviation						2.38		2.80		2.63		1.33		1.58	
CV						47.53		3.19		3.26		159.16		1.79	
Bartlett's X2						1.081		6.923		4.524		0.0		24.734	
P(Bartlett's X2)						0.897		0.074		0.21		.		0.001*	
Replicate F						1.328		2.149		0.251		0.474		1.000	
Replicate Prob(F)						0.2898		0.1455		0.7811		0.6302		0.3874	
Treatment F						13.443		371.540		589.063		7.632		1173.667	
Treatment Prob(F)						0.0001		0.0001		0.0001		0.0001		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code	PIGWEEED	D-CLAW	PIGWEEED
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Jul/09/09	Jul/09/09	Aug/06/09

Trt No.	Treatment Name	Rate	Unit	Grow Stg	Appl Code	Appl Description			
1	ATRAZINE	1 lb ai/a	PRE	A	PRE		100.0 a	99.3 a	100.0 a
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ATRAZINE	1 lb ai/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
2	ATRAZINE	1 lb ai/a	PRE	A	PRE		100.0 a	97.0 a	100.0 a
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ATRAZINE	1 lb ai/a	POST	B	3-4"	SORG			
	CLARITY	8 oz/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
3	ATRAZINE	1 lb ai/a	PRE	A	PRE		100.0 a	99.3 a	100.0 a
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ATRAZINE	1 lb ai/a	POST	B	3-4"	SORG			
	2, 4-D ESTER	8 oz/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
4	ATRAZINE	1 lb ai/a	PRE	A	PRE		100.0 a	98.3 a	100.0 a
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ATRAZINE	1 lb ai/a	POST	B	3-4"	SORG			
	STARANE	4 oz/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
5	ATRAZINE	1 lb ai/a	PRE	A	PRE		91.7 b	86.7 b	94.6 b
	ACCENT	0.38 oz ai/a	POST	B	3-4"	SORG			
	RESOLVE	0.188 oz ai/a	POST	B	3-4"	SORG			
	CLARITY	8 oz/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
6	ATRAZINE	1 lb ai/a	PRE	A	PRE		99.0 a	94.3 ab	97.3 ab
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ALLY	0.06 oz ai/a	POST	B	3-4"	SORG			
	ATRAZINE	1 lb ai/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
7	ATRAZINE	1 lb ai/a	PRE	A	PRE		100.0 a	94.0 ab	100.0 a
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ALLY	0.06 oz ai/a	POST	B	3-4"	SORG			
	CLARITY	8 oz/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
8	ATRAZINE	1 lb ai/a	PRE	A	PRE		100.0 a	98.3 a	98.3 ab
	ACCENT	0.5 oz ai/a	POST	B	3-4"	SORG			
	ALLY	0.06 oz ai/a	POST	B	3-4"	SORG			
	STARANE	4 oz/a	POST	B	3-4"	SORG			
	COC	1 % v/v	POST	B	3-4"	SORG			
	AMS	2 lb/a	POST	B	3-4"	SORG			
9	ATRAZINE	1 lb ai/a	PRE	A	PRE		81.7 c	6.7 c	53.3 c
10	UNTREATED						0.0 d	0.0 c	0.0 d
LSD (P=.05)							6.72	7.73	4.64
Standard Deviation							3.92	4.50	2.70
CV							4.49	5.82	3.2
Bartlett's X2							4.319	17.395	1.99
P(Bartlett's X2)							0.115	0.026*	0.574
Replicate F							2.063	1.956	0.893
Replicate Prob(F)							0.1561	0.1703	0.4279
Treatment F							190.751	227.749	448.114
Treatment Prob(F)							0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

DUPONT - ALS SORGHUM

Trial ID: 134L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	PIGWEEED	AMARANTHUS PALMERI
	DEVIL'S CLAW	PROBOSCIDEA LOUISIANICA

SORGHUM

Variety: ALS RESISTANT

Planting Date: May/22/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
IRRIGATED WITH 3" ON
MAY 27
JUNE 26

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B
Application Date:	May/22/09	Jun/11/09
Time of Day:	3:00 PM	4:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	A PRE	B POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	79 F	94 F
% Relative Humidity:	43	11
Wind Velocity, Unit:	4 MPH	4 MPH
Soil Temp., Unit:	76 F	80 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	90	5

CROP STAGE AT EACH APPLICATION

	A	B
	SORGHUM	SORGHUM
Stage Scale:	PRE	3-4"

WEED STAGE AT EACH APPLICATION

	A	B
	PIGWEEED	PIGWEEED
Stage Scale:	PRE	4-6"
	D-CLAW	D-CLAW
Stage Scale:	PRE	6-8"

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	TRACTOR
Operating Pressure:	30	30
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	AIR

Texas Agricultural Experiment Station

GLYTOL - WEED CONTROL SYSTEMS

Trial ID: 136L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code					PIGWEEED		D-CLAW		PIGWEEED		D-CLAW	
Crop Code					COTTON							
Part Rated												
Rating Data Type					INJURY		CONTROL		CONTROL		CONTROL	
Rating Unit					PERCENT		PERCENT		PERCENT		PERCENT	
Rating Date					Jun/29/09		Jun/29/09		Jul/06/09		Jul/13/09	
Trt	Treatment	Rate	Appl	Appl								
No.	Name	Rate	Unit	Code	Description							
1	ROUNDUP POWERMAX	0.75	lb ae/a	A	EPOST	0.0	a	100.0	a	100.0	a	95.7
	AMS	17	lb/100 gal	A	EPOST							d
2	IGNITE 280	0.52	lb ai/a	A	EPOST	0.0	a	100.0	a	100.0	a	97.3
	AMS	17	lb/100 gal	A	EPOST							bcd
3	ROUNDUP POWERMAX	0.75	lb ae/a	A	EPOST	0.0	a	100.0	a	100.0	a	96.7
	IGNITE 280	0.52	lb ai/a	A	EPOST							cd
	AMS	17	lb/100 gal	A	EPOST							
4	ROUNDUP POWERMAX	0.38	lb ae/a	A	EPOST	0.0	a	100.0	a	100.0	a	97.3
	IGNITE 280	0.26	lb ai/a	A	EPOST							bcd
	AMS	17	lb/100 gal	A	EPOST							
5	ROUNDUP POWERMAX	0.75	lb ae/a	A	EPOST	0.0	a	100.0	a	100.0	a	96.7
	AMS	17	lb/100 gal	A	EPOST							cd
	IGNITE 280	0.52	lb ai/a	C	LPOST							
	AMS	17	lb/100 gal	C	LPOST							
6	IGNITE 280	0.52	lb ai/a	A	EPOST	0.0	a	100.0	a	100.0	a	99.0
	AMS	17	lb/100 gal	A	EPOST							ab
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LPOST							
	AMS	17	lb/100 gal	C	LPOST							
7	ROUNDUP POWERMAX	0.75	lb ae/a	A	EPOST	0.0	a	100.0	a	100.0	a	96.3
	IGNITE 280	0.26	lb ai/a	A	EPOST							cd
	AMS	17	lb/100 gal	A	EPOST							
	ROUNDUP POWERMAX	0.75	lb ae/a	C	LPOST							
	IGNITE 280	0.26	lb ai/a	C	LPOST							
	AMS	17	lb/100 gal	C	LPOST							
8	IGNITE 280	0.52	lb ai/a	A	EPOST	0.0	a	100.0	a	100.0	a	98.3
	ROUNDUP POWERMAX	0.38	lb ae/a	A	EPOST							abc
	AMS	17	lb/100 gal	A	EPOST							
	IGNITE 280	0.52	lb ai/a	C	LPOST							
	ROUNDUP POWERMAX	0.38	lb ae/a	C	LPOST							
	AMS	17	lb/100 gal	C	LPOST							
9	ROUNDUP POWERMAX	0.75	lb ae/a	B	MPOST	0.0	a	0.0	b	0.0	b	100.0
	AMS	17	lb/100 gal	B	MPOST							a
10	IGNITE 280	0.52	lb ai/a	B	MPOST	0.0	a	0.0	b	0.0	b	100.0
	AMS	17	lb/100 gal	B	MPOST							a
11	ROUNDUP POWERMAX	0.75	lb ae/a	B	MPOST	0.0	a	0.0	b	0.0	b	99.7
	IGNITE 280	0.52	lb ai/a	B	MPOST							a
	AMS	17	lb/100 gal	B	MPOST							
12	ROUNDUP POWERMAX	0.38	lb ae/a	B	MPOST	0.0	a	0.0	b	0.0	b	99.3
	IGNITE 280	0.26	lb ai/a	B	MPOST							ab
	AMS	17	lb/100 gal	B	MPOST							
13	UNTREATED					0.0	a	0.0	b	0.0	b	0.0
LSD (P=.05)						0.00	0.00	0.00	2.02	0.85	5.89	2.01
Standard Deviation						0.00	0.00	0.00	1.20	0.50	3.50	1.19
CV						0.0	0.0	0.0	1.32	0.54	4.06	1.32
Bartlett's X2						0.0	0.0	0.0	5.993	1.703	9.151	6.788
P(Bartlett's X2)						.	.	.	0.874	0.636	0.518	0.659
Replicate F						0.000	0.000	0.000	0.340	1.220	2.777	1.311
Replicate Prob(F)						1.0000	1.0000	1.0000	0.7149	0.3128	0.0823	0.2881
Treatment F						0.000	0.000	0.000	1560.875	9122.831	168.313	1558.234
Treatment Prob(F)						1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code					PIGWEEED	PIGWEEED	
Crop Code							COTTON
Part Rated							LINT
Rating Data Type					CONTROL	CONTROL	YIELD
Rating Unit					PERCENT	PERCENT	LBS/ACRE
Rating Date					Aug/12/09	Jul/27/09	Nov/06/09
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description		
1	ROUNDUP POWERMAX AMS	0.75	lb ae/a	A	EPOST	76.7 b	723.0 a
		17	lb/100 gal	A	EPOST		
2	IGNITE 280 AMS	0.52	lb ai/a	A	EPOST	70.0 bcd	582.0 a
		17	lb/100 gal	A	EPOST		
3	ROUNDUP POWERMAX IGNITE 280 AMS	0.75	lb ae/a	A	EPOST	65.0 bcd	618.0 a
		0.52	lb ai/a	A	EPOST		
		17	lb/100 gal	A	EPOST		
4	ROUNDUP POWERMAX IGNITE 280 AMS	0.38	lb ae/a	A	EPOST	68.3 bcd	542.3 a
		0.26	lb ai/a	A	EPOST		
		17	lb/100 gal	A	EPOST		
5	ROUNDUP POWERMAX AMS	0.75	lb ae/a	A	EPOST	91.3 a	648.7 a
		17	lb/100 gal	A	EPOST		
	IGNITE 280 AMS	0.52	lb ai/a	C	LPOST		
		17	lb/100 gal	C	LPOST		
6	IGNITE 280 AMS	0.52	lb ai/a	A	EPOST	100.0 a	566.7 a
		17	lb/100 gal	A	EPOST		
	ROUNDUP POWERMAX AMS	0.75	lb ae/a	C	LPOST		
		17	lb/100 gal	C	LPOST		
7	ROUNDUP POWERMAX IGNITE 280 AMS	0.75	lb ae/a	A	EPOST	97.3 a	697.7 a
		0.26	lb ai/a	A	EPOST		
		17	lb/100 gal	A	EPOST		
	ROUNDUP POWERMAX IGNITE 280 AMS	0.75	lb ae/a	C	LPOST		
		0.26	lb ai/a	C	LPOST		
		17	lb/100 gal	C	LPOST		
8	IGNITE 280 AMS	0.52	lb ai/a	A	EPOST	99.7 a	580.3 a
		17	lb/100 gal	A	EPOST		
	ROUNDUP POWERMAX AMS	0.38	lb ae/a	A	EPOST		
		17	lb/100 gal	A	EPOST		
	IGNITE 280 AMS	0.52	lb ai/a	C	LPOST		
		0.38	lb ae/a	C	LPOST		
		17	lb/100 gal	C	LPOST		
9	ROUNDUP POWERMAX AMS	0.75	lb ae/a	B	MPOST	100.0 a	574.7 a
		17	lb/100 gal	B	MPOST		
10	IGNITE 280 AMS	0.52	lb ai/a	B	MPOST	63.3 cd	610.3 a
		17	lb/100 gal	B	MPOST		
11	ROUNDUP POWERMAX IGNITE 280 AMS	0.75	lb ae/a	B	MPOST	71.7 bc	732.3 a
		0.52	lb ai/a	B	MPOST		
		17	lb/100 gal	B	MPOST		
12	ROUNDUP POWERMAX IGNITE 280 AMS	0.38	lb ae/a	B	MPOST	58.3 d	510.3 a
		0.26	lb ai/a	B	MPOST		
		17	lb/100 gal	B	MPOST		
13	UNTREATED					0.0 e	165.3 b
	LSD (P=.05)					11.26	231.61
	Standard Deviation					6.68	137.43
	CV					9.03	23.66
	Bartlett's X2					17.445	5.77
	P(Bartlett's X2)					0.026*	0.927
	Replicate F					0.800	4.647
	Replicate Prob(F)					0.4611	0.0197
	Treatment F					49.441	3.216
	Treatment Prob(F)					0.0001	0.0072

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

GLYTOL - WEED CONTROL SYSTEMS

Trial ID: 136L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): Y

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	PIGWEEED	AMARANTHUS PALMERI
	DEVIL'S CLAW	PROBOSCIDEA LOUISIANICA

COTTON

Variety: GLYTOL

Planting Date: May/27/09

SITE AND DESIGN

Plot Width, Unit: 13.3 FT Plot Length, Unit: 35 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:

IRRIGATION:
JUNE 4 - 2"
JUNE 15 - 2"
JULY 16 - 2"
AUG 21 - 2"

SOIL DESCRIPTION

Texture: LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Jun/21/09	Jul/02/09	Jul/20/09
Time of Day:	4:00 PM	3:00 PM	11:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	EPOST	MPOST	LPOST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	97 F	90 F	84 F
% Relative Humidity:	36	37	54
Wind Velocity, Unit:	4 MPH	1 MPH	6 MPH
Soil Temp., Unit:	80 F	82 F	78 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	40	0

CROP STAGE AT EACH APPLICATION

	A	B	C
	COTTON	COTTON	COTTON
Stage Scale:	2-4 LF	8 LF	14-16 LF

WEED STAGE AT EACH APPLICATION

	A	B	C
	PIGWEEED	PIGWEEED	PIGWEEED
Stage Scale:	2-4"	12-14"	EMERG-24"

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	TRACTOR	BACKPACK	BACKPACK
Operating Pressure:	30	23	23
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	AIR	CO2	CO2

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code Rating Data Type Rating Unit Rating Date							PIGWEEED CONTROL PERCENT Jul/13/09	DEVILS C CONTROL PERCENT Jul/13/09	PIGWEEED CONTROL PERCENT Jul/20/09	DEVILS C CONTROL PERCENT Jul/20/09	PUNCTURE CONTROL PERCENT Jul/20/09	R THISTL CONTROL PERCENT Jul/20/09	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
TABLE OF R MEANS													
Replicate 1								87.1	84.3	78.3	54.1	47.2	82.9
Replicate 2								85.7	86.0	77.4	55.3	70.6	72.5
Replicate 3								85.8	77.6	78.9	30.3	55.6	88.9
TABLE OF A MEANS													
1 EPOST													
2 MPOST													
								86.2	82.6	85.8	55.1	60.0	88.9
								.	.	70.6	38.0	55.6	74.0
TABLE OF B MEANS													
1 VALOR SX													
2 VALOR SX							0 lb ai/a	0 oz/a					
3 VALOR SX							0.064 lb ai/a	2 oz/a					
								59.1	56.7	54.0	15.3	22.2	55.6
								99.4	96.6	89.6	60.6	66.1	94.4
								100.0	94.7	90.9	63.8	85.0	94.3
TABLE OF C MEANS													
1 GRAMOXONE INTEON							0 lb ai/a	0 oz/a					
1 NIS							0.25 % v/v	3.2 oz/a					
2 GRAMOXONE INTEON							0.125 lb ai/a	8 oz/a					
2 NIS							0.25 % v/v	3.2 oz/a					
3 GRAMOXONE INTEON							0.25 lb ai/a	16 oz/a					
3 NIS							0.25 % v/v	3.2 oz/a					
								66.4	64.8	59.0	40.6	53.9	66.6
								94.8	90.1	83.1	43.5	58.3	77.8
								97.3	93.0	92.5	55.6	61.1	100.0
TABLE OF AB MEANS													
1 EPOST													
1 VALOR SX							0 lb ai/a	0 oz/a					
2 MPOST													
1 VALOR SX							0 lb ai/a	0 oz/a					
1 EPOST													
2 VALOR SX							0.064 lb ai/a	2 oz/a					
2 MPOST													
2 VALOR SX							0.064 lb ai/a	2 oz/a					
1 EPOST													
3 VALOR SX							0.096 lb ai/a	3 oz/a					
2 MPOST													
3 VALOR SX							0.096 lb ai/a	3 oz/a					
								59.1	56.7	59.4	16.7	11.1	66.7
								.	.	48.6	13.9	33.3	44.4
								99.4	96.6	98.6	78.9	68.9	100.0
								.	.	80.7	42.2	63.3	88.9
								100.0	94.7	99.4	69.8	100.0	100.0
								.	.	82.4	57.8	70.0	88.7
TABLE OF AC MEANS													
1 EPOST													
1 GRAMOXONE INTEON							0 lb ai/a	0 oz/a					
1 NIS							0.25 % v/v	3.2 oz/a					
2 MPOST													
1 GRAMOXONE INTEON							0 lb ai/a	0 oz/a					
1 NIS							0.25 % v/v	3.2 oz/a					
1 EPOST													
2 GRAMOXONE INTEON							0.125 lb ai/a	8 oz/a					
2 NIS							0.25 % v/v	3.2 oz/a					
2 MPOST													
2 GRAMOXONE INTEON							0.125 lb ai/a	8 oz/a					
2 NIS							0.25 % v/v	3.2 oz/a					
1 EPOST													
3 GRAMOXONE INTEON							0.25 lb ai/a	16 oz/a					
3 NIS							0.25 % v/v	3.2 oz/a					
2 MPOST													
3 GRAMOXONE INTEON							0.25 lb ai/a	16 oz/a					
3 NIS							0.25 % v/v	3.2 oz/a					
								66.4	64.8	66.4	51.1	46.7	66.7
								.	.	51.6	30.0	61.1	66.4
								94.8	90.1	93.3	50.9	55.6	100.0
								.	.	72.8	36.1	61.1	55.6
								97.3	93.0	97.7	63.3	77.8	100.0
								.	.	87.3	47.8	44.4	100.0
TABLE OF BC MEANS													
1 VALOR SX							0 lb ai/a	0 oz/a					
1 GRAMOXONE INTEON							0 lb ai/a	0 oz/a					
1 NIS							0.25 % v/v	3.2 oz/a					
2 VALOR SX							0.064 lb ai/a	2 oz/a					
1 GRAMOXONE INTEON							0 lb ai/a	0 oz/a					
1 NIS							0.25 % v/v	3.2 oz/a					
								0.0	0.0	0.0	0.0	0.0	0.0
								99.3	98.7	93.7	55.0	70.0	100.0

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PIGWEEED DEVILS C PUNCTURE R THISTL
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/13/09 Jul/13/09 Jul/20/09 Jul/20/09 Jul/20/09 Jul/20/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
3	VALOR SX	0.096	lb ai/a	3	oz/a			100.0	95.7	83.3	66.7	91.7	99.7
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			85.0	80.0	71.7	15.8	33.3	66.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			99.3	95.3	83.3	56.7	55.0	83.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			100.0	95.0	94.2	58.0	86.7	83.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			92.3	90.0	90.3	30.0	33.3	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			99.7	95.7	91.8	70.0	73.3	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			100.0	93.3	95.3	66.7	76.7	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

TABLE OF ABC MEANS

1	EPOST					EPOST A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	99.3	98.7	99.3	86.7	40.0	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	88.0	23.3	100.0	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	95.7	100.0	66.7	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	66.7	66.7	83.3	99.3	99.3
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	85.0	80.0	85.0	16.7	0.0	100.0	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	58.3	15.0	66.7	33.3	33.3
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	99.3	95.3	96.7	66.7	66.7	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	70.0	46.7	43.3	66.7	66.7
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	95.0	98.3	69.3	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PIGWEED DEVILS C PUNCTURE R THISTL
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/13/09 Jul/13/09 Jul/20/09 Jul/20/09 Jul/20/09 Jul/20/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
2	MPOST					MPOST	B	.	.	90.0	46.7	73.3	66.7
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	92.3	90.0	93.3	33.3	33.3	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	.	.	87.3	26.7	33.3	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	99.7	95.7	99.7	83.3	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	.	.	84.0	56.7	46.7	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	100.0	93.3	100.0	73.3	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	.	.	90.7	60.0	53.3	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	126046.537037				
R	2	5.814815	2.907407	1.831	0.2215	1.0
A	1	100276.462963	100276.462963	34489.996	0.0001	2.0
RA	2	5.814815	2.907407	1.831	0.2215	1.4
B	2	4948.481481	2474.240741	893.706	0.0001	1.5
RB	4	11.074074	2.768519	1.743	0.2333	1.7
AB	2	4948.481481	2474.240741	893.706	0.0001	2.2
RAB	4	11.074074	2.768519	1.743	0.2333	2.4
C	2	2645.148148	1322.574074	1115.922	0.0001	1.0
RC	4	4.740741	1.185185	0.746	0.5870	1.7
AC	2	2645.148148	1322.574074	1115.922	0.0001	1.4
RAC	4	4.740741	1.185185	0.746	0.5870	2.4
BC	4	5257.074074	1314.268519	827.644	0.0001	1.7
RBC	8	12.703704	1.587963	1.000	0.5000	2.9
ABC	4	5257.074074	1314.268519	827.644	0.0001	2.4
RABC	8	12.703704	1.587963			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	126046.537037				
R	2	5.814815	2.907407	1.573	0.2222	0.9
A	1	100276.462963	100276.462963	54245.021	0.0001	0.8
B	2	4948.481481	2474.240741	1338.452	0.0001	0.9
AB	2	4948.481481	2474.240741	1338.452	0.0001	1.3
C	2	2645.148148	1322.574074	715.453	0.0001	0.9
AC	2	2645.148148	1322.574074	715.453	0.0001	1.3
BC	4	5257.074074	1314.268519	710.960	0.0001	1.6
ABC	4	5257.074074	1314.268519	710.960	0.0001	2.3
ERROR	34	62.851852	1.848584			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116661.648148				
R	2	180.037037	90.018519	10.043	0.0066	2.3
A	1	92173.351852	92173.351852	1023.938	0.0010	11.1
RA	2	180.037037	90.018519	10.043	0.0066	3.3
B	2	4558.037037	2279.018519	243.697	0.0001	2.8
RB	4	37.407407	9.351852	1.043	0.4423	4.0
AB	2	4558.037037	2279.018519	243.697	0.0001	4.0
RAB	4	37.407407	9.351852	1.043	0.4423	5.6
C	2	2169.925926	1084.962963	52.592	0.0013	4.2
RC	4	82.518519	20.629630	2.302	0.1467	4.0
AC	2	2169.925926	1084.962963	52.592	0.0013	5.9
RAC	4	82.518519	20.629630	2.302	0.1467	5.6
BC	4	5144.518519	1286.129630	143.494	0.0001	4.0
RBC	8	71.703704	8.962963	1.000	0.5000	6.9
ABC	4	5144.518519	1286.129630	143.494	0.0001	5.6
RABC	8	71.703704	8.962963			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116661.648148				
R	2	180.037037	90.018519	5.433	0.0090	2.8
A	1	92173.351852	92173.351852	5563.492	0.0001	2.3
B	2	4558.037037	2279.018519	137.559	0.0001	2.8
AB	2	4558.037037	2279.018519	137.559	0.0001	3.9
C	2	2169.925926	1084.962963	65.487	0.0001	2.8
AC	2	2169.925926	1084.962963	65.487	0.0001	3.9
BC	4	5144.518519	1286.129630	77.630	0.0001	4.8
ABC	4	5144.518519	1286.129630	77.630	0.0001	6.8
ERROR	34	563.296296	16.567538			

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COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	49956.148148				
R	2	20.481481	10.240741	0.265	0.7735	4.8
A	1	3143.407407	3143.407407	90.627	0.0109	6.9
RA	2	69.370370	34.685185	0.898	0.4447	6.8
B	2	15808.925926	7904.462963	126.942	0.0002	7.3
RB	4	249.074074	62.268519	1.613	0.2617	8.3
AB	2	130.703704	65.351852	3.315	0.1416	5.8
RAB	4	78.851852	19.712963	0.510	0.7304	11.7
C	2	10740.703704	5370.351852	117.838	0.0003	6.2
RC	4	182.296296	45.574074	1.180	0.3886	8.3
AC	2	236.037037	118.018519	2.929	0.1647	8.3
RAC	4	161.185185	40.296296	1.044	0.4422	11.7
BC	4	17438.851852	4359.712963	140.741	0.0001	7.4
RBC	8	247.814815	30.976852	0.802	0.6186	14.3
ABC	4	1139.518519	284.879630	7.377	0.0086	11.7
RABC	8	308.925926	38.615741			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	49956.148148				
R	2	20.481481	10.240741	0.268	0.7662	4.2
A	1	3143.407407	3143.407407	82.369	0.0001	3.4
B	2	15808.925926	7904.462963	207.128	0.0001	4.2
AB	2	130.703704	65.351852	1.712	0.1956	5.9
C	2	10740.703704	5370.351852	140.724	0.0001	4.2
AC	2	236.037037	118.018519	3.093	0.0583	5.9
BC	4	17438.851852	4359.712963	114.241	0.0001	7.3
ABC	4	1139.518519	284.879630	7.465	0.0002	10.3
ERROR	34	1297.518519	38.162309			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	56431.425926				
R	2	7151.259259	3575.629630	95.871	0.0001	4.7
A	1	3969.796296	3969.796296	3.236	0.2138	41.0
RA	2	2453.481481	1226.740741	32.892	0.0001	6.6
B	2	26476.259259	13238.129630	16.472	0.0117	26.2
RB	4	3214.740741	803.685185	21.549	0.0002	8.1
AB	2	2762.925926	1381.462963	3.256	0.1448	27.0
RAB	4	1696.962963	424.240741	11.375	0.0022	11.5
C	2	2274.037037	1137.018519	20.645	0.0078	6.9
RC	4	220.296296	55.074074	1.477	0.2956	8.1
AC	2	107.370370	53.685185	0.253	0.7881	19.1
RAC	4	849.185185	212.296296	5.692	0.0181	11.5
BC	4	1540.296296	385.074074	2.103	0.1722	18.0
RBC	8	1465.037037	183.129630	4.910	0.0186	14.1
ABC	4	1951.407407	487.851852	13.080	0.0014	11.5
RABC	8	298.370370	37.296296			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	56431.425926				
R	2	7151.259259	3575.629630	11.921	0.0001	11.8
A	1	3969.796296	3969.796296	13.235	0.0009	9.6
B	2	26476.259259	13238.129630	44.135	0.0001	11.8
AB	2	2762.925926	1381.462963	4.606	0.0170	16.7
C	2	2274.037037	1137.018519	3.791	0.0326	11.8
AC	2	107.370370	53.685185	0.179	0.8369	16.7
BC	4	1540.296296	385.074074	1.284	0.2956	20.4
ABC	4	1951.407407	487.851852	1.626	0.1901	28.9
ERROR	34	10198.074074	299.943355			

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COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116333.333333				
R	2	5033.333333	2516.666667	1.185	0.3542	35.4
A	1	266.666667	266.666667	0.593	0.5219	24.8
RA	2	900.000000	450.000000	0.212	0.8134	50.1
B	2	37344.444444	18672.222222	17.551	0.0105	30.2
RB	4	4255.555556	1063.888889	0.501	0.7366	61.4
AB	2	6144.444444	3072.222222	6.179	0.0598	29.2
RAB	4	1988.888889	497.222222	0.234	0.9114	86.8
C	2	477.777778	238.888889	0.465	0.6584	21.0
RC	4	2055.555556	513.888889	0.242	0.9067	61.4
AC	2	5811.111111	2905.555556	2.105	0.2374	48.6
RAC	4	5522.222222	1380.555556	0.650	0.6427	86.8
BC	4	5811.111111	1452.777778	0.827	0.5437	55.8
RBC	8	14055.555556	1756.944444	0.827	0.6024	106.3
ABC	4	9677.777778	2419.444444	1.139	0.4039	86.8
RABC	8	16988.888889	2123.611111			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116333.333333				
R	2	5033.333333	2516.666667	1.870	0.1697	25.0
A	1	266.666667	266.666667	0.198	0.6591	20.4
B	2	37344.444444	18672.222222	13.872	0.0001	25.0
AB	2	6144.444444	3072.222222	2.282	0.1175	35.3
C	2	477.777778	238.888889	0.177	0.8382	25.0
AC	2	5811.111111	2905.555556	2.159	0.1311	35.3
BC	4	5811.111111	1452.777778	1.079	0.3821	43.3
ABC	4	9677.777778	2419.444444	1.797	0.1521	61.2
ERROR	34	45766.666667	1346.078431			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	80461.333333				
R	2	2478.111111	1239.055556	7.107	0.0168	10.1
A	1	2992.666667	2992.666667	2.415	0.2604	41.2
RA	2	2478.111111	1239.055556	7.107	0.0168	14.4
B	2	18096.444444	9048.222222	53.347	0.0013	12.1
RB	4	678.444444	169.611111	0.973	0.4730	17.6
AB	2	363.111111	181.555556	1.070	0.4243	17.0
RAB	4	678.444444	169.611111	0.973	0.4730	24.9
C	2	10429.777778	5214.888889	4.193	0.1043	32.6
RC	4	4975.111111	1243.777778	7.134	0.0095	17.6
AC	2	5896.444444	2948.222222	2.370	0.2094	46.2
RAC	4	4975.111111	1243.777778	7.134	0.0095	24.9
BC	4	22881.777778	5720.444444	32.813	0.0001	17.6
RBC	8	1394.666667	174.333333	1.000	0.5000	30.4
ABC	4	748.444444	187.111111	1.073	0.4299	24.9
RABC	8	1394.666667	174.333333			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	80461.333333				
R	2	2478.111111	1239.055556	2.542	0.0936	15.0
A	1	2992.666667	2992.666667	6.139	0.0184	12.3
B	2	18096.444444	9048.222222	18.561	0.0001	15.0
AB	2	363.111111	181.555556	0.372	0.6918	21.3
C	2	10429.777778	5214.888889	10.697	0.0002	15.0
AC	2	5896.444444	2948.222222	6.048	0.0057	21.3
BC	4	22881.777778	5720.444444	11.735	0.0001	26.0
ABC	4	748.444444	187.111111	0.384	0.8186	36.8
ERROR	34	16574.555556	487.486928			

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Weed Code Rating Data Type Rating Unit Rating Date							PIGWEEED CONTROL PERCENT Jul/27/09	DEVILS C CONTROL PERCENT Jul/27/09	PUNCTURE CONTROL PERCENT Jul/27/09	R THISTL CONTROL PERCENT Jul/27/09	PIGWEEED CONTROL PERCENT Aug/03/09	DEVILS C CONTROL PERCENT Aug/03/09	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
TABLE OF R MEANS													
Replicate 1								76.9	49.7	50.6	76.1	73.9	45.6
Replicate 2								75.7	55.2	67.2	71.7	71.7	50.1
Replicate 3								76.6	34.7	49.4	78.9	72.8	28.9
TABLE OF A MEANS													
1 EPOST							EPOST A	84.1	57.0	55.9	85.2	81.9	53.4
2 MPOST							MPOST B	68.7	36.1	55.6	65.9	63.7	29.6
TABLE OF B MEANS													
1 VALOR SX		0 lb ai/a		0 oz/a									
2 VALOR SX		0.064 lb ai/a		2 oz/a									
3 VALOR SX		0.096 lb ai/a		3 oz/a									
								48.5	10.0	22.2	50.0	42.2	9.2
								91.0	62.2	67.5	86.1	87.5	54.7
								89.7	67.4	77.5	90.6	88.6	60.7
TABLE OF C MEANS													
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
								57.6	41.4	53.1	59.4	56.1	34.6
								79.8	43.6	56.7	72.2	74.7	39.4
								91.8	54.7	57.5	95.0	87.5	50.6
TABLE OF AB MEANS													
1 EPOST							EPOST A	53.7	11.7	11.1	55.6	47.2	12.8
1 VALOR SX		0 lb ai/a		0 oz/a									
2 MPOST							MPOST B	43.3	8.3	33.3	44.4	37.2	5.6
1 VALOR SX		0 lb ai/a		0 oz/a									
1 EPOST							EPOST A	98.8	81.1	67.2	100.0	98.3	76.1
2 VALOR SX		0.064 lb ai/a		2 oz/a									
2 MPOST							MPOST B	83.2	43.3	67.8	72.2	76.7	33.3
2 VALOR SX		0.064 lb ai/a		2 oz/a									
1 EPOST							EPOST A	99.8	78.2	89.4	100.0	100.0	71.3
3 VALOR SX		0.096 lb ai/a		3 oz/a									
2 MPOST							MPOST B	79.6	56.7	65.6	81.1	77.2	50.0
3 VALOR SX		0.096 lb ai/a		3 oz/a									
TABLE OF AC MEANS													
1 EPOST							EPOST A	66.6	53.9	45.0	66.7	66.1	46.9
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST							MPOST B	48.7	28.9	61.1	52.2	46.1	22.2
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
1 EPOST							EPOST A	89.2	54.3	55.6	88.9	84.4	50.0
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST							MPOST B	70.3	32.8	57.8	55.6	65.0	28.9
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
1 EPOST							EPOST A	96.4	62.8	67.2	100.0	95.0	63.3
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST							MPOST B	87.1	46.7	47.8	90.0	80.0	37.8
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
TABLE OF BC MEANS													
1 VALOR SX		0 lb ai/a		0 oz/a									
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 VALOR SX		0.064 lb ai/a		2 oz/a									
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
3 VALOR SX		0.096 lb ai/a		3 oz/a									
								0.0	0.0	0.0	0.0	0.0	0.0
								92.5	55.0	67.5	86.7	89.2	46.7
								80.3	69.2	91.7	91.7	79.2	57.0
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									

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Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED CONTROL PERCENT Jul/27/09	DEVILS C CONTROL PERCENT Jul/27/09	PUNCTURE CONTROL PERCENT Jul/27/09	R THISTL CONTROL PERCENT Jul/27/09	PIGWEEED CONTROL PERCENT Aug/03/09	DEVILS C CONTROL PERCENT Aug/03/09
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Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	VALOR SX	0	lb ai/a	0	oz/a			58.8	8.3	33.3	50.0	50.0	5.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			87.5	58.3	51.7	86.7	82.5	53.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			93.0	64.0	85.0	80.0	91.7	60.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			86.7	21.7	33.3	100.0	76.7	22.5
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			93.0	73.3	83.3	85.0	90.8	64.2
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			95.7	69.2	55.8	100.0	95.0	65.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

TABLE OF ABC MEANS

1	EPOST					EPOST A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	99.7	83.3	35.0	100.0	98.3	76.7	76.7
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	85.3	26.7	100.0	73.3	80.0	16.7	16.7
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	78.3	100.0	100.0	100.0	64.0	64.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	60.7	60.0	83.3	83.3	58.3	50.0	50.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	71.0	8.3	0.0	66.7	56.7	3.3	3.3
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	46.7	8.3	66.7	33.3	43.3	6.7	6.7
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	96.7	70.0	66.7	100.0	96.7	66.7	66.7
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	78.3	46.7	36.7	73.3	68.3	40.0	40.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	84.7	100.0	100.0	100.0	80.0	80.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	86.0	43.3	70.0	60.0	83.3	40.0	40.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PUNCTURE R THISTL PIGWEED DEVILS C
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/27/09 Jul/27/09 Jul/27/09 Jul/27/09 Aug/03/09 Aug/03/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	EPOST					EPOST	A	90.0	26.7	33.3	100.0	85.0	35.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	83.3	16.7	33.3	100.0	68.3	10.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	100.0	90.0	100.0	100.0	100.0	85.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	86.0	56.7	66.7	70.0	81.7	43.3
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	99.3	71.7	68.3	100.0	100.0	70.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	92.0	66.7	43.3	100.0	90.0	60.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	53034.833333				
R	2	15.444444	7.722222	0.080	0.9240	7.6
A	1	3189.351852	3189.351852	24.913	0.0379	13.3
RA	2	256.037037	128.018519	1.323	0.3189	10.7
B	2	21016.333333	10508.166667	84.478	0.0005	10.3
RB	4	497.555556	124.388889	1.285	0.3523	13.1
AB	2	220.259259	110.129630	3.375	0.1384	7.5
RAB	4	130.518519	32.629630	0.337	0.8457	18.5
C	2	10816.333333	5408.166667	42.426	0.0020	10.4
RC	4	509.888889	127.472222	1.317	0.3421	13.1
AC	2	248.259259	124.129630	3.700	0.1231	7.6
RAC	4	134.185185	33.546296	0.347	0.8394	18.5
BC	4	13594.333333	3398.583333	50.968	0.0001	10.9
RBC	8	533.444444	66.680556	0.689	0.6947	22.7
ABC	4	1098.629630	274.657407	2.838	0.0977	18.5
RABC	8	774.259259	96.782407			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	53034.833333				
R	2	15.444444	7.722222	0.093	0.9118	6.2
A	1	3189.351852	3189.351852	38.238	0.0001	5.1
B	2	21016.333333	10508.166667	125.984	0.0001	6.2
AB	2	220.259259	110.129630	1.320	0.2804	8.8
C	2	10816.333333	5408.166667	64.840	0.0001	6.2
AC	2	248.259259	124.129630	1.488	0.2401	8.8
BC	4	13594.333333	3398.583333	40.746	0.0001	10.8
ABC	4	1098.629630	274.657407	3.293	0.0220	15.2
ERROR	34	2835.888889	83.408497			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	65485.333333				
R	2	4053.000000	2026.500000	7.007	0.0174	13.1
A	1	5890.666667	5890.666667	5.402	0.1457	38.7
RA	2	2180.777778	1090.388889	3.770	0.0702	18.5
B	2	36325.777778	18162.888889	59.719	0.0011	16.1
RB	4	1216.555556	304.138889	1.052	0.4388	22.6
AB	2	2672.444444	1336.222222	6.273	0.0584	19.1
RAB	4	852.111111	213.027778	0.737	0.5924	32.0
C	2	1843.000000	921.500000	8.234	0.0382	9.8
RC	4	447.666667	111.916667	0.387	0.8125	22.6
AC	2	180.777778	90.388889	0.145	0.8698	32.7
RAC	4	2502.111111	625.527778	2.163	0.1640	32.0
BC	4	841.555556	210.388889	0.715	0.6048	22.8
RBC	8	2354.777778	294.347222	1.018	0.4904	39.2
ABC	4	1810.444444	452.611111	1.565	0.2730	32.0
RABC	8	2313.666667	289.208333			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	65485.333333				
R	2	4053.000000	2026.500000	5.806	0.0068	12.7
A	1	5890.666667	5890.666667	16.876	0.0002	10.4
B	2	36325.777778	18162.888889	52.035	0.0001	12.7
AB	2	2672.444444	1336.222222	3.828	0.0317	18.0
C	2	1843.000000	921.500000	2.640	0.0859	12.7
AC	2	180.777778	90.388889	0.259	0.7734	18.0
BC	4	841.555556	210.388889	0.603	0.6633	22.0
ABC	4	1810.444444	452.611111	1.297	0.2908	31.1
ERROR	34	11867.666667	349.049020			

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COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	117270.370370				
R	2	3570.370370	1785.185185	0.915	0.4388	34.0
A	1	1.851852	1.851852	0.001	0.9749	45.0
RA	2	2948.148148	1474.074074	0.755	0.5007	48.0
B	2	31234.259259	15617.129630	14.447	0.0148	30.4
RB	4	4324.074074	1081.018519	0.554	0.7024	58.8
AB	2	4789.814815	2394.907407	5.037	0.0808	28.5
RAB	4	1901.851852	475.462963	0.244	0.9057	83.2
C	2	200.925926	100.462963	0.392	0.6989	14.8
RC	4	1024.074074	256.018519	0.131	0.9666	58.8
AC	2	2889.814815	1444.907407	0.433	0.6755	75.6
RAC	4	13335.185185	3333.796296	1.708	0.2406	83.2
BC	4	11610.185185	2902.546296	1.817	0.2190	53.2
RBC	8	12781.481481	1597.685185	0.819	0.6081	101.9
ABC	4	11043.518519	2760.879630	1.414	0.3128	83.2
RABC	8	15614.814815	1951.851852			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	117270.370370				
R	2	3570.370370	1785.185185	1.169	0.3229	26.6
A	1	1.851852	1.851852	0.001	0.9724	21.7
B	2	31234.259259	15617.129630	10.225	0.0003	26.6
AB	2	4789.814815	2394.907407	1.568	0.2232	37.6
C	2	200.925926	100.462963	0.066	0.9365	26.6
AC	2	2889.814815	1444.907407	0.946	0.3983	37.6
BC	4	11610.185185	2902.546296	1.900	0.1330	46.1
ABC	4	11043.518519	2760.879630	1.808	0.1501	65.2
ERROR	34	51929.629630	1527.342048			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	86133.333333				
R	2	477.777778	238.888889	0.296	0.7513	21.8
A	1	5007.407407	5007.407407	3.042	0.2233	47.5
RA	2	3292.592593	1646.296296	2.043	0.1920	30.9
B	2	17811.111111	8905.555556	47.851	0.0016	12.6
RB	4	744.444444	186.111111	0.231	0.9134	37.8
AB	2	625.925926	312.962963	0.527	0.6262	31.9
RAB	4	2374.074074	593.518519	0.736	0.5926	53.5
C	2	11677.777778	5838.888889	7.672	0.0428	25.5
RC	4	3044.444444	761.111111	0.944	0.4861	37.8
AC	2	1381.481481	690.740741	0.303	0.7542	62.5
RAC	4	9118.518519	2279.629630	2.828	0.0984	53.5
BC	4	19544.444444	4886.111111	10.758	0.0026	28.4
RBC	8	3633.333333	454.166667	0.563	0.7827	65.5
ABC	4	951.851852	237.962963	0.295	0.8731	53.5
RABC	8	6448.148148	806.018519			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	86133.333333				
R	2	477.777778	238.888889	0.283	0.7549	19.8
A	1	5007.407407	5007.407407	5.941	0.0202	16.1
B	2	17811.111111	8905.555556	10.566	0.0003	19.8
AB	2	625.925926	312.962963	0.371	0.6926	27.9
C	2	11677.777778	5838.888889	6.928	0.0030	19.8
AC	2	1381.481481	690.740741	0.820	0.4491	27.9
BC	4	19544.444444	4886.111111	5.797	0.0011	34.2
ABC	4	951.851852	237.962963	0.282	0.8874	48.4
ERROR	34	28655.555556	842.810458			

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COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	54433.333333				
R	2	44.444444	22.222222	0.160	0.8549	9.1
A	1	4446.296296	4446.296296	24.753	0.0381	15.7
RA	2	359.259259	179.629630	1.292	0.3263	12.8
B	2	25219.444444	12609.722222	64.850	0.0009	12.9
RB	4	777.777778	194.444444	1.399	0.3173	15.7
AB	2	450.925926	225.462963	8.855	0.0339	6.6
RAB	4	101.851852	25.462963	0.183	0.9407	22.2
C	2	8969.444444	4484.722222	23.830	0.0060	12.7
RC	4	752.777778	188.194444	1.354	0.3306	15.7
AC	2	67.592593	33.796296	1.227	0.3841	6.9
RAC	4	110.185185	27.546296	0.198	0.9324	22.2
BC	4	10277.777778	2569.444444	32.035	0.0001	11.9
RBC	8	641.666667	80.208333	0.577	0.7732	27.2
ABC	4	1101.851852	275.462963	1.982	0.1904	22.2
RABC	8	1112.037037	139.004630			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	54433.333333				
R	2	44.444444	22.222222	0.196	0.8230	7.2
A	1	4446.296296	4446.296296	39.209	0.0001	5.9
B	2	25219.444444	12609.722222	111.198	0.0001	7.2
AB	2	450.925926	225.462963	1.988	0.1525	10.3
C	2	8969.444444	4484.722222	39.548	0.0001	7.2
AC	2	67.592593	33.796296	0.298	0.7442	10.3
BC	4	10277.777778	2569.444444	22.659	0.0001	12.6
ABC	4	1101.851852	275.462963	2.429	0.0666	17.8
ERROR	34	3855.555556	113.398693			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	66579.481481				
R	2	4493.481481	2246.740741	7.234	0.0161	13.5
A	1	7632.666667	7632.666667	5.246	0.1491	44.7
RA	2	2909.777778	1454.888889	4.684	0.0450	19.2
B	2	28577.370370	14288.685185	18.000	0.0100	26.1
RB	4	3175.296296	793.824074	2.556	0.1205	23.5
AB	2	2884.777778	1442.388889	2.595	0.1895	30.9
RAB	4	2223.444444	555.861111	1.790	0.2241	33.2
C	2	2420.148148	1210.074074	4.555	0.0931	15.1
RC	4	1062.518519	265.629630	0.855	0.5292	23.5
AC	2	49.777778	24.888889	0.048	0.9537	29.8
RAC	4	2075.111111	518.777778	1.670	0.2487	33.2
BC	4	386.962963	96.740741	0.198	0.9323	29.4
RBC	8	3901.703704	487.712963	1.570	0.2689	40.6
ABC	4	2301.777778	575.444444	1.853	0.2123	33.2
RABC	8	2484.666667	310.583333			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	66579.481481				
R	2	4493.481481	2246.740741	4.284	0.0219	15.6
A	1	7632.666667	7632.666667	14.553	0.0005	12.7
B	2	28577.370370	14288.685185	27.243	0.0001	15.6
AB	2	2884.777778	1442.388889	2.750	0.0782	22.0
C	2	2420.148148	1210.074074	2.307	0.1149	15.6
AC	2	49.777778	24.888889	0.047	0.9537	22.0
BC	4	386.962963	96.740741	0.184	0.9449	27.0
ABC	4	2301.777778	575.444444	1.097	0.3737	38.2
ERROR	34	17832.518519	524.485839			

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Weed Code Rating Data Type Rating Unit Rating Date								PUNCTURE CONTROL PERCENT Aug/03/09	R THISTL CONTROL PERCENT Aug/03/09	PIGWEEED CONTROL PERCENT Aug/17/09	DEVILS C CONTROL PERCENT Aug/17/09	PUNCTURE CONTROL PERCENT Aug/17/09	R THISTL CONTROL PERCENT Aug/17/09		
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code								
TABLE OF R MEANS															
Replicate 1								47.8	68.1	65.8	45.7	33.3	80.6		
Replicate 2								64.4	74.4	66.5	49.4	53.1	85.3		
Replicate 3								46.7	68.1	69.1	40.0	52.8	85.3		
TABLE OF A MEANS															
1 EPOST															
2 MPOST								55.2	85.2	80.4	61.0	64.8	88.9		
								50.7	55.2	53.9	29.1	28.0	78.5		
TABLE OF B MEANS															
1 VALOR SX								0 lb ai/a	0 oz/a	22.2	51.1	36.7	13.9	14.7	65.6
2 VALOR SX								0.064 lb ai/a	2 oz/a	62.8	77.2	82.3	55.4	43.3	93.3
3 VALOR SX								0.096 lb ai/a	3 oz/a	73.9	82.2	82.4	65.7	81.1	92.2
TABLE OF C MEANS															
1 GRAMOXONE INTEON								0 lb ai/a	0 oz/a	50.6	53.6	49.2	31.8	31.1	55.6
1 NIS								0.25 % v/v	3.2 oz/a						
2 GRAMOXONE INTEON								0.125 lb ai/a	8 oz/a	53.9	66.4	68.2	46.4	45.8	96.7
2 NIS								0.25 % v/v	3.2 oz/a						
3 GRAMOXONE INTEON								0.25 lb ai/a	16 oz/a	54.4	90.6	84.1	56.8	62.2	98.9
3 NIS								0.25 % v/v	3.2 oz/a						
TABLE OF AB MEANS															
1 EPOST									EPOST A	11.1	55.6	42.2	16.1	23.9	66.7
1 VALOR SX								0 lb ai/a	0 oz/a						
2 MPOST									MPOST B	33.3	46.7	31.1	11.7	5.6	64.4
1 VALOR SX								0 lb ai/a	0 oz/a						
1 EPOST									EPOST A	66.7	100.0	99.0	82.6	70.6	100.0
2 VALOR SX								0.064 lb ai/a	2 oz/a						
2 MPOST									MPOST B	58.9	54.4	65.7	28.3	16.1	86.7
2 VALOR SX								0.064 lb ai/a	2 oz/a						
1 EPOST									EPOST A	87.8	100.0	99.9	84.2	100.0	100.0
3 VALOR SX								0.096 lb ai/a	3 oz/a						
2 MPOST									MPOST B	60.0	64.4	65.0	47.2	62.2	84.4
3 VALOR SX								0.096 lb ai/a	3 oz/a						
TABLE OF AC MEANS															
1 EPOST									EPOST A	44.4	66.7	66.7	53.1	48.3	66.7
1 GRAMOXONE INTEON								0 lb ai/a	0 oz/a						
1 NIS								0.25 % v/v	3.2 oz/a						
2 MPOST									MPOST B	56.7	40.6	31.7	10.6	13.9	44.4
1 GRAMOXONE INTEON								0 lb ai/a	0 oz/a						
1 NIS								0.25 % v/v	3.2 oz/a						
1 EPOST									EPOST A	54.4	88.9	83.7	64.4	60.6	100.0
2 GRAMOXONE INTEON								0.125 lb ai/a	8 oz/a						
2 NIS								0.25 % v/v	3.2 oz/a						
2 MPOST									MPOST B	53.3	43.9	52.8	28.3	31.1	93.3
2 GRAMOXONE INTEON								0.125 lb ai/a	8 oz/a						
2 NIS								0.25 % v/v	3.2 oz/a						
1 EPOST									EPOST A	66.7	100.0	90.8	65.3	85.6	100.0
3 GRAMOXONE INTEON								0.25 lb ai/a	16 oz/a						
3 NIS								0.25 % v/v	3.2 oz/a						
2 MPOST									MPOST B	42.2	81.1	77.3	48.3	38.9	97.8
3 GRAMOXONE INTEON								0.25 lb ai/a	16 oz/a						
3 NIS								0.25 % v/v	3.2 oz/a						
TABLE OF BC MEANS															
1 VALOR SX								0 lb ai/a	0 oz/a	0.0	0.0	0.0	0.0	0.0	0.0
1 GRAMOXONE INTEON								0 lb ai/a	0 oz/a						
1 NIS								0.25 % v/v	3.2 oz/a						
2 VALOR SX								0.064 lb ai/a	2 oz/a	65.0	75.0	76.7	47.5	26.7	83.3
1 GRAMOXONE INTEON								0 lb ai/a	0 oz/a						
1 NIS								0.25 % v/v	3.2 oz/a						
3 VALOR SX								0.096 lb ai/a	3 oz/a	86.7	85.8	70.8	48.0	66.7	83.3
1 GRAMOXONE INTEON								0 lb ai/a	0 oz/a						
1 NIS								0.25 % v/v	3.2 oz/a						

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PUNCTURE	R THISTL	PIGWEEED	DEVILS C	PUNCTURE	R THISTL
CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Aug/03/09	Aug/03/09	Aug/17/09	Aug/17/09	Aug/17/09	Aug/17/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	VALOR SX	0	lb ai/a	0	oz/a			33.3	53.3	37.5	15.8	7.5	96.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			45.0	85.0	81.3	51.7	45.8	96.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			83.3	60.8	85.8	71.7	84.2	96.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			33.3	100.0	72.5	25.8	36.7	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			78.3	71.7	89.0	67.2	57.5	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			51.7	100.0	90.7	77.5	92.5	96.7
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

TABLE OF ABC MEANS

1	EPOST					EPOST A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	33.3	100.0	100.0	80.0	45.0	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	96.7	50.0	53.3	15.0	8.3	66.7	66.7
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	100.0	100.0	79.3	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	73.3	71.7	41.7	16.7	33.3	66.7	66.7
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	0.0	66.7	53.3	20.0	15.0	100.0	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	66.7	40.0	21.7	11.7	0.0	93.3	93.3
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	66.7	100.0	97.7	80.0	66.7	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	23.3	70.0	65.0	23.3	25.0	93.3	93.3
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	96.7	100.0	100.0	93.3	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	70.0	21.7	71.7	50.0	68.3	93.3	93.3
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PUNCTURE R THISTL PIGWEED DEVILS C PUNCTURE R THISTL
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Aug/03/09 Aug/03/09 Aug/17/09 Aug/17/09 Aug/17/09 Aug/17/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	EPOST					EPOST	A	33.3	100.0	73.3	28.3	56.7	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	33.3	100.0	71.7	23.3	16.7	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	100.0	100.0	99.3	87.7	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	56.7	43.3	78.7	46.7	15.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	66.7	100.0	99.7	80.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	36.7	100.0	81.7	75.0	85.0	93.3
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	121525.925926				
R	2	3570.370370	1785.185185	0.835	0.4684	35.5
A	1	266.666667	266.666667	0.160	0.7278	47.8
RA	2	3333.333333	1666.666667	0.780	0.4905	50.3
B	2	26625.925926	13312.962963	11.026	0.0236	32.2
RB	4	4829.629630	1207.407407	0.565	0.6954	61.6
AB	2	5700.000000	2850.000000	4.385	0.0981	33.4
RAB	4	2600.000000	650.000000	0.304	0.8674	87.0
C	2	159.259259	79.629630	0.200	0.8268	18.5
RC	4	1596.296296	399.074074	0.187	0.9388	61.6
AC	2	3100.000000	1550.000000	0.450	0.6662	76.8
RAC	4	13766.666667	3441.666667	1.610	0.2622	87.0
BC	4	12140.740741	3035.185185	1.734	0.2352	55.7
RBC	8	14003.703704	1750.462963	0.819	0.6078	106.6
ABC	4	12733.333333	3183.333333	1.489	0.2922	87.0
RABC	8	17100.000000	2137.500000			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	121525.925926				
R	2	3570.370370	1785.185185	1.061	0.3574	27.9
A	1	266.666667	266.666667	0.158	0.6931	22.8
B	2	26625.925926	13312.962963	7.909	0.0015	27.9
AB	2	5700.000000	2850.000000	1.693	0.1991	39.5
C	2	159.259259	79.629630	0.047	0.9539	27.9
AC	2	3100.000000	1550.000000	0.921	0.4079	39.5
BC	4	12140.740741	3035.185185	1.803	0.1510	48.4
ABC	4	12733.333333	3183.333333	1.891	0.1346	68.4
ERROR	34	57229.629630	1683.224401			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	95448.148148				
R	2	489.814815	244.907407	0.242	0.7908	24.5
A	1	12150.000000	12150.000000	21.707	0.0431	27.7
RA	2	1119.444444	559.722222	0.552	0.5960	34.6
B	2	10048.148148	5024.074074	7.578	0.0436	23.8
RB	4	2651.851852	662.962963	0.654	0.6402	42.4
AB	2	3233.333333	1616.666667	9.387	0.0308	17.2
RAB	4	688.888889	172.222222	0.170	0.9477	59.9
C	2	12673.148148	6336.574074	8.966	0.0333	24.6
RC	4	2826.851852	706.712963	0.698	0.6147	42.4
AC	2	1636.111111	818.055556	1.352	0.3559	32.2
RAC	4	2419.444444	604.861111	0.597	0.6752	59.9
BC	4	22668.518519	5667.129630	4.374	0.0363	47.9
RBC	8	10364.814815	1295.601852	1.279	0.3682	73.4
ABC	4	4372.222222	1093.055556	1.079	0.4276	59.9
RABC	8	8105.555556	1013.194444			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	95448.148148				
R	2	489.814815	244.907407	0.296	0.7460	19.6
A	1	12150.000000	12150.000000	14.661	0.0005	16.0
B	2	10048.148148	5024.074074	6.062	0.0056	19.6
AB	2	3233.333333	1616.666667	1.951	0.1578	27.7
C	2	12673.148148	6336.574074	7.646	0.0018	19.6
AC	2	1636.111111	818.055556	0.987	0.3831	27.7
BC	4	22668.518519	5667.129630	6.838	0.0004	33.9
ABC	4	4372.222222	1093.055556	1.319	0.2827	48.0
ERROR	34	28176.851852	828.730937			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	58920.814815				
R	2	108.037037	54.018519	0.767	0.4959	6.5
A	1	9440.666667	9440.666667	36.210	0.0265	18.9
RA	2	521.444444	260.722222	3.700	0.0728	9.1
B	2	25086.370370	12543.185185	123.151	0.0003	9.3
RB	4	407.407407	101.851852	1.446	0.3040	11.2
AB	2	1592.444444	796.222222	84.306	0.0005	4.0
RAB	4	37.777778	9.444444	0.134	0.9653	15.8
C	2	10986.259259	5493.129630	60.947	0.0010	8.8
RC	4	360.518519	90.129630	1.279	0.3543	11.2
AC	2	1178.777778	589.388889	24.445	0.0057	6.4
RAC	4	96.444444	24.111111	0.342	0.8423	15.8
BC	4	6537.518519	1634.379630	32.308	0.0001	9.5
RBC	8	404.703704	50.587963	0.718	0.6748	19.4
ABC	4	1598.777778	399.694444	5.673	0.0183	15.8
RABC	8	563.666667	70.458333			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	58920.814815				
R	2	108.037037	54.018519	0.768	0.4719	5.7
A	1	9440.666667	9440.666667	134.192	0.0001	4.7
B	2	25086.370370	12543.185185	178.292	0.0001	5.7
AB	2	1592.444444	796.222222	11.318	0.0002	8.1
C	2	10986.259259	5493.129630	78.081	0.0001	5.7
AC	2	1178.777778	589.388889	8.378	0.0011	8.1
BC	4	6537.518519	1634.379630	23.232	0.0001	9.9
ABC	4	1598.777778	399.694444	5.681	0.0013	14.0
ERROR	34	2391.962963	70.351852			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	62100.981481				
R	2	804.703704	402.351852	3.342	0.0881	8.4
A	1	13728.166667	13728.166667	29.456	0.0323	25.3
RA	2	932.111111	466.055556	3.872	0.0667	11.9
B	2	27115.148148	13557.574074	32.670	0.0033	18.9
RB	4	1659.962963	414.990741	3.447	0.0642	14.6
AB	2	5751.444444	2875.722222	26.057	0.0051	13.7
RAB	4	441.444444	110.361111	0.917	0.4990	20.7
C	2	5675.703704	2837.851852	56.360	0.0012	6.6
RC	4	201.407407	50.351852	0.418	0.7915	14.6
AC	2	1589.777778	794.888889	3.526	0.1310	19.6
RAC	4	901.777778	225.444444	1.873	0.2087	20.7
BC	4	577.962963	144.490741	4.352	0.0368	7.7
RBC	8	265.592593	33.199074	0.276	0.9565	25.3
ABC	4	1492.777778	373.194444	3.100	0.0811	20.7
RABC	8	963.000000	120.375000			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	62100.981481				
R	2	804.703704	402.351852	2.550	0.0929	8.6
A	1	13728.166667	13728.166667	86.996	0.0001	7.0
B	2	27115.148148	13557.574074	85.915	0.0001	8.6
AB	2	5751.444444	2875.722222	18.224	0.0001	12.1
C	2	5675.703704	2837.851852	17.984	0.0001	8.6
AC	2	1589.777778	794.888889	5.037	0.0121	12.1
BC	4	577.962963	144.490741	0.916	0.4661	14.8
ABC	4	1492.777778	373.194444	2.365	0.0724	20.9
ERROR	34	5365.296296	157.802832			

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code	PIGWEEED	DEVILS C	PIGWEEED	DEVILS C	PUNCTURE	R THISTL
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/13/09	Jul/13/09	Jul/20/09	Jul/20/09	Jul/20/09	Jul/20/09

Trt No.	Treatment Name	Rate	Product	Product	Grow	Appl
		Rate	Rate	Rate	Stg	Code

TABLE OF R MEANS

Replicate 1	87.1	84.3	78.3	54.1	47.2	82.9
Replicate 2	85.7	86.0	77.4	55.3	70.6	72.5
Replicate 3	85.8	77.6	78.9	30.3	55.6	88.9

TABLE OF A MEANS

1 EPOST	EPOST A	86.2	82.6	85.8	55.1	60.0	88.9
2 MPOST	MPOST B	.	.	70.6	38.0	55.6	74.0

TABLE OF B MEANS

1 VALOR SX	0 lb ai/a	0 oz/a	59.1	56.7	54.0	15.3	22.2	55.6
2 VALOR SX	0.064 lb ai/a	2 oz/a	99.4	96.6	89.6	60.6	66.1	94.4
3 VALOR SX	0.096 lb ai/a	3 oz/a	100.0	94.7	90.9	63.8	85.0	94.3

TABLE OF C MEANS

1 GRAMOXONE INTEON	0 lb ai/a	0 oz/a	66.4	64.8	59.0	40.6	53.9	66.6
1 NIS	0.25 % v/v	3.2 oz/a						
2 GRAMOXONE INTEON	0.125 lb ai/a	8 oz/a	94.8	90.1	83.1	43.5	58.3	77.8
2 NIS	0.25 % v/v	3.2 oz/a						
3 GRAMOXONE INTEON	0.25 lb ai/a	16 oz/a	97.3	93.0	92.5	55.6	61.1	100.0
3 NIS	0.25 % v/v	3.2 oz/a						

TABLE OF AB MEANS

1 EPOST			EPOST A	59.1	56.7	59.4	16.7	11.1	66.7
1 VALOR SX	0 lb ai/a	0 oz/a							
2 MPOST			MPOST B	.	.	48.6	13.9	33.3	44.4
1 VALOR SX	0 lb ai/a	0 oz/a							
1 EPOST			EPOST A	99.4	96.6	98.6	78.9	68.9	100.0
2 VALOR SX	0.064 lb ai/a	2 oz/a							
2 MPOST			MPOST B	.	.	80.7	42.2	63.3	88.9
2 VALOR SX	0.064 lb ai/a	2 oz/a							
1 EPOST			EPOST A	100.0	94.7	99.4	69.8	100.0	100.0
3 VALOR SX	0.096 lb ai/a	3 oz/a							
2 MPOST			MPOST B	.	.	82.4	57.8	70.0	88.7
3 VALOR SX	0.096 lb ai/a	3 oz/a							

TABLE OF AC MEANS

1 EPOST			EPOST A	66.4	64.8	66.4	51.1	46.7	66.7
1 GRAMOXONE INTEON	0 lb ai/a	0 oz/a							
1 NIS	0.25 % v/v	3.2 oz/a							
2 MPOST			MPOST B	.	.	51.6	30.0	61.1	66.4
1 GRAMOXONE INTEON	0 lb ai/a	0 oz/a							
1 NIS	0.25 % v/v	3.2 oz/a							
1 EPOST			EPOST A	94.8	90.1	93.3	50.9	55.6	100.0
2 GRAMOXONE INTEON	0.125 lb ai/a	8 oz/a							
2 NIS	0.25 % v/v	3.2 oz/a							
2 MPOST			MPOST B	.	.	72.8	36.1	61.1	55.6
2 GRAMOXONE INTEON	0.125 lb ai/a	8 oz/a							
2 NIS	0.25 % v/v	3.2 oz/a							
1 EPOST			EPOST A	97.3	93.0	97.7	63.3	77.8	100.0
3 GRAMOXONE INTEON	0.25 lb ai/a	16 oz/a							
3 NIS	0.25 % v/v	3.2 oz/a							
2 MPOST			MPOST B	.	.	87.3	47.8	44.4	100.0
3 GRAMOXONE INTEON	0.25 lb ai/a	16 oz/a							
3 NIS	0.25 % v/v	3.2 oz/a							

TABLE OF BC MEANS

1 VALOR SX	0 lb ai/a	0 oz/a		0.0	0.0	0.0	0.0	0.0	0.0
1 GRAMOXONE INTEON	0 lb ai/a	0 oz/a							
1 NIS	0.25 % v/v	3.2 oz/a							
2 VALOR SX	0.064 lb ai/a	2 oz/a		99.3	98.7	93.7	55.0	70.0	100.0
1 GRAMOXONE INTEON	0 lb ai/a	0 oz/a							
1 NIS	0.25 % v/v	3.2 oz/a							

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PIGWEEED DEVILS C PUNCTURE R THISTL
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/13/09 Jul/13/09 Jul/20/09 Jul/20/09 Jul/20/09 Jul/20/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
3	VALOR SX	0.096	lb ai/a	3	oz/a			100.0	95.7	83.3	66.7	91.7	99.7
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			85.0	80.0	71.7	15.8	33.3	66.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			99.3	95.3	83.3	56.7	55.0	83.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			100.0	95.0	94.2	58.0	86.7	83.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			92.3	90.0	90.3	30.0	33.3	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			99.7	95.7	91.8	70.0	73.3	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			100.0	93.3	95.3	66.7	76.7	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

TABLE OF ABC MEANS

1	EPOST					EPOST A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	99.3	98.7	99.3	86.7	40.0	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	88.0	23.3	100.0	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	95.7	100.0	66.7	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	66.7	66.7	83.3	99.3	99.3
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	85.0	80.0	85.0	16.7	0.0	100.0	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	58.3	15.0	66.7	33.3	33.3
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	99.3	95.3	96.7	66.7	66.7	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST B	.	.	70.0	46.7	43.3	66.7	66.7
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST A	100.0	95.0	98.3	69.3	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PIGWEED DEVILS C PUNCTURE R THISTL
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/13/09 Jul/13/09 Jul/20/09 Jul/20/09 Jul/20/09 Jul/20/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
2	MPOST					MPOST	B	.	.	90.0	46.7	73.3	66.7
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	92.3	90.0	93.3	33.3	33.3	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	.	.	87.3	26.7	33.3	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	99.7	95.7	99.7	83.3	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	.	.	84.0	56.7	46.7	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	100.0	93.3	100.0	73.3	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	.	.	90.7	60.0	53.3	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

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VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	126046.537037				
R	2	5.814815	2.907407	1.831	0.2215	1.0
A	1	100276.462963	100276.462963	34489.996	0.0001	2.0
RA	2	5.814815	2.907407	1.831	0.2215	1.4
B	2	4948.481481	2474.240741	893.706	0.0001	1.5
RB	4	11.074074	2.768519	1.743	0.2333	1.7
AB	2	4948.481481	2474.240741	893.706	0.0001	2.2
RAB	4	11.074074	2.768519	1.743	0.2333	2.4
C	2	2645.148148	1322.574074	1115.922	0.0001	1.0
RC	4	4.740741	1.185185	0.746	0.5870	1.7
AC	2	2645.148148	1322.574074	1115.922	0.0001	1.4
RAC	4	4.740741	1.185185	0.746	0.5870	2.4
BC	4	5257.074074	1314.268519	827.644	0.0001	1.7
RBC	8	12.703704	1.587963	1.000	0.5000	2.9
ABC	4	5257.074074	1314.268519	827.644	0.0001	2.4
RABC	8	12.703704	1.587963			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	126046.537037				
R	2	5.814815	2.907407	1.573	0.2222	0.9
A	1	100276.462963	100276.462963	54245.021	0.0001	0.8
B	2	4948.481481	2474.240741	1338.452	0.0001	0.9
AB	2	4948.481481	2474.240741	1338.452	0.0001	1.3
C	2	2645.148148	1322.574074	715.453	0.0001	0.9
AC	2	2645.148148	1322.574074	715.453	0.0001	1.3
BC	4	5257.074074	1314.268519	710.960	0.0001	1.6
ABC	4	5257.074074	1314.268519	710.960	0.0001	2.3
ERROR	34	62.851852	1.848584			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116661.648148				
R	2	180.037037	90.018519	10.043	0.0066	2.3
A	1	92173.351852	92173.351852	1023.938	0.0010	11.1
RA	2	180.037037	90.018519	10.043	0.0066	3.3
B	2	4558.037037	2279.018519	243.697	0.0001	2.8
RB	4	37.407407	9.351852	1.043	0.4423	4.0
AB	2	4558.037037	2279.018519	243.697	0.0001	4.0
RAB	4	37.407407	9.351852	1.043	0.4423	5.6
C	2	2169.925926	1084.962963	52.592	0.0013	4.2
RC	4	82.518519	20.629630	2.302	0.1467	4.0
AC	2	2169.925926	1084.962963	52.592	0.0013	5.9
RAC	4	82.518519	20.629630	2.302	0.1467	5.6
BC	4	5144.518519	1286.129630	143.494	0.0001	4.0
RBC	8	71.703704	8.962963	1.000	0.5000	6.9
ABC	4	5144.518519	1286.129630	143.494	0.0001	5.6
RABC	8	71.703704	8.962963			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Jul/13/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116661.648148				
R	2	180.037037	90.018519	5.433	0.0090	2.8
A	1	92173.351852	92173.351852	5563.492	0.0001	2.3
B	2	4558.037037	2279.018519	137.559	0.0001	2.8
AB	2	4558.037037	2279.018519	137.559	0.0001	3.9
C	2	2169.925926	1084.962963	65.487	0.0001	2.8
AC	2	2169.925926	1084.962963	65.487	0.0001	3.9
BC	4	5144.518519	1286.129630	77.630	0.0001	4.8
ABC	4	5144.518519	1286.129630	77.630	0.0001	6.8
ERROR	34	563.296296	16.567538			

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COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	49956.148148				
R	2	20.481481	10.240741	0.265	0.7735	4.8
A	1	3143.407407	3143.407407	90.627	0.0109	6.9
RA	2	69.370370	34.685185	0.898	0.4447	6.8
B	2	15808.925926	7904.462963	126.942	0.0002	7.3
RB	4	249.074074	62.268519	1.613	0.2617	8.3
AB	2	130.703704	65.351852	3.315	0.1416	5.8
RAB	4	78.851852	19.712963	0.510	0.7304	11.7
C	2	10740.703704	5370.351852	117.838	0.0003	6.2
RC	4	182.296296	45.574074	1.180	0.3886	8.3
AC	2	236.037037	118.018519	2.929	0.1647	8.3
RAC	4	161.185185	40.296296	1.044	0.4422	11.7
BC	4	17438.851852	4359.712963	140.741	0.0001	7.4
RBC	8	247.814815	30.976852	0.802	0.6186	14.3
ABC	4	1139.518519	284.879630	7.377	0.0086	11.7
RABC	8	308.925926	38.615741			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	49956.148148				
R	2	20.481481	10.240741	0.268	0.7662	4.2
A	1	3143.407407	3143.407407	82.369	0.0001	3.4
B	2	15808.925926	7904.462963	207.128	0.0001	4.2
AB	2	130.703704	65.351852	1.712	0.1956	5.9
C	2	10740.703704	5370.351852	140.724	0.0001	4.2
AC	2	236.037037	118.018519	3.093	0.0583	5.9
BC	4	17438.851852	4359.712963	114.241	0.0001	7.3
ABC	4	1139.518519	284.879630	7.465	0.0002	10.3
ERROR	34	1297.518519	38.162309			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	56431.425926				
R	2	7151.259259	3575.629630	95.871	0.0001	4.7
A	1	3969.796296	3969.796296	3.236	0.2138	41.0
RA	2	2453.481481	1226.740741	32.892	0.0001	6.6
B	2	26476.259259	13238.129630	16.472	0.0117	26.2
RB	4	3214.740741	803.685185	21.549	0.0002	8.1
AB	2	2762.925926	1381.462963	3.256	0.1448	27.0
RAB	4	1696.962963	424.240741	11.375	0.0022	11.5
C	2	2274.037037	1137.018519	20.645	0.0078	6.9
RC	4	220.296296	55.074074	1.477	0.2956	8.1
AC	2	107.370370	53.685185	0.253	0.7881	19.1
RAC	4	849.185185	212.296296	5.692	0.0181	11.5
BC	4	1540.296296	385.074074	2.103	0.1722	18.0
RBC	8	1465.037037	183.129630	4.910	0.0186	14.1
ABC	4	1951.407407	487.851852	13.080	0.0014	11.5
RABC	8	298.370370	37.296296			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	56431.425926				
R	2	7151.259259	3575.629630	11.921	0.0001	11.8
A	1	3969.796296	3969.796296	13.235	0.0009	9.6
B	2	26476.259259	13238.129630	44.135	0.0001	11.8
AB	2	2762.925926	1381.462963	4.606	0.0170	16.7
C	2	2274.037037	1137.018519	3.791	0.0326	11.8
AC	2	107.370370	53.685185	0.179	0.8369	16.7
BC	4	1540.296296	385.074074	1.284	0.2956	20.4
ABC	4	1951.407407	487.851852	1.626	0.1901	28.9
ERROR	34	10198.074074	299.943355			

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COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116333.333333				
R	2	5033.333333	2516.666667	1.185	0.3542	35.4
A	1	266.666667	266.666667	0.593	0.5219	24.8
RA	2	900.000000	450.000000	0.212	0.8134	50.1
B	2	37344.444444	18672.222222	17.551	0.0105	30.2
RB	4	4255.555556	1063.888889	0.501	0.7366	61.4
AB	2	6144.444444	3072.222222	6.179	0.0598	29.2
RAB	4	1988.888889	497.222222	0.234	0.9114	86.8
C	2	477.777778	238.888889	0.465	0.6584	21.0
RC	4	2055.555556	513.888889	0.242	0.9067	61.4
AC	2	5811.111111	2905.555556	2.105	0.2374	48.6
RAC	4	5522.222222	1380.555556	0.650	0.6427	86.8
BC	4	5811.111111	1452.777778	0.827	0.5437	55.8
RBC	8	14055.555556	1756.944444	0.827	0.6024	106.3
ABC	4	9677.777778	2419.444444	1.139	0.4039	86.8
RABC	8	16988.888889	2123.611111			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	116333.333333				
R	2	5033.333333	2516.666667	1.870	0.1697	25.0
A	1	266.666667	266.666667	0.198	0.6591	20.4
B	2	37344.444444	18672.222222	13.872	0.0001	25.0
AB	2	6144.444444	3072.222222	2.282	0.1175	35.3
C	2	477.777778	238.888889	0.177	0.8382	25.0
AC	2	5811.111111	2905.555556	2.159	0.1311	35.3
BC	4	5811.111111	1452.777778	1.079	0.3821	43.3
ABC	4	9677.777778	2419.444444	1.797	0.1521	61.2
ERROR	34	45766.666667	1346.078431			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	80461.333333				
R	2	2478.111111	1239.055556	7.107	0.0168	10.1
A	1	2992.666667	2992.666667	2.415	0.2604	41.2
RA	2	2478.111111	1239.055556	7.107	0.0168	14.4
B	2	18096.444444	9048.222222	53.347	0.0013	12.1
RB	4	678.444444	169.611111	0.973	0.4730	17.6
AB	2	363.111111	181.555556	1.070	0.4243	17.0
RAB	4	678.444444	169.611111	0.973	0.4730	24.9
C	2	10429.777778	5214.888889	4.193	0.1043	32.6
RC	4	4975.111111	1243.777778	7.134	0.0095	17.6
AC	2	5896.444444	2948.222222	2.370	0.2094	46.2
RAC	4	4975.111111	1243.777778	7.134	0.0095	24.9
BC	4	22881.777778	5720.444444	32.813	0.0001	17.6
RBC	8	1394.666667	174.333333	1.000	0.5000	30.4
ABC	4	748.444444	187.111111	1.073	0.4299	24.9
RABC	8	1394.666667	174.333333			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Jul/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	80461.333333				
R	2	2478.111111	1239.055556	2.542	0.0936	15.0
A	1	2992.666667	2992.666667	6.139	0.0184	12.3
B	2	18096.444444	9048.222222	18.561	0.0001	15.0
AB	2	363.111111	181.555556	0.372	0.6918	21.3
C	2	10429.777778	5214.888889	10.697	0.0002	15.0
AC	2	5896.444444	2948.222222	6.048	0.0057	21.3
BC	4	22881.777778	5720.444444	11.735	0.0001	26.0
ABC	4	748.444444	187.111111	0.384	0.8186	36.8
ERROR	34	16574.555556	487.486928			

Texas Agricultural Experiment Station

Weed Code Rating Data Type Rating Unit Rating Date							PIGWEEED CONTROL PERCENT Jul/27/09	DEVILS C CONTROL PERCENT Jul/27/09	PUNCTURE CONTROL PERCENT Jul/27/09	R THISTL CONTROL PERCENT Jul/27/09	PIGWEEED CONTROL PERCENT Aug/03/09	DEVILS C CONTROL PERCENT Aug/03/09	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
TABLE OF R MEANS													
Replicate 1								76.9	49.7	50.6	76.1	73.9	45.6
Replicate 2								75.7	55.2	67.2	71.7	71.7	50.1
Replicate 3								76.6	34.7	49.4	78.9	72.8	28.9
TABLE OF A MEANS													
1 EPOST							EPOST A	84.1	57.0	55.9	85.2	81.9	53.4
2 MPOST							MPOST B	68.7	36.1	55.6	65.9	63.7	29.6
TABLE OF B MEANS													
1 VALOR SX		0 lb ai/a		0 oz/a				48.5	10.0	22.2	50.0	42.2	9.2
2 VALOR SX		0.064 lb ai/a		2 oz/a				91.0	62.2	67.5	86.1	87.5	54.7
3 VALOR SX		0.096 lb ai/a		3 oz/a				89.7	67.4	77.5	90.6	88.6	60.7
TABLE OF C MEANS													
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a				57.6	41.4	53.1	59.4	56.1	34.6
1 NIS		0.25 % v/v		3.2 oz/a									
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a				79.8	43.6	56.7	72.2	74.7	39.4
2 NIS		0.25 % v/v		3.2 oz/a									
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a				91.8	54.7	57.5	95.0	87.5	50.6
3 NIS		0.25 % v/v		3.2 oz/a									
TABLE OF AB MEANS													
1 EPOST						EPOST A		53.7	11.7	11.1	55.6	47.2	12.8
1 VALOR SX		0 lb ai/a		0 oz/a									
2 MPOST						MPOST B		43.3	8.3	33.3	44.4	37.2	5.6
1 VALOR SX		0 lb ai/a		0 oz/a									
1 EPOST						EPOST A		98.8	81.1	67.2	100.0	98.3	76.1
2 VALOR SX		0.064 lb ai/a		2 oz/a									
2 MPOST						MPOST B		83.2	43.3	67.8	72.2	76.7	33.3
2 VALOR SX		0.064 lb ai/a		2 oz/a									
1 EPOST						EPOST A		99.8	78.2	89.4	100.0	100.0	71.3
3 VALOR SX		0.096 lb ai/a		3 oz/a									
2 MPOST						MPOST B		79.6	56.7	65.6	81.1	77.2	50.0
3 VALOR SX		0.096 lb ai/a		3 oz/a									
TABLE OF AC MEANS													
1 EPOST						EPOST A		66.6	53.9	45.0	66.7	66.1	46.9
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST						MPOST B		48.7	28.9	61.1	52.2	46.1	22.2
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
1 EPOST						EPOST A		89.2	54.3	55.6	88.9	84.4	50.0
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST						MPOST B		70.3	32.8	57.8	55.6	65.0	28.9
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
1 EPOST						EPOST A		96.4	62.8	67.2	100.0	95.0	63.3
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST						MPOST B		87.1	46.7	47.8	90.0	80.0	37.8
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
TABLE OF BC MEANS													
1 VALOR SX		0 lb ai/a		0 oz/a				0.0	0.0	0.0	0.0	0.0	0.0
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 VALOR SX		0.064 lb ai/a		2 oz/a				92.5	55.0	67.5	86.7	89.2	46.7
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
3 VALOR SX		0.096 lb ai/a		3 oz/a				80.3	69.2	91.7	91.7	79.2	57.0
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PUNCTURE R THISTL PIGWEED DEVILS C
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/27/09 Jul/27/09 Jul/27/09 Jul/27/09 Aug/03/09 Aug/03/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	VALOR SX	0	lb ai/a	0	oz/a			58.8	8.3	33.3	50.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						50.0
2	NIS	0.25	% v/v	3.2	oz/a						5.0
2	VALOR SX	0.064	lb ai/a	2	oz/a			87.5	58.3	51.7	86.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						82.5
2	NIS	0.25	% v/v	3.2	oz/a						53.3
3	VALOR SX	0.096	lb ai/a	3	oz/a			93.0	64.0	85.0	80.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						91.7
2	NIS	0.25	% v/v	3.2	oz/a						60.0
1	VALOR SX	0	lb ai/a	0	oz/a			86.7	21.7	33.3	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						76.7
3	NIS	0.25	% v/v	3.2	oz/a						22.5
2	VALOR SX	0.064	lb ai/a	2	oz/a			93.0	73.3	83.3	85.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						90.8
3	NIS	0.25	% v/v	3.2	oz/a						64.2
3	VALOR SX	0.096	lb ai/a	3	oz/a			95.7	69.2	55.8	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						95.0
3	NIS	0.25	% v/v	3.2	oz/a						65.0

TABLE OF ABC MEANS

1	EPOST					EPOST A	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	NIS	0.25	% v/v	3.2	oz/a						
2	MPOST					MPOST B	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	NIS	0.25	% v/v	3.2	oz/a						
1	EPOST					EPOST A	99.7	83.3	35.0	100.0	98.3
2	VALOR SX	0.064	lb ai/a	2	oz/a						76.7
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	NIS	0.25	% v/v	3.2	oz/a						
2	MPOST					MPOST B	85.3	26.7	100.0	73.3	80.0
2	VALOR SX	0.064	lb ai/a	2	oz/a						16.7
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	NIS	0.25	% v/v	3.2	oz/a						
1	EPOST					EPOST A	100.0	78.3	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a						64.0
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	NIS	0.25	% v/v	3.2	oz/a						
2	MPOST					MPOST B	60.7	60.0	83.3	83.3	58.3
3	VALOR SX	0.096	lb ai/a	3	oz/a						50.0
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	NIS	0.25	% v/v	3.2	oz/a						
1	EPOST					EPOST A	71.0	8.3	0.0	66.7	56.7
1	VALOR SX	0	lb ai/a	0	oz/a						3.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	MPOST					MPOST B	46.7	8.3	66.7	33.3	43.3
1	VALOR SX	0	lb ai/a	0	oz/a						6.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	EPOST					EPOST A	96.7	70.0	66.7	100.0	96.7
2	VALOR SX	0.064	lb ai/a	2	oz/a						66.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	MPOST					MPOST B	78.3	46.7	36.7	73.3	68.3
2	VALOR SX	0.064	lb ai/a	2	oz/a						40.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	EPOST					EPOST A	100.0	84.7	100.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a						80.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	MPOST					MPOST B	86.0	43.3	70.0	60.0	83.3
3	VALOR SX	0.096	lb ai/a	3	oz/a						40.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED DEVILS C PUNCTURE R THISTL PIGWEED DEVILS C
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Jul/27/09 Jul/27/09 Jul/27/09 Jul/27/09 Aug/03/09 Aug/03/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	EPOST					EPOST	A	90.0	26.7	33.3	100.0	85.0	35.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	83.3	16.7	33.3	100.0	68.3	10.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	100.0	90.0	100.0	100.0	100.0	85.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	86.0	56.7	66.7	70.0	81.7	43.3
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	99.3	71.7	68.3	100.0	100.0	70.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	92.0	66.7	43.3	100.0	90.0	60.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	53034.833333				
R	2	15.444444	7.722222	0.080	0.9240	7.6
A	1	3189.351852	3189.351852	24.913	0.0379	13.3
RA	2	256.037037	128.018519	1.323	0.3189	10.7
B	2	21016.333333	10508.166667	84.478	0.0005	10.3
RB	4	497.555556	124.388889	1.285	0.3523	13.1
AB	2	220.259259	110.129630	3.375	0.1384	7.5
RAB	4	130.518519	32.629630	0.337	0.8457	18.5
C	2	10816.333333	5408.166667	42.426	0.0020	10.4
RC	4	509.888889	127.472222	1.317	0.3421	13.1
AC	2	248.259259	124.129630	3.700	0.1231	7.6
RAC	4	134.185185	33.546296	0.347	0.8394	18.5
BC	4	13594.333333	3398.583333	50.968	0.0001	10.9
RBC	8	533.444444	66.680556	0.689	0.6947	22.7
ABC	4	1098.629630	274.657407	2.838	0.0977	18.5
RABC	8	774.259259	96.782407			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	53034.833333				
R	2	15.444444	7.722222	0.093	0.9118	6.2
A	1	3189.351852	3189.351852	38.238	0.0001	5.1
B	2	21016.333333	10508.166667	125.984	0.0001	6.2
AB	2	220.259259	110.129630	1.320	0.2804	8.8
C	2	10816.333333	5408.166667	64.840	0.0001	6.2
AC	2	248.259259	124.129630	1.488	0.2401	8.8
BC	4	13594.333333	3398.583333	40.746	0.0001	10.8
ABC	4	1098.629630	274.657407	3.293	0.0220	15.2
ERROR	34	2835.888889	83.408497			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	65485.333333				
R	2	4053.000000	2026.500000	7.007	0.0174	13.1
A	1	5890.666667	5890.666667	5.402	0.1457	38.7
RA	2	2180.777778	1090.388889	3.770	0.0702	18.5
B	2	36325.777778	18162.888889	59.719	0.0011	16.1
RB	4	1216.555556	304.138889	1.052	0.4388	22.6
AB	2	2672.444444	1336.222222	6.273	0.0584	19.1
RAB	4	852.111111	213.027778	0.737	0.5924	32.0
C	2	1843.000000	921.500000	8.234	0.0382	9.8
RC	4	447.666667	111.916667	0.387	0.8125	22.6
AC	2	180.777778	90.388889	0.145	0.8698	32.7
RAC	4	2502.111111	625.527778	2.163	0.1640	32.0
BC	4	841.555556	210.388889	0.715	0.6048	22.8
RBC	8	2354.777778	294.347222	1.018	0.4904	39.2
ABC	4	1810.444444	452.611111	1.565	0.2730	32.0
RABC	8	2313.666667	289.208333			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	65485.333333				
R	2	4053.000000	2026.500000	5.806	0.0068	12.7
A	1	5890.666667	5890.666667	16.876	0.0002	10.4
B	2	36325.777778	18162.888889	52.035	0.0001	12.7
AB	2	2672.444444	1336.222222	3.828	0.0317	18.0
C	2	1843.000000	921.500000	2.640	0.0859	12.7
AC	2	180.777778	90.388889	0.259	0.7734	18.0
BC	4	841.555556	210.388889	0.603	0.6633	22.0
ABC	4	1810.444444	452.611111	1.297	0.2908	31.1
ERROR	34	11867.666667	349.049020			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	117270.370370				
R	2	3570.370370	1785.185185	0.915	0.4388	34.0
A	1	1.851852	1.851852	0.001	0.9749	45.0
RA	2	2948.148148	1474.074074	0.755	0.5007	48.0
B	2	31234.259259	15617.129630	14.447	0.0148	30.4
RB	4	4324.074074	1081.018519	0.554	0.7024	58.8
AB	2	4789.814815	2394.907407	5.037	0.0808	28.5
RAB	4	1901.851852	475.462963	0.244	0.9057	83.2
C	2	200.925926	100.462963	0.392	0.6989	14.8
RC	4	1024.074074	256.018519	0.131	0.9666	58.8
AC	2	2889.814815	1444.907407	0.433	0.6755	75.6
RAC	4	13335.185185	3333.796296	1.708	0.2406	83.2
BC	4	11610.185185	2902.546296	1.817	0.2190	53.2
RBC	8	12781.481481	1597.685185	0.819	0.6081	101.9
ABC	4	11043.518519	2760.879630	1.414	0.3128	83.2
RABC	8	15614.814815	1951.851852			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	117270.370370				
R	2	3570.370370	1785.185185	1.169	0.3229	26.6
A	1	1.851852	1.851852	0.001	0.9724	21.7
B	2	31234.259259	15617.129630	10.225	0.0003	26.6
AB	2	4789.814815	2394.907407	1.568	0.2232	37.6
C	2	200.925926	100.462963	0.066	0.9365	26.6
AC	2	2889.814815	1444.907407	0.946	0.3983	37.6
BC	4	11610.185185	2902.546296	1.900	0.1330	46.1
ABC	4	11043.518519	2760.879630	1.808	0.1501	65.2
ERROR	34	51929.629630	1527.342048			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	86133.333333				
R	2	477.777778	238.888889	0.296	0.7513	21.8
A	1	5007.407407	5007.407407	3.042	0.2233	47.5
RA	2	3292.592593	1646.296296	2.043	0.1920	30.9
B	2	17811.111111	8905.555556	47.851	0.0016	12.6
RB	4	744.444444	186.111111	0.231	0.9134	37.8
AB	2	625.925926	312.962963	0.527	0.6262	31.9
RAB	4	2374.074074	593.518519	0.736	0.5926	53.5
C	2	11677.777778	5838.888889	7.672	0.0428	25.5
RC	4	3044.444444	761.111111	0.944	0.4861	37.8
AC	2	1381.481481	690.740741	0.303	0.7542	62.5
RAC	4	9118.518519	2279.629630	2.828	0.0984	53.5
BC	4	19544.444444	4886.111111	10.758	0.0026	28.4
RBC	8	3633.333333	454.166667	0.563	0.7827	65.5
ABC	4	951.851852	237.962963	0.295	0.8731	53.5
RABC	8	6448.148148	806.018519			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Jul/27/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	86133.333333				
R	2	477.777778	238.888889	0.283	0.7549	19.8
A	1	5007.407407	5007.407407	5.941	0.0202	16.1
B	2	17811.111111	8905.555556	10.566	0.0003	19.8
AB	2	625.925926	312.962963	0.371	0.6926	27.9
C	2	11677.777778	5838.888889	6.928	0.0030	19.8
AC	2	1381.481481	690.740741	0.820	0.4491	27.9
BC	4	19544.444444	4886.111111	5.797	0.0011	34.2
ABC	4	951.851852	237.962963	0.282	0.8874	48.4
ERROR	34	28655.555556	842.810458			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	54433.333333				
R	2	44.444444	22.222222	0.160	0.8549	9.1
A	1	4446.296296	4446.296296	24.753	0.0381	15.7
RA	2	359.259259	179.629630	1.292	0.3263	12.8
B	2	25219.444444	12609.722222	64.850	0.0009	12.9
RB	4	777.777778	194.444444	1.399	0.3173	15.7
AB	2	450.925926	225.462963	8.855	0.0339	6.6
RAB	4	101.851852	25.462963	0.183	0.9407	22.2
C	2	8969.444444	4484.722222	23.830	0.0060	12.7
RC	4	752.777778	188.194444	1.354	0.3306	15.7
AC	2	67.592593	33.796296	1.227	0.3841	6.9
RAC	4	110.185185	27.546296	0.198	0.9324	22.2
BC	4	10277.777778	2569.444444	32.035	0.0001	11.9
RBC	8	641.666667	80.208333	0.577	0.7732	27.2
ABC	4	1101.851852	275.462963	1.982	0.1904	22.2
RABC	8	1112.037037	139.004630			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	54433.333333				
R	2	44.444444	22.222222	0.196	0.8230	7.2
A	1	4446.296296	4446.296296	39.209	0.0001	5.9
B	2	25219.444444	12609.722222	111.198	0.0001	7.2
AB	2	450.925926	225.462963	1.988	0.1525	10.3
C	2	8969.444444	4484.722222	39.548	0.0001	7.2
AC	2	67.592593	33.796296	0.298	0.7442	10.3
BC	4	10277.777778	2569.444444	22.659	0.0001	12.6
ABC	4	1101.851852	275.462963	2.429	0.0666	17.8
ERROR	34	3855.555556	113.398693			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	66579.481481				
R	2	4493.481481	2246.740741	7.234	0.0161	13.5
A	1	7632.666667	7632.666667	5.246	0.1491	44.7
RA	2	2909.777778	1454.888889	4.684	0.0450	19.2
B	2	28577.370370	14288.685185	18.000	0.0100	26.1
RB	4	3175.296296	793.824074	2.556	0.1205	23.5
AB	2	2884.777778	1442.388889	2.595	0.1895	30.9
RAB	4	2223.444444	555.861111	1.790	0.2241	33.2
C	2	2420.148148	1210.074074	4.555	0.0931	15.1
RC	4	1062.518519	265.629630	0.855	0.5292	23.5
AC	2	49.777778	24.888889	0.048	0.9537	29.8
RAC	4	2075.111111	518.777778	1.670	0.2487	33.2
BC	4	386.962963	96.740741	0.198	0.9323	29.4
RBC	8	3901.703704	487.712963	1.570	0.2689	40.6
ABC	4	2301.777778	575.444444	1.853	0.2123	33.2
RABC	8	2484.666667	310.583333			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	66579.481481				
R	2	4493.481481	2246.740741	4.284	0.0219	15.6
A	1	7632.666667	7632.666667	14.553	0.0005	12.7
B	2	28577.370370	14288.685185	27.243	0.0001	15.6
AB	2	2884.777778	1442.388889	2.750	0.0782	22.0
C	2	2420.148148	1210.074074	2.307	0.1149	15.6
AC	2	49.777778	24.888889	0.047	0.9537	22.0
BC	4	386.962963	96.740741	0.184	0.9449	27.0
ABC	4	2301.777778	575.444444	1.097	0.3737	38.2
ERROR	34	17832.518519	524.485839			

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Weed Code Rating Data Type Rating Unit Rating Date								PUNCTURE CONTROL PERCENT Aug/03/09	R THISTL CONTROL PERCENT Aug/03/09	PIGWEEED CONTROL PERCENT Aug/17/09	DEVILS C CONTROL PERCENT Aug/17/09	PUNCTURE CONTROL PERCENT Aug/17/09	R THISTL CONTROL PERCENT Aug/17/09
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
TABLE OF R MEANS													
Replicate 1								47.8	68.1	65.8	45.7	33.3	80.6
Replicate 2								64.4	74.4	66.5	49.4	53.1	85.3
Replicate 3								46.7	68.1	69.1	40.0	52.8	85.3
TABLE OF A MEANS													
1 EPOST							EPOST A	55.2	85.2	80.4	61.0	64.8	88.9
2 MPOST							MPOST B	50.7	55.2	53.9	29.1	28.0	78.5
TABLE OF B MEANS													
1 VALOR SX		0 lb ai/a		0 oz/a				22.2	51.1	36.7	13.9	14.7	65.6
2 VALOR SX		0.064 lb ai/a		2 oz/a				62.8	77.2	82.3	55.4	43.3	93.3
3 VALOR SX		0.096 lb ai/a		3 oz/a				73.9	82.2	82.4	65.7	81.1	92.2
TABLE OF C MEANS													
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a				50.6	53.6	49.2	31.8	31.1	55.6
1 NIS		0.25 % v/v		3.2 oz/a									
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a				53.9	66.4	68.2	46.4	45.8	96.7
2 NIS		0.25 % v/v		3.2 oz/a									
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a				54.4	90.6	84.1	56.8	62.2	98.9
3 NIS		0.25 % v/v		3.2 oz/a									
TABLE OF AB MEANS													
1 EPOST						EPOST A		11.1	55.6	42.2	16.1	23.9	66.7
1 VALOR SX		0 lb ai/a		0 oz/a									
2 MPOST						MPOST B		33.3	46.7	31.1	11.7	5.6	64.4
1 VALOR SX		0 lb ai/a		0 oz/a									
1 EPOST						EPOST A		66.7	100.0	99.0	82.6	70.6	100.0
2 VALOR SX		0.064 lb ai/a		2 oz/a									
2 MPOST						MPOST B		58.9	54.4	65.7	28.3	16.1	86.7
2 VALOR SX		0.064 lb ai/a		2 oz/a									
1 EPOST						EPOST A		87.8	100.0	99.9	84.2	100.0	100.0
3 VALOR SX		0.096 lb ai/a		3 oz/a									
2 MPOST						MPOST B		60.0	64.4	65.0	47.2	62.2	84.4
3 VALOR SX		0.096 lb ai/a		3 oz/a									
TABLE OF AC MEANS													
1 EPOST						EPOST A		44.4	66.7	66.7	53.1	48.3	66.7
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST						MPOST B		56.7	40.6	31.7	10.6	13.9	44.4
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
1 EPOST						EPOST A		54.4	88.9	83.7	64.4	60.6	100.0
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST						MPOST B		53.3	43.9	52.8	28.3	31.1	93.3
2 GRAMOXONE INTEON		0.125 lb ai/a		8 oz/a									
2 NIS		0.25 % v/v		3.2 oz/a									
1 EPOST						EPOST A		66.7	100.0	90.8	65.3	85.6	100.0
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
2 MPOST						MPOST B		42.2	81.1	77.3	48.3	38.9	97.8
3 GRAMOXONE INTEON		0.25 lb ai/a		16 oz/a									
3 NIS		0.25 % v/v		3.2 oz/a									
TABLE OF BC MEANS													
1 VALOR SX		0 lb ai/a		0 oz/a				0.0	0.0	0.0	0.0	0.0	0.0
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
2 VALOR SX		0.064 lb ai/a		2 oz/a				65.0	75.0	76.7	47.5	26.7	83.3
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									
3 VALOR SX		0.096 lb ai/a		3 oz/a				86.7	85.8	70.8	48.0	66.7	83.3
1 GRAMOXONE INTEON		0 lb ai/a		0 oz/a									
1 NIS		0.25 % v/v		3.2 oz/a									

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PUNCTURE CONTROL PERCENT Aug/03/09	R THISTL CONTROL PERCENT Aug/03/09	PIGWEEED CONTROL PERCENT Aug/17/09	DEVILS C CONTROL PERCENT Aug/17/09	PUNCTURE CONTROL PERCENT Aug/17/09	R THISTL CONTROL PERCENT Aug/17/09
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Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	VALOR SX	0	lb ai/a	0	oz/a			33.3	53.3	37.5	15.8	7.5	96.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			45.0	85.0	81.3	51.7	45.8	96.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			83.3	60.8	85.8	71.7	84.2	96.7
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	VALOR SX	0	lb ai/a	0	oz/a			33.3	100.0	72.5	25.8	36.7	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	VALOR SX	0.064	lb ai/a	2	oz/a			78.3	71.7	89.0	67.2	57.5	100.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
3	VALOR SX	0.096	lb ai/a	3	oz/a			51.7	100.0	90.7	77.5	92.5	96.7
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

TABLE OF ABC MEANS

1	EPOST					EPOST A	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a							
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a							
1	NIS	0.25	% v/v	3.2	oz/a							
2	MPOST					MPOST B	0.0	0.0	0.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a							
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a							
1	NIS	0.25	% v/v	3.2	oz/a							
1	EPOST					EPOST A	33.3	100.0	100.0	80.0	45.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a							
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a							
1	NIS	0.25	% v/v	3.2	oz/a							
2	MPOST					MPOST B	96.7	50.0	53.3	15.0	8.3	66.7
2	VALOR SX	0.064	lb ai/a	2	oz/a							
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a							
1	NIS	0.25	% v/v	3.2	oz/a							
1	EPOST					EPOST A	100.0	100.0	100.0	79.3	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a							
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a							
1	NIS	0.25	% v/v	3.2	oz/a							
2	MPOST					MPOST B	73.3	71.7	41.7	16.7	33.3	66.7
3	VALOR SX	0.096	lb ai/a	3	oz/a							
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a							
1	NIS	0.25	% v/v	3.2	oz/a							
1	EPOST					EPOST A	0.0	66.7	53.3	20.0	15.0	100.0
1	VALOR SX	0	lb ai/a	0	oz/a							
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a							
2	NIS	0.25	% v/v	3.2	oz/a							
2	MPOST					MPOST B	66.7	40.0	21.7	11.7	0.0	93.3
1	VALOR SX	0	lb ai/a	0	oz/a							
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a							
2	NIS	0.25	% v/v	3.2	oz/a							
1	EPOST					EPOST A	66.7	100.0	97.7	80.0	66.7	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a							
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a							
2	NIS	0.25	% v/v	3.2	oz/a							
2	MPOST					MPOST B	23.3	70.0	65.0	23.3	25.0	93.3
2	VALOR SX	0.064	lb ai/a	2	oz/a							
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a							
2	NIS	0.25	% v/v	3.2	oz/a							
1	EPOST					EPOST A	96.7	100.0	100.0	93.3	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a							
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a							
2	NIS	0.25	% v/v	3.2	oz/a							
2	MPOST					MPOST B	70.0	21.7	71.7	50.0	68.3	93.3
3	VALOR SX	0.096	lb ai/a	3	oz/a							
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a							
2	NIS	0.25	% v/v	3.2	oz/a							

Texas Agricultural Experiment Station

Weed Code
Rating Data Type
Rating Unit
Rating Date

PUNCTURE R THISTL PIGWEED DEVILS C PUNCTURE R THISTL
CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL
PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT
Aug/03/09 Aug/03/09 Aug/17/09 Aug/17/09 Aug/17/09 Aug/17/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	EPOST					EPOST	A	33.3	100.0	73.3	28.3	56.7	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	33.3	100.0	71.7	23.3	16.7	100.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	100.0	100.0	99.3	87.7	100.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	56.7	43.3	78.7	46.7	15.0	100.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
1	EPOST					EPOST	A	66.7	100.0	99.7	80.0	100.0	100.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	MPOST					MPOST	B	36.7	100.0	81.7	75.0	85.0	93.3
3	VALOR SX	0.096	lb ai/a	3	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	121525.925926				
R	2	3570.370370	1785.185185	0.835	0.4684	35.5
A	1	266.666667	266.666667	0.160	0.7278	47.8
RA	2	3333.333333	1666.666667	0.780	0.4905	50.3
B	2	26625.925926	13312.962963	11.026	0.0236	32.2
RB	4	4829.629630	1207.407407	0.565	0.6954	61.6
AB	2	5700.000000	2850.000000	4.385	0.0981	33.4
RAB	4	2600.000000	650.000000	0.304	0.8674	87.0
C	2	159.259259	79.629630	0.200	0.8268	18.5
RC	4	1596.296296	399.074074	0.187	0.9388	61.6
AC	2	3100.000000	1550.000000	0.450	0.6662	76.8
RAC	4	13766.666667	3441.666667	1.610	0.2622	87.0
BC	4	12140.740741	3035.185185	1.734	0.2352	55.7
RBC	8	14003.703704	1750.462963	0.819	0.6078	106.6
ABC	4	12733.333333	3183.333333	1.489	0.2922	87.0
RABC	8	17100.000000	2137.500000			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	121525.925926				
R	2	3570.370370	1785.185185	1.061	0.3574	27.9
A	1	266.666667	266.666667	0.158	0.6931	22.8
B	2	26625.925926	13312.962963	7.909	0.0015	27.9
AB	2	5700.000000	2850.000000	1.693	0.1991	39.5
C	2	159.259259	79.629630	0.047	0.9539	27.9
AC	2	3100.000000	1550.000000	0.921	0.4079	39.5
BC	4	12140.740741	3035.185185	1.803	0.1510	48.4
ABC	4	12733.333333	3183.333333	1.891	0.1346	68.4
ERROR	34	57229.629630	1683.224401			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	95448.148148				
R	2	489.814815	244.907407	0.242	0.7908	24.5
A	1	12150.000000	12150.000000	21.707	0.0431	27.7
RA	2	1119.444444	559.722222	0.552	0.5960	34.6
B	2	10048.148148	5024.074074	7.578	0.0436	23.8
RB	4	2651.851852	662.962963	0.654	0.6402	42.4
AB	2	3233.333333	1616.666667	9.387	0.0308	17.2
RAB	4	688.888889	172.222222	0.170	0.9477	59.9
C	2	12673.148148	6336.574074	8.966	0.0333	24.6
RC	4	2826.851852	706.712963	0.698	0.6147	42.4
AC	2	1636.111111	818.055556	1.352	0.3559	32.2
RAC	4	2419.444444	604.861111	0.597	0.6752	59.9
BC	4	22668.518519	5667.129630	4.374	0.0363	47.9
RBC	8	10364.814815	1295.601852	1.279	0.3682	73.4
ABC	4	4372.222222	1093.055556	1.079	0.4276	59.9
RABC	8	8105.555556	1013.194444			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Aug/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	95448.148148				
R	2	489.814815	244.907407	0.296	0.7460	19.6
A	1	12150.000000	12150.000000	14.661	0.0005	16.0
B	2	10048.148148	5024.074074	6.062	0.0056	19.6
AB	2	3233.333333	1616.666667	1.951	0.1578	27.7
C	2	12673.148148	6336.574074	7.646	0.0018	19.6
AC	2	1636.111111	818.055556	0.987	0.3831	27.7
BC	4	22668.518519	5667.129630	6.838	0.0004	33.9
ABC	4	4372.222222	1093.055556	1.319	0.2827	48.0
ERROR	34	28176.851852	828.730937			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PIGWEED CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	58920.814815				
R	2	108.037037	54.018519	0.767	0.4959	6.5
A	1	9440.666667	9440.666667	36.210	0.0265	18.9
RA	2	521.444444	260.722222	3.700	0.0728	9.1
B	2	25086.370370	12543.185185	123.151	0.0003	9.3
RB	4	407.407407	101.851852	1.446	0.3040	11.2
AB	2	1592.444444	796.222222	84.306	0.0005	4.0
RAB	4	37.777778	9.444444	0.134	0.9653	15.8
C	2	10986.259259	5493.129630	60.947	0.0010	8.8
RC	4	360.518519	90.129630	1.279	0.3543	11.2
AC	2	1178.777778	589.388889	24.445	0.0057	6.4
RAC	4	96.444444	24.111111	0.342	0.8423	15.8
BC	4	6537.518519	1634.379630	32.308	0.0001	9.5
RBC	8	404.703704	50.587963	0.718	0.6748	19.4
ABC	4	1598.777778	399.694444	5.673	0.0183	15.8
RABC	8	563.666667	70.458333			

FACTORIAL/POOLED ERROR AOV For PIGWEED CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	58920.814815				
R	2	108.037037	54.018519	0.768	0.4719	5.7
A	1	9440.666667	9440.666667	134.192	0.0001	4.7
B	2	25086.370370	12543.185185	178.292	0.0001	5.7
AB	2	1592.444444	796.222222	11.318	0.0002	8.1
C	2	10986.259259	5493.129630	78.081	0.0001	5.7
AC	2	1178.777778	589.388889	8.378	0.0011	8.1
BC	4	6537.518519	1634.379630	23.232	0.0001	9.9
ABC	4	1598.777778	399.694444	5.681	0.0013	14.0
ERROR	34	2391.962963	70.351852			

COMPLETE FACTORIAL AOV For DEVILS C CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	62100.981481				
R	2	804.703704	402.351852	3.342	0.0881	8.4
A	1	13728.166667	13728.166667	29.456	0.0323	25.3
RA	2	932.111111	466.055556	3.872	0.0667	11.9
B	2	27115.148148	13557.574074	32.670	0.0033	18.9
RB	4	1659.962963	414.990741	3.447	0.0642	14.6
AB	2	5751.444444	2875.722222	26.057	0.0051	13.7
RAB	4	441.444444	110.361111	0.917	0.4990	20.7
C	2	5675.703704	2837.851852	56.360	0.0012	6.6
RC	4	201.407407	50.351852	0.418	0.7915	14.6
AC	2	1589.777778	794.888889	3.526	0.1310	19.6
RAC	4	901.777778	225.444444	1.873	0.2087	20.7
BC	4	577.962963	144.490741	4.352	0.0368	7.7
RBC	8	265.592593	33.199074	0.276	0.9565	25.3
ABC	4	1492.777778	373.194444	3.100	0.0811	20.7
RABC	8	963.000000	120.375000			

FACTORIAL/POOLED ERROR AOV For DEVILS C CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	62100.981481				
R	2	804.703704	402.351852	2.550	0.0929	8.6
A	1	13728.166667	13728.166667	86.996	0.0001	7.0
B	2	27115.148148	13557.574074	85.915	0.0001	8.6
AB	2	5751.444444	2875.722222	18.224	0.0001	12.1
C	2	5675.703704	2837.851852	17.984	0.0001	8.6
AC	2	1589.777778	794.888889	5.037	0.0121	12.1
BC	4	577.962963	144.490741	0.916	0.4661	14.8
ABC	4	1492.777778	373.194444	2.365	0.0724	20.9
ERROR	34	5365.296296	157.802832			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	102370.833333				
R	2	4602.777778	2301.388889	3.570	0.0779	19.5
A	1	18333.796296	18333.796296	26.812	0.0353	30.6
RA	2	1367.592593	683.796296	1.061	0.3902	27.6
B	2	39919.444444	19959.722222	31.378	0.0036	23.3
RB	4	2544.444444	636.111111	0.987	0.4667	33.8
AB	2	2939.814815	1469.907407	3.367	0.1389	27.3
RAB	4	1746.296296	436.574074	0.677	0.6265	47.8
C	2	8719.444444	4359.722222	19.680	0.0085	13.8
RC	4	886.111111	221.527778	0.344	0.8414	33.8
AC	2	706.481481	353.240741	0.411	0.6881	38.4
RAC	4	3437.962963	859.490741	1.333	0.3369	47.8
BC	4	777.777778	194.444444	0.239	0.9085	38.0
RBC	8	6508.333333	813.541667	1.262	0.3749	58.5
ABC	4	4724.074074	1181.018519	1.832	0.2160	47.8
RABC	8	5156.481481	644.560185			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	102370.833333				
R	2	4602.777778	2301.388889	3.615	0.0377	17.2
A	1	18333.796296	18333.796296	28.796	0.0001	14.0
B	2	39919.444444	19959.722222	31.350	0.0001	17.2
AB	2	2939.814815	1469.907407	2.309	0.1148	24.3
C	2	8719.444444	4359.722222	6.848	0.0032	17.2
AC	2	706.481481	353.240741	0.555	0.5793	24.3
BC	4	777.777778	194.444444	0.305	0.8723	29.7
ABC	4	4724.074074	1181.018519	1.855	0.1411	42.1
ERROR	34	21647.222222	636.683007			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	59759.259259				
R	2	267.592593	133.796296	0.893	0.4465	9.4
A	1	1451.851852	1451.851852	10.851	0.0811	13.5
RA	2	267.592593	133.796296	0.893	0.4465	13.3
B	2	8903.703704	4451.851852	52.690	0.0013	8.5
RB	4	337.962963	84.490741	0.564	0.6959	16.3
AB	2	459.259259	229.629630	2.718	0.1797	12.0
RAB	4	337.962963	84.490741	0.564	0.6959	23.0
C	2	21437.037037	10718.518519	26.043	0.0051	18.8
RC	4	1646.296296	411.574074	2.748	0.1044	16.3
AC	2	992.592593	496.296296	1.206	0.3892	26.5
RAC	4	1646.296296	411.574074	2.748	0.1044	23.0
BC	4	18918.518519	4729.629630	31.580	0.0001	16.3
RBC	8	1198.148148	149.768519	1.000	0.5000	28.2
ABC	4	696.296296	174.074074	1.162	0.3952	23.0
RABC	8	1198.148148	149.768519			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	59759.259259				
R	2	267.592593	133.796296	0.686	0.5105	9.5
A	1	1451.851852	1451.851852	7.443	0.0100	7.8
B	2	8903.703704	4451.851852	22.822	0.0001	9.5
AB	2	459.259259	229.629630	1.177	0.3204	13.4
C	2	21437.037037	10718.518519	54.947	0.0001	9.5
AC	2	992.592593	496.296296	2.544	0.0934	13.4
BC	4	18918.518519	4729.629630	24.246	0.0001	16.5
ABC	4	696.296296	174.074074	0.892	0.4791	23.3
ERROR	34	6632.407407	195.070806			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PUNCTURE CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	102370.833333				
R	2	4602.777778	2301.388889	3.570	0.0779	19.5
A	1	18333.796296	18333.796296	26.812	0.0353	30.6
RA	2	1367.592593	683.796296	1.061	0.3902	27.6
B	2	39919.444444	19959.722222	31.378	0.0036	23.3
RB	4	2544.444444	636.111111	0.987	0.4667	33.8
AB	2	2939.814815	1469.907407	3.367	0.1389	27.3
RAB	4	1746.296296	436.574074	0.677	0.6265	47.8
C	2	8719.444444	4359.722222	19.680	0.0085	13.8
RC	4	886.111111	221.527778	0.344	0.8414	33.8
AC	2	706.481481	353.240741	0.411	0.6881	38.4
RAC	4	3437.962963	859.490741	1.333	0.3369	47.8
BC	4	777.777778	194.444444	0.239	0.9085	38.0
RBC	8	6508.333333	813.541667	1.262	0.3749	58.5
ABC	4	4724.074074	1181.018519	1.832	0.2160	47.8
RABC	8	5156.481481	644.560185			

FACTORIAL/POOLED ERROR AOV For PUNCTURE CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	102370.833333				
R	2	4602.777778	2301.388889	3.615	0.0377	17.2
A	1	18333.796296	18333.796296	28.796	0.0001	14.0
B	2	39919.444444	19959.722222	31.350	0.0001	17.2
AB	2	2939.814815	1469.907407	2.309	0.1148	24.3
C	2	8719.444444	4359.722222	6.848	0.0032	17.2
AC	2	706.481481	353.240741	0.555	0.5793	24.3
BC	4	777.777778	194.444444	0.305	0.8723	29.7
ABC	4	4724.074074	1181.018519	1.855	0.1411	42.1
ERROR	34	21647.222222	636.683007			

COMPLETE FACTORIAL AOV For R THISTL CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	59759.259259				
R	2	267.592593	133.796296	0.893	0.4465	9.4
A	1	1451.851852	1451.851852	10.851	0.0811	13.5
RA	2	267.592593	133.796296	0.893	0.4465	13.3
B	2	8903.703704	4451.851852	52.690	0.0013	8.5
RB	4	337.962963	84.490741	0.564	0.6959	16.3
AB	2	459.259259	229.629630	2.718	0.1797	12.0
RAB	4	337.962963	84.490741	0.564	0.6959	23.0
C	2	21437.037037	10718.518519	26.043	0.0051	18.8
RC	4	1646.296296	411.574074	2.748	0.1044	16.3
AC	2	992.592593	496.296296	1.206	0.3892	26.5
RAC	4	1646.296296	411.574074	2.748	0.1044	23.0
BC	4	18918.518519	4729.629630	31.580	0.0001	16.3
RBC	8	1198.148148	149.768519	1.000	0.5000	28.2
ABC	4	696.296296	174.074074	1.162	0.3952	23.0
RABC	8	1198.148148	149.768519			

FACTORIAL/POOLED ERROR AOV For R THISTL CONTROL PERCENT Aug/17/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	59759.259259				
R	2	267.592593	133.796296	0.686	0.5105	9.5
A	1	1451.851852	1451.851852	7.443	0.0100	7.8
B	2	8903.703704	4451.851852	22.822	0.0001	9.5
AB	2	459.259259	229.629630	1.177	0.3204	13.4
C	2	21437.037037	10718.518519	54.947	0.0001	9.5
AC	2	992.592593	496.296296	2.544	0.0934	13.4
BC	4	18918.518519	4729.629630	24.246	0.0001	16.5
ABC	4	696.296296	174.074074	0.892	0.4791	23.3
ERROR	34	6632.407407	195.070806			

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS - NON CROP

Trial ID: 137L-09
Location: GLOVER

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LUBBOCK
State/Prov.: TX

Initiation Date: Jul/06/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH
DEVIL'S CLAW
PUNCTUREVINE
RUSSIAN THISTLE

NON CROP

SITE AND DESIGN

Plot Width, Unit: 13.33 FT

Plot Length, Unit: 30 FT

Reps: 3

Study Design: FACTORIAL

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B
Application Date:	Jul/06/09	Jul/13/09
Time of Day:	3:30 PM	10:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	A - EPOST	B - MPOST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	86.4 F	91 F
% Relative Humidity:	48.6	37.8
Wind Velocity, Unit:	5.4 MPH	6.3 MPH
Soil Temp., Unit:	88.6 F	83.3 F
Soil Moisture:	ADEQUATE	DRY
% Cloud Cover:	75	0

WEED STAGE AT EACH APPLICATION

	A	B
Stage Scale:	PIGWEEED	PIGWEEED
Density, Unit:	HEIGHT	HEIGHT
	0-4 IN	1-8 IN
	DEVILCLAW	DEVILCLAW
Stage Scale:	HEIGHT	HEIGHT
Density, Unit:	1-4 IN	1-10 IN

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	24 PSI
Nozzle Type:	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN
Boom Height, Unit:	24 IN	28 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	C02	C02

Texas Agricultural Experiment Station

VOLUNTEER GLYTOL COTTON CONTROL

Trial ID: 138L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code	VOL COT	VOL COT	VOL COT	VOL COT
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/22/09	Jul/29/09	Aug/05/09	Aug/12/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description				
1	UNTREATED			A	2-4 LEAF	0.0 e	0.0 e		
2	AIM	1 oz/a	A	A	2-4 LEAF	92.3 c	90.7 c		
	COC	1 % v/v	A	A	2-4 LEAF				
3	ET	1.5 oz/a	A	A	2-4 LEAF	86.7 d	84.3 d		
	COC	1 % v/v	A	A	2-4 LEAF				
4	BUCTRIL	0.5 pt/a	A	A	2-4 LEAF	96.3 abc	97.0 a		
5	GRAMOXONE	32 oz/a	A	A	2-4 LEAF	98.0 ab	97.7 a		
	NIS	0.25 % v/v	A	A	2-4 LEAF				
6	SHARPEN	1 oz/a	A	A	2-4 LEAF	100.0 a	100.0 a		
	MSO	1 % v/v	A	A	2-4 LEAF				
7	SHARPEN	1.5 oz/a	A	A	2-4 LEAF	100.0 a	100.0 a		
	MSO	1 % v/v	A	A	2-4 LEAF				
8	SHARPEN	2 oz/a	A	A	2-4 LEAF	100.0 a	100.0 a		
	MSO	1 % v/v	A	A	2-4 LEAF				
9	LAYBY PRO	32 oz/a	A	A	2-4 LEAF	94.7 bc	96.0 ab		
	NIS	0.25 % v/v	A	A	2-4 LEAF				
10	TILLAGE			A	2-4 LEAF	94.7 bc	92.3 bc		
11	UNTREATED			B	6-8 LEAF			0.0 e	0.0 e
12	AIM	1 oz/a	B	B	6-8 LEAF			98.3 ab	96.0 ab
	COC	1 % v/v	B	B	6-8 LEAF				
13	ET	1.5 oz/a	B	B	6-8 LEAF			94.3 abc	91.7 bc
	COC	1 % v/v	B	B	6-8 LEAF				
14	BUCTRIL	0.5 pt/a	B	B	6-8 LEAF			90.7 c	88.3 c
15	GRAMOXONE	32 oz/a	B	B	6-8 LEAF			100.0 a	99.3 a
	NIS	0.25 % v/v	B	B	6-8 LEAF				
16	SHARPEN	1 oz/a	B	B	6-8 LEAF			100.0 a	100.0 a
	MSO	1 % v/v	B	B	6-8 LEAF				
17	SHARPEN	1.5 oz/a	A	A	6-8 LEAF			100.0 a	100.0 a
	MSO	1 % v/v	A	A	6-8 LEAF				
18	SHARPEN	2 oz/a	A	A	6-8 LEAF			100.0 a	100.0 a
	MSO	1 % v/v	A	A	6-8 LEAF				
19	LAYBY PRO	32 oz/a	B	B	6-8 LEAF			46.7 d	43.3 d
	NIS	0.25 % v/v	B	B	6-8 LEAF				
20	TILLAGE							93.3 bc	95.0 ab
LSD (P=.05)						4.17	3.79	5.44	4.88
Standard Deviation						2.43	2.21	3.17	2.84
CV						2.82	2.58	3.85	3.5
Bartlett's X2						6.293	4.555	7.289	5.987
P(Bartlett's X2)						0.279	0.473	0.121	0.307
Replicate F						0.750	0.266	0.411	0.808
Replicate Prob(F)						0.4868	0.7696	0.6691	0.4614
Treatment F						474.788	572.660	327.717	411.515
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VOLUNTEER GLYTOL COTTON CONTROL

Trial ID: 138L-09
Location: GLOVER

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	GOSHI COTTON	GOSSYPIMUM HIRSUTUM

SITE AND DESIGN

Plot Width, Unit:	13.33	FT	Plot Length, Unit:	50	FT	Reps:	3
Study Design: RANDOMIZED COMPLETE BLOCK							

SOIL DESCRIPTION

Texture:	LOAM
Soil Name:	ACUFF

APPLICATION DESCRIPTION

	A	B
Application Date:	Jul/13/09	Jul/29/09
Time of Day:	3:00 PM	10:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	A - EPOST	B - MPOST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	98 F	77 F
% Relative Humidity:	31	69
Wind Velocity, Unit:	4 MPH	2 MPH
Soil Temp., Unit:	91 F	78 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	0	30

CROP STAGE AT EACH APPLICATION

A	B
COTTON	COTTON

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	GOSHI COTTON	GOSHI COTTON
Stage Scale:	2-4 LEAF	6-8 LEAF

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	TRACTOR
Operating Pressure:	34	34
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	AIR

Texas Agricultural Experiment Station

WHEAT TOLERANCE AND WEED CONTROL WITH VALOR APPLIED POSTEMERGENCE

Trial ID: 145L-09
Location: ON STATION F305

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

WHEAT PHYTO PERCENT Oct/23/09 -24 DA-A	WHEAT PHYTO PERCENT Oct/30/09 -24 DA-A	WHEAT PHYTO PERCENT Nov/06/09 -24 DA-A	WHEAT PHYTO PERCENT Nov/12/09 -24 DA-A	WHEAT PHYTO PERCENT Nov/13/09 -24 DA-A	WHEAT INJURY PERCENT Nov/19/09	WHEAT PHYTO PERCENT Dec/01/09
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Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
1	UNTREATED							0.3 d	0.0 c	0.0 e	0.0 e	0.3 e	0.0 d
2	VALOR SX	0.032	lb ai/a	1	oz/a	1-2 LEAF	A	1.0 cd	0.8 c				
3	VALOR SX	0.064	lb ai/a	2	oz/a	1-2 LEAF	A	1.8 bc	2.0 b				
4	VALOR SX	0.128	lb ai/a	4	oz/a	1-2 LEAF	A	3.0 a	3.0 a				
5	VALOR SX	0.064	lb ai/a	2	oz/a	1-2 LEAF	A	2.3 ab	1.8 b				
	CLARITY	0.125	lb ai/a	4	oz/a	1-2 LEAF	A						
6	VALOR SX	0.032	lb ai/a	1	oz/a	3-4 LEAF	B			1.8 d		1.0 d	
7	VALOR SX	0.064	lb ai/a	2	oz/a	3-4 LEAF	B			2.8 c		2.3 c	
8	VALOR SX	0.128	lb ai/a	4	oz/a	3-4 LEAF	B			3.8 b		3.3 b	
9	VALOR SX	0.064	lb ai/a	2	oz/a	3-4 LEAF	B			4.8 a		4.8 a	
	CLARITY	0.125	lb ai/a	4	oz/a	3-4 LEAF	B						
10	VALOR SX	0.032	lb ai/a	1	oz/a	FEEKES 2	C			0.8 de		0.0 d	
11	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 2	C			1.8 cd		1.0 c	
12	VALOR SX	0.128	lb ai/a	4	oz/a	FEEKES 2	C			3.0 bc		2.0 b	
13	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 2	C			5.3 a		4.8 a	
	2,4-D AMINE	0.5	lb ai/a	1.05	pt/a	FEEKES 2	C						
14	2,4-D AMINE	0.5	lb ai/a	1.05	pt/a	FEEKES 2	C			4.3 ab		2.8 b	
15	VALOR SX	0.032	lb ai/a	1	oz/a	FEEKES 4	D						0.3 d
16	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 4	D						1.8 c
17	VALOR SX	0.128	lb ai/a	4	oz/a	FEEKES 4	D						2.5 b
18	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 4	D						3.8 a
	2,4-D AMINE	0.5	lb ai/a	1.05	pt/a	FEEKES 4	D						
LSD (P=.05)								1.06	0.76	0.95	1.62	0.74	0.84
Standard Deviation								0.69	0.49	0.62	1.07	0.48	0.56
CV								41.77	32.77	23.81	43.0	21.0	31.87
Bartlett's X2								1.923	1.357	2.182	13.384	0.0	1.357
P(Bartlett's X2)								0.589	0.716	0.536	0.004*	.	0.716
Replicate F								0.386	3.586	0.348	1.058	0.286	0.893
Replicate Prob(F)								0.7651	0.0466	0.7914	0.3962	0.8348	0.4675
Treatment F								9.632	22.241	35.087	14.365	54.857	43.071
Treatment Prob(F)								0.0010	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code		7 DAT	14 DAT
Crop Code		WHEAT	WHEAT
Rating Data Type		PHYTO	PHYTO
Rating Unit		PERCENT	PERCENT
Rating Date		Dec/08/09	
Trt-Eval Interval		-24 DA-A	-24 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	UNTREATED							0.0 e	0.3 h	0.0 h
2	VALOR SX	0.032	lb ai/a	1	oz/a	1-2 LEAF	A		1.0 fgh	0.8 gh
3	VALOR SX	0.064	lb ai/a	2	oz/a	1-2 LEAF	A		1.8 efg	2.0 de
4	VALOR SX	0.128	lb ai/a	4	oz/a	1-2 LEAF	A		3.0 cde	3.0 bc
5	VALOR SX	0.064	lb ai/a	2	oz/a	1-2 LEAF	A		2.3 ef	1.8 ef
	CLARITY	0.125	lb ai/a	4	oz/a	1-2 LEAF	A			
6	VALOR SX	0.032	lb ai/a	1	oz/a	3-4 LEAF	B		1.8 efg	1.0 fg
7	VALOR SX	0.064	lb ai/a	2	oz/a	3-4 LEAF	B		2.8 de	2.3 cde
8	VALOR SX	0.128	lb ai/a	4	oz/a	3-4 LEAF	B		3.8 bcd	3.3 b
9	VALOR SX	0.064	lb ai/a	2	oz/a	3-4 LEAF	B		4.8 ab	4.8 a
	CLARITY	0.125	lb ai/a	4	oz/a	3-4 LEAF	B			
10	VALOR SX	0.032	lb ai/a	1	oz/a	FEEKES 2	C		0.8 gh	0.0 h
11	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 2	C		1.8 efg	1.0 fg
12	VALOR SX	0.128	lb ai/a	4	oz/a	FEEKES 2	C		3.0 cde	2.0 de
13	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 2	C		5.3 a	4.8 a
	2,4-D AMINE	0.5	lb ai/a	1.05	pt/a	FEEKES 2	C			
14	2,4-D AMINE	0.5	lb ai/a	1.05	pt/a	FEEKES 2	C		4.3 abc	2.8 bcd
15	VALOR SX	0.032	lb ai/a	1	oz/a	FEEKES 4	D	0.8 d	0.3 h	0.8 gh
16	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 4	D	2.0 c	1.8 efg	2.0 de
17	VALOR SX	0.128	lb ai/a	4	oz/a	FEEKES 4	D	3.3 b	2.5 de	3.3 b
18	VALOR SX	0.064	lb ai/a	2	oz/a	FEEKES 4	D	4.8 a	3.8 bcd	4.8 a
	2,4-D AMINE	0.5	lb ai/a	1.05	pt/a	FEEKES 4	D			
LSD (P=.05)								0.70	1.16	0.80
Standard Deviation								0.46	0.82	0.57
CV								21.23	33.08	25.51
Bartlett's X2								1.796	28.045	5.329
P(Bartlett's X2)								0.407	0.021*	0.967
Replicate F								2.800	0.692	1.153
Replicate Prob(F)								0.0853	0.5610	0.3370
Treatment F								69.960	13.055	29.095
Treatment Prob(F)								0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

WHEAT TOLERANCE AND WEED CONTROL WITH VALOR APPLIED POSTEMERGENCE

Trial ID: 145L-09
Location: ON STATION F305

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LUBBOCK
State/Prov.: TX

Initiation Date: Oct/02/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Objective: To determine crop tolerance and weed control when Valor is applied at 1, 2, and 4 oz/A, to wheat at 1-2 leaf, 3-4 leaf, and Feekes growth stages 2 and 4. Treatments will be applied with and without a hormone type herbicide (2,4-D or Clarity). Measure of success will be crop tolerance equal to or greater than the 2,4-D standard at 1 pt/A. All treatments are core.

WHEAT Planting Date: Oct/02/09 Rate: 53 LB/ACRE Row Spacing: 7.5 INCH Soil Temperature: 64.7 F	Variety: TAM 111 Planting Method: DRILL ON BEDS Depth: 1.5 IN Seed Bed: 40 INCH BEDS Emergence Date: Oct/08/09
Soil Moisture: ADEQUATE	

SITE AND DESIGN

Plot Width, Unit: 13.33 FT **Plot Length, Unit:** 50 FT **Reps:** 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: ACUFF

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Oct/17/09	Oct/30/09	Nov/05/09	Nov/24/09
Time of Day:	9:45 AM	11:00 AM	9:00 AM	8:50 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	A 1-2 LF	B 3-4 LF	C FEEKES2	D FEEKES4
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	55 F	47 F	51.4 F	42.6 F
% Relative Humidity:	73	50	70	36.5
Wind Velocity, Unit:	1.5 MPH	13 MPH	5.5 MPH	2.5 MPH
Soil Temp., Unit:	60 F	43.6 F	52.7 F	44.1 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	DRY
% Cloud Cover:	30	0	10	0

CROP STAGE AT EACH APPLICATION

	A	B	C	D
	WHEAT	WHEAT	WHEAT	WHEAT
Stage Scale:	1-2 LEAF	3-4 LEAF	5-6 LEAF	7-8 LEAF
Height, Unit:			5 IN	6 IN

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CUB	CUB	CUB	CUB
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	TURBOTEE	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015	110015	110015
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Height, Unit:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	AIR	AIR

Treatment Application Comment

10-17-09 Treated A's - 1-2 leaves
10-30-09 Treated B's - 3-4 leaves with T1 emerging
11-5-09 Treated C's - 5-6 leaves with tillers at C1, T1, T2, T3 and T11
11-24-09 Treated D's - 7-8 leaves with mainstem tillers at leaves 1, 2, 3 and 4 with secondary tillers

Off-Station Trials

Texas Agricultural Experiment Station

GAT Crops - Recrop Tolerance

Trial ID: 101F-09
Location: Halfway

Study Dir.: Dr. Peter Dotray
Investigator: Dr. Wayne Keeling

Crop Code							GAT CORN	GAT CORN	GAT CORN	GAT CORN	CON CORN
Rating Data Type							HEIGHT	PLANT STAGE	INJURY	STAND	HEIGHT
Rating Unit							INCHES	# LEAF	PERCENT	PLANT/2M	INCHES
Rating Date							Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg					
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY B	4.000 a	2.0 a	0.0 a	13.0 a	3.500 a
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY B	4.500 a	2.0 a	0.0 a	12.7 a	2.833 b
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY B	3.917 a	2.0 a	0.0 a	14.3 a	2.667 bc
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY B	3.500 a	2.0 a	0.0 a	13.7 a	2.000 cd
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY B	3.333 a	2.0 a	0.0 a	13.0 a	1.250 ef
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY B	3.667 a	2.0 a	0.0 a	13.7 a	1.250 ef
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY B	4.167 a	2.0 a	0.0 a	13.3 a	0.917 ef
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY B	3.917 a	2.0 a	0.0 a	14.0 a	0.750 f
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY A	4.500 a	2.0 a	0.0 a	13.7 a	2.167 bcd
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY A	4.000 a	2.0 a	0.0 a	13.7 a	2.167 bcd
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY A	4.667 a	2.0 a	0.0 a	13.3 a	1.500 de
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY A	4.083 a	2.0 a	3.3 a	14.0 a	1.000 ef
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY A	3.000 a	2.0 a	3.3 a	13.3 a	1.083 ef
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY A	3.333 a	2.0 a	0.0 a	13.3 a	0.917 ef
15	UNTREATED CHECK						3.750 a	2.0 a	0.0 a	14.3 a	2.583 bc
LSD (P=.05)							0.9601	0.00	3.59	1.83	0.6323
Standard Deviation							0.5742	0.00	2.15	1.10	0.3767
CV							14.76	0.0	482.74	8.09	21.25
Bartlett's X2							10.472	0.0	0.0	12.946	9.927
P(Bartlett's X2)							0.655	.	.	0.373	0.70
Replicate F							4.327	0.000	0.483	0.683	0.509
Replicate Prob(F)							0.0230	1.0000	0.6221	0.5131	0.6069
Treatment F							2.028	0.000	0.897	0.580	15.302
Treatment Prob(F)							0.0541	1.0000	0.5713	0.8575	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						CON CORN	CON CORN	CON CORN	GAT SOYB	GAT SOYB
Rating Data Type						PLANT STAGE	INJURY	STAND	HEIGHT	PLANT STAGE
Rating Unit						# LEAF	PERCENT	PLANT/2M	INCHES	# LEAF
Rating Date						Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09
Trt	Treatment	Rate	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg	Code			
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	2.0 a	8.3 g	13.3 a
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	1.7 ab	15.0 g	13.0 a
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	1.3 bc	31.7 fg	13.7 a
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	1.0 cd	46.7 def	10.7 ab
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	0.7 d	68.3 bcd	11.7 a
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	0.7 d	90.0 ab	7.7 bc
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	0.0 e	91.3 ab	6.0 cd
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	0.0 e	98.3 a	2.3 d
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	1.0 cd	41.7 ef	13.3 a
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	1.0 cd	45.0 def	12.0 a
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	1.0 cd	60.0 cde	10.7 ab
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	0.0 e	91.7 ab	5.3 cd
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	0.7 d	83.3 abc	12.7 a
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	0.0 e	92.3 ab	5.7 cd
15	UNTREATED CHECK							2.0 a	15.0 g	13.3 a
LSD (P=.05)								0.56	23.33	3.46
Standard Deviation								0.34	13.95	2.07
CV								38.76	23.81	20.5
Bartlett's X2								0.0	21.149	24.607
P(Bartlett's X2)								1.00	0.098	0.039*
Replicate F								1.773	1.153	5.395
Replicate Prob(F)								0.1898	0.3302	0.0104
Treatment F								12.578	15.687	9.575
Treatment Prob(F)								0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						GAT SOYB	GAT SOYB	CONV SOY	CONV SOY	CONV SOY
Rating Data Type						INJURY	STAND	HEIGHT	PLANT STAGE	INJURY
Rating Unit						PERCENT	PLANT/2M	INCHES	# LEAF	PERCENT
Rating Date						Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09
Trt	Treatment	Rate	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg	Code			
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	0.0 a	12.3 a	1.000 ab
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	6.7 a	9.0 a	0.833 abc
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	3.3 a	9.0 a	0.750 bcd
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	13.3 a	6.7 a	0.500 de
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	3.3 a	14.0 a	0.500 de
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	3.3 a	11.7 a	0.417 e
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	3.3 a	7.0 a	0.500 de
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	3.3 a	11.7 a	0.417 e
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	0.0 a	17.3 a	0.750 bcd
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	3.3 a	13.3 a	0.583 cde
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	0.0 a	10.0 a	0.500 de
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	3.3 a	11.0 a	0.417 e
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	6.7 a	15.3 a	0.750 bcd
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	3.3 a	11.0 a	0.667 cde
15	UNTREATED CHECK							0.0 a	14.7 a	1.083 a
LSD (P=.05)								6.99	6.29	0.2559
Standard Deviation								4.18	3.76	0.1530
CV								117.52	32.44	23.74
Bartlett's X2								2.259	13.438	3.129
P(Bartlett's X2)								0.994	0.492	0.959
Replicate F								12.727	6.673	2.907
Replicate Prob(F)								0.0001	0.0043	0.0713
Treatment F								2.036	1.935	5.780
Treatment Prob(F)								0.0531	0.0668	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						CONV SOY	ALS SORG	ALS SORG	ALS SORG	ALS SORG
Rating Data Type						STAND	HEIGHT	PLANT STAGE	INJURY	STAND
Rating Unit						PLANT/2M	INCHES	# LEAF	PERCENT	PLANT/2M
Rating Date						Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09
Trt	Treatment	Rate	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg				
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY B	32.0 a	1.500 a	2.0 a	0.0 a
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY B	29.0 ab	1.167 a	2.0 a	1.7 a
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY B	29.3 a	1.833 a	2.0 a	0.0 a
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY B	27.0 abc	1.500 a	2.0 a	0.0 a
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY B	23.3 a-d	1.917 a	2.0 a	3.3 a
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY B	19.3 bcd	1.583 a	2.0 a	0.0 a
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY B	25.3 a-d	1.833 a	2.0 a	3.3 a
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY B	17.0 d	1.667 a	2.0 a	3.3 a
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY A	28.3 ab	1.500 a	2.0 a	0.0 a
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY A	22.7 a-d	2.000 a	2.0 a	0.0 a
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY A	30.3 a	1.333 a	2.0 a	0.0 a
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY A	18.3 cd	1.667 a	2.0 a	0.0 a
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY A	28.3 ab	1.500 a	2.0 a	0.0 a
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY A	23.7 a-d	1.833 a	2.0 a	5.0 a
15	UNTREATED CHECK						32.3 a	1.417 a	2.0 a	0.0 a
LSD (P=.05)							8.52	0.5128	0.00	5.34
Standard Deviation							5.09	0.3067	0.00	3.19
CV							19.78	18.97	0.0	287.41
Bartlett's X2							11.975	6.711	0.0	1.997
P(Bartlett's X2)							0.608	0.822	.	0.736
Replicate F							12.147	6.158	0.000	3.977
Replicate Prob(F)							0.0002	0.0061	1.0000	0.0302
Treatment F							2.760	1.734	0.000	0.895
Treatment Prob(F)							0.0108	0.1046	1.0000	0.5728

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						CON SORG	CON SORG	CON SORG	CON SORG	GAT CORN
Rating Data Type						HEIGHT	PLANT STAGE	INJURY	STAND	HEIGHT
Rating Unit						INCHES	# LEAF	PERCENT	PLANT/2M	INCHES
Rating Date						Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09	Jun/16/09
Trt	Treatment	Rate	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg	Code			
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	1.583	a-d	
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	2.167	a	
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	1.833	a-d	
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	2.000	abc	
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	1.667	a-d	
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	2.083	ab	
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	1.333	cde	
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	0.833	e	
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	1.917	abc	
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	1.833	a-d	
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	1.667	a-d	
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	1.583	a-d	
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	1.417	b-e	
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	1.167	de	
15	UNTREATED CHECK							1.667	a-d	
LSD (P=.05)								0.6247	0.57	20.44
Standard Deviation								0.3736	0.34	12.22
CV								22.64	18.78	49.1
Bartlett's X2								4.694	0.0	13.531
P(Bartlett's X2)								0.99	1.00	0.408
Replicate F								1.075	0.583	0.729
Replicate Prob(F)								0.3551	0.5647	0.4913
Treatment F								2.733	2.417	7.448
Treatment Prob(F)								0.0114	0.0228	0.0001
										0.0006
										0.1479

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code							GAT CORN	GAT CORN	GAT CORN	CON CORN	CON CORN
Rating Data Type							PLANT STAGE	INJURY	STAND	HEIGHT	PLANT STAGE
Rating Unit							# LEAF	PERCENT	PLANT/2M	INCHES	# LEAF
Rating Date							Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg	Code				
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	5.0 a	0.0 a	15.0 a	10.00 a
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	5.0 a	0.0 a	15.7 a	8.00 a
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	5.0 a	3.3 a	14.3 a	3.33 b
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	5.0 a	6.7 a	15.3 a	1.50 b
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	5.0 a	0.0 a	15.0 a	0.67 b
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	5.0 a	3.3 a	14.0 a	0.00 b
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	5.0 a	0.0 a	15.0 a	1.00 b
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	5.0 a	1.7 a	15.0 a	0.17 b
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	5.0 a	0.0 a	16.0 a	2.67 b
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	5.0 a	5.0 a	15.0 a	1.33 b
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	5.0 a	1.7 a	15.0 a	1.00 b
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	5.0 a	1.7 a	15.3 a	0.00 b
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	5.0 a	0.0 a	15.3 a	1.33 b
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	5.0 a	3.3 a	14.7 a	0.00 b
15	UNTREATED CHECK							5.0 a	0.0 a	15.7 a	9.00 a
LSD (P=.05)								0.00	6.60	1.06	2.887
Standard Deviation								0.00	3.94	0.63	1.727
CV								0.0	221.85	4.21	64.75
Bartlett's X2								0.0	7.71	3.129	24.838
P(Bartlett's X2)								.	0.359	0.959	0.006*
Replicate F								0.000	2.607	1.709	0.509
Replicate Prob(F)								1.0000	0.0916	0.1995	0.6067
Treatment F								0.000	0.878	1.945	11.849
Treatment Prob(F)								1.0000	0.5889	0.0653	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						CON CORN	CON CORN	GAT SOYB	GAT SOYB	GAT SOYB
Rating Data Type						INJURY	STAND	HEIGHT	PLANT STAGE	INJURY
Rating Unit						PERCENT	PLANT/2M	INCHES	# LEAF	PERCENT
Rating Date						Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl			
No.	Name	Rate	Unit	Rate	Unit	Stg	Code			
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	20.0 e	14.7 a	4.00 a
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	36.7 d	14.7 a	3.67 a
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	66.7 c	13.7 a	4.00 a
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	96.0 ab	14.0 a	3.67 a
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	96.7 ab	6.0 b	4.00 a
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	100.0 a	0.0 c	4.00 a
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	96.7 ab	1.7 c	3.83 a
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	99.7 a	1.3 c	3.83 a
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	81.7 b	14.3 a	3.83 a
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	96.7 ab	14.3 a	3.83 a
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	99.0 a	12.7 a	4.00 a
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	100.0 a	1.3 c	3.83 a
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	98.3 a	7.7 b	4.00 a
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	100.0 a	0.0 c	4.00 a
15	UNTREATED CHECK							0.0 f	14.3 a	4.00 a
LSD (P=.05)								14.46	3.84	0.321
Standard Deviation								8.65	2.30	0.192
CV								10.92	26.38	4.93
Bartlett's X2								31.927	30.884	2.064
P(Bartlett's X2)								0.001*	0.002*	0.914
Replicate F								0.710	1.090	8.581
Replicate Prob(F)								0.5004	0.3500	0.0012
Treatment F								44.206	22.431	1.226
Treatment Prob(F)								0.0001	0.0001	0.3118
										0.318
										0.7301
										1.682
										1.336
										0.2488

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code							GAT SOYB	CON SOYB	CON SOYB	CON SOYB	CON SOYB
Rating Data Type							STAND	HEIGHT	PLANT STAGE	INJURY	STAND
Rating Unit							PLANT/2M	INCHES	# LEAF	PERCENT	PLANT/2M
Rating Date							Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg	Code				
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	10.3 a	4.00 a	3.00 a	0.0 c
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	9.3 a	2.33 b	1.33 b	49.3 b
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	9.7 a	1.00 c	0.17 c	98.7 a
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	7.7 a	1.00 c	0.00 c	99.0 a
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	12.7 a	1.00 c	0.00 c	98.3 a
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	10.7 a	1.00 c	0.00 c	99.0 a
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	8.0 a	1.00 c	0.67 bc	96.3 a
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	11.3 a	1.00 c	0.00 c	99.0 a
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	16.7 a	0.83 c	0.00 c	98.7 a
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	11.7 a	1.00 c	0.00 c	99.0 a
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	8.3 a	1.00 c	0.00 c	99.0 a
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	11.0 a	1.00 c	0.00 c	98.7 a
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	11.3 a	1.33 c	0.83 bc	92.0 a
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	12.7 a	1.00 c	0.33 c	98.0 a
15	UNTREATED CHECK							13.7 a	2.67 b	2.33 a	31.7 b
LSD (P=.05)								5.53	0.882	0.882	29.12
Standard Deviation								3.30	0.527	0.527	17.42
CV								29.99	37.38	91.28	20.79
Bartlett's X2								12.439	3.701	4.321	72.975
P(Bartlett's X2)								0.571	0.296	0.504	0.001*
Replicate F								10.970	2.476	2.177	2.230
Replicate Prob(F)								0.0003	0.1023	0.1322	0.1263
Treatment F								1.531	8.596	9.623	9.454
Treatment Prob(F)								0.1660	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code							ALS SORG	ALS SORG	ALS SORG	ALS SORG	CON SORG						
Rating Data Type							HEIGHT	PLANT STAGE	INJURY	STAND	HEIGHT						
Rating Unit							INCHES	# LEAF	PERCENT	PLANT/2M	INCHES						
Rating Date							Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09						
Trt	Treatment	Rate	Product	Product	Grow	Appl											
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code										
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	8.000	a	5.0	a	0.0	a	31.0	a	9.083	a
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	8.500	a	5.0	a	0.0	a	28.0	a	8.333	ab
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	7.750	a	5.0	a	0.0	a	25.0	a	6.417	abc
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	7.417	a	5.0	a	0.0	a	29.3	a	3.917	cd
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	6.833	a	4.7	a	0.0	a	26.3	a	4.000	cd
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	7.667	a	5.0	a	0.0	a	26.7	a	3.000	cd
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	7.083	a	4.7	a	0.0	a	29.7	a	4.333	bcd
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	6.833	a	4.7	a	0.0	a	27.7	a	1.500	d
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	7.833	a	5.0	a	1.7	a	26.3	a	7.000	abc
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	6.917	a	5.0	a	0.0	a	26.7	a	3.167	cd
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	7.833	a	5.0	a	0.0	a	24.7	a	4.083	bcd
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	7.833	a	5.0	a	1.7	a	24.0	a	3.583	cd
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	7.583	a	5.0	a	0.0	a	29.0	a	4.833	bcd
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	6.833	a	4.3	a	5.0	a	23.3	a	1.417	d
15	UNTREATED CHECK							7.583	a	5.0	a	0.0	a	23.0	a	7.083	abc
LSD (P=.05)								2.0924		0.46		4.19		6.69		3.7622	
Standard Deviation								1.2513		0.27		2.50		4.00		2.2499	
CV								16.68		5.59		450.71		14.98		47.04	
Bartlett's X2								6.506		0.0		3.303		12.631		14.187	
P(Bartlett's X2)								0.952		.		0.192		0.556		0.436	
Replicate F								28.870		3.872		0.620		1.608		0.047	
Replicate Prob(F)								0.0001		0.0328		0.5450		0.2182		0.9542	
Treatment F								0.485		1.702		0.886		1.094		3.191	
Treatment Prob(F)								0.9224		0.1123		0.5810		0.4037		0.0043	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						CON SORG	CON SORG	CON SORG	GAT CORN	GAT CORN
Rating Data Type						PLANT STAGE	INJURY	STAND	INJURY	HEIGHT
Rating Unit						# LEAF	PERCENT	PLANT/2M	PERCENT	INCHES
Rating Date						Jun/16/09	Jun/16/09	Jun/16/09	Jul/10/09	Jul/10/09
Trt	Treatment	Rate	Unit	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg				
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY B	5.00 a	0.0 e	26.7 ab	0.0 c
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY B	4.00 ab	26.7 de	28.0 ab	3.3 bc
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY B	3.83 ab	30.0 cde	29.0 a	13.3 a
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY B	2.17 bcd	68.3 a-d	26.0 ab	10.0 ab
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY B	2.17 bcd	67.7 a-d	24.3 ab	5.0 bc
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY B	1.50 cd	84.3 abc	28.0 ab	6.7 abc
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY B	2.33 bcd	65.0 a-d	17.3 b	6.7 abc
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY B	1.00 d	90.0 ab	7.3 c	10.0 ab
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY A	3.33 abc	40.0 b-e	28.3 a	0.0 c
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY A	2.00 bcd	89.3 ab	26.3 ab	10.0 ab
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY A	2.50 bcd	76.7 a-d	22.0 ab	3.3 bc
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY A	1.33 cd	95.0 ab	26.0 ab	8.3 ab
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY A	2.67 bcd	56.7 a-d	23.3 ab	5.0 bc
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY A	0.83 d	99.0 a	8.0 c	8.3 ab
15	UNTREATED CHECK						4.00 ab	28.3 de	20.3 ab	0.0 c
LSD (P=.05)							1.819	47.48	9.30	6.53
Standard Deviation							1.088	28.39	5.56	3.90
CV							42.19	46.44	24.45	65.06
Bartlett's X2							11.402	16.607	28.519	5.586
P(Bartlett's X2)							0.495	0.12	0.012*	0.849
Replicate F							6.007	4.005	0.649	6.234
Replicate Prob(F)							0.0068	0.0295	0.5300	0.0058
Treatment F							3.813	3.332	4.636	3.344
Treatment Prob(F)							0.0013	0.0033	0.0003	0.0032

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

CON CORN	CON CORN	GAT SOYB	GAT SOYB	CON SOYB
INJURY	HEIGHT	INJURY	HEIGHT	INJURY
PERCENT	INCHES	PERCENT	INCHES	PERCENT
Jul/10/09	Jul/10/09	Jul/10/09	Jul/10/09	Jul/10/09

Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Unit	Stg	Code				
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	0.0 c	61.3 a	6.7 a	16.3 abc
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	6.7 bc	55.3 a	15.0 a	13.7 a-d
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	75.0 a	23.0 bc	33.3 a	11.7 cd
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	99.0 a	1.7 d	35.0 a	11.3 d
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	100.0 a	0.0 d	8.3 a	15.7 a-d
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	100.0 a	0.0 d	15.0 a	15.7 a-d
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	96.7 a	4.7 cd	10.0 a	13.0 bcd
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	100.0 a	0.0 d	15.0 a	14.7 a-d
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	81.7 a	19.3 bcd	8.3 a	18.3 a
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	98.3 a	3.0 d	23.3 a	15.7 a-d
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	100.0 a	0.0 d	10.0 a	16.0 a-d
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	100.0 a	0.0 d	11.7 a	15.0 a-d
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	99.3 a	0.3 d	26.7 a	12.0 cd
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	100.0 a	0.0 d	5.0 a	16.3 abc
15	UNTREATED CHECK							33.3 b	37.0 b	0.0 a	17.3 ab
LSD (P=.05)								27.08	17.86	20.89	4.02
Standard Deviation								16.19	10.68	12.49	2.40
CV								20.41	77.88	83.9	16.17
Bartlett's X2								36.684	24.028	10.847	16.687
P(Bartlett's X2)								0.001*	0.002*	0.624	0.273
Replicate F								1.618	0.674	2.236	6.757
Replicate Prob(F)								0.2163	0.5178	0.1256	0.0040
Treatment F								14.483	11.858	2.041	2.287
Treatment Prob(F)								0.0001	0.0001	0.0526	0.0304

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

CON SOYB	ALS SORG	ALS SORG	CON SORG	CON SORG
HEIGHT	INJURY	HEIGHT	INJURY	HEIGHT
INCHES	PERCENT	INCHES	PERCENT	INCHES
Jul/10/09	Jul/10/09	Jul/10/09	Jul/10/09	Jul/10/09

Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl			
No.	Name	Rate	Unit	Rate	Unit	Stg	Code			
1	EXPRESS	0.25	oz ai/a	0.0156	lb ai/a	PRE 7DAY	B	14.0	a	
2	EXPRESS	1.0	oz ai/a	0.0625	lb ai/a	PRE 7DAY	B	6.3	b	
3	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE 7DAY	B	0.0	c	
4	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE 7DAY	B	0.0	c	
5	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE 7DAY	B	1.0	c	
6	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE 7DAY	B	0.3	c	
7	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE 7DAY	B	0.0	c	
8	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE 7DAY	B	0.0	c	
9	ALLY	0.06	oz ai/a	0.00375	lb ai/a	PRE60DAY	A	0.0	c	
10	ALLY	0.24	oz ai/a	0.015	lb ai/a	PRE60DAY	A	0.0	c	
11	GLEAN XP	0.375	oz ai/a	0.0234	lb ai/a	PRE60DAY	A	0.0	c	
12	GLEAN XP	1.50	oz ai/a	0.094	lb ai/a	PRE60DAY	A	0.0	c	
13	STAPLE LX	2.12	oz/a	0.053	lb ai/a	PRE60DAY	A	0.3	c	
14	STAPLE LX	8.5	oz/a	0.212	lb ai/a	PRE60DAY	A	1.7	c	
15	UNTREATED CHECK							7.3	b	
LSD (P=.05)								4.61		
Standard Deviation								2.76		
CV								133.52		
Bartlett's X2								21.723		
P(Bartlett's X2)								0.001*		
Replicate F								2.241		
Replicate Prob(F)								0.1250		
Treatment F								6.468		
Treatment Prob(F)								0.0001		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

GAT Crops - Recrop Tolerance

Trial ID: 101F-09
Location: Halfway

Study Dir.: Dr. Peter Dotray
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: Dr. Peter Dotray
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: Mar/16/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

GAT CORN
Planting Date: May/18/09
Rate: 28800 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F
Variety: GAT
Planting Method: 4 ROW
Soil Moisture: NORMAL

CONVENTIONAL CORN
Planting Date: May/18/09
Rate: 28800 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F
Variety: PIONEER 33B54 RRB2
Planting Method: 4 ROW
Soil Moisture: NORMAL

GAT SOYBEAN
Planting Date: May/18/09
Rate: 89000 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F
Variety: GAT
Planting Method: 4 ROW
Soil Moisture: NORMAL

CONVENTIONAL SOYBEAN
Planting Date: May/18/09
Rate: 89000 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F
Variety: PIONEER 94Y01 RR
Planting Method: 4 ROW
Soil Moisture: NORMAL

ALS SORGHUM
Planting Date: May/18/09
Rate: 58800 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F
Variety: ALS
Planting Method: 4 ROW
Soil Moisture: NORMAL

CONVENTIONAL SORGHUM
Planting Date: May/18/09
Rate: 58800 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F
Variety: PIONEER 84G62
Planting Method: 4 ROW
Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 40 FT
Plot Length, Unit: 25 FT
Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM

APPLICATION DESCRIPTION

	A	B
Application Date:	Mar/16/09	May/11/09
Time of Day:	10:00 AM	10:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	A 60DBP	B 7 DBP
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	50 F	50 F
% Relative Humidity:	53.4	100
Wind Velocity, Unit:	7 MPH	8 MPH
Soil Temp., Unit:	45.2 F	58.1 F
Soil Moisture:	DRY	ADEQUATE
% Cloud Cover:	0	100

Texas Agricultural Experiment Station

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BLUE CUB	BLUE CUB
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	TURBOTEET	TURBOTEET
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	WATER	
Incorp. Depth, Unit:	0.5 IN	
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	AIR

Treatment Application Comment

3/17/09 - IRRIGATED WITH 0.5" TO INCORPORATE 60 DBP APPLICATIONS
 4/15/09 - DRY FERTILIZER APPLIED/INCORPORATED WITH ROLLING CULTIVATOR
 5/18/09 - PLANTED 2 ROWS/VARIETY PER REPLICATION (NOT RODWEEDED PRIOR TO PLANTING)
 IRRIGATION APPLIED AFTER PLANTING
 7/10/09 - TERMINATED WITH SHREDDER BY SHREDDING 2 TIMES OVER ENTIRE AREA

Texas Agricultural Experiment Station

GAT CORN - PROGRAMS CONVENTIONAL

Trial ID: 102F-09
Location: HALFWAY 3B

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

CORN HEIGHT INCHES	CORN STAGE # LEAF	CORN STAND PLANT/2M	CORN INJURY PERCENT	CORN HEIGHT INCHES	CORN STAGE # LEAF
Jun/01/09 14 DA-A	Jun/01/09 14 DA-A	Jun/01/09 14 DA-A	Jun/01/09 14 DA-A	Jun/16/09	Jun/16/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code												
1	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	5.167	a	2.0	a	13.7	a	0.0	a	12.67	a	4.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A												
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A												
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A												
2	CINCH ATZ	2.9	lb ai/a	2.1	qt/a	PRE	A	4.500	a	2.0	a	14.3	a	0.0	a	12.83	a	4.0	a
3	LUMAX	2.96	lb ai/a	3.0	qt/a	PRE	A	4.833	a	2.0	a	13.7	a	0.0	a	12.67	a	4.0	a
4	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	4.833	a	2.0	a	12.3	a	0.0	a	13.00	a	4.0	a
	AMS	2	lb/a			EPOST	B												
5	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	5.000	a	2.0	a	13.7	a	0.0	a	13.00	a	4.0	a
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	EPOST	B												
	AMS	2	lb/a			EPOST	B												
6	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	4.833	a	2.0	a	13.3	a	0.0	a	13.83	a	4.0	a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	EPOST	B												
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B												
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	EPOST	B												
	AMS	2	lb/a			EPOST	B												
7	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	4.167	a	2.0	a	13.0	a	0.0	a	12.83	a	4.0	a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	EPOST	B												
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B												
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	EPOST	B												
	ATRAZINE	1	lb ai/a	16	oz ai/a	EPOST	B												
	AMS	2	lb/a			EPOST	B												
8	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	5.083	a	2.0	a	13.0	a	0.0	a	13.17	a	4.0	a
	HARMONY GT	0.0078	lb ai/a	0.125	oz ai/a	EPOST	B												
	EXPRESS	0.0078	lb ai/a	0.125	oz ai/a	EPOST	B												
	CLASSIC	0.0052	lb ai/a	0.083	oz ai/a	EPOST	B												
	AMS	2	lb/a			EPOST	B												
9	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	4.500	a	2.0	a	13.7	a	0.0	a	12.67	a	4.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A												
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A												
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C												
	AMS	2	lb/a			MPOST	C												
10	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	4.333	a	2.0	a	14.0	a	0.0	a	12.00	a	4.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A												
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A												
	ATRAZINE	1.25	lb ai/a	20	oz ai/a	PRE	A												
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C												
	AMS	2	lb/a			MPOST	C												
11	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	5.000	a	2.0	a	14.0	a	0.0	a	12.67	a	4.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A												
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A												
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A												
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C												
	AMS	2	lb/a			MPOST	C												
12	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A	4.583	a	2.0	a	14.0	a	0.0	a	12.67	a	4.0	a
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C												
	AMS	2	lb/a			MPOST	C												
13	CINCH	0.955	lb ai/a	1	pt/a	PRE	A	4.667	a	2.0	a	13.3	a	0.0	a	13.83	a	4.0	a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	MPOST	C												
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	MPOST	C												
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	MPOST	C												
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C												
	ATRAZINE	1	lb ai/a	16	oz ai/a	MPOST	C												
	AMS	2	lb/a			MPOST	C												
14	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	5.000	a	2.0	a	13.7	a	0.0	a	13.00	a	4.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A												
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A												
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C												
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	MPOST	C												
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	MPOST	C												
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	MPOST	C												
	AMS	2	lb/a			MPOST	C												

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

CORN	CORN	CORN	CORN	CORN	CORN
HEIGHT	STAGE	STAND	INJURY	HEIGHT	STAGE
INCHES	# LEAF	PLANT/2M	PERCENT	INCHES	# LEAF
Jun/01/09	Jun/01/09	Jun/01/09	Jun/01/09	Jun/16/09	Jun/16/09
14 DA-A	14 DA-A	14 DA-A	14 DA-A		

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code
15	UNTREATED CHECK	4.167	a	2.0	a	13.7	a
	LSD (P=.05)	1.1567		0.00		1.67	0.00
	Standard Deviation	0.6917		0.00		1.00	0.00
	CV	14.68		0.0		7.35	0.0
	Bartlett's X2	8.889		0.0		7.857	0.0
	P(Bartlett's X2)	0.838		.		0.726	.
	Replicate F	7.335		0.000		0.425	0.000
	Replicate Prob(F)	0.0027		1.0000		0.6580	1.0000
	Treatment F	0.665		0.000		0.751	0.000
	Treatment Prob(F)	0.7875		1.0000		0.7086	1.0000

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

	CORN	CORN	PIGWEEED	PIGWEEED	CORN	PIGWEEED
	STAND	INJURY	CONTROL	# PLANTS	INJURY	CONTROL
	PLANT/2M	PERCENT	PERCENT	ROW 2-3	PERCENT	PERCENT
	Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09	Jun/24/09	Jun/24/09

Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl						
No.	Name		Unit	Rate	Rate	Stg	Code						
1	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	14.0	a	1.7	bc	100.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A						
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A						
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A						
2	CINCH ATZ	2.9	lb ai/a	2.1	qt/a	PRE	A	14.7	a	0.0	c	100.0	a
3	LUMAX	2.96	lb ai/a	3.0	qt/a	PRE	A	13.7	a	0.0	c	100.0	a
4	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	15.0	a	0.0	c	0.0	b
	AMS	2	lb/a			EPOST	B					13.0	a
5	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	14.7	a	0.0	c	0.0	b
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	EPOST	B					20.7	a
	AMS	2	lb/a			EPOST	B					4.3	bcd
6	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	13.7	a	0.0	c	0.0	b
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	EPOST	B					21.7	a
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B					0.0	d
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
7	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	14.7	a	0.0	c	0.0	b
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	EPOST	B					16.7	a
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B					0.0	d
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	EPOST	B						
	ATRAZINE	1	lb ai/a	16	oz ai/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
8	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	14.7	a	0.0	c	0.0	b
	HARMONY GT	0.0078	lb ai/a	0.125	oz ai/a	EPOST	B					10.7	a
	EXPRESS	0.0078	lb ai/a	0.125	oz ai/a	EPOST	B					1.7	cd
	CLASSIC	0.0052	lb ai/a	0.083	oz ai/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
9	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	15.0	a	0.0	c	100.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A					0.0	a
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A					0.0	d
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C						
	AMS	2	lb/a			MPOST	C						
10	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	13.0	a	6.0	a	100.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A					0.0	a
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A					7.3	ab
	ATRAZINE	1.25	lb ai/a	20	oz ai/a	PRE	A						
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C						
	AMS	2	lb/a			MPOST	C						
11	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	13.0	a	5.0	ab	100.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A					0.0	a
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A					2.3	bcd
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A						
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C						
	AMS	2	lb/a			MPOST	C						
12	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A	15.0	a	4.3	ab	100.0	a
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C					0.0	a
	AMS	2	lb/a			MPOST	C					6.7	abc
13	CINCH	0.955	lb ai/a	1	pt/a	PRE	A	13.7	a	3.3	abc	100.0	a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	MPOST	C					0.0	a
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	MPOST	C					0.0	d
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	MPOST	C						
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C						
	ATRAZINE	1	lb ai/a	16	oz ai/a	MPOST	C						
	AMS	2	lb/a			MPOST	C						
14	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	14.3	a	0.0	c	100.0	a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A					0.0	a
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A					0.0	d
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C						
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	MPOST	C						
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	MPOST	C						
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	MPOST	C						
	AMS	2	lb/a			MPOST	C						
15	UNTREATED CHECK							14.0	a	0.0	c	0.0	b
	LSD (P=.05)							1.81		3.55		0.00	
	Standard Deviation							1.08		2.12		0.00	
	CV							7.62		156.46		0.0	
	Bartlett's X2							4.552		2.823		0.0	
	P(Bartlett's X2)							0.991		0.588		.	
												15.3	a
												0.0	d
												4.92	
												2.94	
												127.19	
												0.0	
												7.955	
												0.241	
												.	

Texas Agricultural Experiment Station

Weed Code			PIGWEEED	PIGWEEED		PIGWEEED
Crop Code						
Rating Data Type	CORN	CORN	CONTROL	# PLANTS	CORN	CONTROL
Rating Unit	STAND	INJURY	PERCENT	ROW 2-3	PERCENT	PERCENT
Rating Date	PLANT/2M	PERCENT	PERCENT	ROW 2-3	PERCENT	PERCENT
Trt-Eval Interval	Jun/16/09	Jun/16/09	Jun/16/09	Jun/16/09	Jun/24/09	Jun/24/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code
Replicate F		1.081	5.118	0.000	3.574	1.276	0.000
Replicate Prob(F)		0.3529	0.0128	1.0000	0.0415	0.2950	1.0000
Treatment F		1.211	3.149	0.000	1.973	3.733	0.000
Treatment Prob(F)		0.3210	0.0047	1.0000	0.0612	0.0015	1.0000

Means followed by same letter do not significantly differ ($P=.05$, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

PIGWEEED		PIGWEEED	
CORN		CORN	
INJURY	CONTROL	INJURY	CONTROL
PERCENT	PERCENT	PERCENT	PERCENT
Jul/01/09	Jul/01/09	Jul/10/09	Jul/10/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	5.0 a	100.0 a	0.0 a	100.0 a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A				
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A				
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A				
2	CINCH ATZ	2.9	lb ai/a	2.1	qt/a	PRE	A	0.0 a	100.0 a	0.0 a	98.3 a
3	LUMAX	2.96	lb ai/a	3.0	qt/a	PRE	A	0.0 a	100.0 a	0.0 a	98.0 a
4	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	0.0 a	98.7 b	0.0 a	95.0 b
	AMS	2	lb/a			EPOST	B				
5	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	0.0 a	100.0 a	0.0 a	100.0 a
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	EPOST	B				
	AMS	2	lb/a			EPOST	B				
6	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	0.0 a	100.0 a	0.0 a	100.0 a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	EPOST	B				
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B				
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	EPOST	B				
	AMS	2	lb/a			EPOST	B				
7	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	0.0 a	100.0 a	0.0 a	100.0 a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	EPOST	B				
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B				
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	EPOST	B				
	ATRAZINE	1	lb ai/a	16	oz ai/a	EPOST	B				
	AMS	2	lb/a			EPOST	B				
8	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	EPOST	B	0.0 a	100.0 a	0.0 a	100.0 a
	HARMONY GT	0.0078	lb ai/a	0.125	oz ai/a	EPOST	B				
	EXPRESS	0.0078	lb ai/a	0.125	oz ai/a	EPOST	B				
	CLASSIC	0.0052	lb ai/a	0.083	oz ai/a	EPOST	B				
	AMS	2	lb/a			EPOST	B				
9	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	0.0 a	99.7 a	0.0 a	99.7 a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A				
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A				
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C				
	AMS	2	lb/a			MPOST	C				
10	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	0.0 a	99.7 a	0.0 a	99.7 a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A				
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A				
	ATRAZINE	1.25	lb ai/a	20	oz ai/a	PRE	A				
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C				
	AMS	2	lb/a			MPOST	C				
11	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	1.7 a	100.0 a	0.0 a	98.3 a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A				
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A				
	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A				
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C				
	AMS	2	lb/a			MPOST	C				
12	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A	1.7 a	100.0 a	0.0 a	100.0 a
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C				
	AMS	2	lb/a			MPOST	C				
13	CINCH	0.955	lb ai/a	1	pt/a	PRE	A	0.0 a	99.3 ab	0.0 a	98.3 a
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	MPOST	C				
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	MPOST	C				
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	MPOST	C				
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C				
	ATRAZINE	1	lb ai/a	16	oz ai/a	MPOST	C				
	AMS	2	lb/a			MPOST	C				
14	RESOLVE	0.0203	lb ai/a	0.325	oz ai/a	PRE	A	0.0 a	100.0 a	0.0 a	100.0 a
	CLASSIC	0.0203	lb ai/a	0.325	oz ai/a	PRE	A				
	MESOTRIONE	0.134	lb ai/a	2.15	oz ai/a	PRE	A				
	TOUCHDOWN TOTAL	0.96	lb ai/a	24	oz/a	MPOST	C				
	RESOLVE	0.0156	lb ai/a	0.25	oz ai/a	MPOST	C				
	EXPRESS	0.0118	lb ai/a	0.188	oz ai/a	MPOST	C				
	MESOTRIONE	0.078	lb ai/a	1.25	oz ai/a	MPOST	C				
	AMS	2	lb/a			MPOST	C				
15	UNTREATED CHECK							0.0 a	0.0 c	0.0 a	0.0 c
LSD (P=.05)								4.11	0.80	0.00	1.96
Standard Deviation								2.46	0.48	0.00	1.17
CV								442.07	0.52	0.0	1.27
Bartlett's X2								3.303	1.714	0.0	8.508
P(Bartlett's X2)								0.192	0.634	.	0.13

Texas Agricultural Experiment Station

Weed Code	PIGWEEED		PIGWEEED	
Crop Code	CORN		CORN	
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/01/09	Jul/01/09	Jul/10/09	Jul/10/09
Trt-Eval Interval				

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code
Replicate F		1.197		0.384		0.000	1.087
Replicate Prob(F)		0.3170		0.6850		1.0000	0.3511
Treatment F		0.921		8599.083		0.000	1437.805
Treatment Prob(F)		0.5489		0.0001		1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

GAT CORN - PROGRAMS CONVENTIONAL

Trial ID: 102F-09
Location: HALFWAY 3B

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: May/18/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH

CORN Variety: GAT
Planting Date: May/18/09 Planting Method: 4 ROW
Rate: 28000 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F Soil Moisture: NORMAL

CONVENTIONAL CORN BORDER Variety: PIONEER 33B54 RRB2
Planting Date: May/18/09 Planting Method: 4 ROW
Rate: 28000 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May/18/09	Jun/16/09	
Time of Day:	11:00 AM	3:30 PM	
Application Method:	SPRAY	SPRAY	NO SPRAY
Application Timing:	PRE A'S	EPOST B'S	MPOST C'S
Applic. Placement:	BROADCAST	BROADCAST	
Air Temp., Unit:	78 F	96 F	
% Relative Humidity:	30	17	
Wind Velocity, Unit:	8 MPH	4 MPH	
Soil Temp., Unit:	65 F	92 F	
Soil Moisture:	ADEQUATE	WET	
% Cloud Cover:	0	0	

CROP STAGE AT EACH APPLICATION

	A	B	C
	CORN	CORN	
Stage Scale:	PRE	5-6	LEAF
Height, Unit:	N/A	13	IN

WEED STAGE AT EACH APPLICATION

	A	B	C
	PIGWEEED		
Stage Scale:	HEIGHT		
Density, Unit:	2-4	IN	

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	TRACTOR	BACKPACK	
Operating Pressure:	30 PSI	28 PSI	
Nozzle Type:	TURBOTEE	TURBOTEE	
Nozzle Size:	110015	110015	
Nozzle Spacing, Unit:	20 IN	19 IN	
Boom Height, Unit:	18 IN	18 IN	
Ground Speed, Unit:	3 MPH	3 MPH	
Carrier:	WATER	WATER	
Spray Volume, Unit:	10 GPA	10 GPA	
Propellant:	AIR	CO2	

Texas Agricultural Experiment Station

Treatment Application Comment

5/18/09 - RODWEEDED AND PLANTED
MPOST TIMING WAS NEVER APPLIED DUE TO LACK OF WEED PRESSURE
7/10/09 - TERMINATED TRIAL BY SHREDDING TWO TIMES OVER TRIAL AREA
7/15/09 - DISKED TRIAL AREA

Texas Agricultural Experiment Station

SORGHUM UNIVERSITY ALS

Trial ID: 103F-09
Location: HALFWAY 3B

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

SORGHUM INJURY PERCENT Jul/01/09	SORGHUM HEIGHT INCHES Jul/01/09	SORGHUM LEAF NEC PERCENT Jul/01/09	SORGHUM STUNT PERCENT Jul/08/09	SORGHUM CHLOR/NEC PERCENT Jul/08/09
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Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl										
No.	Name	Rate	Unit	Rate	Unit	Stg	Code										
1	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	e	25.0	ab	0.0	c	0.0	c		
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
2	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	25.0	a	18.7	c	3.3	b	23.3	ab	5.0	b
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B										
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
3	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	16.7	bc	20.7	bc	10.0	a	30.0	a	6.7	a
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B										
	2,4-D AMINE	0.25	lb ai/a	8.4	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
4	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	1.7	e	26.3	a	0.7	c	3.3	de	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B										
	STARANE	0.047	lb ai/a	4	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
5	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	20.0	ab	22.3	abc	0.0	c	16.7	bc	0.0	c
	ACCENT	0.0238	lb ai/a	0.38	oz ai/a	EPOST	B										
	RESOLVE	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B										
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
6	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	10.0	cd	23.7	ab	0.0	c	3.3	de	0.7	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B										
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
7	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	16.7	bc	22.0	abc	0.0	c	10.0	cd	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B										
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
8	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	3.3	de	24.3	ab	1.7	bc	1.7	de	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B										
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B										
	STARANE	0.047	lb ai/a	4	oz/a	EPOST	B										
	COC	1	% v/v	12.8	oz/a	EPOST	B										
	AMS	2	lb/a			EPOST	B										
9	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A	0.0	e	26.3	a	0.0	c	0.0	e	0.0	c
10	UNTREATED CHECK							0.0	e	27.0	a	0.0	c	0.0	e	0.0	c
LSD (P=.05)								7.18		4.46		2.42		8.59		1.03	
Standard Deviation								4.18		2.60		1.41		5.01		0.60	
CV								44.82		10.99		89.93		56.71		48.6	
Bartlett's X2								6.075		7.908		1.622		9.171		0.151	
P(Bartlett's X2)								0.299		0.543		0.444		0.164		0.698	
Replicate F								0.048		0.094		0.067		1.627		1.206	
Replicate Prob(F)								0.9536		0.9108		0.9353		0.2241		0.3224	
Treatment F								15.683		3.267		15.076		14.173		50.732	
Treatment Prob(F)								0.0001		0.0156		0.0001		0.0001		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED PIGWEED
PLANTS/PLOT CONTROL SORGHUM SORGHUM
ROW2-3 PERCENT STUNT NECROSIS CONTROL
Jul/08/09 Jul/08/09 PERCENT PERCENT PERCENT
Jul/21/09 Jul/21/09 Jul/21/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
2	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	13.3 ab
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					3.3 b
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B					
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
3	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	23.3 a
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					10.0 a
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B					
	2,4-D AMINE	0.25	lb ai/a	8.4	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
4	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	11.7 ab
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					0.0 b
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B					
	STARANE	0.047	lb ai/a	4	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
5	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	11.7 ab
	ACCENT	0.0238	lb ai/a	0.38	oz ai/a	EPOST	B					0.0 b
	RESOLVE	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B					
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
6	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	6.7 b
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					1.7 b
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B					
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
7	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	8.3 b
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					0.0 b
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B					
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
8	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	1.7 b
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B					0.0 b
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B					
	STARANE	0.047	lb ai/a	4	oz/a	EPOST	B					
	COC	1	% v/v	12.8	oz/a	EPOST	B					
	AMS	2	lb/a			EPOST	B					
9	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A	12.3	b	65.0	b	0.0 b
10	UNTREATED CHECK							31.0	a	0.0	c	0.0 b
	LSD (P=.05)							9.31		2.71		11.65
	Standard Deviation							5.43		1.58		6.79
	CV							125.25		1.83		88.57
	Bartlett's X2							1.367		0.0		6.431
	P(Bartlett's X2)							0.242		.		0.377
	Replicate F							1.841		1.000		0.940
	Replicate Prob(F)							0.1873		0.3874		0.4091
	Treatment F							10.472		1253.667		3.783
	Treatment Prob(F)							0.0001		0.0001		0.0078
												0.0002
												0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code Crop Code Rating Data Type Rating Unit Rating Date	PIGWEED PIGWEED PIGWEED PLANTS/PLOT CONTROL PLANTS/PLOT ROW2-3 PERCENT ROW1-2 Jul/21/09 Aug/19/09 Aug/19/09
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Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
2	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B						
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
3	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B						
	2,4-D AMINE	0.25	lb ai/a	8.4	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
4	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B						
	STARANE	0.047	lb ai/a	4	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
5	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0238	lb ai/a	0.38	oz ai/a	EPOST	B						
	RESOLVE	0.0118	lb ai/a	0.188	oz ai/a	EPOST	B						
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
6	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B						
	ATRAZINE	1	lb ai/a	17.8	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
7	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B						
	CLARITY	0.25	lb ai/a	8	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
8	ATRAZINE	1	lb ai/a	17.8	oz/a	PRE	A	0.0	c	100.0	a	0.0	c
	ACCENT	0.0313	lb ai/a	0.50	oz ai/a	EPOST	B						
	ALLY	0.00375	lb ai/a	0.06	oz ai/a	EPOST	B						
	STARANE	0.047	lb ai/a	4	oz/a	EPOST	B						
	COC	1	% v/v	12.8	oz/a	EPOST	B						
	AMS	2	lb/a			EPOST	B						
9	CINCH ATZ	1.92	lb ai/a	1.4	qt/a	PRE	A	12.3	b	81.7	b	7.3	b
10	UNTREATED CHECK							22.7	a	0.0	c	18.0	a
LSD (P=.05)								9.55		6.83		3.90	
Standard Deviation								5.57		3.98		2.27	
CV								159.07		4.51		89.72	
Bartlett's X2								0.049		0.0		0.007	
P(Bartlett's X2)								0.824		.		0.935	
Replicate F								2.216		1.000		2.097	
Replicate Prob(F)								0.1379		0.3874		0.1518	
Treatment F								5.844		188.123		20.232	
Treatment Prob(F)								0.0007		0.0001		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SORGHUM UNIVERSITY ALS

Trial ID: 103F-09
Location: HALFWAY 3B

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: May/18/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH

Sorghum Variety: ALS
Planting Date: May/18/09 Planting Method: 4 ROW
Rate: 58000 PLANTS/ACR
Row Spacing: 40 IN
Soil Temperature: 65 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM

APPLICATION DESCRIPTION

	A	B
Application Date:	May/18/09	Jun/24/09
Time of Day:	12:00 PM	10:45 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE A'S	EPOST B'S
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	78 F	90 F
% Relative Humidity:	30	43
Wind Velocity, Unit:	8 MPH	4.3 MPH
Soil Temp., Unit:	65 F	78.3 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
	Sorghum	Sorghum
Stage Scale:	PRE	8-9 LF
Height, Unit:	N/A	13.5 IN

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	30 PSI	24 PSI
Nozzle Type:	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	20 IN	19 IN
Boom Height, Unit:	18 IN	32 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	CO2

Treatment Application Comment

5/18/09 - RODWEEDED AND PLANTED

Texas Agricultural Experiment Station

NEW PROWL H2O / RR COTTON / EFFICACY / POST - I

Trial ID: 104F-09 Study Dir.: DR. PETER DOTRAY

Location: HELMS 2D Investigator: KELLER KYLE

Weed Code										AMAPA	HIBTR								
Crop Code							COTTON	COTTON	COTTON			COTTON							
Part Rated							PX	PX											
Rating Data Type							PHYTO	INJURY	STUNT	CONTROL	CONTROL	PHYTO							
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT							
Rating Date							Jun/23/09	Jun/23/09	Jun/23/09	Jun/23/09	Jun/23/09	Jul/01/09							
Assessed By							PHYTOX	CONTRO_1											
Trt-Eval Interval							1	2	6 DA-A	6 DA-A	6 DA-A	14 DA-A							
ARM Action Codes							P	P											
# Subsamples, Dec.							1	1											
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code												
1	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A	0.0	g	0.0	f	0.0	f	100.0	a	60.0	a	0.0	c
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
2	0.5X LABEL RATE							10.7	cd	6.0	cd	6.0	cd	100.0	a	60.0	a	5.0	b
	PROWL H2O	0.5	lb ai/a	16.9	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
3	0.5X LABEL RATE							3.7	f	2.3	ef	2.3	ef	100.0	a	60.0	a	5.0	b
	CANDIDATE 1 455 UL H	0.5	lb ai/a	15.7	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
4	0.5X LABEL RATE							4.3	f	2.7	e	2.7	e	100.0	a	60.0	a	5.0	b
	CANDIDATE 2 455 UK H	0.5	lb ai/a	15.5	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
5	0.75X LABEL RATE							15.0	b	9.3	b	9.3	b	100.0	a	60.0	a	7.3	b
	PROWL H2O	0.75	lb ai/a	25.3	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
6	0.75X LABEL RATE							10.0	cd	5.0	de	5.0	de	100.0	a	60.0	a	6.7	b
	CANDIDATE 1 455 UL H	0.75	lb ai/a	23.6	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
7	0.75X LABEL RATE							6.7	ef	3.7	de	3.7	de	100.0	a	60.0	a	6.7	b
	CANDIDATE 2 455 UK H	0.75	lb ai/a	23.2	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
8	1X LABEL RATE							13.3	bc	8.3	bc	8.3	bc	100.0	a	60.0	a	10.0	a
	PROWL H2O	1	lb ai/a	33.8	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
9	1X LABEL RATE							10.0	cd	5.0	de	5.0	de	100.0	a	60.0	a	5.0	b
	CANDIDATE 1 455 UL H	1	lb ai/a	31.4	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
10	1X LABEL RATE							8.7	de	4.7	de	4.7	de	100.0	a	60.0	a	5.0	b
	CANDIDATE 2 455 UK H	1	lb ai/a	31	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
11	2X LABEL RATE							18.3	a	13.3	a	13.3	a	100.0	a	61.7	a	10.0	a
	PROWL H2O	2	lb ai/a	67.5	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
12	2X LABEL RATE							13.0	bc	8.7	bc	8.7	bc	100.0	a	61.7	a	10.0	a
	CANDIDATE 1 455 UL H	2	lb ai/a	63	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
13	2X LABEL RATE							10.7	cd	6.0	cd	6.0	cd	100.0	a	61.7	a	10.0	a
	CANDIDATE 2 455 UK H	2	lb ai/a	62	oz/a	4-8	A												
	AMMONIUM SULFATE	17.0	lb/100 gal	17.0	lb/100 gal	4-8	A												
	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a	4-8	A												
LSD (P=.05)								3.01		2.53		2.53		0.00		2.13		2.27	
Standard Deviation								1.79		1.50		1.50		0.00		1.27		1.35	
CV								18.67		26.06		26.06		0.0		2.1		20.43	
Bartlett's X2								5.091		10.953		10.953		0.0		0.0		0.047	
P(Bartlett's X2)								0.748		0.279		0.279		.		.		0.977	
Replicate F								0.129		0.238		0.238		0.000		3.600		0.693	
Replicate Prob(F)								0.8799		0.7899		0.7899		1.0000		0.0429		0.5096	
Treatment F								23.375		16.204		16.204		0.000		1.000		14.231	
Treatment Prob(F)							116	0.0001		0.0001		0.0001		1.0000		0.4777		0.0001	

Weed Code							AMAPA	HIBTR	
Crop Code						COTTON	COTTON	COTTON	COTTON
Part Rated						PX	PX		
Rating Data Type						PHYTO	INJURY	STUNT	CONTROL
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						Jun/23/09	Jun/23/09	Jun/23/09	Jun/23/09
Assessed By						PHYTOX	CONTRO_1		
Trt-Eval Interval						1	2	6 DA-A	6 DA-A
ARM Action Codes						P	P	6 DA-A	14 DA-A
# Subsamples, Dec.						1	1		

Trt Treatment	Rate	Product	Product	Grow Appl					
No. Name	Rate Unit	Rate	Rate Unit	Stg	Code				

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Texas Agricultural Experiment Station

						COTTON			AMAPA	AMAPA	COTTON
Weed Code						STUNT	INJURY	INJURY	PLANTS PER	CONTROL	PHYTO
Crop Code						PERCENT	PERCENT	PERCENT	PLOT	PERCENT	PERCENT
Part Rated						Jul/01/09	Jul/01/09	Jul/10/09	Jul/10/09	Jul/10/09	Aug/10/09
Rating Data Type											
Rating Unit											
Rating Date											
Assessed By											
Trt-Eval Interval						14 DA-A	14 DA-A	23 DA-A	23 DA-A	23 DA-A	54 DA-A
ARM Action Codes											
# Subsamples, Dec.											
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate Unit	Rate	Rate Unit	Stg	Code					
1	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A		0.0 d	0.0 f	0.0 e	41.3 a	0.0 d
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						0.0 a
2	0.5X LABEL RATE						1.7 cd	6.7 de	4.3 d	14.3 b	75.0 bc
	PROWL H2O	0.5 lb ai/a	16.9 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
3	0.5X LABEL RATE						0.0 d	5.0 e	2.0 de	13.7 b	72.3 c
	CANDIDATE 1 455 UL H	0.5 lb ai/a	15.7 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
4	0.5X LABEL RATE						0.0 d	5.0 e	2.0 de	8.7 b	81.7 abc
	CANDIDATE 2 455 UK H	0.5 lb ai/a	15.5 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
5	0.75X LABEL RATE						5.0 bc	12.3 bc	2.0 de	6.0 b	88.3 ab
	PROWL H2O	0.75 lb ai/a	25.3 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
6	0.75X LABEL RATE						5.0 bc	10.0 cd	2.0 de	4.0 b	88.3 ab
	CANDIDATE 1 455 UL H	0.75 lb ai/a	23.6 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
7	0.75X LABEL RATE						5.0 bc	11.7 c	2.0 de	9.3 b	83.3 abc
	CANDIDATE 2 455 UK H	0.75 lb ai/a	23.2 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
8	1X LABEL RATE						6.7 ab	16.7 ab	5.0 cd	10.0 b	82.7 abc
	PROWL H2O	1 lb ai/a	33.8 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
9	1X LABEL RATE						6.7 ab	11.7 c	5.0 cd	9.7 b	84.0 abc
	CANDIDATE 1 455 UL H	1 lb ai/a	31.4 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
10	1X LABEL RATE						6.7 ab	11.7 c	5.0 cd	13.7 b	75.0 bc
	CANDIDATE 2 455 UK H	1 lb ai/a	31 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
11	2X LABEL RATE						10.0 a	20.0 a	12.3 a	7.0 b	86.0 ab
	PROWL H2O	2 lb ai/a	67.5 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
12	2X LABEL RATE						10.0 a	20.0 a	9.0 ab	5.3 b	90.0 a
	CANDIDATE 1 455 UL H	2 lb ai/a	63 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
13	2X LABEL RATE						6.7 ab	16.7 ab	8.3 bc	2.3 b	93.0 a
	CANDIDATE 2 455 UK H	2 lb ai/a	62 oz/a	4-8	A						0.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal	4-8	A						
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a	4-8	A						
LSD (P=.05)							3.12	4.34	3.45	10.91	11.86
Standard Deviation							1.85	2.58	2.05	6.48	7.04
CV							37.95	22.74	45.11	57.93	9.15
Bartlett's X2							0.0	1.393	7.763	19.017	6.719
P(Bartlett's X2)							1.00	0.986	0.051	0.088	0.752
Replicate F							0.188	0.247	1.835	1.160	0.410
Replicate Prob(F)							0.8302	0.7830	0.1813	0.3306	0.6680
Treatment F							10.750	16.589	8.859	6.873	34.630
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Part Rated
Rating Data Type
Rating Unit
Rating Date
Assessed By
Trt-Eval Interval
ARM Action Codes
Subsamples, Dec.

AMAPA
COTTON COTTON
STUNT PLANTS PER YIELD
PERCENT PLOT LB/ACRE
Aug/10/09 Aug/10/09 Nov/16/09
54 DA-A 54 DA-A 54 DA-A

Trt No.	Treatment Name	Rate	Product	Product	Grow	Appl			
		Rate Unit	Rate	Rate Unit	Stg	Code			
1	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A	0.0 c	50.0 a	1065.0 a
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
2	0.5X LABEL RATE						0.0 c	50.0 a	1131.7 a
	PROWL H2O	0.5 lb ai/a	16.9 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
3	0.5X LABEL RATE						0.0 c	68.7 a	990.0 a
	CANDIDATE 1 455 UL H	0.5 lb ai/a	15.7 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
4	0.5X LABEL RATE						0.0 c	27.3 a	1204.3 a
	CANDIDATE 2 455 UK H	0.5 lb ai/a	15.5 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
5	0.75X LABEL RATE						0.0 c	28.7 a	1177.3 a
	PROWL H2O	0.75 lb ai/a	25.3 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
6	0.75X LABEL RATE						0.0 c	44.7 a	1072.3 a
	CANDIDATE 1 455 UL H	0.75 lb ai/a	23.6 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
7	0.75X LABEL RATE						0.0 c	85.3 a	1010.0 a
	CANDIDATE 2 455 UK H	0.75 lb ai/a	23.2 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
8	1X LABEL RATE						0.0 c	23.3 a	948.7 a
	PROWL H2O	1 lb ai/a	33.8 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
9	1X LABEL RATE						0.0 c	23.3 a	942.0 a
	CANDIDATE 1 455 UL H	1 lb ai/a	31.4 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
10	1X LABEL RATE						0.0 c	154.7 a	867.3 a
	CANDIDATE 2 455 UK H	1 lb ai/a	31 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
11	2X LABEL RATE						7.7 a	27.3 a	1031.3 a
	PROWL H2O	2 lb ai/a	67.5 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
12	2X LABEL RATE						5.0 b	16.0 a	938.3 a
	CANDIDATE 1 455 UL H	2 lb ai/a	63 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
13	2X LABEL RATE						6.0 b	17.3 a	1216.7 a
	CANDIDATE 2 455 UK H	2 lb ai/a	62 oz/a		4-8	A			
	AMMONIUM SULFATE	17.0 lb/100 gal	17.0 lb/100 gal		4-8	A			
	ROUNDUP POWERMAX	0.75 lb ae/a	21.3 oz/a		4-8	A			
LSD (P=.05)							1.42	90.36	333.59
Standard Deviation							0.84	53.62	197.95
CV							58.75	113.04	18.93
Bartlett's X2							0.268	46.456	9.467
P(Bartlett's X2)							0.605	0.001*	0.663
Replicate F							1.117	1.141	0.429
Replicate Prob(F)							0.3436	0.3363	0.6558
Treatment F							32.667	1.532	0.946
Treatment Prob(F)							0.0001	0.1802	0.5211

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

NEW PROWL H2O / RR COTTON / EFFICACY / POST - I

Trial ID: 104F-09
Location: HELMS 2D

Study Dir.: DR. PETER DOTRAY
Investigator: KELLER KYLE

GENERAL TRIAL INFORMATION

Study Director: Clete Youmans/PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: KELLER KYLE

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: Jun/17/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: Dr. Peter Dotray
Org: Texas Tech Univ.
Address 1: Plant Science Bldg.
Address 2: POB 42122
City: Lubbock
State/Prov: TX

Country: US
Phone No: 806-746-6101
Fax No: 806-742-0775

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Objective: Compare two new pendimethalin CS formulations to Prowl H2O for overall weed control and crop response when applied POST to Roundup Ready cotton.

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	AMAPA Palmer amaranth	Amaranthus palmeri
2.	HIBTR Venice mallow	Hibiscus trionum

Crop 1: GOSHI COTTON
Planting Date: May/15/09
Rate: 54129 P/A
Row Spacing: 30 IN
Soil Temperature: 64 F

Variety: STONEVILLE 4554 B2 FLEX
Planting Method: 4 ROW
Spacing Within Row: 3.1 SD/FT
Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 10 FT
Tillage Type: STRIP-TILL

Plot Length, Unit: 30 FT
Study Design: RANDOMIZED COMPLETE BLOCK

Reps: 3

Previous Crops

1. SORGHUM

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

APPLICATION DESCRIPTION

Application Date: Jun/17/09
Time of Day: 9:30 AM
Application Method: SPRAY
Application Timing: 4-8 LEAF
Applic. Placement: BROADCAST
Air Temp., Unit: 93 F
% Relative Humidity: 36
Wind Velocity, Unit: 4 MPH
Soil Temp., Unit: 76.9 F
Soil Moisture: WET

CROP STAGE AT EACH APPLICATION

Crop 1 Code, Stage: GOSHI
Stage Scale: 4 LEAF

WEED STAGE AT EACH APPLICATION

Weed 1 Code, Stage: AMAPA
Stage Scale: COT-10 IN
Weed 2 Code, Stage: HIBTR
Stage Scale: COT-4 IN

Texas Agricultural Experiment Station

APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK
Operating Pressure: 28 PSI
Nozzle Type: TURBOTEER
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 20 GPA
Propellant: CO2

Treatment Application Comment

4/1/09 - TRIAL AREA WAS STRIP-TILLED @ AN 8"-10" DEPTH
5/15/09 - PLANTED; BLANKET BURNDOWN OF ROUNDUP WEATHERMAX @ 22 OZ/A
6/17/09 - TREATED ALL 4 ROWS WHEN APPLYING TREATMENT MIXES
7/10/09 - BLANKET TREATMENT OF ROUNDUP WEATHERMAX @ 22 OZ/A

Texas Agricultural Experiment Station

HUSKIE - COTTON - RECROP

Trial ID: 108F-09
Location: HALFWAY PIVOT

Study Dir.: DR. WAYNE KEELING
Investigator: Dr. Wayne Keeling

Crop Code	RE-CROP	RE-CROP	RE-CROP	COTTON
Part Rated				LINT
Rating Data Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	LBS/ACRE
Rating Date	May/28/09	Jun/04/09	Jun/26/09	Nov/03/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Appl Description				
1	UNTREATED							TERMINATED WHEAT	0.0 a	0.0 a	0.0 a	1417.0 a
2	HUSKIE	0.6 lb ai/a		15 oz/a		PRE 30DBP	A	TERMINATED WHEAT	0.0 a	0.0 a	0.0 a	1322.3 a
	NIS	0.5 % v/v		0.5 % v/v		PRE 30DBP	A	TERMINATED WHEAT				
	UAN 28%	2 qt/a		2 qt/a		PRE 30DBP	A	TERMINATED WHEAT				
3	HUSKIE	1.2 lb ai/a		30 oz/a		PRE 30DBP	A	TERMINATED WHEAT	0.0 a	0.0 a	0.0 a	1334.7 a
	NIS	0.5 % v/v		0.5 % v/v		PRE 30DBP	A	TERMINATED WHEAT				
	UAN 28%	2 qt/a		2 qt/a		PRE 30DBP	A	TERMINATED WHEAT				
4	2,4-AMINE	1 lb ai/a		1 qt/a		PRE 30DBP	A	TERMINATED WHEAT	0.0 a	0.0 a	0.0 a	1273.3 a
5	UNTREATED							WHEAT FOR GRAIN	0.0 a	0.0 a	0.0 a	1254.7 a
6	HUSKIE	0.6 lb ai/a		15 oz/a		PRE 30DBP	A	WHEAT FOR GRAIN	0.0 a	0.0 a	0.0 a	1347.3 a
	NIS	0.5 % v/v		0.5 % v/v		PRE 30DBP	A	WHEAT FOR GRAIN				
	UAN 28%	2 qt/a		2 qt/a		PRE 30DBP	A	WHEAT FOR GRAIN				
7	HUSKIE	1.2 lb ai/a		30 oz/a		PRE 30DBP	A	WHEAT FOR GRAIN	0.0 a	0.0 a	0.0 a	1392.3 a
	NIS	0.5 % v/v		0.5 % v/v		PRE 30DBP	A	WHEAT FOR GRAIN				
	UAN 28%	2 qt/a		2 qt/a		PRE 30DBP	A	WHEAT FOR GRAIN				
8	2,4-AMINE	1 lb ai/a		1 qt/a		PRE 30DBP	A	WHEAT FOR GRAIN	0.0 a	0.0 a	0.0 a	1234.3 a
LSD (P=.05)									0.00	0.00	0.00	294.33
Standard Deviation									0.00	0.00	0.00	168.06
CV									0.0	0.0	0.0	12.71
Bartlett's X2									0.0	0.0	0.0	9.152
P(Bartlett's X2)									.	.	.	0.242
Replicate F									0.000	0.000	0.000	1.063
Replicate Prob(F)									1.0000	1.0000	1.0000	0.3717
Treatment F									0.000	0.000	0.000	0.446
Treatment Prob(F)									1.0000	1.0000	1.0000	0.8572

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

HUSKIE - COTTON - RECROP

Trial ID: 108F-09
Location: HALFWAY PIVOT

Study Dir.: DR. WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

COTTON

Variety: FM 9063

Planting Date: May/19/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A

Application Date: Mar/19/08
Time of Day: 1:00PM
Application Method: SPRAY
Application Timing: PPBD
Applic. Placement: BROADCAST
Air Temp., Unit: 67 F
% Relative Humidity: 25
Wind Velocity, Unit: 6 MPH
Soil Temp., Unit: 48 F
Soil Moisture: DRY
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A

WHEAT
Stage Scale: 4-6"

APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK
Operating Pressure: 27
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

BAYER - CORN/COTTON PLANT BACK

Trial ID: 109F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Crop Code	CORN	CORN	CORN
Rating Data Type	INJURY	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	May/14/09	May/21/09	Jun/04/09

Trt No.	Treatment Name	Rate	Unit	Grow Stg	Appl Code	Appl Description			
1	UNTREATED						0.0 c	0.0 b	0.0 a
2	BALANCE FLEXX	2 oz/a		EPOST A		EMERG TO V1	0.0 c	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
3	BALANCE FLEXX	4 oz/a		EPOST A		EMERG TO V1	0.0 c	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
4	BALANCE FLEXX	6 oz/a		EPOST A		EMERG TO V1	5.0 ab	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
5	BALANCE FLEXX	12 oz/a		EPOST A		EMERG TO V1	6.7 a	3.3 a	0.0 a
	ATRAZINE	4 pt/a		EPOST A		EMERG TO V1			
6	CORVUS	2.25 oz/a		EPOST A		EMERG TO V1	0.0 c	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
7	CORVUS	3.3 oz/a		EPOST A		EMERG TO V1	0.0 c	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
8	CORVUS	4.5 oz/a		EPOST A		EMERG TO V1	0.0 c	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
9	CORVUS	5.6 oz/a		EPOST A		EMERG TO V1	1.7 bc	0.0 b	0.0 a
	ATRAZINE	2 pt/a		EPOST A		EMERG TO V1			
10	CORVUS	11.2 oz/a		EPOST A		EMERG TO V1	3.3 abc	0.0 b	0.0 a
	ATRAZINE	4 pt/a		EPOST A		EMERG TO V1			
LSD (P=.05)							4.01	1.57	0.00
Standard Deviation							2.34	0.91	0.00
CV							140.24	273.86	0.0
Bartlett's X2							1.327	0.0	0.0
P(Bartlett's X2)							0.515	.	.
Replicate F							0.153	1.000	0.000
Replicate Prob(F)							0.8596	0.3874	1.0000
Treatment F							3.390	4.000	0.000
Treatment Prob(F)							0.0132	0.0060	1.0000

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

BAYER - CORN/COTTON PLANT BACK

Trial ID: 109F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CORN

Variety: DK C69-40

Planting Date: Apr/27/09

SITE AND DESIGN

Plot Width, Unit: 26.67 FT Plot Length, Unit: 50 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A

Application Date: May/07/09
Time of Day: 11:00 AM
Application Method: SPRAY
Application Timing: EPOST
Applic. Placement: BROADCAST
Air Temp., Unit: 77 F
% Relative Humidity: 67
Wind Velocity, Unit: 10 MPH
Soil Temp., Unit: 66 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

CROP STAGE AT EACH APPLICATION

A

CORN

Stage Scale: EMERG-V1

APPLICATION EQUIPMENT

A

Appl. Equipment: TRACTOR
Operating Pressure: 33
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

BASF SORGHUM - SANDY SOILS

Trial ID: 111F-09
Location: AGCARES

Study Dir.: Clete Youmans
Investigator: JUDGE CAREN

Crop Code							SORHGUM	SORHGUM	SORGHUM	SORGHUM	SORGHUM
Rating Data Type							INJURY	INJURY	POPULATION	INJURY	HEIGHT
Rating Unit							PERCENT	PERCENT	1000/AC	PERCENT	INCHES
Rating Date							Jun/04/09	Jun/12/09	Jun/12/09	Jun/23/09	Jun/23/09
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg	Code	Description			
1	CHECK								0.0 c	0.0 c	44.7 a
2	INTEGRITY	10.0 fl oz/a		488.0 g ai/ha	VL	A	14 DBP		13.3 b	15.0 b	39.0 a
3	INTEGRITY	13.0 fl oz/a		634.0 g ai/ha	VL	A	14 DBP		35.0 a	35.0 a	26.7 a
4	BICEP II MAGNUM	41.6 fl oz/a		2004.0 g ai/ha	VL	A	14 DBP		0.0 c	0.0 c	45.3 a
5	LUMAX	80.4 fl oz/a		2765.0 g ai/ha	VL	A	14 DBP		10.0 bc	3.3 bc	31.3 a
6	INTEGRITY	10.0 fl oz/a		488.0 g ai/ha	VA	B	AT PLANTING		8.3 bc	0.0 c	37.7 a
7	INTEGRITY	13.0 fl oz/a		634.0 g ai/ha	VA	B	AT PLANTING		18.3 b	6.7 bc	41.3 a
8	BICEP II MAGNUM	41.6 fl oz/a		2004.0 g ai/ha	VA	B	AT PLANTING		0.0 c	0.0 c	33.3 a
9	LUMAX	80.4 fl oz/a		2765.0 g ai/ha	VA	B	AT PLANTING		13.3 b	3.3 bc	35.7 a
LSD (P=.05)									11.66	11.39	11.92
Standard Deviation									6.74	6.58	6.89
CV									61.65	93.5	18.51
Bartlett's X2									1.878	2.04	3.539
P(Bartlett's X2)									0.866	0.728	0.896
Replicate F									2.102	2.396	4.193
Replicate Prob(F)									0.1547	0.1230	0.0343
Treatment F									8.362	9.278	2.411
Treatment Prob(F)									0.0002	0.0001	0.0638

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	SORGHUM	SORGHUM
Rating Data Type	INJURY	YIELD
Rating Unit	PERCENT	LBS/ACRE
Rating Date	Jul/07/09	Sep/15/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Appl Description		
1	CHECK								0.0 b	6318.0 abc
2	INTEGRITY	10.0	fl oz/a	488.0	g ai/ha	VL	A	14 DBP	0.0 b	7126.3 a
3	INTEGRITY	13.0	fl oz/a	634.0	g ai/ha	VL	A	14 DBP	1.7 b	5069.0 cd
4	BICEP II MAGNUM	41.6	fl oz/a	2004.0	g ai/ha	VL	A	14 DBP	0.0 b	6979.7 a
5	LUMAX	80.4	fl oz/a	2765.0	g ai/ha	VL	A	14 DBP	0.0 b	5289.7 bcd
6	INTEGRITY	10.0	fl oz/a	488.0	g ai/ha	VA	B	AT PLANTING	0.0 b	6171.3 abc
7	INTEGRITY	13.0	fl oz/a	634.0	g ai/ha	VA	B	AT PLANTING	5.0 a	6685.3 a
8	BICEP II MAGNUM	41.6	fl oz/a	2004.0	g ai/ha	VA	B	AT PLANTING	0.0 b	4849.0 d
9	LUMAX	80.4	fl oz/a	2765.0	g ai/ha	VA	B	AT PLANTING	0.0 b	6391.3 ab
LSD (P=.05)									1.67	1198.87
Standard Deviation									0.96	692.60
CV									129.9	11.36
Bartlett's X2									0.0	6.614
P(Bartlett's X2)									.	0.579
Replicate F									1.000	8.341
Replicate Prob(F)									0.3897	0.0033
Treatment F									9.250	4.371
Treatment Prob(F)									0.0001	0.0059

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

BASF SORGHUM - SANDY SOILS

Trial ID: 111F-09
Location: AGCARES

Study Dir.: Clete Youmans
Investigator: JUDGE CAREN

GENERAL TRIAL INFORMATION

Study Director: Clete Youmans
Investigator: DR. WAYNE KEELING

TRIAL LOCATION

City: Lubbock
State/Prov.: TX
Country: US
Trial Status: 5

COOPERATOR/LANDOWNER

Cooperator: Dr. Wayne Keeling
Org: Texas A&M Univ.
Address 1: Tex. Res. & Ext. Center
City: Lubbock
State/Prov: TX
Country: US
Phone No: 806-746-6101

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

Objective: Evaluate efficacy and tolerance of grain sorghum to BAS 781H applied Preplant and PRE. Compare efficacy and tolerance relative to commercial standards.

Crop 1: SORVU SORGHUM Variety: PIONEER 85G01
Planting Date: May/21/09

SITE AND DESIGN

Plot Width, Unit: 13.3 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

	A	B
Application Date:	May/04/09	May/22/09
Time of Day:	11:00 AM	11:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	AT PLANT
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	55 F	77 F
% Relative Humidity:	66	54
Wind Velocity, Unit:	4 MPH	3 MPH
Soil Temp., Unit:	60 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	100	80

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	SORVU	SORVU
Stage Scale:	14 DBP	AT PLANT

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	23	30
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	AIR

Texas Agricultural Experiment Station

PROWL FORMULATIONS COTTON POST

Trial ID: 112F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code			PIGWEEED		PIGWEEED		PIGWEEED
Crop Code			COTTON		COTTON		COTTON
Part Rated							
Rating Data Type			INJURY	CONTROL	INJURY	CONTROL	INJURY
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date			Jun/25/09	Jun/25/09	Jul/01/09	Jul/01/09	Jul/15/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description						
1	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	2.7	e	100.0	a	0.0	c
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
2	PROWL H2O	0.5	lb ai/a	A	4-8 LF COTTON	8.7	bcd	100.0	a	3.0	b
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
3	455 ULH	0.5	lb ai/a	A	4-8 LF COTTON	8.0	cd	100.0	a	3.0	b
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
4	455 UKH	0.5	lb ai/a	A	4-8 LF COTTON	6.0	de	100.0	a	1.0	c
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
5	PROWL H2O	0.75	lb ai/a	A	4-8 LF COTTON	10.7	abc	100.0	a	4.3	ab
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
6	455 ULH	0.75	lb ai/a	A	4-8 LF COTTON	10.7	abc	100.0	a	4.3	ab
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
7	455 UKH	0.75	lb ai/a	A	4-8 LF COTTON	10.0	a-d	100.0	a	3.7	b
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
8	PROWL H2O	1	lb ai/a	A	4-8 LF COTTON	10.0	a-d	100.0	a	3.7	b
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
9	455 ULH	1	lb ai/a	A	4-8 LF COTTON	10.7	abc	100.0	a	4.3	ab
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
10	455 UKH	1	lb ai/a	A	4-8 LF COTTON	8.3	bcd	100.0	a	3.0	b
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
11	PROWL H2O	2	lb ai/a	A	4-8 LF COTTON	12.3	ab	100.0	a	4.3	ab
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
12	455 ULH	2	lb ai/a	A	4-8 LF COTTON	14.0	a	100.0	a	4.3	ab
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
13	455 UKH	2	lb ai/a	A	4-8 LF COTTON	11.7	abc	100.0	a	6.0	a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON			100.0	a	0.0	a
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON			100.0	a	0.0	a
LSD (P=.05)						3.70		0.00		1.83	
Standard Deviation						2.20		0.00		1.08	
CV						23.1		0.0		31.32	
Bartlett's X2						8.83		0.0		1.049	
P(Bartlett's X2)						0.453		.		0.998	
Replicate F						0.356		0.000		1.047	
Replicate Prob(F)						0.7043		1.0000		0.3664	
Treatment F						5.219		0.000		6.171	
Treatment Prob(F)						0.0003		1.0000		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code				PIGWEEED		
Crop Code				COTTON		COTTON
Part Rated						LINT
Rating Data Type				INJURY	CONTROL	YIELD
Rating Unit				PERCENT	PERCENT	LBS/ACRE
Rating Date				Aug/20/09	Aug/20/09	Nov/02/09
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description	
1	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	0.0 a 78.3 f 1403.7 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
2	PROWL H2O	0.5	lb ai/a	A	4-8 LF COTTON	0.0 a 91.7 de 1358.3 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
3	455 ULH	0.5	lb ai/a	A	4-8 LF COTTON	0.0 a 89.0 e 1339.3 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
4	455 UKH	0.5	lb ai/a	A	4-8 LF COTTON	0.0 a 89.3 e 1322.3 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
5	PROWL H2O	0.75	lb ai/a	A	4-8 LF COTTON	0.0 a 93.3 cde 1418.3 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
6	455 ULH	0.75	lb ai/a	A	4-8 LF COTTON	0.0 a 93.3 cde 1363.0 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
7	455 UKH	0.75	lb ai/a	A	4-8 LF COTTON	0.0 a 94.0 bcd 1216.7 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
8	PROWL H2O	1	lb ai/a	A	4-8 LF COTTON	0.0 a 95.3 a-d 1454.3 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
9	455 ULH	1	lb ai/a	A	4-8 LF COTTON	0.0 a 96.3 abc 1351.0 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
10	455 UKH	1	lb ai/a	A	4-8 LF COTTON	0.0 a 97.0 abc 1396.0 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
11	PROWL H2O	2	lb ai/a	A	4-8 LF COTTON	0.0 a 98.7 a 1312.7 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
12	455 ULH	2	lb ai/a	A	4-8 LF COTTON	0.0 a 98.0 ab 1233.7 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
13	455 UKH	2	lb ai/a	A	4-8 LF COTTON	0.0 a 97.7 abc 1446.7 a
	AMMONIUM SULFATE	17	lb ai/100 gal	A	4-8 LF COTTON	
	ROUNDUP POWERMAX	22	oz/a	A	4-8 LF COTTON	
LSD (P=.05)				0.00	4.04	347.28
Standard Deviation				0.00	2.40	206.07
CV				0.0	2.57	15.21
Bartlett's X2				0.0	19.024	7.039
P(Bartlett's X2)				.	0.088	0.855
Replicate F				0.000	12.842	2.036
Replicate Prob(F)				1.0000	0.0002	0.1526
Treatment F				0.000	15.561	0.373
Treatment Prob(F)				1.0000	0.0001	0.9608

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

PROWL FORMULATIONS COTTON POST

Trial ID: 112F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMARANTHUS PALMERI

COTTON Variety: FM 9063 B2RF
Planting Date: May/14/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A
Application Date: Jun/18/09
Time of Day: 1:15 PM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 90 F
% Relative Humidity: 48
Wind Velocity, Unit: 5 MPH
Soil Temp., Unit: 85 F
Soil Moisture: ADEQUATE
% Cloud Cover: 50

CROP STAGE AT EACH APPLICATION

A
COTTON
Stage Scale: 6-8 LF

WEED STAGE AT EACH APPLICATION

A
PIGWEEED
Stage Scale: 1-3"

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

RESOLVE/FIRSTSHOT - COTTON PLANTBACK

Trial ID: 113F-09
Location: AGCARES

Study Dir.: DR. WAYNE KEELING
Investigator: Dr. Wayne Keeling

Crop Code	COTTON	COTTON	COTTON	COTTON	COTTON
Part Rated					LINT
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	LBS/ACRE
Rating Date	Jun/03/09	Jun/12/09	Jun/23/09	Jul/14/09	Oct/14/09

Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Description					
1	UNTREATED					0.0 f	0.0 f	0.0 e	0.0 d	1256.0 a
2	RESOLVE	1 oz/a	A	45 DBP		0.0 f	0.0 f	0.0 e	0.0 d	1252.0 a
3	RESOLVE	2 oz/a	A	45 DBP		0.0 f	0.0 f	0.0 e	0.0 d	1188.0 a
4	HARMONY	0.4 oz/a	A	45 DBP		51.7 c	43.3 d	33.3 d	26.7 c	1174.0 a
	EXPRESS	0.4 oz/a	A	45 DBP						
5	HARMONY	0.8 oz/a	A	45 DBP		36.7 d	48.3 cd	41.7 cd	40.0 b	1146.0 a
	EXPRESS	0.8 oz/a	A	45 DBP						
6	RESOLVE	1 oz/a	B	30 DBP		0.0 f	0.0 f	0.0 e	0.0 d	1330.0 a
7	RESOLVE	2 oz/a	B	30 DBP		3.3 f	3.3 f	0.0 e	0.0 d	1226.0 a
8	HARMONY	0.4 oz/a	B	30 DBP		23.3 e	15.0 e	10.0 e	6.7 d	1246.0 a
	EXPRESS	0.4 oz/a	B	30 DBP						
9	HARMONY	0.8 oz/a	B	30 DBP		86.7 a	88.3 a	85.0 a	85.0 a	780.0 b
	EXPRESS	0.8 oz/a	B	30 DBP						
10	RESOLVE	1 oz/a	C	15 DBP		0.0 f	0.0 f	0.0 e	0.0 d	1310.0 a
11	RESOLVE	2 oz/a	C	15 DBP		60.0 bc	51.7 c	43.3 c	41.7 b	1192.0 a
12	HARMONY	0.4 oz/a	C	15 DBP		65.0 b	70.0 b	55.0 b	48.3 b	854.3 b
	EXPRESS	0.4 oz/a	C	15 DBP						
13	HARMONY	0.8 oz/a	C	15 DBP		80.0 a	91.7 a	90.0 a	86.7 a	519.7 c
	EXPRESS	0.8 oz/a	C	15 DBP						
LSD (P=.05)						9.01	7.83	9.32	8.71	215.09
Standard Deviation						5.35	4.65	5.53	5.17	127.63
CV						17.09	14.67	20.05	20.06	11.46
Bartlett's X2						6.842	4.259	4.974	9.004	7.431
P(Bartlett's X2)						0.445	0.75	0.547	0.173	0.828
Replicate F						1.705	1.901	1.091	4.536	1.883
Replicate Prob(F)						0.2031	0.1712	0.3520	0.0213	0.1740
Treatment F						118.830	175.951	108.801	117.292	10.784
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

RESOLVE/FIRSTSHOT - COTTON PLANTBACK

Trial ID: 113F-09
Location: AGCARES

Study Dir.: DR. WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

COTTON
Planting Date: May/13/09

Variety: ST 5458 B2RF

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Mar/30/09	Apr/14/09	Apr/29/09
Time of Day:	10:00 AM	10:00 AM	11:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	A 45 DBP	B 30 DBP	C 15 DBP
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	69 F	62 F	78 F
% Relative Humidity:	21	30	70
Wind Velocity, Unit:	5 MPH	5 MPH	3 MPH
Soil Temp., Unit:	59 F	51 F	78 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	70	80

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	23	23	23
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	AIR

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - TOLERANCE - I

Trial ID: 115F-09
Location: AGCARES

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Crop Code							PIONEER	DEKALB	PIONEER	DEKALB	PIONEER	DEKALB
Rating Data Type							INJURY	INJURY	INJURY	INJURY	HEIGHT	HEIGHT
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	CM	CM
Rating Date							Jun/04/09	Jun/04/09	Jun/12/09	Jun/12/09	Jun/12/09	Jun/12/09
Trt	Treatment	Rate	Product	Product	Grow	Appl	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg	Code	Description				
1	UNTREATED								0.0 e	0.0 d	0.0 c	0.0 c
2	INTEGRITY	0.283	lb ai/a	6.5	oz/a	PRE	A	AT PLANTING	7.5 de	3.8 cd	3.8 c	1.3 c
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a	PRE	A	AT PLANTING	20.0 c	7.5 c	17.5 bc	1.3 c
4	INTEGRITY	1.13	lb ai/a	26.0	oz/a	PRE	A	AT PLANTING	36.3 b	8.8 bc	28.8 ab	8.8 b
5	SHARPEN	0.029	lb ai/a	1.3	oz/a	PRE	A	AT PLANTING	13.8 cd	5.0 cd	6.3 c	0.0 c
6	SHARPEN	0.058	lb ai/a	2.6	oz/a	PRE	A	AT PLANTING	36.3 b	15.0 ab	28.8 ab	8.8 b
7	SHARPEN	0.116	lb ai/a	5.2	oz/a	PRE	A	AT PLANTING	50.0 a	21.3 a	42.5 a	16.3 a
8	OUTLOOK	0.506	lb ai/a	10.8	oz/a	PRE	A	AT PLANTING	0.0 e	0.0 d	0.0 c	0.0 c
9	OUTLOOK	1.01	lb ai/a	21.6	oz/a	PRE	A	AT PLANTING	0.0 e	0.0 d	0.0 c	0.0 c
10	G-MAX LITE	1.13	lb ai/a	1.8	pt/a	PRE	A	AT PLANTING	0.0 e	0.0 d	0.0 c	0.0 c
LSD (P=.05)									10.85	6.30	19.05	6.10
Standard Deviation									7.48	4.34	13.13	4.20
CV									45.66	70.91	102.96	115.93
Bartlett's X2									5.584	2.3	6.769	10.706
P(Bartlett's X2)									0.232	0.806	0.238	0.03*
Replicate F									2.516	3.037	0.624	1.262
Replicate Prob(F)									0.0795	0.0462	0.6058	0.3071
Treatment F									24.583	11.150	5.657	7.270
Treatment Prob(F)									0.0001	0.0001	0.0002	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code							PIONEER	DEKALB	PIONEER	DEKALB	PIONEER
Rating Data Type							POPULATION	POPULATION	INJURY	INJURY	HEIGHT
Rating Unit							1000/AC	1000/AC	PERCENT	PERCENT	CM
Rating Date							Jun/12/09	Jun/12/09	Jun/22/09	Jun/22/09	Jun/22/09
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg	Code	Description			
1	UNTREATED							67.0 a	64.3 c	0.0 d	0.0 c 29.5 a
2	INTEGRITY	0.283	lb ai/a	6.5	oz/a	PRE	A	AT PLANTING	60.5 a	72.5 abc	1.3 cd 0.0 c 28.3 ab
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a	PRE	A	AT PLANTING	70.3 a	59.8 c	8.8 cd 1.3 c 27.3 ab
4	INTEGRITY	1.13	lb ai/a	26.0	oz/a	PRE	A	AT PLANTING	76.0 a	67.3 abc	11.3 c 3.8 c 26.0 ab
5	SHARPEN	0.029	lb ai/a	1.3	oz/a	PRE	A	AT PLANTING	68.3 a	68.3 abc	10.0 cd 2.5 c 26.3 ab
6	SHARPEN	0.058	lb ai/a	2.6	oz/a	PRE	A	AT PLANTING	62.8 a	77.3 ab	42.5 b 15.0 b 22.5 b
7	SHARPEN	0.116	lb ai/a	5.2	oz/a	PRE	A	AT PLANTING	58.0 a	61.0 c	57.5 a 28.8 a 16.3 c
8	OUTLOOK	0.506	lb ai/a	10.8	oz/a	PRE	A	AT PLANTING	70.8 a	65.3 bc	0.0 d 0.0 c 30.0 a
9	OUTLOOK	1.01	lb ai/a	21.6	oz/a	PRE	A	AT PLANTING	70.8 a	79.5 a	0.0 d 0.0 c 26.8 ab
10	G-MAX LITE	1.13	lb ai/a	1.8	pt/a	PRE	A	AT PLANTING	70.8 a	70.0 abc	0.0 d 0.0 c 26.3 ab
LSD (P=.05)								14.89	11.35	9.47	4.37 5.10
Standard Deviation								10.26	7.82	6.52	3.01 3.52
CV								15.2	11.42	49.71	58.7 13.57
Bartlett's X2								15.94	11.677	5.271	5.774 15.799
P(Bartlett's X2)								0.068	0.232	0.384	0.217 0.071
Replicate F								1.117	2.891	1.228	1.358 1.154
Replicate Prob(F)								0.3595	0.0537	0.3186	0.2766 0.3453
Treatment F								1.157	2.752	38.573	39.813 5.134
Treatment Prob(F)								0.3599	0.0201	0.0001	0.0001 0.0004

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code								DEKALB	PIONEER	DEKALB	PIONEER	DEKALB	PIONEER		
Rating Data Type								HEIGHT	INJURY	INJURY	HEIGHT	HEIGHT	YIELD		
Rating Unit								CM	PERCENT	PERCENT	CM	CM	KG/HA		
Rating Date								Jun/22/09	Jul/23/09	Jul/23/09	Jul/23/09	Jul/23/09	Sep/04/09		
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl	Appl							
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code	Description						
1	UNTREATED														
2	INTEGRITY	0.283	lb ai/a	6.5	oz/a		PRE	A	AT PLANTING	31.5 a	0.0 d	0.0 c	103.8 a	104.3 a	4222.5 abc
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a		PRE	A	AT PLANTING	31.5 a	0.0 d	0.0 c	106.0 a	104.0 a	4554.0 ab
4	INTEGRITY	1.13	lb ai/a	26.0	oz/a		PRE	A	AT PLANTING	30.3 a	6.3 d	1.3 c	100.3 a	107.3 a	4906.0 a
5	SHARPEN	0.029	lb ai/a	1.3	oz/a		PRE	A	AT PLANTING	27.5 a	26.3 c	6.3 c	92.0 a	106.3 a	3291.5 bc
6	SHARPEN	0.058	lb ai/a	2.6	oz/a		PRE	A	AT PLANTING	28.5 a	8.8 cd	0.0 c	101.5 a	109.3 a	3601.5 abc
7	SHARPEN	0.116	lb ai/a	5.2	oz/a		PRE	A	AT PLANTING	27.0 a	58.8 b	31.3 b	63.3 b	92.3 a	1407.3 d
8	OUTLOOK	0.506	lb ai/a	10.8	oz/a		PRE	A	AT PLANTING	21.5 b	87.5 a	68.8 a	27.5 c	46.3 b	124.0 d
9	OUTLOOK	1.01	lb ai/a	21.6	oz/a		PRE	A	AT PLANTING	31.8 a	0.0 d	0.0 c	107.3 a	106.8 a	2981.0 c
10	G-MAX LITE	1.13	lb ai/a	1.8	pt/a		PRE	A	AT PLANTING	28.8 a	0.0 d	0.0 c	103.5 a	105.5 a	3043.0 bc
LSD (P=.05)										27.8 a	0.0 d	0.0 c	105.3 a	108.5 a	2794.5 c
Standard Deviation										4.42	18.59	17.44	25.15	16.13	1371.99
CV										3.05	12.81	12.02	17.33	11.12	945.56
Bartlett's X2										10.65	68.33	111.84	19.04	11.22	30.58
P(Bartlett's X2)										17.68	10.272	17.007	34.36	26.107	22.099
										0.039*	0.036*	0.001*	0.001*	0.002*	0.009*
Replicate F										1.559	0.137	0.859	0.468	0.457	0.532
Replicate Prob(F)										0.2223	0.9370	0.4742	0.7074	0.7148	0.6643
Treatment F										4.042	22.733	14.108	8.889	11.867	9.324
Treatment Prob(F)										0.0023	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	DEKALB
Rating Data Type	YIELD
Rating Unit	KG/HA
Rating Date	Sep/04/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Appl Description	
1	UNTREATED								5589.3 a
2	INTEGRITY	0.283	lb ai/a	6.5	oz/a	PRE	A	AT PLANTING	5030.3 a
3	INTEGRITY	0.566	lb ai/a	13.0	oz/a	PRE	A	AT PLANTING	5154.3 a
4	INTEGRITY	1.13	lb ai/a	26.0	oz/a	PRE	A	AT PLANTING	4719.8 a
5	SHARPEN	0.029	lb ai/a	1.3	oz/a	PRE	A	AT PLANTING	5402.8 a
6	SHARPEN	0.058	lb ai/a	2.6	oz/a	PRE	A	AT PLANTING	4036.8 a
7	SHARPEN	0.116	lb ai/a	5.2	oz/a	PRE	A	AT PLANTING	1117.8 b
8	OUTLOOK	0.506	lb ai/a	10.8	oz/a	PRE	A	AT PLANTING	5134.0 a
9	OUTLOOK	1.01	lb ai/a	21.6	oz/a	PRE	A	AT PLANTING	4968.3 a
10	G-MAX LITE	1.13	lb ai/a	1.8	pt/a	PRE	A	AT PLANTING	4347.0 a
LSD (P=.05)									1446.11
Standard Deviation									996.64
CV									21.9
Bartlett's X2									8.945
P(Bartlett's X2)									0.442
Replicate F									0.498
Replicate Prob(F)									0.6867
Treatment F									6.726
Treatment Prob(F)									0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - TOLERANCE - I

Trial ID: 115F-09
Location: AGCARES

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: DR.WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

SORGHUM
Planting Date: May/21/09

Variety: PIONEER 85G01 DEKALB 4420

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
IRRIGATION:
8.0" APPLIED THROUGH CENTER PIVOT DURING GROWING SEASON

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

A
Application Date: May/22/09
Time of Day: 11:00 AM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 77 F
% Relative Humidity: 54.1
Wind Velocity, Unit: 3.2 MPH
Soil Temp., Unit: 73 F
Soil Moisture: ADEQUATE
% Cloud Cover: 80

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - TOLERANCE - III

Trial ID: 116F-09
Location: HALFWAY PIVOT

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

PIONEER INJURY PERCENT Jun/03/09	DEKALB INJURY PERCENT Jun/03/09	PIONEER INJURY PERCENT Jun/17/09	DEKALB INJURY PERCENT Jun/17/09	PIONEER HEIGHT CM Jun/17/09	DEKALB HEIGHT CM Jun/17/09
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Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Appl Description								
1	UNTREATED								0.0 e	0.0 g	0.0 e	0.0 g	15.3 a	16.0 a		
2	INTEGRITY	0.435	lb ai/a	10.0	oz/a	PRE	A	AT PLANTING	13.8 e	6.3 fg	6.3 e	5.0 efg	11.3 bcd	14.3 abc		
3	INTEGRITY	0.65	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	35.0 d	18.8 ef	30.0 d	16.3 de	9.0 de	10.0 def		
4	INTEGRITY	0.78	lb ai/a	18.0	oz/a	PRE	A	AT PLANTING	37.5 d	20.0 ef	27.5 d	15.0 def	8.3 e	10.0 def		
5	INTEGRITY	0.87	lb ai/a	20.0	oz/a	PRE	A	AT PLANTING	47.5 d	26.3 de	31.3 d	18.8 d	9.3 cde	10.5 def		
6	INTEGRITY	1.74	lb ai/a	40.0	oz/a	PRE	A	AT PLANTING	83.3 b	61.8 bc	78.3 b	55.0 bc	7.0 e	9.8 efg		
7	SHARPEN	0.0445	lb ai/a	2.0	oz/a	PRE	A	AT PLANTING	67.5 c	37.5 d	56.3 c	18.8 d	9.3 cde	12.0 cde		
8	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	78.8 bc	52.5 c	76.3 b	43.8 c	7.5 e	11.8 cde		
9	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	85.0 ab	68.8 b	88.3 ab	48.8 c	4.5 f	8.5 fg		
10	SHARPEN	0.089	lb ai/a	4.0	oz/a	PRE	A	AT PLANTING	88.8 ab	72.5 b	88.8 ab	62.5 b	3.8 fg	7.3 gh		
11	SHARPEN	0.178	lb ai/a	8.0	oz/a	PRE	A	AT PLANTING	98.5 a	87.5 a	98.8 a	92.5 a	1.8 g	5.0 h		
12	OUTLOOK	0.8	lb ai/a	17.0	oz/a	PRE	A	AT PLANTING	0.0 e	0.0 g	0.0 e	0.0 g	11.5 bc	12.8 bcd		
13	OUTLOOK	1.6	lb ai/a	34.0	oz/a	PRE	A	AT PLANTING	0.0 e	0.0 g	2.5 e	2.5 fg	11.3 bcd	12.5 b-e		
14	G-MAX LITE	1.88	lb ai/a	3.0	pt/a	PRE	A	AT PLANTING	0.0 e	0.0 g	0.0 e	0.0 g	12.3 b	14.8 ab		
LSD (P=.05)									13.58	14.22	14.45	11.94	2.17	2.41		
Standard Deviation									9.50	9.95	10.11	8.35	1.52	1.69		
CV									20.93	30.83	24.25	30.87	17.45	15.23		
Bartlett's X2									27.646	17.333	34.304	15.523	11.474	11.38		
P(Bartlett's X2)									0.001*	0.044*	0.001*	0.114	0.489	0.579		
Replicate F									1.960	3.984	1.306	0.945	2.013	2.176		
Replicate Prob(F)									0.1360	0.0144	0.2862	0.4283	0.1280	0.1063		
Treatment F									63.817	38.923	56.655	47.432	22.977	12.609		
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

							PIGWEEED				
Weed Code							PIONEER	DEKALB			
Crop Code							POPULATION	POPULATION	CONTROL	PIONEER	DEKALB
Rating Data Type							1000/AC	1000/AC	PERCENT	INJURY	INJURY
Rating Unit										PERCENT	PERCENT
Rating Date							Jun/17/09	Jun/17/09	Jun/17/09	Jun/24/09	Jun/24/09
Trt	Treatment	Rate	Product	Product	Grow	Appl	Appl				
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code	Description		
1	UNTREATED										
2	INTEGRITY	0.435	lb ai/a	10.0	oz/a		PRE	A	AT PLANTING	65.3 a	74.3 a
3	INTEGRITY	0.65	lb ai/a	15.0	oz/a		PRE	A	AT PLANTING	68.5 a	72.8 ab
4	INTEGRITY	0.78	lb ai/a	18.0	oz/a		PRE	A	AT PLANTING	74.0 a	75.5 a
5	INTEGRITY	0.87	lb ai/a	20.0	oz/a		PRE	A	AT PLANTING	72.5 ab	100.0 a
6	INTEGRITY	1.74	lb ai/a	40.0	oz/a		PRE	A	AT PLANTING	100.0 a	35.0 e
7	SHARPEN	0.0445	lb ai/a	2.0	oz/a		PRE	A	AT PLANTING	40.0 de	23.8 def
8	SHARPEN	0.067	lb ai/a	3.0	oz/a		PRE	A	AT PLANTING	67.3 a	72.0 ab
9	SHARPEN	0.08	lb ai/a	3.6	oz/a		PRE	A	AT PLANTING	48.3 b	66.3 bc
10	SHARPEN	0.089	lb ai/a	4.0	oz/a		PRE	A	AT PLANTING	100.0 a	68.3 bc
11	SHARPEN	0.178	lb ai/a	8.0	oz/a		PRE	A	AT PLANTING	41.8 c	69.5 abc
12	OUTLOOK	0.8	lb ai/a	17.0	oz/a		PRE	A	AT PLANTING	46.5 b	62.5 cde
13	OUTLOOK	1.6	lb ai/a	34.0	oz/a		PRE	A	AT PLANTING	100.0 a	58.8 de
14	G-MAX LITE	1.88	lb ai/a	3.0	pt/a		PRE	A	AT PLANTING	19.5 d	58.8 de
LSD (P=.05)										100.0 a	72.5 b
Standard Deviation										72.5 b	37.5 cd
CV										55.5 e	99.8 a
Bartlett's X2										14.0 f	100.0 a
P(Bartlett's X2)										99.8 a	85.0 ab
Replicate F										99.0 a	58.8 b
Replicate Prob(F)										86.3 a	58.8 b
Treatment F										2.5 g	2.5 h
Treatment Prob(F)										11.3 g	8.8 gh
										1.3 g	1.3 h
										9.77	6.82
										0.93	16.58
										13.37	13.37
										6.84	4.78
										0.65	11.60
										9.36	9.36
										13.6	7.37
										0.7	31.02
										39.64	39.64
										24.05	27.169
										5.399	32.327
										31.021	31.021
										0.031*	0.012*
										0.02*	0.001*
										0.002*	0.002*
										1.746	0.443
										0.940	1.361
										0.1735	0.7233
										0.4308	0.2689
										0.0208	0.0208
										46.337	44.462
										6714.787	33.112
										28.837	28.837
										0.0001	0.0001
										0.0001	0.0001
										0.0001	0.0001
										0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

PIONEER HEIGHT CM Jun/24/09	DEKALB HEIGHT CM Jun/24/09	PIONEER INJURY PERCENT Jul/24/09	DEKALB INJURY PERCENT Jul/24/09	PIONEER HEIGHT CM Jul/24/09	DEKALB HEIGHT CM Jul/24/09
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Trt	Treatment	Rate	Product	Product	Grow	Appl	Appl						
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code	Description				
1	UNTREATED									39.0 a	35.3 a	0.0 e	0.0 c 113.0 a 116.8 a
2	INTEGRITY	0.435	lb ai/a	10.0	oz/a		PRE	A	AT PLANTING	30.5 bc	32.0 abc	1.3 de	0.0 c 105.0 abc 106.0 abc
3	INTEGRITY	0.65	lb ai/a	15.0	oz/a		PRE	A	AT PLANTING	27.8 bcd	31.8 abc	6.3 cde	2.5 c 97.8 a-d 105.0 abc
4	INTEGRITY	0.78	lb ai/a	18.0	oz/a		PRE	A	AT PLANTING	22.0 de	26.8 b-e	8.8 cde	7.5 c 96.0 a-d 91.3 c-f
5	INTEGRITY	0.87	lb ai/a	20.0	oz/a		PRE	A	AT PLANTING	23.5 de	29.5 a-d	6.3 cde	6.3 c 93.3 b-e 95.3 b-e
6	INTEGRITY	1.74	lb ai/a	40.0	oz/a		PRE	A	AT PLANTING	17.8 ef	24.0 de	13.3 cd	6.5 c 76.0 ef 81.3 ef
7	SHARPEN	0.0445	lb ai/a	2.0	oz/a		PRE	A	AT PLANTING	27.8 bcd	31.3 a-d	8.8 cde	2.5 c 113.8 a 113.0 a
8	SHARPEN	0.067	lb ai/a	3.0	oz/a		PRE	A	AT PLANTING	24.8 cd	25.5 cde	17.5 c	6.3 c 92.0 cde 95.0 b-e
9	SHARPEN	0.08	lb ai/a	3.6	oz/a		PRE	A	AT PLANTING	13.5 f	27.5 b-e	35.0 b	8.8 c 81.3 de 87.3 def
10	SHARPEN	0.089	lb ai/a	4.0	oz/a		PRE	A	AT PLANTING	18.0 ef	22.3 ef	43.8 b	18.8 b 59.8 f 76.3 f
11	SHARPEN	0.178	lb ai/a	8.0	oz/a		PRE	A	AT PLANTING	0.0 g	16.8 f	100.0 a	58.8 a 0.0 g 49.0 g
12	OUTLOOK	0.8	lb ai/a	17.0	oz/a		PRE	A	AT PLANTING	33.0 b	31.3 a-d	0.0 e	0.0 c 112.5 a 108.5 ab
13	OUTLOOK	1.6	lb ai/a	34.0	oz/a		PRE	A	AT PLANTING	30.3 bc	28.8 a-e	0.0 e	0.0 c 97.0 a-d 96.0 b-e
14	G-MAX LITE	1.88	lb ai/a	3.0	pt/a		PRE	A	AT PLANTING	32.0 b	33.3 ab	0.0 e	0.0 c 111.3 ab 103.3 a-d
LSD (P=.05)										5.87	6.29	10.90	8.09 16.26 14.43
Standard Deviation										4.11	4.40	7.63	5.66 11.38 10.10
CV										16.93	15.58	44.37	67.29 12.76 10.68
Bartlett's X2										24.73	15.331	14.845	19.859 7.497 16.05
P(Bartlett's X2)										0.01*	0.287	0.062	0.011* 0.823 0.246
Replicate F										1.741	2.257	1.913	2.981 1.009 2.012
Replicate Prob(F)										0.1745	0.0969	0.1434	0.0430 0.3991 0.1282
Treatment F										22.678	5.026	51.345	29.570 27.827 12.057
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001 0.0001 0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

PIONEER HEAD PERCENT Jul/24/09	DEKALB HEAD PERCENT Jul/24/09	PIONEER YIELD LBS/AC Sep/25/09	DEKALB YIELD LBS/AC Sep/25/09	PIONEER YIELD KG/HA Sep/25/09
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Trt	Treatment	Rate	Product	Product	Grow	Appl	Appl							
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code	Description					
1	UNTREATED									92.5 a	77.3 a	5009.5 bc	5695.5 abc	5610.5 bc
2	INTEGRITY	0.435	lb ai/a	10.0	oz/a		PRE	A	AT PLANTING	67.5 a	56.3 ab	5706.3 ab	6316.0 ab	6391.5 ab
3	INTEGRITY	0.65	lb ai/a	15.0	oz/a		PRE	A	AT PLANTING	11.3 b	20.5 cd	5554.0 abc	6457.8 a	6220.3 abc
4	INTEGRITY	0.78	lb ai/a	18.0	oz/a		PRE	A	AT PLANTING	0.0 b	0.0 d	4301.8 c	5586.5 abc	4817.8 c
5	INTEGRITY	0.87	lb ai/a	20.0	oz/a		PRE	A	AT PLANTING	0.0 b	2.5 d	4454.0 bc	5238.0 bc	4988.5 bc
6	INTEGRITY	1.74	lb ai/a	40.0	oz/a		PRE	A	AT PLANTING	0.0 b	0.0 d	1727.8 de	4762.3 cd	1935.3 de
7	SHARPEN	0.0445	lb ai/a	2.0	oz/a		PRE	A	AT PLANTING	26.3 b	38.8 bc	4225.0 c	6381.8 ab	4732.3 c
8	SHARPEN	0.067	lb ai/a	3.0	oz/a		PRE	A	AT PLANTING	3.0 b	7.5 cd	2613.5 d	4770.0 cd	2927.3 d
9	SHARPEN	0.08	lb ai/a	3.6	oz/a		PRE	A	AT PLANTING	1.3 b	7.5 cd	1219.5 ef	3909.5 d	1366.0 ef
10	SHARPEN	0.089	lb ai/a	4.0	oz/a		PRE	A	AT PLANTING	0.0 b	0.5 d	729.5 ef	2613.8 e	817.3 ef
11	SHARPEN	0.178	lb ai/a	8.0	oz/a		PRE	A	AT PLANTING	0.0 b	0.0 d	11.0 f	305.0 f	12.3 f
12	OUTLOOK	0.8	lb ai/a	17.0	oz/a		PRE	A	AT PLANTING	73.8 a	13.8 cd	6403.5 a	5837.3 abc	7171.8 a
13	OUTLOOK	1.6	lb ai/a	34.0	oz/a		PRE	A	AT PLANTING	28.8 b	7.5 cd	5586.8 abc	4802.5 cd	6257.0 abc
14	G-MAX LITE	1.88	lb ai/a	3.0	pt/a		PRE	A	AT PLANTING	75.0 a	32.5 bcd	5717.5 ab	5978.8 ab	6403.3 ab
LSD (P=.05)										32.24	29.94	1212.95	1025.43	1358.53
Standard Deviation										22.56	20.95	848.77	717.55	950.65
CV										83.28	110.89	22.31	14.63	22.31
Bartlett's X2										26.576	32.354	37.269	10.443	37.302
P(Bartlett's X2)										0.001*	0.001*	0.001*	0.657	0.001*
Replicate F										1.907	1.116	0.888	2.905	0.888
Replicate Prob(F)										0.1444	0.3544	0.4557	0.0467	0.4560
Treatment F										9.404	5.241	25.125	22.263	25.122
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

DEKALB
YIELD
KG/HA
Sep/25/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Appl Description	
1	UNTREATED								6378.8 abc
2	INTEGRITY	0.435	lb ai/a	10.0	oz/a	PRE	A	AT PLANTING	7074.0 ab
3	INTEGRITY	0.65	lb ai/a	15.0	oz/a	PRE	A	AT PLANTING	7232.8 a
4	INTEGRITY	0.78	lb ai/a	18.0	oz/a	PRE	A	AT PLANTING	6257.3 abc
5	INTEGRITY	0.87	lb ai/a	20.0	oz/a	PRE	A	AT PLANTING	5866.8 bc
6	INTEGRITY	1.74	lb ai/a	40.0	oz/a	PRE	A	AT PLANTING	5334.3 cd
7	SHARPEN	0.0445	lb ai/a	2.0	oz/a	PRE	A	AT PLANTING	7147.3 ab
8	SHARPEN	0.067	lb ai/a	3.0	oz/a	PRE	A	AT PLANTING	5342.3 cd
9	SHARPEN	0.08	lb ai/a	3.6	oz/a	PRE	A	AT PLANTING	4378.5 d
10	SHARPEN	0.089	lb ai/a	4.0	oz/a	PRE	A	AT PLANTING	2927.3 e
11	SHARPEN	0.178	lb ai/a	8.0	oz/a	PRE	A	AT PLANTING	341.8 f
12	OUTLOOK	0.8	lb ai/a	17.0	oz/a	PRE	A	AT PLANTING	6537.5 abc
13	OUTLOOK	1.6	lb ai/a	34.0	oz/a	PRE	A	AT PLANTING	5378.8 cd
14	G-MAX LITE	1.88	lb ai/a	3.0	pt/a	PRE	A	AT PLANTING	6696.0 ab
LSD (P=.05)									1148.38
Standard Deviation									803.59
CV									14.63
Bartlett's X2									10.442
P(Bartlett's X2)									0.657
Replicate F									2.909
Replicate Prob(F)									0.0466
Treatment F									22.267
Treatment Prob(F)									0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

KIXOR - GRAIN SORGHUM - TOLERANCE - III

Trial ID: 116F-09
Location: HALFWAY PIVOT

Study Dir.: BRENT BROWN
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: BRENT BROWN
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

SORGHUM
Planting Date: May/21/09

Variety: PIONEER 85G01 DEKALB 4420

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:

IRRIGATION:

10.4" APPLIED THROUGH CENTER PIVOT DURING GROWING SEASON

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A

Application Date: May/21/09
Time of Day: 12:00 PM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 79 F
% Relative Humidity: 33
Wind Velocity, Unit: 6 MPH
Soil Temp., Unit: 80 F
Soil Moisture: ADEQUATE
% Cloud Cover: 100

APPLICATION EQUIPMENT

A

Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

WEED CONTROL IN STRIP-TILLAGE SYSTEMS IN THE NORTHERN COTTON PRODUCING REGIONS

Trial ID: 119F-09
Location: HELMS

Study Dir.: AJ BLOODWORTH/DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code							PIGWEEED		PIGWEEED	VOL SORG	PIGWEEED			
Crop Code							COTTON	COTTON						
Rating Data Type							STAND	INJURY	CONTROL	PLANTS	CONTROL			
Rating Unit							PLANT/2M	PERCENT	PERCENT	PLOT	PERCENT	PLANTS		
Rating Date							Jun/04/09	Jul/24/09	Jul/24/09	Jul/24/09	Jul/24/09	Sep/25/09		
Trt	Treatment		Rate	Product	Product	Grow	Appl							
No.	Name		Rate	Unit	Rate	Unit	Stg	Code						
1	CONVENTIONAL TILLAGE								10.7 a	7.3 d-i	75.0 f	13.0 a-e	96.7 a	13.7 a-h
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D							
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D							
2	CONVENTIONAL TILLAGE								10.3 a	2.0 hi	95.3 a-d	2.7 f-i	100.0 a	15.0 a-g
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
3	CONVENTIONAL TILLAGE								10.7 a	10.7 c-i	92.7 a-e	4.7 d-i	100.0 a	5.3 f-m
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D							
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D							
4	CONVENTIONAL TILLAGE								10.7 a	4.0 ghi	98.3 abc	1.0 ghi	100.0 a	5.3 f-m
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
5	CONVENTIONAL TILLAGE								11.3 a	14.3 b-i	75.7 f	13.7 a-d	100.0 a	11.0 c-l
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D							
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D							
6	CONVENTIONAL TILLAGE								10.3 a	0.0 i	83.3 b-f	10.3 b-h	100.0 a	21.3 ab
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
7	CONVENTIONAL TILLAGE								10.7 a	6.0 d-i	94.7 a-d	2.3 f-i	100.0 a	3.7 h-m
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D							
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D							
8	CONVENTIONAL TILLAGE								9.3 a	2.3 ghi	95.3 a-d	2.7 f-i	100.0 a	5.3 f-m
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C							
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C							
	LIQUID AMS	2 qt/a		64 oz/a		POST	C							
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D							
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D							

Texas Agricultural Experiment Station

Weed Code								PIGWEEED		PIGWEEED	VOL SORG	PIGWEEED		
Crop Code								COTTON	COTTON					
Rating Data Type								STAND	INJURY	CONTROL	PLANTS	CONTROL	PLANTS	
Rating Unit								PLANT/2M	PERCENT	PERCENT	PLOT	PERCENT	PLOT	
Rating Date								Jun/04/09	Jul/24/09	Jul/24/09	Jul/24/09	Jul/24/09	Sep/25/09	
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl							
No.	Name		Unit	Rate	Rate	Unit	Stg	Code						
9	CONVENTIONAL TILLAGE								11.0 a	10.0 c-i	75.0 f	13.7 a-d	99.3 a	13.7 a-h
	CAPAROL	1.2	lb ai/a	38.4	oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a		LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a		LAYBY	D						
10	CONVENTIONAL TILLAGE								11.7 a	1.0 hi	83.3 b-f	9.7 b-i	99.3 a	20.3 abc
	CAPAROL	1.2	lb ai/a	38.4	oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
11	CONVENTIONAL TILLAGE								10.7 a	14.3 b-i	94.3 a-d	3.3 e-i	100.0 a	5.7 f-m
	CAPAROL	1.2	lb ai/a	38.4	oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a		LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a		LAYBY	D						
12	CONVENTIONAL TILLAGE								10.7 a	2.0 hi	98.0 abc	1.0 ghi	99.3 a	4.7 g-m
	CAPAROL	1.2	lb ai/a	38.4	oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
13	CONVENTIONAL TILLAGE								12.0 a	12.3 b-i	83.7 b-f	9.0 b-i	99.0 a	11.0 c-l
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a		LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a		LAYBY	D						
14	CONVENTIONAL TILLAGE								10.7 a	1.7 hi	85.3 a-f	9.3 b-i	97.7 a	0.0 m
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
15	CONVENTIONAL TILLAGE								10.7 a	11.0 c-i	95.0 a-d	1.3 ghi	100.0 a	2.7 i-m
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a		LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a		LAYBY	D						
16	CONVENTIONAL TILLAGE								11.7 a	1.7 hi	98.7 ab	1.7 ghi	100.0 a	4.7 g-m
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
17	STRIP-TILLAGE								11.7 a	18.3 a-h	92.7 a-e	4.3 d-i	97.3 a	7.3 d-m
	PROWL H2O	1	lb ai/a	33.7	oz/a		PPI	A						
	CAPAROL	1.2	lb ai/a	38.4	oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		POST	C						
	LIQUID AMS	2	qt/a	64	oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a		LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a		LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a		LAYBY	D						

Texas Agricultural Experiment Station

Weed Code								PIGWEED			PIGWEED	VOL SORG	PIGWEED	
Crop Code								COTTON		COTTON	CONTROL	PLANTS	CONTROL	PLANTS
Rating Data Type								STAND		INJURY	PERCENT	PLOT	PERCENT	PLOT
Rating Unit								PLANT/2M		PERCENT	PERCENT	PLOT	PERCENT	PLOT
Rating Date								Jun/04/09		Jul/24/09	Jul/24/09	Jul/24/09	Jul/24/09	Sep/25/09
Trt	Treatment		Rate	Unit	Product	Product	Grow	Appl						
No.	Name		Rate	Unit	Rate	Rate	Unit	Stg	Code					
18	STRIP-TILLAGE									10.0 a	5.0 e-i	99.3 ab	0.3 hi	99.0 a 7.3 d-m
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	CAPAROL	1.2 lb ai/a			38.4 oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
19	STRIP-TILLAGE									11.0 a	26.7 abc	100.0 a	0.0 i	100.0 a 1.7 j-m
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	CAPAROL	1.2 lb ai/a			38.4 oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	STAPLE LX	0.0525 lb ai/a			2.1 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
	DIREX	1 lb ai/a			1 qt/a		LAYBY	D						
	NIS	0.25 % v/v			3.2 oz/a		LAYBY	D						
20	STRIP-TILLAGE									12.7 a	5.0 e-i	99.3 ab	0.3 hi	100.0 a 7.3 d-m
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	CAPAROL	1.2 lb ai/a			38.4 oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	STAPLE LX	0.0525 lb ai/a			2.1 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
21	STRIP-TILLAGE									12.0 a	18.3 a-h	91.3 a-e	5.0 d-i	99.3 a 7.0 e-m
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
	DIREX	1 lb ai/a			1 qt/a		LAYBY	D						
	NIS	0.25 % v/v			3.2 oz/a		LAYBY	D						
22	STRIP-TILLAGE									11.7 a	0.0 i	96.3 abc	2.7 f-i	100.0 a 10.7 c-l
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
23	STRIP-TILLAGE									13.3 a	31.7 a	100.0 a	0.0 i	100.0 a 0.7 lm
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	STAPLE LX	0.0525 lb ai/a			2.1 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
	DIREX	1 lb ai/a			1 qt/a		LAYBY	D						
	NIS	0.25 % v/v			3.2 oz/a		LAYBY	D						
24	STRIP-TILLAGE									11.7 a	11.0 c-i	100.0 a	0.0 i	100.0 a 7.3 d-m
	PROWL H2O	1 lb ai/a			33.7 oz/a		PPI	A						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	STAPLE LX	0.0525 lb ai/a			2.1 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
25	STRIP-TILLAGE									12.7 a	25.7 abc	78.3 ef	15.0 abc	95.3 a 12.0 a-j
	CAPAROL	1.2 lb ai/a			38.4 oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						
	DIREX	1 lb ai/a			1 qt/a		LAYBY	D						
	NIS	0.25 % v/v			3.2 oz/a		LAYBY	D						
26	STRIP-TILLAGE									11.0 a	3.3 ghi	98.0 abc	1.7 ghi	100.0 a 5.3 f-m
	CAPAROL	1.2 lb ai/a			38.4 oz/a		PRE	B						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		POST	C						
	LIQUID AMS	2 qt/a			64 oz/a		POST	C						
	ROUNDUP WEATHER MAX	0.75 lb ae/a			21.3 oz/a		LAYBY	D						
	LIQUID AMS	2 qt/a			64 oz/a		LAYBY	D						

Texas Agricultural Experiment Station

Weed Code		PIGWEED PIGWEED VOL SORG PIGWEED					
Crop Code		COTTON		COTTON		COTTON	
Rating Data Type		STAND		INJURY		CONTROL	
Rating Unit		PLANT/2M		PERCENT		PERCENT	
Rating Date		Jun/04/09		Jul/24/09		Jul/24/09	
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl
No.	Name		Unit	Rate	Rate Unit	Stg	Code
27	STRIP-TILLAGE						
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D
28	STRIP-TILLAGE						
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
29	STRIP-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D
30	STRIP-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
31	STRIP-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D
32	STRIP-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
33	NO-TILLAGE						
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D
34	NO-TILLAGE						
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
35	NO-TILLAGE						
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C
	LIQUID AMS	2	qt/a	64	oz/a	POST	C
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D

Texas Agricultural Experiment Station

Weed Code								PIGWEED		PIGWEED		VOL SORG		PIGWEED	
Crop Code								COTTON		COTTON					
Rating Data Type								STAND		INJURY		CONTROL		PLANTS	
Rating Unit								PLANT/2M		PERCENT		PERCENT		PLOT	
Rating Date								Jun/04/09		Jul/24/09		Jul/24/09		Jul/24/09	
Rating Date								Jun/04/09		Jul/24/09		Jul/24/09		Sep/25/09	
Trt	Treatment		Rate	Rate	Product	Product	Grow	Appl							
No.	Name		Rate	Unit	Rate	Rate	Unit	Stg	Code						
36	NO-TILLAGE									9.7 a	11.0 c-i	96.7 abc	3.3 e-i	100.0 a	4.0 h-m
	PROWL H2O		1 lb ai/a		33.7 oz/a			PPI	A						
	CAPAROL		1.2 lb ai/a		38.4 oz/a			PRE	B						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	STAPLE LX		0.0525 lb ai/a		2.1 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
37	NO-TILLAGE									11.0 a	26.7 abc	82.3 c-f	17.7 ab	95.7 a	15.3 a-f
	PROWL H2O		1 lb ai/a		33.7 oz/a			PPI	A						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
	DIREX		1 lb ai/a		1 qt/a			LAYBY	D						
	NIS		0.25 % v/v		3.2 oz/a			LAYBY	D						
38	NO-TILLAGE									9.0 a	1.7 hi	95.0 a-d	5.0 d-i	100.0 a	17.7 a-d
	PROWL H2O		1 lb ai/a		33.7 oz/a			PPI	A						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
39	NO-TILLAGE									9.3 a	15.0 a-i	98.7 ab	1.3 ghi	99.7 a	2.7 i-m
	PROWL H2O		1 lb ai/a		33.7 oz/a			PPI	A						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	STAPLE LX		0.0525 lb ai/a		2.1 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
	DIREX		1 lb ai/a		1 qt/a			LAYBY	D						
	NIS		0.25 % v/v		3.2 oz/a			LAYBY	D						
40	NO-TILLAGE									9.0 a	2.3 ghi	98.0 abc	2.0 f-i	100.0 a	8.3 d-m
	PROWL H2O		1 lb ai/a		33.7 oz/a			PPI	A						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	STAPLE LX		0.0525 lb ai/a		2.1 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
41	NO-TILLAGE									10.7 a	17.3 a-i	94.7 a-d	5.3 c-i	61.3 b	12.3 a-i
	CAPAROL		1.2 lb ai/a		38.4 oz/a			PRE	B						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
	DIREX		1 lb ai/a		1 qt/a			LAYBY	D						
	NIS		0.25 % v/v		3.2 oz/a			LAYBY	D						
42	NO-TILLAGE									11.3 a	2.7 ghi	93.0 a-e	7.0 c-i	100.0 a	16.7 a-e
	CAPAROL		1.2 lb ai/a		38.4 oz/a			PRE	B						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
43	NO-TILLAGE									10.0 a	21.7 a-f	98.7 ab	1.3 ghi	100.0 a	2.3 i-m
	CAPAROL		1.2 lb ai/a		38.4 oz/a			PRE	B						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	STAPLE LX		0.0525 lb ai/a		2.1 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						
	DIREX		1 lb ai/a		1 qt/a			LAYBY	D						
	NIS		0.25 % v/v		3.2 oz/a			LAYBY	D						
44	NO-TILLAGE									10.7 a	2.7 ghi	98.7 ab	1.3 ghi	100.0 a	6.7 e-m
	CAPAROL		1.2 lb ai/a		38.4 oz/a			PRE	B						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			POST	C						
	STAPLE LX		0.0525 lb ai/a		2.1 oz/a			POST	C						
	LIQUID AMS		2 qt/a		64 oz/a			POST	C						
	ROUNDUP WEATHER MAX		0.75 lb ae/a		21.3 oz/a			LAYBY	D						
	LIQUID AMS		2 qt/a		64 oz/a			LAYBY	D						

Texas Agricultural Experiment Station

Weed Code		PIGWEEED PIGWEEED VOL SORG PIGWEEED					
Crop Code		COTTON		COTTON		CONTROL	
Rating Data Type		STAND		INJURY		PLANTS	
Rating Unit		PLANT/2M		PERCENT		PERCENT	
Rating Date		Jun/04/09		Jul/24/09		Jul/24/09	
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg
45	NO-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
	DIREX	1	lb ai/a	1	qt/a		
	NIS	0.25	% v/v	3.2	oz/a		
46	NO-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
47	NO-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
	DIREX	1	lb ai/a	1	qt/a		
	NIS	0.25	% v/v	3.2	oz/a		
48	NO-TILLAGE						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a		
	LIQUID AMS	2	qt/a	64	oz/a		
LSD (P=.05)							
Standard Deviation							
CV							
Bartlett's X2							
P(Bartlett's X2)							
Replicate F							
Replicate Prob(F)							
Treatment F							
Treatment Prob(F)							

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date

PIGWEEED VOL SORG

CONTROL CONTROL
PERCENT PERCENT
Sep/25/09 Sep/25/09

COTTON
YIELD
LBS/AC
Nov/30/09

COTTON
ADJ YIELD
LBS/AC
Nov/30/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	CONVENTIONAL TILLAGE							90.0 f-k	98.3 a	556.700373 kl	556.700373 nop
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D				
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D				
2	CONVENTIONAL TILLAGE							91.3 c-k	100.0 a	827.368918 d-k	827.368979 e-n
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
3	CONVENTIONAL TILLAGE							95.0 a-i	100.0 a	661.993902 i-l	534.586845 op
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D				
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D				
4	CONVENTIONAL TILLAGE							96.3 a-g	100.0 a	762.556229 f-l	811.849630 e-o
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
5	CONVENTIONAL TILLAGE							90.7 d-k	100.0 a	706.843027 h-l	658.764836 l-p
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D				
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D				
6	CONVENTIONAL TILLAGE							85.7 k	100.0 a	666.385565 i-l	666.385565 k-p
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
7	CONVENTIONAL TILLAGE							97.0 a-e	100.0 a	745.871168 g-l	840.295677 d-n
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D				
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D				
8	CONVENTIONAL TILLAGE							95.7 a-h	100.0 a	898.160917 a-j	898.161040 a-l
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				

Texas Agricultural Experiment Station

Weed Code Crop Code Rating Data Type Rating Unit Rating Date								PIGWEEED VOL SORG		COTTON YIELD LBS/AC Nov/30/09		COTTON ADJ YIELD LBS/AC Nov/30/09	
Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	CONTROL PERCENT Sep/25/09	CONTROL PERCENT Sep/25/09				
9	CONVENTIONAL TILLAGE							88.3 ijk	100.0 a	561.807185 kl		529.919242 op	
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
10	CONVENTIONAL TILLAGE							87.0 k	100.0 a	723.627941 g-l		723.627941 j-p	
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
11	CONVENTIONAL TILLAGE							95.0 a-i	100.0 a	634.334170 jkl		872.520900 b-l	
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
12	CONVENTIONAL TILLAGE							96.0 a-g	100.0 a	758.680801 f-l		758.680801 i-p	
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
13	CONVENTIONAL TILLAGE							87.3 jk	100.0 a	492.849933 l		492.849933 p	
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
14	CONVENTIONAL TILLAGE							100.0 a	100.0 a	779.754900 e-l		779.754900 g-o	
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
15	CONVENTIONAL TILLAGE							97.3 a-d	100.0 a	837.340965 c-k		947.155917 a-l	
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
16	CONVENTIONAL TILLAGE							96.7 a-f	100.0 a	789.273822 d-l		789.273822 g-o	
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
17	STRIP-TILLAGE							95.3 a-h	99.3 a	1029.156475 a-g		1029.156475 a-i	
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A						
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date							PIGWEEED VOL SORG		COTTON YIELD LBS/AC Nov/30/09		COTTON ADJ YIELD LBS/AC Nov/30/09	
Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
18	STRIP-TILLAGE							96.3 a-g	99.7 a	909.312408 a-j	909.312408 a-l	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
19	STRIP-TILLAGE							98.7 ab	99.0 a	862.692530 b-k	859.809961 c-m	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D					
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D					
20	STRIP-TILLAGE							95.3 a-h	100.0 a	1029.618267 a-g	1121.102163 a-d	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
21	STRIP-TILLAGE							93.7 a-j	100.0 a	987.213966 a-h	1062.383651 a-g	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D					
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D					
22	STRIP-TILLAGE							94.3 a-i	100.0 a	1097.434802 a-d	1097.434680 a-e	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
23	STRIP-TILLAGE							99.7 a	99.3 a	877.203030 a-j	1062.571151 a-g	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D					
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D					
24	STRIP-TILLAGE							97.0 a-e	100.0 a	1086.791857 a-e	1086.791735 a-f	
	PROWL H2O	1 lb ai/a		33.7 oz/a		PPI	A					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
25	STRIP-TILLAGE							90.3 e-k	99.0 a	826.454367 d-k	961.567967 a-j	
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D					
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D					
26	STRIP-TILLAGE							97.0 a-e	100.0 a	1068.955551 a-f	1068.955307 a-g	
	CAPAROL	1.2 lb ai/a		38.4 oz/a		PRE	B					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C					
	LIQUID AMS	2 qt/a		64 oz/a		POST	C					
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D					
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D					

Texas Agricultural Experiment Station

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							PIGWEEED VOL SORG		COTTON YIELD LBS/AC Nov/30/09		COTTON ADJ YIELD LBS/AC Nov/30/09		
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
27	STRIP-TILLAGE							99.0 ab	100.0 a	904.166045	a-j	954.838719	a-k
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
28	STRIP-TILLAGE							98.3 ab	100.0 a	1153.395257	ab	1153.395135	ab
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
29	STRIP-TILLAGE							95.0 a-i	100.0 a	775.396806	e-l	894.619718	a-l
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
30	STRIP-TILLAGE							99.0 ab	100.0 a	1141.613884	abc	1141.613762	abc
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
31	STRIP-TILLAGE							97.7 abc	100.0 a	955.036900	a-i	1050.868513	a-h
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
32	STRIP-TILLAGE							99.3 a	100.0 a	1178.386348	a	1178.386226	a
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
33	NO-TILLAGE							86.3 k	99.0 a	826.144797	d-k	890.852933	b-l
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A						
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						
34	NO-TILLAGE							89.7 g-k	100.0 a	852.491357	b-k	852.491479	d-m
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A						
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
35	NO-TILLAGE							97.3 a-d	100.0 a	848.650414	b-k	848.650231	d-m
	PROWL H2O	1	lb ai/a	33.7	oz/a	PPI	A						
	CAPAROL	1.2	lb ai/a	38.4	oz/a	PRE	B						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	POST	C						
	STAPLE LX	0.0525	lb ai/a	2.1	oz/a	POST	C						
	LIQUID AMS	2	qt/a	64	oz/a	POST	C						
	ROUNDUP WEATHER MAX	0.75	lb ae/a	21.3	oz/a	LAYBY	D						
	LIQUID AMS	2	qt/a	64	oz/a	LAYBY	D						
	DIREX	1	lb ai/a	1	qt/a	LAYBY	D						
	NIS	0.25	% v/v	3.2	oz/a	LAYBY	D						

Texas Agricultural Experiment Station

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		PIGWEEED	VOL SORG	COTTON	COTTON
Trt		Treatment		Rate		Product		Product		Grow		Appl	
No.		Name		Rate		Rate		Rate		Stg		Code	
36	NO-TILLAGE												
	PROWL H2O	1 lb ai/a	33.7 oz/a										
	CAPAROL	1.2 lb ai/a	38.4 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	STAPLE LX	0.0525 lb ai/a	2.1 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
37	NO-TILLAGE												
	PROWL H2O	1 lb ai/a	33.7 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	DIREX	1 lb ai/a	1 qt/a										
	NIS	0.25 % v/v	3.2 oz/a										
38	NO-TILLAGE												
	PROWL H2O	1 lb ai/a	33.7 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
39	NO-TILLAGE												
	PROWL H2O	1 lb ai/a	33.7 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	STAPLE LX	0.0525 lb ai/a	2.1 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	DIREX	1 lb ai/a	1 qt/a										
	NIS	0.25 % v/v	3.2 oz/a										
40	NO-TILLAGE												
	PROWL H2O	1 lb ai/a	33.7 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	STAPLE LX	0.0525 lb ai/a	2.1 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
41	NO-TILLAGE												
	CAPAROL	1.2 lb ai/a	38.4 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	DIREX	1 lb ai/a	1 qt/a										
	NIS	0.25 % v/v	3.2 oz/a										
42	NO-TILLAGE												
	CAPAROL	1.2 lb ai/a	38.4 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
43	NO-TILLAGE												
	CAPAROL	1.2 lb ai/a	38.4 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	STAPLE LX	0.0525 lb ai/a	2.1 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	DIREX	1 lb ai/a	1 qt/a										
	NIS	0.25 % v/v	3.2 oz/a										
44	NO-TILLAGE												
	CAPAROL	1.2 lb ai/a	38.4 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	STAPLE LX	0.0525 lb ai/a	2.1 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										
	ROUNDUP WEATHER MAX	0.75 lb ae/a	21.3 oz/a										
	LIQUID AMS	2 qt/a	64 oz/a										

Weed Code							PIGWEEED	VOL SORG			
Crop Code							CONTROL	CONTROL	COTTON	COTTON	
Rating Data Type							PERCENT	PERCENT	YIELD	ADJ YIELD	
Rating Unit							Sep/25/09	Sep/25/09	LBS/AC	LBS/AC	
Rating Date							Sep/25/09	Sep/25/09	Nov/30/09	Nov/30/09	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
45	NO-TILLAGE							90.3 e-k	99.3 a	549.394037 kl	573.235958 m-p
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D				
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D				
46	NO-TILLAGE							100.0 a	100.0 a	801.443623 d-l	801.443623 f-o
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
47	NO-TILLAGE							97.3 a-d	100.0 a	745.423720 g-l	910.651458 a-l
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
	DIREX	1 lb ai/a		1 qt/a		LAYBY	D				
	NIS	0.25 % v/v		3.2 oz/a		LAYBY	D				
48	NO-TILLAGE							94.0 a-i	100.0 a	827.283530 d-k	827.283713 e-n
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		POST	C				
	STAPLE LX	0.0525 lb ai/a		2.1 oz/a		POST	C				
	LIQUID AMS	2 qt/a		64 oz/a		POST	C				
	ROUNDUP WEATHER MAX	0.75 lb ae/a		21.3 oz/a		LAYBY	D				
	LIQUID AMS	2 qt/a		64 oz/a		LAYBY	D				
LSD (P=.05)								5.49	1.06	248.3716221	234.1106954
Standard Deviation								3.40	0.65	153.6322480	143.3629294
CV								3.6	0.66	18.61	16.67
Bartlett's X2								72.385	7.979	53.547	53.619
P(Bartlett's X2)								0.006*	0.436	0.238	0.108
Replicate F								1.511	3.548	11.981	1.598
Replicate Prob(F)								0.2259	0.0327	0.0001	0.2097
Treatment F								4.338	1.026	3.342	4.275
Treatment Prob(F)								0.0001	0.4487	0.0001	0.0001

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Texas Agricultural Experiment Station

WEED CONTROL IN STRIP-TILLAGE SYSTEMS IN THE NORTHERN COTTON PRODUCING REGIONS

Trial ID: 119F-09
Location: HELMS

Study Dir.: AJ BLOODWORTH/DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: AJ BLOODWORTH/DR. PETER DOTRAY
Affiliation: TEXAS TECH UNIVERSITY AND TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: Apr/20/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH
VOLUNTEER SORGHUM

COTTON Variety: STONEVILLE 4554 B2FLEX
Planting Date: May/14/09 Planting Method: 4 ROW
Rate: 54129 PLANT/A Depth: 1 IN
Row Spacing: 30 IN Spacing Within Row: 4.1 FT
Soil Temperature: 64 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	Apr/20/09	May/14/09	Jun/17/09	Jul/10/09	Aug/11/09
Time of Day:	10:45 AM	2:00 PM	10:30 AM	10:30 AM	9:45 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PPI	PRE	POST	LAYBY	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	POSTDIR	BROADCAST
Air Temp., Unit:	63.4 F	67.3 F	91.3 F	92.6 F	76.1 F
% Relative Humidity:	38	61.5	33.5	29.4	30
Wind Velocity, Unit:	10 MPH	8 MPH	9 MPH	9.5 MPH	9 MPH
Soil Temp., Unit:		64 F	76.9 F	82.3 F	72.8 F
Soil Moisture:		ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:		90	60	10	30

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
	COTTON	COTTON	COTTON	COTTON	COTTON
Stage Scale:	PPI	PRE	5 LEAF	PREBLOOM	BLOOM
Height, Unit:	N/A	N/A	11 IN	36 IN	

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
	PIGWEEED	PIGWEEED	PIGWEEED		
Density, Unit:	1-10 IN	1-11 IN	2-72 IN		
	VOL SORG	VOL SORG			
Density, Unit:	3-11 IN	2-11 IN			

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	8 ROW	YELLOWCUB	YELLOWCUB	SHIELD SP	BACKPACK
Operating Pressure:		22 PSI	22 PSI	29 PSI	25 PSI
Nozzle Type:		TURBOTEE	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:		110010	110010	110015	110010
Nozzle Spacing, Unit:	20 IN	15 IN	15 IN	15 IN	19 IN
Boom Height, Unit:	24 IN	18 IN	18 IN	IN	48 IN
Ground Speed, Unit:	5 MPH	3 MPH	3 MPH	5 MPH	3 MPH
Incorporation Equip.:	PIVOT	PIVOT			
Incorp. Depth, Unit:	0.9 IN				
Carrier:	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	10	GPA 10	GPA 10	GPA 10	GPA 10
Propellant:	AIR	AIR	AIR	AIR	CO2

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Trt No	Treatment Application Comment
	4/20/09 - INCORP. ALL PPI'S
	4/20/09 - CONV. TILL INCORP. W/ROLLING CULTIVATOR 1X OVER PLUS 0.9" IRR.
	4/20/09 - STRIP-TILL INCORP. W/STRIP-TILL IMPLEMENT 8-10" PLUS 0.9" IRR.
	4/20/09 - NO-TILL INCORP. W/0.9" IRRIGATION
	5/14/09 - PLANTED ALL TILLAGE SYSTEMS AND APPLIED PRE'S
	5/15/09 - BLANKET BURNDOWN OF ROUNDUP WEATHERMAX @ 22 OZ/A
	TREATMENT E - SPRAYED TREATMENTS 14,30 & 46 WITH 0.75LB AI/A GLYPHOSATE

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SORGHUM TOLERANCE TO HUSKIE HERBICIDE

Trial ID: 120F-09
Location: HALFWAY

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

SORGHUM SORGHUM SORGHUM SORGHUM SORGHUM
INJURY INJURY STUNT INJURY STUNT
PERCENT PERCENT PERCENT PERCENT PERCENT
Jun/19/09 Jun/26/09 Jun/26/09 Jul/01/09 Jul/01/09
3 DA-A 10 DA-A 10 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	UNTREATED							0.0 d	0.0 e	0.0 d	0.0 e	0.0 e
2	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		30.0 a	5.0 c	6.7 c	15.0 cd	5.0 de
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
3	HUSKIE	0.268	lb ai/a	16	oz/a	2-4"WEED A		35.0 a	9.0 b	6.7 c	15.0 cd	3.3 de
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
4	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		15.0 b	2.3 d	26.7 a	15.0 cd	23.3 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
5	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		13.3 bc	3.7 cd	6.7 c	15.0 cd	3.3 de
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	CLARITY	0.125	lb ai/a	4	oz/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
6	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A		9.3 c	2.0 d	1.0 d	8.3 d	3.3 de
	BUCTRIL	0.25	lb ai/a	1	pt/a	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
7	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		30.0 a	20.0 a	21.7 b	38.3 a	20.0 ab
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B						
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
8	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B			5.0 c	0.0 d	26.7 b	10.0 cd
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
9	HUSKIE	0.268	lb ai/a	16	oz/a	6-8"WEED B			7.7 b	1.7 d	30.0 b	13.3 bc
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
10	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B			5.0 c	0.0 d	14.3 cd	1.7 e
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
11	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B			5.0 c	3.3 cd	12.3 cd	5.0 de
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	CLARITY	0.125	lb ai/a	4	oz/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
12	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B			3.3 cd	0.0 d	16.7 c	10.0 cd
	BUCTRIL	0.25	lb ai/a	1	pt/a	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
LSD (P=.05)								5.29	1.81	3.71	6.31	7.06
Standard Deviation								2.97	1.07	2.19	3.73	4.17
CV								15.69	18.87	35.4	21.65	50.85
Bartlett's X2								0.027	3.606	0.639	4.074	3.335
P(Bartlett's X2)								0.869	0.462	0.999	0.771	0.912
Replicate F								0.749	0.656	1.756	0.224	1.960
Replicate Prob(F)								0.4939	0.5290	0.1960	0.8012	0.1647
Treatment F								56.583	68.768	49.254	22.096	9.465
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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							PIGWEEED		PIGWEEED		PIGWEEED
Weed Code							SORGUM		SORGHUM		
Crop Code							CONTROL	STUNT	NECROSIS	CONTROL	# PLANTS
Rating Data Type							PERCENT	PERCENT	PERCENT	PERCENT	ROW2-3
Rating Unit							Jul/01/09	Jul/08/09	Jul/08/09	Jul/08/09	Jul/08/09
Rating Date											
Trt-Eval Interval											
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl				
No.	Name		Unit	Rate	Rate	Unit	Code				
1	UNTREATED							0.0 e	0.0 c	0.0 g	25.0 a
2	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		100.0 a	0.0 c	4.3 cde	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A					0.0 b
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A					
3	HUSKIE	0.268	lb ai/a	16	oz/a	2-4"WEED A		100.0 a	0.0 c	6.7 b	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A					0.0 b
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A					
4	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		100.0 a	13.3 a	0.7 fg	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A					0.0 b
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	2-4"WEED A					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A					
5	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		100.0 a	0.0 c	4.3 cde	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A					0.0 b
	CLARITY	0.125	lb ai/a	4	oz/a	2-4"WEED A					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A					
6	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A		100.0 a	0.0 c	0.7 fg	100.0 a
	BUCTRIL	0.25	lb ai/a	1	pt/a	2-4"WEED A					0.0 b
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A					
7	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		100.0 a	11.7 ab	16.0 a	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A					0.0 b
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A					
	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B					
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B					
8	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B		82.7 b	1.7 c	6.3 bc	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B					0.0 b
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B					
9	HUSKIE	0.268	lb ai/a	16	oz/a	6-8"WEED B		82.7 b	1.7 c	7.3 b	97.7 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B					1.0 b
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B					
10	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B		88.3 ab	8.3 b	4.0 de	100.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B					0.0 b
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	6-8"WEED B					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B					
11	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B		56.7 c	0.0 c	2.7 ef	98.3 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B					0.7 b
	CLARITY	0.125	lb ai/a	4	oz/a	6-8"WEED B					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B					
12	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B		40.0 d	1.7 c	5.7 bcd	70.0 b
	BUCTRIL	0.25	lb ai/a	1	pt/a	6-8"WEED B					15.0 a
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B					
LSD (P=.05)								12.85	3.43	1.91	11.03
Standard Deviation								7.59	2.03	1.13	5.36
CV								9.58	63.41	23.05	6.03
Bartlett's X2								6.465	0.0	3.364	6.9
P(Bartlett's X2)								0.091	.	0.972	0.032*
Replicate F								0.183	1.185	0.809	1.169
Replicate Prob(F)								0.8343	0.3246	0.4581	0.3293
Treatment F								52.163	17.892	43.197	89.330
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

SORGUM	SORGHUM	CONTROL	# PLANTS	SORGUM
STUNT	NECROSIS	PERCENT	ROW2-3	STUNT
PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Jul/21/09	Jul/21/09	Jul/21/09	Jul/21/09	Jul/28/09

Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
No.	Name											
1	UNTREATED							0.0 d	0.0 c	0.0 c	26.3 a	0.0 d
2	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		10.0 bc	3.3 bc	100.0 a	0.0 b	10.0 abc
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
3	HUSKIE	0.268	lb ai/a	16	oz/a	2-4"WEED A		0.0 d	1.7 c	100.0 a	0.0 b	0.0 d
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
4	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		16.7 a	1.7 c	100.0 a	0.0 b	15.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
5	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		1.7 d	0.0 c	100.0 a	0.0 b	5.0 bcd
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	CLARITY	0.125	lb ai/a	4	oz/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
6	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A		3.3 d	0.0 c	100.0 a	0.0 b	3.3 cd
	BUCTRIL	0.25	lb ai/a	1	pt/a	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
7	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"WEED A		15.0 ab	13.3 a	100.0 a	0.0 b	11.7 ab
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"WEED A						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"WEED A						
	NIS	0.25	% v/v	3.2	oz/a	2-4"WEED A						
	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B						
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
8	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B		1.7 d	11.0 ab	100.0 a	0.0 b	1.7 d
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
9	HUSKIE	0.268	lb ai/a	16	oz/a	6-8"WEED B		0.0 d	10.0 ab	88.3 a	1.3 b	1.7 d
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
10	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B		5.0 cd	10.0 ab	100.0 a	0.0 b	11.7 ab
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
11	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"WEED B		3.3 d	3.3 bc	100.0 a	0.0 b	3.3 cd
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B						
	CLARITY	0.125	lb ai/a	4	oz/a	6-8"WEED B						
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
12	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"WEED B		1.7 d	5.0 bc	54.0 b	11.0 b	5.0 bcd
	BUCTRIL	0.25	lb ai/a	1	pt/a	6-8"WEED B						
	NIS	0.25	% v/v	3.2	oz/a	6-8"WEED B						
LSD (P=.05)								6.06	7.17	25.72	12.70	6.98
Standard Deviation								3.58	4.24	15.19	7.50	4.12
CV								73.64	85.69	17.48	232.77	72.37
Bartlett's X2								2.736	5.002	1.316	5.798	3.915
P(Bartlett's X2)								0.908	0.757	0.251	0.055	0.865
Replicate F								0.704	0.401	0.779	0.424	0.777
Replicate Prob(F)								0.5052	0.6746	0.4710	0.6596	0.4720
Treatment F								7.975	3.922	12.040	3.353	4.591
Treatment Prob(F)								0.0001	0.0031	0.0001	0.0076	0.0012

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

SORGHUM	CONTROL	# PLANTS	SORGHUM	CONTROL
NECROSIS	PERCENT	ROW2-3	INJURY	PERCENT
Jul/28/09	Jul/28/09	Jul/28/09	Sep/24/09	Sep/24/09

Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl					
No.	Name		Unit	Rate	Rate	Unit	Stg	Code				
1	UNTREATED								0.0 c	0.0 c	27.3 a	0.0 c
2	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		3.3 bc	100.0 a	0.0 b	8.3 ab
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A					100.0 a
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A					
3	HUSKIE	0.268	lb ai/a	16	oz/a	2-4"	WEED A		1.7 c	93.3 a	1.0 b	0.0 c
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A					100.0 a
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A					
4	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		1.7 c	100.0 a	0.0 b	11.7 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A					100.0 a
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	2-4"	WEED A					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A					
5	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		0.0 c	100.0 a	0.0 b	3.3 bc
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A					100.0 a
	CLARITY	0.125	lb ai/a	4	oz/a	2-4"	WEED A					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A					
6	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A		0.0 c	100.0 a	0.0 b	5.0 abc
	BUCTRIL	0.25	lb ai/a	1	pt/a	2-4"	WEED A					100.0 a
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A					
7	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		13.3 a	100.0 a	0.0 b	10.0 ab
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A					100.0 a
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A					
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A					
	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B					
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B					
8	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B		11.0 ab	95.0 a	0.7 b	3.3 bc
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B					100.0 a
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B					
9	HUSKIE	0.268	lb ai/a	16	oz/a	6-8"	WEED B		5.0 bc	86.7 a	2.0 b	5.0 abc
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B					100.0 a
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B					
10	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B		10.0 ab	100.0 a	0.0 b	11.7 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B					100.0 a
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	6-8"	WEED B					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B					
11	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B		3.3 bc	100.0 a	0.0 b	3.3 bc
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B					100.0 a
	CLARITY	0.125	lb ai/a	4	oz/a	6-8"	WEED B					
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B					
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B					
12	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B		5.0 bc	51.7 b	11.7 b	5.0 abc
	BUCTRIL	0.25	lb ai/a	1	pt/a	6-8"	WEED B					0.0 b
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B					
LSD (P=.05)									6.91	26.71	13.63	7.02
Standard Deviation									4.08	15.77	8.05	4.14
CV									90.16	18.44	226.4	74.59
Bartlett's X2									6.53	5.865	17.755	3.878
P(Bartlett's X2)									0.588	0.118	0.001*	0.919
Replicate F									0.022	0.254	0.373	2.103
Replicate Prob(F)									0.9786	0.7779	0.6927	0.1460
Treatment F									3.773	11.049	3.102	2.853
Treatment Prob(F)									0.0039	0.0001	0.0115	0.0175

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

PIGWEEED
SORGHUM SORGHUM
PLANTS PLOT WEIGHT YIELD
ROW2-3 LBS LB/ACRE
Sep/24/09 Sep/25/09 Sep/25/09

Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl			
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code		
1	UNTREATED								28.0 a	23.23 a 4738.3 a
2	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		0.0 b	34.83 a 7104.3 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A			
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A			
3	HUSKIE	0.268	lb ai/a	16	oz/a	2-4"	WEED A		1.0 b	32.43 a 6591.7 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A			
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A			
4	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		0.0 b	32.93 a 6733.3 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A			
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	2-4"	WEED A			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A			
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A			
5	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		0.0 b	34.57 a 7044.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A			
	CLARITY	0.125	lb ai/a	4	oz/a	2-4"	WEED A			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A			
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A			
6	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A		0.0 b	35.27 a 7189.3 a
	BUCTRIL	0.25	lb ai/a	1	pt/a	2-4"	WEED A			
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A			
7	HUSKIE	0.217	lb ai/a	13	oz/a	2-4"	WEED A		0.0 b	37.50 a 7662.3 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	2-4"	WEED A			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	2-4"	WEED A			
	NIS	0.25	% v/v	3.2	oz/a	2-4"	WEED A			
	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B			
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B			
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B			
8	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B		0.7 b	35.47 a 7219.7 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B			
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B			
9	HUSKIE	0.268	lb ai/a	16	oz/a	6-8"	WEED B		2.3 b	34.63 a 7073.0 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B			
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B			
10	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B		0.0 b	29.87 a 6081.3 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B			
	2,4-D AMINE	0.188	lb ai/a	6.33	oz/a	6-8"	WEED B			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B			
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B			
11	HUSKIE	0.217	lb ai/a	13	oz/a	6-8"	WEED B		0.0 b	31.40 a 6391.7 a
	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B			
	CLARITY	0.125	lb ai/a	4	oz/a	6-8"	WEED B			
	AMMONIUM SULFATE	8.5	lb/100 gal	8.5	lb/100gal	6-8"	WEED B			
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B			
12	ATRAZINE	0.5	lb ai/a	1	pt/a	6-8"	WEED B		9.3 b	31.37 a 6364.7 a
	BUCTRIL	0.25	lb ai/a	1	pt/a	6-8"	WEED B			
	NIS	0.25	% v/v	3.2	oz/a	6-8"	WEED B			
LSD (P=.05)									13.54	7.402 1524.50
Standard Deviation									8.00	4.371 900.25
CV									232.13	13.33 13.47
Bartlett's X2									17.97	9.473 12.096
P(Bartlett's X2)									0.001*	0.578 0.356
Replicate F									0.481	1.631 0.433
Replicate Prob(F)									0.6243	0.2186 0.6537
Treatment F									3.138	2.144 2.121
Treatment Prob(F)									0.0108	0.0616 0.0642

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SORGHUM TOLERANCE TO HUSKIE HERBICIDE

Trial ID: 120F-09
Location: HALFWAY

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: Jun/16/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH

SORGHUM Variety: DK 44-20
Planting Date: May/21/09 Planting Method: 4 ROW
Row Spacing: 40 IN

Soil Moisture: ADEQUATE

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

APPLICATION DESCRIPTION

	A	B
Application Date:	Jun/16/09	Jun/24/09
Time of Day:	2:35 PM	1:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	2-4 IN WD	6-8 IN WD
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	96 F	89.7 F
% Relative Humidity:	17.4	38.5
Wind Velocity, Unit:	3.5 MPH	2.6 MPH
Soil Temp., Unit:	91.9 F	89.7 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	0	50

CROP STAGE AT EACH APPLICATION

	A	B
	SORGHUM	SORGHUM
Stage Scale:	7-8 LEAF	8 LEAF
Height, Unit:	11.5 IN	16.5 IN

WEED STAGE AT EACH APPLICATION

	A	B
	PIGWED	
Density, Unit:	15 IN	

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	28 PSI
Nozzle Type:	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN
Boom Height, Unit:	18 IN	36 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	C02	C02

SHARPEN - COTTON TOLERANCE

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SHARPEN - COTTON TOLERANCE

Trial ID: 121F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR.WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

COTTON
Planting Date: May/29/09

Variety: FM9063B2RF

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A

Application Date: Apr/16/09
Time of Day: 9:30 AM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 62 F
% Relative Humidity: 23
Wind Velocity, Unit: 7 MPH
Soil Temp., Unit: 57 F
Soil Moisture: ADEQUATE
% Cloud Cover: 40

APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

VALOR, COBRA, AND SELECT MAX WEED CONTROL IN PEANUT

Trial ID: 122F-09
Location: HALFWAY

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code							PIGWEEED	PIGWEEED						
Crop Code							PEANUT	PEANUT	PEANUT	PEANUT				
Rating Data Type							HEIGHT	WIDTH	INJURY	STAND				
Rating Unit							CM	CM	PERCENT	PLANT/M				
Rating Date							Jun/03/09	Jun/03/09	Jun/03/09	Jun/03/09				
Trt-Eval Interval							28 DA-A	28 DA-A	28 DA-A	28 DA-A				
Trt	Treatment	Rate	Product	Product	Grow	Appl								
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code						
1	UNTREATED CHECK								5.0 a	9.0 a	0.0 a	12.7 a	0.0 b	13.0 ab
2	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A		4.3 a	9.0 a	0.0 a	13.3 a	99.3 a	0.3 b
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C							
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C							
	NIS	0.25	% v/v	3.2	oz/a	POST	C							
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C							
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A		4.7 a	8.7 a	0.0 a	14.0 a	99.3 a	0.3 b
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A							
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C							
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C							
	NIS	0.25	% v/v	3.2	oz/a	POST	C							
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C							
4	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A		4.3 a	9.7 a	0.0 a	13.3 a	99.3 a	0.3 b
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A							
	2,4-DB	0.25	lb ai/a	16	oz/a	EPOST	B							
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C							
	SELECT MAX	0.078	lb ai/a	10	oz/a	POST	C							
	NIS	0.25	% v/v	3.2	oz/a	POST	C							
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C							
5	CADRE	0.063	lb ai/a	4.03	oz/a	EPOST	B		4.7 a	9.7 a	0.0 a	13.3 a	0.0 b	23.3 a
	COC	1	% v/v	12.8	oz/a	EPOST	B							
LSD (P=.05)								1.00	0.84	0.00	1.94	1.19	13.26	
Standard Deviation								0.53	0.45	0.00	1.03	0.63	7.04	
CV								11.57	4.86	0.0	7.75	1.06	94.29	
Bartlett's X2								0.0	0.0	0.0	5.298	0.0	22.366	
P(Bartlett's X2)								.	1.00	.	0.151	.	0.001*	
Replicate F								0.706	1.000	0.000	1.000	6.000	0.082	
Replicate Prob(F)								0.5220	0.4096	1.0000	0.4096	0.0256	0.9220	
Treatment F								0.824	3.000	0.000	0.625	22201.002	6.582	
Treatment Prob(F)								0.5454	0.0870	1.0000	0.6579	0.0001	0.0120	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

								PIGWEEED	PIGWEEED	SUCKLEYA	SUCKLEYA
Weed Code								PEANUT			
Crop Code								INJURY	CONTROL	#PLANTS PER	
Rating Data Type								PERCENT	PERCENT	PLOT	CONTROL
Rating Unit								PERCENT	PERCENT	PLOT	#PLANTS PER
Rating Date								Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09
Trt-Eval Interval								42 DA-A	42 DA-A	42 DA-A	42 DA-A
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg	Code				
1	UNTREATED CHECK							0.0 b	0.0 b	20.0 a	16.7 a
2	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	5.0 a	86.0 a	3.0 b	45.0 a
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C				8.3 a
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C				
	NIS	0.25	% v/v	3.2	oz/a	POST	C				
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C				
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	6.7 a	87.3 a	2.7 b	48.3 a
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A				2.7 a
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C				
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C				
	NIS	0.25	% v/v	3.2	oz/a	POST	C				
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C				
4	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	6.7 a	87.0 a	2.7 b	66.7 a
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A				5.3 a
	2,4-DB	0.25	lb ai/a	16	oz/a	EPOST	B				
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C				
	SELECT MAX	0.078	lb ai/a	10	oz/a	POST	C				
	NIS	0.25	% v/v	3.2	oz/a	POST	C				
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C				
5	CADRE	0.063	lb ai/a	4.03	oz/a	EPOST	B	0.0 b	0.0 b	21.0 a	0.0 a
	COC	1	% v/v	12.8	oz/a	EPOST	B				11.7 a
LSD (P=.05)								2.98	10.05	13.53	67.73
Standard Deviation								1.58	5.34	7.18	35.97
CV								43.12	10.25	72.8	101.81
Bartlett's X2								0.0	3.39	13.887	0.839
P(Bartlett's X2)								.	0.184	0.008*	0.84
Replicate F								2.667	2.967	0.393	1.860
Replicate Prob(F)								0.1296	0.1086	0.6875	0.2171
Treatment F								14.000	238.105	5.486	1.647
Treatment Prob(F)								0.0011	0.0001	0.0200	0.2539

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code		C LAMBSQ		C LAMBSQ WITCHGRA		WITCHGRA PURSLANE	
Crop Code		CONTROL		#PLANTS PER		CONTROL	
Rating Data Type		PERCENT		PLOT		PERCENT	
Rating Unit		Jun/17/09		Jun/17/09		Jun/17/09	
Rating Date		42 DA-A		42 DA-A		42 DA-A	
Trt-Eval Interval							
Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Unit	Grow Stg	Appl Code
1	UNTREATED CHECK						
2	VALOR SX	0.096 lb ai/a		3 oz/a		PRE	A
	COBRA	0.195 lb ai/a		12.5 oz/a		POST	C
	SELECT MAX	0.125 lb ai/a		16 oz/a		POST	C
	NIS	0.25 % v/v		3.2 oz/a		POST	C
	AMMONIUM SULFATE	2.5 lb ai/a		2.5 lb/a		POST	C
3	VALOR SX	0.096 lb ai/a		3 oz/a		PRE	A
	DUAL II MAGNUM	0.955 lb ai/a		16 oz/a		PRE	A
	COBRA	0.195 lb ai/a		12.5 oz/a		POST	C
	SELECT MAX	0.125 lb ai/a		16 oz/a		POST	C
	NIS	0.25 % v/v		3.2 oz/a		POST	C
	AMMONIUM SULFATE	2.5 lb ai/a		2.5 lb/a		POST	C
4	VALOR SX	0.096 lb ai/a		3 oz/a		PRE	A
	DUAL II MAGNUM	0.955 lb ai/a		16 oz/a		PRE	A
	2,4-DB	0.25 lb ai/a		16 oz/a		EPOST	B
	COBRA	0.195 lb ai/a		12.5 oz/a		POST	C
	SELECT MAX	0.078 lb ai/a		10 oz/a		POST	C
	NIS	0.25 % v/v		3.2 oz/a		POST	C
	AMMONIUM SULFATE	2.5 lb ai/a		2.5 lb/a		POST	C
5	CADRE	0.063 lb ai/a		4.03 oz/a		EPOST	B
	COC	1 % v/v		12.8 oz/a		EPOST	B
LSD (P=.05)							
Standard Deviation							
CV							
Bartlett's X2							
P(Bartlett's X2)							
Replicate F							
Replicate Prob(F)							
Treatment F							
Treatment Prob(F)							

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code		PURSLANE		PIGWEED		PIGWEED		LAMBSQUA	
Crop Code		PEANUT		PEANUT		PEANUT		PEANUT	
Rating Data Type		#PLANTS PER		INJURY		CONTROL		INJURY	
Rating Unit		PLOT		PERCENT		PERCENT		PERCENT	
Rating Date		Jun/17/09		Jul/08/09		Jul/08/09		Jul/21/09	
Trt-Eval Interval		42 DA-A							
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
1	UNTREATED CHECK							0.7 a	0.0 b
2	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a	0.0 b
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C	88.3 ab	5.0 a
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C		88.3 a
	NIS	0.25	% v/v	3.2	oz/a	POST	C		41.7 b
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C		
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a	5.0 a
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A	92.7 ab	8.3 a
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C		94.0 a
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C		68.3 a
	NIS	0.25	% v/v	3.2	oz/a	POST	C		
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C		
4	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a	5.0 a
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A	96.3 a	6.7 a
	2,4-DB	0.25	lb ai/a	16	oz/a	EPOST	B		96.0 a
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C		85.0 a
	SELECT MAX	0.078	lb ai/a	10	oz/a	POST	C		
	NIS	0.25	% v/v	3.2	oz/a	POST	C		
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C		
5	CADRE	0.063	lb ai/a	4.03	oz/a	EPOST	B	0.3 a	3.3 a
	COC	1	% v/v	12.8	oz/a	EPOST	B	86.7 b	8.3 a
	LSD (P=.05)							86.7 a	38.3 b
	Standard Deviation							0.64	2.43
	CV							8.69	6.20
	Bartlett's X2							6.20	9.64
	P(Bartlett's X2)							9.64	19.71
	Replicate F							10.47	22.43
	Replicate Prob(F)							7.01	0.125
	Treatment F							0.93	1.839
	Treatment Prob(F)							0.334	0.0001
								0.818	0.0001
								0.606	0.0001
								3.300	0.0001
								0.2401	0.4096
								0.4607	0.5642
								0.2919	0.0901
								2.286	11.500
								235.463	3.308
								192.270	28.821
								0.1486	0.0021
								0.0001	0.0704
								0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval	CRABGRAS KOCHIA DEVILS C PUNCTURE CONTROL CONTROL CONTROL CONTROL PERCENT PERCENT PERCENT PERCENT Jul/21/09 Jul/21/09 Jul/21/09 Jul/21/09
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Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	UNTREATED CHECK							0.0 b	0.0 c	0.0 b	0.0 b
2	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	100.0 a	100.0 a	75.0 a	100.0 a
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C				
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C				
	NIS	0.25	% v/v	3.2	oz/a	POST	C				
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C				
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	100.0 a	100.0 a	83.3 a	83.3 a
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A				
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C				
	SELECT MAX	0.125	lb ai/a	16	oz/a	POST	C				
	NIS	0.25	% v/v	3.2	oz/a	POST	C				
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C				
4	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	100.0 a	100.0 a	96.7 a	100.0 a
	DUAL II MAGNUM	0.955	lb ai/a	16	oz/a	PRE	A				
	2,4-DB	0.25	lb ai/a	16	oz/a	EPOST	B				
	COBRA	0.195	lb ai/a	12.5	oz/a	POST	C				
	SELECT MAX	0.078	lb ai/a	10	oz/a	POST	C				
	NIS	0.25	% v/v	3.2	oz/a	POST	C				
	AMMONIUM SULFATE	2.5	lb ai/a	2.5	lb/a	POST	C				
5	CADRE	0.063	lb ai/a	4.03	oz/a	EPOST	B	100.0 a	20.0 b	96.7 a	100.0 a
	COC	1	% v/v	12.8	oz/a	EPOST	B				
LSD (P=.05)								0.00	8.42	46.06	24.31
Standard Deviation								0.00	4.47	24.46	12.91
CV								0.0	6.99	34.78	16.84
Bartlett's X2								0.0	0.0	8.7	0.0
P(Bartlett's X2)								.	.	0.034*	.
Replicate F								0.000	1.000	0.638	1.000
Replicate Prob(F)								1.0000	0.4096	0.5533	0.4096
Treatment F								0.000	372.000	8.178	34.000
Treatment Prob(F)								1.0000	0.0001	0.0063	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VALOR, COBRA, AND SELECT MAX WEED CONTROL IN PEANUT

Trial ID: 122F-09

Location: HALFWAY

Study Dir.: DR. PETER DOTRAY

Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY

Affiliation: TEXAS AGRILIFE RESEARCH

Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY

State/Prov.: TEXAS

Country: USA

Initiation Date: May/06/09

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name

POISON SUCKLEYA

COMMON LAMBSQUARTER

WITCHGRASS

COMMON PURSLANE

PALMER AMARANTH

CRABGRASS

KOCHIA

DEVIL'S CLAW

PUNCTUREVINE

PEANUT

Variety: OLIN (SPANISH)

Planting Date: May/06/09

Planting Method: 4 ROW

Rate: 65000 P/A

Row Spacing: 40 IN

Spacing Within Row: 5 SD/FT

Soil Temperature: 74.1 F

Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT

Plot Length, Unit: 30 FT

Reps: 3

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM

Soil Name: OLTON

MOISTURE CONDITIONS

Date Amount Unit Type

1. May/07/09 0.5 IN SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

A B C

Application Date: May/06/09 Jun/24/09 Jul/08/09

Time of Day: 5:00 PM 9:15 AM 10:20 AM

Application Method: SPRAY SPRAY SPRAY

Application Timing: PRE EPOST POST

Applic. Placement: BROADCAST BROADCAST BROADCAST

Air Temp., Unit: 82.6 F 85 F 88.4 F

% Relative Humidity: 35 45 50.4

Wind Velocity, Unit: 10 MPH 2 MPH 4.7 MPH

Soil Temp., Unit: 74.1 F 78 F 76.5 F

Soil Moisture: ADEQUATE ADEQUATE ADEQUATE

% Cloud Cover: 0 0 10

CROP STAGE AT EACH APPLICATION

A B C

PEANUT PEANUT PEANUT

Stage Scale: PRE BLOOM

Height, Unit: N/A 10 IN 13 IN

WEED STAGE AT EACH APPLICATION

A B C

SUCKLEYA SUCKLEYA

Stage Scale: 20-36 28-43

INCH INCH

WITCHGRAS WITCHGRAS

Stage Scale: 6-8 14

INCH INCH

PALMER AM PALMER AM

Stage Scale: 8-32 2-68

INCH INCH

Texas Agricultural Experiment Station

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	24 PSI	24 PSI
Nozzle Type:	TURBOTEET	TURBOTEET	TURBOTEET
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Boom Height, Unit:	18 IN	25 IN	26 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Incorporation Equip.:	IRRIG		
Hours to Incorp.:	24		
Incorp. Depth, Unit:	0.5 INCH		
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	C02	C02	C02

Treatment Application Comment

PREEMERGE APPLICATIONS WERE IRRIGATED IN WITH 0.5 INCHES WITHIN 24 HOURS

Texas Agricultural Experiment Station

VALOR/PROWL H2O EFFICACY COMPARISONS

Trial ID: 123F-09
Location: HALFWAY

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

							PIGWEEED		PIGWEEED		PEANUT	
							HEIGHT	WIDTH	INJURY	STAND	CONTROL	#PLANTS PER
							CM	CM	PERCENT	PLANT/M	PERCENT	PLOT
							Jun/03/09	Jun/03/09	Jun/03/09	Jun/03/09	Jun/03/09	Jun/03/09
							28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Trt	Treatment	Rate	Product	Product	Grow	Appl						
No.	Name	Rate	Unit	Rate	Unit	Stg						
1	UNTREATED						4.3 a	9.3 a	0.0 a	13.3 a	0.0 b	10.7 a
2	VALOR SX	0.064	lb ai/a	2 oz/a	PRE	A	4.0 a	8.7 a	0.0 a	13.7 a	98.7 a	0.7 b
3	VALOR SX	0.096	lb ai/a	3 oz/a	PRE	A	4.0 a	8.7 a	0.0 a	13.7 a	98.7 a	0.7 b
4	PROWL H2O	0.95	lb ai/a	2 pt/a	PRE	A	4.3 a	9.0 a	0.0 a	13.3 a	98.7 a	0.7 b
5	VALOR SX	0.096	lb ai/a	3 oz/a	PRE	A	4.0 a	9.0 a	0.0 a	13.7 a	99.3 a	0.3 b
	V-10206	0.106	lb ai/a	2 oz/a	EPOST	B						5.0 a
6	VALOR SX	0.096	lb ai/a	3 oz/a	PRE	A	4.0 a	9.3 a	0.0 a	13.7 a	98.7 a	0.7 b
	V-10206	0.213	lb ai/a	4 oz/a	EPOST	B						5.0 a
7	VALOR SX	0.096	lb ai/a	3 oz/a	PRE	A	4.0 a	9.0 a	0.0 a	13.7 a	98.7 a	0.7 b
	V-10206	0.106	lb ai/a	2 oz/a	MPOST	C						5.0 a
	NIS	0.25	% v/v	3.2 oz/a	MPOST	C						
LSD (P=.05)							0.57	0.96	0.00	1.21	2.03	1.26
Standard Deviation							0.32	0.54	0.00	0.68	1.14	0.71
CV							7.84	6.02	0.0	5.0	1.35	34.53
Bartlett's X2							0.0	1.048	0.0	1.909	0.0	1.909
P(Bartlett's X2)							.	0.902	.	0.928	1.00	0.928
Replicate F							0.462	1.946	0.000	1.241	0.146	0.667
Replicate Prob(F)							0.6410	0.1854	1.0000	0.3236	0.8654	0.5314
Treatment F							0.769	0.757	0.000	0.172	3212.830	86.762
Treatment Prob(F)							0.6084	0.6167	1.0000	0.9793	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code							PIGWEEED	PIGWEEED	SUCKLEYA	SUCKLEYA	C LAMBSQ	C LAMBSQ
Crop Code							CONTROL	#PLANTS PER	CONTROL	#PLANTS PER	CONTROL	#PLANTS PER
Rating Data Type							PERCENT	PLOT	PERCENT	PLOT	PERCENT	PLOT
Rating Unit							Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09
Rating Date												
Trt-Eval Interval												
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code					
1	UNTREATED							0.0 d	21.0 a	0.0 c	15.0 a	0.0 c
2	VALOR SX	0.064	lb ai/a	2	oz/a	PRE	A	74.7 bc	5.3 b	23.3 bc	11.7 a	62.0 ab
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	81.0 abc	4.0 bc	82.3 a	2.3 a	100.0 a
4	PROWL H2O	0.95	lb ai/a	2	pt/a	PRE	A	69.0 c	6.3 b	71.3 ab	4.7 a	95.3 ab
5	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	95.3 a	1.0 c	66.3 ab	5.7 a	33.3 bc
	V-10206	0.106	lb ai/a	2	oz/a	EPOST	B					
6	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	85.7 ab	2.7 bc	85.3 a	2.3 a	95.3 ab
	V-10206	0.213	lb ai/a	4	oz/a	EPOST	B					
7	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	90.7 a	2.3 bc	59.3 ab	6.7 a	66.7 ab
	V-10206	0.106	lb ai/a	2	oz/a	MPOST	C					
	NIS	0.25	% v/v	3.2	oz/a	MPOST	C					
LSD (P=.05)								13.94	3.71	52.85	9.26	58.61
Standard Deviation								7.83	2.09	29.71	5.20	32.94
CV								11.05	34.25	53.59	75.34	50.94
Bartlett's X2								9.154	7.791	4.24	4.532	9.515
P(Bartlett's X2)								0.103	0.254	0.515	0.605	0.049*
Replicate F								3.377	1.650	2.271	3.681	2.964
Replicate Prob(F)								0.0686	0.2327	0.1457	0.0567	0.0899
Treatment F								51.766	32.022	3.461	2.524	3.826
Treatment Prob(F)								0.0001	0.0001	0.0320	0.0813	0.0229

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code								WITCHGRA	WITCHGRA	R THISTL	R THISTL	PURSLANE	PURSLANE
Crop Code													
Rating Data Type								CONTROL	#PLANTS PER	CONTROL	#PLANTS PER	CONTROL	#PLANTS PER
Rating Unit								PERCENT	PLOT	PERCENT	PLOT	PERCENT	PLOT
Rating Date								Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09	Jun/17/09
Trt-Eval Interval													
Trt	Treatment		Rate	Product	Product	Grow	Appl						
No.	Name		Rate	Unit	Rate	Unit	Stg	Code					
1	UNTREATED								0.0 b	1.0 a	0.0 b	1.0 a	0.0 b
2	VALOR SX	0.064	lb ai/a		2 oz/a	PRE	A		66.7 a	0.3 b	100.0 a	0.0 b	100.0 a
3	VALOR SX	0.096	lb ai/a		3 oz/a	PRE	A		100.0 a	0.0 b	100.0 a	0.0 b	100.0 a
4	PROWL H2O	0.95	lb ai/a		2 pt/a	PRE	A		100.0 a	0.0 b	100.0 a	0.0 b	100.0 a
5	VALOR SX	0.096	lb ai/a		3 oz/a	PRE	A		100.0 a	0.0 b	100.0 a	0.0 b	100.0 a
	V-10206	0.106	lb ai/a		2 oz/a	EPOST	B						
6	VALOR SX	0.096	lb ai/a		3 oz/a	PRE	A		100.0 a	0.0 b	100.0 a	0.0 b	66.7 a
	V-10206	0.213	lb ai/a		4 oz/a	EPOST	B						
7	VALOR SX	0.096	lb ai/a		3 oz/a	PRE	A		100.0 a	0.0 b	100.0 a	0.0 b	100.0 a
	V-10206	0.106	lb ai/a		2 oz/a	MPOST	C						
	NIS	0.25	% v/v		3.2 oz/a	MPOST	C						
LSD (P=.05)								38.82	0.39	0.00	0.00	38.82	0.57
Standard Deviation								21.82	0.22	0.00	0.00	21.82	0.32
CV								26.96	114.56	0.0	0.0	26.96	134.91
Bartlett's X2								0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)								.	.	.	.	.	1.00
Replicate F								1.000	1.000	0.000	0.000	1.000	0.462
Replicate Prob(F)								0.3966	0.3966	1.0000	1.0000	0.3966	0.6410
Treatment F								9.000	9.000	0.000	0.000	9.000	7.231
Treatment Prob(F)								0.0007	0.0007	1.0000	1.0000	0.0007	0.0019

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code	PIGWEEED		PIGWEEED		WITCHGRA	LAMBSQUA
Crop Code	PEANUT		PEANUT			
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/08/09	Jul/08/09	Jul/21/09	Jul/21/09	Jul/21/09	Jul/21/09
Trt-Eval Interval						

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
1	UNTREATED							0.0 a	0.0 d	0.0 b	0.0 c	0.0 b	0.0 b
2	VALOR SX	0.064	lb ai/a	2	oz/a	PRE	A	0.0 a	83.3 c	0.0 b	86.7 b	100.0 a	58.3 a
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a	86.7 c	5.0 a	95.7 a	100.0 a	100.0 a
4	PROWL H2O	0.95	lb ai/a	2	pt/a	PRE	A	0.0 a	86.7 c	0.0 b	90.0 b	100.0 a	100.0 a
5	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	1.7 a	96.7 ab	3.3 a	97.3 a	100.0 a	58.3 a
	V-10206	0.106	lb ai/a	2	oz/a	EPOST	B						
6	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	3.3 a	98.3 a	5.0 a	99.0 a	100.0 a	100.0 a
	V-10206	0.213	lb ai/a	4	oz/a	EPOST	B						
7	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a	93.3 b	3.3 a	95.0 a	100.0 a	100.0 a
	V-10206	0.106	lb ai/a	2	oz/a	MPOST	C						
	NIS	0.25	% v/v	3.2	oz/a	MPOST	C						
LSD (P=.05)								2.97	3.63	2.86	4.52	0.00	49.65
Standard Deviation								1.67	2.04	1.61	2.54	0.00	27.91
CV								233.33	2.62	67.45	3.16	0.0	37.81
Bartlett's X2								0.0	0.0	0.0	5.715	0.0	0.0
P(Bartlett's X2)								.	1.00	.	0.222	.	.
Replicate F								0.000	6.000	0.462	1.421	0.000	0.955
Replicate Prob(F)								1.0000	0.0156	0.6410	0.2794	1.0000	0.4121
Treatment F								1.857	871.143	6.308	593.237	0.000	5.567
Treatment Prob(F)								0.1702	0.0001	0.0034	0.0001	1.0000	0.0057

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VALOR/PROWL H2O EFFICACY COMPARISONS

Trial ID: 123F-09
Location: HALFWAY

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TEXAS

Initiation Date: May/06/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH
POISON SUCKLEYA
COMMON LAMBSQUARTER
WITCHGRASS
RUSSIAN THISTLE
COMMON PURSLANE

Planting Date: PEANUT May/06/09 **Variety:** OLIN (SPANISH)
Rate: 65000 P/A **Planting Method:** 4 ROW
Row Spacing: 40 IN **Spacing Within Row:** 5 FT
Soil Temperature: 74.1 F **Soil Moisture:** NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

MOISTURE CONDITIONS

Date Amount Unit Type
1. May/07/09 0.5 IN SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May/06/09	Jun/03/09	Jun/24/09
Time of Day:	5:00 PM	10:30 AM	9:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPOST	MPOST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	82.6 F	65 F	84 F
% Relative Humidity:	35	59	45
Wind Velocity, Unit:	10 MPH	10 MPH	1.5 MPH
Soil Temp., Unit:	74.1 F	77 F	77 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	50	0

CROP STAGE AT EACH APPLICATION

	A	B	C
	PEANUT	PEANUT	PEANUT
Stage Scale:	PRE	EPOST	MPOST
Height, Unit:	N/A	2 IN	10 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
	PALMER AM		
Stage Scale:	8-32		
	INCH		
	SUCKLEYA		
Stage Scale:	20-36		
	INCH		
	WITCHGRAS		
Stage Scale:	6-8		
	INCH		

Texas Agricultural Experiment Station

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	28 PSI	24 PSI
Nozzle Type:	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Boom Height, Unit:	18 IN	18 IN	25 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Incorporation Equip.:	IRRIG		
Hours to Incorp.:	24		
Incorp. Depth, Unit:	0.5 INCH		
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	C02	C02	C02

Treatment Application Comment

PREEMERGE APPLICATIONS WERE IRRIGATED IN WITH 0.5 INCHES WITHIN 24 HOURS
 6/24/09 - BLANKET COBRA (12.5 OZ/A) + SELECT MAX (16 OZ/A) + COC ON
 TREATMENTS 2,3, AND 4

Texas Agricultural Experiment Station

MORNINGGLORY - PRE

Trial ID: 124F-09
Location: BILLY CAMPBELL'S

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code					MRNGGLRY	MRNGGLRY	MRNGGLRY		MRNGGLRY	MRNGGLRY	MRNGGLRY
Crop Code								COTTON			
Rating Data Type					CONTROL	PLANTS	PLANTS	INJURY	CONTROL	PLANTS	PLANTS
Rating Unit					PERCENT	PER PLOT	PERCHECK	PERCENT	PERCENT	PER PLOT	PERCHECK
Rating Date					Jun/03/09	Jun/03/09	Jun/03/09	Jun/03/09	Jun/17/09	Jun/17/09	Jun/17/09
Trt No.	Treatment Name	Rate	Appl Unit	Appl Code Description							
1	UNTREATED				0.0 d	20.3 a	23.0 a	0.0 a	0.0 d	174.0 a	150.0 a
2	CAPAROL	1.2 qt/a	A	AT PLANT	53.3 b	15.0 ab	19.0 a	0.0 a	30.0 bc	181.7 a	248.0 a
3	DIREX	0.8 qt/a	A	AT PLANT	87.3 a	5.3 bc	18.3 a	0.0 a	80.0 a	52.3 c	231.3 a
4	COTORAN	1.2 qt/a	A	AT PLANT	91.7 a	3.0 c	19.3 a	0.0 a	91.7 a	18.7 c	245.3 a
5	CAPAROL	1.2 qt/a	A	AT PLANT	36.7 c	8.7 bc	16.7 a	0.0 a	16.7 cd	165.3 ab	174.3 a
	REFLEX	8 oz/a	A	AT PLANT							
	COC	1 % v/v	A	AT PLANT							
6	CAPAROL	1.2 qt/a	A	AT PLANT	63.3 b	4.3 c	13.3 a	0.0 a	43.3 b	81.7 bc	122.0 a
	REFLEX	12 oz/a	A	AT PLANT							
	COC	1 % v/v	A	AT PLANT							
7	CAPAROL	1.2 qt/a	A	AT PLANT	60.0 b	8.3 bc	13.7 a	0.0 a	33.3 bc	151.0 ab	179.0 a
	REFLEX	16 oz/a	A	AT PLANT							
	COC	1 % v/v	A	AT PLANT							
8	DIREX	0.8 qt/a	A	AT PLANT	92.7 a	2.3 c	10.0 a	0.0 a	76.0 a	47.7 c	107.7 a
	STAPLE LX	1.3 oz/a	A	AT PLANT							
9	DIREX	0.8 qt/a	A	AT PLANT	95.7 a	1.7 c	15.3 a	0.0 a	88.0 a	28.7 c	197.0 a
	STAPLE LX	1.7 oz/a	A	AT PLANT							
10	STAPLE LX	1.7 oz/a	A	AT PLANT	88.3 a	1.7 c	9.0 a	0.0 a	78.3 a	31.0 c	117.0 a
LSD (P=.05)					15.66	9.66	9.91	0.00	24.04	83.41	135.55
Standard Deviation					9.13	5.63	5.78	0.00	14.01	48.62	79.02
CV					13.65	79.69	36.64	0.0	26.08	52.17	44.6
Bartlett's X2					16.388	23.284	6.088	0.0	8.121	13.321	4.312
P(Bartlett's X2)					0.037*	0.006*	0.731	.	0.322	0.149	0.89
Replicate F					3.938	3.160	9.128	0.000	0.176	0.794	1.839
Replicate Prob(F)					0.0381	0.0666	0.0018	1.0000	0.8397	0.4672	0.1876
Treatment F					34.446	3.687	1.722	0.000	16.558	5.691	1.347
Treatment Prob(F)					0.0001	0.0089	0.1559	1.0000	0.0001	0.0009	0.2814

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

MORNINGGLORY - PRE

Trial ID: 124F-09
Location: BILLY CAMPBELL'S

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	RED MORNINGGLORY	IPOMOEA COCCINEA

COTTON

Planting Date: May/07/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

A

Application Date: May/08/09
Time of Day: 10:00 AM
Application Method: BROADCAST
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 74 F
% Relative Humidity: 46
Wind Velocity, Unit: 8 MPH
Soil Temp., Unit: 74 F
Soil Moisture: DRY
% Cloud Cover: 0

APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

PEANUT RESPONSE TO VALOR LARGE PLOT - I

Trial ID: 129F-09

Study Dir.: DR. PETER DOTRAY/MANDA CATTANEO

Location: CHUCK ROWLAND-SEMINOLE

Investigator: Dr. Wayne Keeling

Crop Code						PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type						STAND	HEIGHT	WIDTH	INJURY	HEIGHT	WIDTH
Rating Unit						2M	CM	CM	PERCENT	CM	CM
Rating Date						May/21/09	May/21/09	May/21/09	May/21/09	Jun/03/09	Jun/03/09
Trt-Eval Interval						16 DA-A	16 DA-A	16 DA-A	16 DA-A	29 DA-A	29 DA-A
Trt Treatment	Rate	Product	Product	Grow	Appl						
No. Name	Rate	Unit	Rate	Rate	Unit	Stg	Code				
1 VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A		23.03 a	6.15 a	10.98 a	0.0 a
2 NON TREATED CONTROL								22.38 a	6.23 a	11.45 a	0.0 a
LSD (P=.05)								0.959	0.239	1.214	0.00
Standard Deviation								0.426	0.106	0.540	0.00
CV								1.88	1.71	4.81	0.0
Bartlett's X2								0.163	0.68	4.186	0.0
P(Bartlett's X2)								0.686	0.41	0.041*	.
Replicate F								8.975	8.998	0.759	0.000
Replicate Prob(F)								0.0522	0.0521	0.5868	1.0000
Treatment F								4.653	1.000	1.549	0.000
Treatment Prob(F)								0.1199	0.3910	0.3017	1.0000
											0.4101
											0.1709

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code						PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type						HEIGHT	WIDTH	HEIGHT	WIDTH	PLOT WEIGHT
Rating Unit						CM	CM	CM	CM	LBS
Rating Date						Jun/22/09	Jun/22/09	Sep/09/09	Sep/09/09	Oct/28/09
Trt-Eval Interval						48 DA-A	48 DA-A	127 DA-A	127 DA-A	176 DA-A
Trt No.	Treatment Name	Rate	Product	Product	Grow	Appl				
		Rate	Unit	Rate	Rate	Unit	Stg	Code		
1	VALOR SX	0.096	lb ai/a	3	oz/a		PRE	A		
2	NON TREATED CONTROL									
LSD (P=.05)										
Standard Deviation										
CV										
Bartlett's X2										
P(Bartlett's X2)										
Replicate F										
Replicate Prob(F)										
Treatment F										
Treatment Prob(F)										

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	PEANUT
Rating Data Type	YIELD
Rating Unit	LB/ACRE
Rating Date	Oct/28/09
Trt-Eval Interval	176 DA-A

Trt	Treatment	Rate	Product	Product	Grow	Appl	
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg Code
1	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A 6173.8 a
2	NON TREATED CONTROL						6367.0 a
LSD (P=.05)							748.46
Standard Deviation							332.65
CV							5.31
Bartlett's X2							0.586
P(Bartlett's X2)							0.444
Replicate F							0.801
Replicate Prob(F)							0.5700
Treatment F							0.675
Treatment Prob(F)							0.4715

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

PEANUT RESPONSE TO VALOR LARGE PLOT - I

Trial ID: 129F-09

Study Dir.: DR. PETER DOTRAY/MANDA CATTANEO

Location: CHUCK ROWLAND-SEMINOLE

Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/MANDA CATTANEO

Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE

Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: SEMINOLE

State/Prov.: TX

Initiation Date: Apr/29/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: CHUCK ROWLAND

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

PEANUT

Variety: FLAVORRUNNER 458

Planting Date: Apr/29/09

Planting Method: 8 ROW

SITE AND DESIGN

Plot Width, Unit: 80 FT

Plot Length, Unit: 200 FT

Reps: 4

Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

A

Application Date: May/05/09

Application Method: SPRAY

Application Timing: PRE A

Applic. Placement: BROADCAST

CROP STAGE AT EACH APPLICATION

A

PEANUT

Stage Scale: PREEMERGE

Texas Agricultural Experiment Station

VALOR LARGE PLOT WEED CONTROL - II

Trial ID: 130F-09

Study Dir.: DR. PETER DOTRAY

Location: AGCARES-LAMESA

Investigator: Dr. Wayne Keeling

Crop Code	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type	STAND	HEIGHT	WIDTH	INJURY	INJURY	INJURY	INJURY
Rating Unit	2M	CM	CM	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/21/09	May/21/09	May/21/09	May/21/09	Jun/04/09	Jun/18/09	Jul/02/09
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	35 DA-A	49 DA-A	63 DA-A

Trt	Treatment	Rate	Product	Product	Grow	Appl						
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code				
1	UNTREATED CHECK								20.17 a	4.00 a	10.30 a	0.0 a
2	VALOR SX	0.064	lb ai/a	2 oz/a	PRE	A			21.63 a	4.10 a	9.97 a	0.0 a
3	VALOR SX	0.096	lb ai/a	3 oz/a	PRE	A			20.10 a	4.07 a	10.10 a	0.0 a
LSD (P=.05)									4.208	0.521	2.699	0.00
Standard Deviation									1.857	0.230	1.191	0.00
CV									9.0	5.66	11.76	0.0
Bartlett's X2									1.896	1.192	0.214	0.0
P(Bartlett's X2)									0.388	0.275	0.899	.
Replicate F									0.123	1.664	0.076	0.000
Replicate Prob(F)									0.8876	0.2980	0.9281	1.0000
Treatment F									0.654	0.148	0.060	0.000
Treatment Prob(F)									0.5680	0.8671	0.9430	1.0000
												0.1111
												0.0007
												0.1111

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	PEANUT	PEANUT
Rating Data Type	INJURY	YIELD
Rating Unit	PERCENT	LB/ACRE
Rating Date	Sep/25/09	Nov/03/09
Trt-Eval Interval	148 DA-A	187 DA-A

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
1	UNTREATED CHECK							0.0 a	3298.7 b
2	VALOR SX	0.064	lb ai/a	2	oz/a	PRE	A	0.0 a	3722.0 a
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a	3116.0 b
LSD (P=.05)								0.00	184.90
Standard Deviation								0.00	81.57
CV								0.0	2.41
Bartlett's X2								0.0	1.661
P(Bartlett's X2)								.	0.436
Replicate F								0.000	4.189
Replicate Prob(F)								1.0000	0.1044
Treatment F								0.000	43.566
Treatment Prob(F)								1.0000	0.0019

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VALOR LARGE PLOT WEED CONTROL - II

Trial ID: 130F-09
Location: AGCARES-LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TEXAS

Initiation Date: Apr/30/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Runner: PEANUT Variety: OLO2
Planting Date: Apr/30/09 Planting Method: 8 ROW
Rate: 67000 P/A
Row Spacing: 40 IN Spacing Within Row: 5.1 FT
Soil Temperature: 82.1 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 26.7 FT Plot Length, Unit: 400 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. May/01/09	0.7	IN	SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

A
Application Date: Apr/30/09
Time of Day: 4 PM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 91.8 F
% Relative Humidity: 10
Wind Velocity, Unit: 7 MPH
Soil Temp., Unit: 82.1 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

CROP STAGE AT EACH APPLICATION

A
PEANUT
Stage Scale: PRE
N/A

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 20 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Treatment Application Comment

5/1/09 - APPLIED 0.7" IRRIGATION TO INCORPORATE PRE'S

Texas Agricultural Experiment Station

VALOR LARGE PLOT WEED CONTROL - III

Trial ID: 131F-09

Study Dir.: DR. PETER DOTRAY

Location: HALFWAY PEANUT

Investigator: Dr. Wayne Keeling

Crop Code	PEANUT						
Rating Data Type	INJURY						
Rating Unit	PERCENT						
Rating Date	May/29/09						
Trt-Eval Interval	23 DA-A						
Trt	Treatment	Rate	Product	Product	Grow	Appl	
No.	Name	Rate	Unit	Rate	Unit	Stg	Code
1	UNTREATED CHECK						
2	VALOR SX	0.064	lb ai/a	2 oz/a	PRE	A	
3	VALOR SX	0.096	lb ai/a	3 oz/a	PRE	A	
LSD (P=.05)							
Standard Deviation							
CV							
Bartlett's X2							
P(Bartlett's X2)							
Replicate F							
Replicate Prob(F)							
Treatment F							
Treatment Prob(F)							

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	PEANUT
Rating Data Type	YIELD
Rating Unit	LB/ACRE
Rating Date	Oct/14/09
Trt-Eval Interval	161 DA-A

Trt	Treatment	Rate	Product	Product	Grow	Appl	
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg Code
1	UNTREATED CHECK						4119.0 a
2	VALOR SX	0.064	lb ai/a	2	oz/a	PRE A	4332.3 a
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE A	4148.7 a
LSD (P=.05)							1089.88
Standard Deviation							480.84
CV							11.45
Bartlett's X2							3.893
P(Bartlett's X2)							0.143
Replicate F							0.057
Replicate Prob(F)							0.9456
Treatment F							0.173
Treatment Prob(F)							0.8469

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VALOR LARGE PLOT WEED CONTROL - III

Trial ID: 131F-09
Location: HALFWAY PEANUT

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TEXAS

Initiation Date: May/06/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

PEANUT Variety: OLIN (SPANISH)
Planting Date: May/06/09 Planting Method: 4 ROW
Rate: 65000 P/A
Row Spacing: 40 IN Spacing Within Row: 5 FT
Soil Temperature: 74.1 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 200 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. May/07/09	0.5	IN	SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

A
Application Date: May/06/09
Time of Day: 5:00 PM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 82.6 F
% Relative Humidity: 35
Wind Velocity, Unit: 10 MPH
Soil Temp., Unit: 74.1 F
Soil Moisture: ADEQUATE
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
PEANUT
Stage Scale: PRE
N/A

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 20 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Treatment Application Comment

5/7/09 - APPLIED 0.5" IRRIGATION TO INCORPORATE PRE'S

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS

Trial ID: 132F-09
Location: AGCARES-LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Crop Code							PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type							STAND	HEIGHT	WIDTH	INJURY	INJURY	INJURY
Rating Unit							PLANT/2M	CM	CM	PERCENT	PERCENT	PERCENT
Rating Date							May/21/09	May/21/09	May/21/09	May/21/09	Jun/04/09	Jun/18/09
Trt	Treatment	Rate	Product	Product	Grow	Appl						
No.	Name	Rate	Unit	Rate	Unit	Stg	Code					
TABLE OF R MEANS												
Replicate 1							22.1	4.4	10.1	9.7	0.8	1.7
Replicate 2							20.7	4.1	9.7	11.6	1.1	3.1
Replicate 3							22.4	4.1	9.3	12.6	1.5	2.8
TABLE OF A MEANS												
1 PREEMERGENCE					PRE	A	21.8	4.4	10.7	0.3	0.0	1.5
2 AT CRACK					AT CRACK	B	21.7	3.9	8.7	22.3	2.3	3.5
TABLE OF B MEANS												
1 VALOR SX		0 lb ai/a	0 oz/a				22.2	4.8	10.9	0.3	0.0	0.0
2 VALOR SX		0.064 lb ai/a	2 oz/a				21.9	3.9	9.2	14.2	0.8	1.1
3 VALOR SX		0.096 lb ai/a	3 oz/a				21.1	3.8	8.9	19.3	2.6	6.4
TABLE OF C MEANS												
1 GRAMOXONE INTEON		0 lb ai/a	0 oz/a				21.4	4.2	9.7	10.1	0.8	1.7
2 GRAMOXONE INTEON		0.125 lb ai/a	8 oz/a				21.4	4.0	9.5	12.7	1.5	3.3
2 NIS		0.25 % v/v	3.2 oz/a									
3 GRAMOXONE INTEON		0.25 lb ai/a	16 oz/a				22.4	4.3	9.8	11.1	1.1	2.5
3 NIS		0.25 % v/v	3.2 oz/a									
TABLE OF AB MEANS												
1 PREEMERGENCE					PRE	A	21.6	4.7	10.9	0.0	0.0	0.0
1 VALOR SX		0 lb ai/a	0 oz/a									
2 AT CRACK					AT CRACK	B	22.9	4.9	11.0	0.7	0.0	0.0
1 VALOR SX		0 lb ai/a	0 oz/a									
1 PREEMERGENCE					PRE	A	22.6	4.3	10.7	0.0	0.0	0.0
2 VALOR SX		0.064 lb ai/a	2 oz/a									
2 AT CRACK					AT CRACK	B	21.3	3.4	7.7	28.3	1.7	2.2
2 VALOR SX		0.064 lb ai/a	2 oz/a									
1 PREEMERGENCE					PRE	A	21.2	4.3	10.4	0.9	0.0	4.4
3 VALOR SX		0.096 lb ai/a	3 oz/a									
2 AT CRACK					AT CRACK	B	21.0	3.3	7.4	37.8	5.2	8.3
3 VALOR SX		0.096 lb ai/a	3 oz/a									
TABLE OF AC MEANS												
1 PREEMERGENCE					PRE	A	21.8	4.6	10.4	0.2	0.0	1.1
1 GRAMOXONE INTEON		0 lb ai/a	0 oz/a									
2 AT CRACK					AT CRACK	B	21.1	3.9	9.0	20.0	1.7	2.2
1 GRAMOXONE INTEON		0 lb ai/a	0 oz/a									
1 PREEMERGENCE					PRE	A	21.3	4.3	10.7	0.4	0.0	1.7
2 GRAMOXONE INTEON		0.125 lb ai/a	8 oz/a									
2 NIS		0.25 % v/v	3.2 oz/a									
2 AT CRACK					AT CRACK	B	21.6	3.7	8.3	24.9	3.0	5.0
2 GRAMOXONE INTEON		0.125 lb ai/a	8 oz/a									
2 NIS		0.25 % v/v	3.2 oz/a									
1 PREEMERGENCE					PRE	A	22.2	4.4	10.9	0.2	0.0	1.7
3 GRAMOXONE INTEON		0.25 lb ai/a	16 oz/a									
3 NIS		0.25 % v/v	3.2 oz/a									
2 AT CRACK					AT CRACK	B	22.6	4.1	8.8	21.9	2.2	3.3
3 GRAMOXONE INTEON		0.25 lb ai/a	16 oz/a									
3 NIS		0.25 % v/v	3.2 oz/a									
TABLE OF BC MEANS												
1 VALOR SX		0 lb ai/a	0 oz/a				21.2	4.8	10.8	0.0	0.0	0.0
1 GRAMOXONE INTEON		0 lb ai/a	0 oz/a									
2 VALOR SX		0.064 lb ai/a	2 oz/a				22.3	3.7	9.2	12.5	0.0	0.0
1 GRAMOXONE INTEON		0 lb ai/a	0 oz/a									
3 VALOR SX		0.096 lb ai/a	3 oz/a				20.8	4.2	9.2	17.8	2.5	5.0
1 GRAMOXONE INTEON		0 lb ai/a	0 oz/a									
1 VALOR SX		0 lb ai/a	0 oz/a				22.0	4.5	11.0	0.7	0.0	0.0
2 GRAMOXONE INTEON		0.125 lb ai/a	8 oz/a									
2 NIS		0.25 % v/v	3.2 oz/a									

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT STAND PLANT/2M May/21/09
PEANUT HEIGHT CM May/21/09
PEANUT WIDTH CM May/21/09
PEANUT INJURY PERCENT May/21/09
PEANUT INJURY PERCENT Jun/04/09
PEANUT INJURY PERCENT Jun/18/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
2	VALOR SX	0.064	lb ai/a		2 oz/a			20.2	4.0	9.2	16.7	1.7	2.5
2	GRAMOXONE INTEON	0.125	lb ai/a		8 oz/a								
2	NIS	0.25	% v/v		3.2 oz/a								
3	VALOR SX	0.096	lb ai/a		3 oz/a			22.2	3.5	8.3	20.7	2.8	7.5
2	GRAMOXONE INTEON	0.125	lb ai/a		8 oz/a								
2	NIS	0.25	% v/v		3.2 oz/a								
1	VALOR SX	0	lb ai/a		0 oz/a			23.5	5.0	11.0	0.3	0.0	0.0
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a								
3	NIS	0.25	% v/v		3.2 oz/a								
2	VALOR SX	0.064	lb ai/a		2 oz/a			23.3	4.0	9.2	13.3	0.8	0.8
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a								
3	NIS	0.25	% v/v		3.2 oz/a								
3	VALOR SX	0.096	lb ai/a		3 oz/a			20.3	3.8	9.3	19.5	2.5	6.7
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a								
3	NIS	0.25	% v/v		3.2 oz/a								

TABLE OF ABC MEANS

1	PREEMERGENCE					PRE	A	20.0	5.0	10.7	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
2	AT CRACK					AT CRACK	B	22.3	4.7	11.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	PREEMERGENCE					PRE	A	24.3	4.0	10.3	0.0	0.0	0.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
2	AT CRACK					AT CRACK	B	20.3	3.3	8.0	25.0	0.0	0.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	PREEMERGENCE					PRE	A	21.0	4.7	10.3	0.7	0.0	3.3
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
2	AT CRACK					AT CRACK	B	20.7	3.7	8.0	35.0	5.0	6.7
3	VALOR SX	0.096	lb ai/a	3	oz/a								
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a								
1	PREEMERGENCE					PRE	A	21.7	4.3	11.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	AT CRACK					AT CRACK	B	22.3	4.7	11.0	1.3	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	PREEMERGENCE					PRE	A	19.7	4.7	11.0	0.0	0.0	0.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	AT CRACK					AT CRACK	B	20.7	3.3	7.3	33.3	3.3	5.0
2	VALOR SX	0.064	lb ai/a	2	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	PREEMERGENCE					PRE	A	22.7	4.0	10.0	1.3	0.0	5.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
2	AT CRACK					AT CRACK	B	21.7	3.0	6.7	40.0	5.7	10.0
3	VALOR SX	0.096	lb ai/a	3	oz/a								
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a								
2	NIS	0.25	% v/v	3.2	oz/a								
1	PREEMERGENCE					PRE	A	23.0	4.7	11.0	0.0	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								
2	AT CRACK					AT CRACK	B	24.0	5.3	11.0	0.7	0.0	0.0
1	VALOR SX	0	lb ai/a	0	oz/a								
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a								
3	NIS	0.25	% v/v	3.2	oz/a								

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT PEANUT PEANUT PEANUT PEANUT PEANUT
STAND HEIGHT WIDTH INJURY INJURY INJURY
PLANT/2M CM CM PERCENT PERCENT PERCENT
May/21/09 May/21/09 May/21/09 May/21/09 Jun/04/09 Jun/18/09

Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code					
1	PREEMERGENCE					PRE	A	23.7	4.3	10.7	0.0	0.0
2	VALOR SX	0.064	lb ai/a		2 oz/a							
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a							
3	NIS	0.25	% v/v		3.2 oz/a							
2	AT CRACK					AT CRACK	B	23.0	3.7	7.7	26.7	1.7
2	VALOR SX	0.064	lb ai/a		2 oz/a							
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a							
3	NIS	0.25	% v/v		3.2 oz/a							
1	PREEMERGENCE					PRE	A	20.0	4.3	11.0	0.7	0.0
3	VALOR SX	0.096	lb ai/a		3 oz/a							5.0
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a							
3	NIS	0.25	% v/v		3.2 oz/a							
2	AT CRACK					AT CRACK	B	20.7	3.3	7.7	38.3	5.0
3	VALOR SX	0.096	lb ai/a		3 oz/a							8.3
3	GRAMOXONE INTEON	0.25	lb ai/a		16 oz/a							
3	NIS	0.25	% v/v		3.2 oz/a							

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS

Trial ID: 132F-09
Location: AGCARES-LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PEANUT STAND PLANT/2M May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	235.870370				
R	2	30.037037	15.018519	6.030	0.0253	1.2
A	1	0.018519	0.018519	0.002	0.9648	3.2
RA	2	14.925926	7.462963	2.996	0.1068	1.7
B	2	12.037037	6.018519	1.540	0.3191	1.8
RB	4	15.629630	3.907407	1.569	0.2721	2.1
AB	2	14.925926	7.462963	10.075	0.0274	1.1
RAB	4	2.962963	0.740741	0.297	0.8717	3.0
C	2	10.703704	5.351852	2.223	0.2243	1.4
RC	4	9.629630	2.407407	0.967	0.4758	2.1
AC	2	2.703704	1.351852	0.689	0.5533	1.8
RAC	4	7.851852	1.962963	0.788	0.5642	3.0
BC	4	48.296296	12.074074	3.858	0.0494	2.4
RBC	8	25.037037	3.129630	1.257	0.3773	3.6
ABC	4	21.185185	5.296296	2.126	0.1689	3.0
RABC	8	19.925926	2.490741			

FACTORIAL/POOLED ERROR AOV For PEANUT STAND PLANT/2M May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	235.870370				
R	2	30.037037	15.018519	5.321	0.0098	1.1
A	1	0.018519	0.018519	0.007	0.9359	0.9
B	2	12.037037	6.018519	2.132	0.1341	1.1
AB	2	14.925926	7.462963	2.644	0.0856	1.6
C	2	10.703704	5.351852	1.896	0.1657	1.1
AC	2	2.703704	1.351852	0.479	0.6235	1.6
BC	4	48.296296	12.074074	4.278	0.0065	2.0
ABC	4	21.185185	5.296296	1.876	0.1372	2.8
ERROR	34	95.962963	2.822440			

COMPLETE FACTORIAL AOV For PEANUT HEIGHT CM May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	31.500000				
R	2	1.333333	0.666667	3.429	0.0841	0.3
A	1	4.166667	4.166667	18.750	0.0494	0.6
RA	2	0.444444	0.222222	1.143	0.3660	0.5
B	2	10.111111	5.055556	22.750	0.0065	0.4
RB	4	0.888889	0.222222	1.143	0.4025	0.6
AB	2	4.111111	2.055556	7.400	0.0453	0.7
RAB	4	1.111111	0.277778	1.429	0.3088	0.8
C	2	0.777778	0.388889	1.750	0.2844	0.4
RC	4	0.888889	0.222222	1.143	0.4025	0.6
AC	2	0.333333	0.166667	0.750	0.5289	0.6
RAC	4	0.888889	0.222222	1.143	0.4025	0.8
BC	4	1.777778	0.444444	1.600	0.2646	0.7
RBC	8	2.222222	0.277778	1.429	0.3129	1.0
ABC	4	0.888889	0.222222	1.143	0.4025	0.8
RABC	8	1.555556	0.194444			

FACTORIAL/POOLED ERROR AOV For PEANUT HEIGHT CM May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	31.500000				
R	2	1.333333	0.666667	2.833	0.0728	0.3
A	1	4.166667	4.166667	17.708	0.0002	0.3
B	2	10.111111	5.055556	21.486	0.0001	0.3
AB	2	4.111111	2.055556	8.736	0.0009	0.5
C	2	0.777778	0.388889	1.653	0.2065	0.3
AC	2	0.333333	0.166667	0.708	0.4996	0.5
BC	4	1.777778	0.444444	1.889	0.1350	0.6
ABC	4	0.888889	0.222222	0.944	0.4503	0.8
ERROR	34	8.000000	0.235294			

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COMPLETE FACTORIAL AOV For PEANUT WIDTH CM May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	159.648148				
R	2	5.481481	2.740741	4.893	0.0409	0.6
A	1	52.018519	52.018519	36.961	0.0260	1.4
RA	2	2.814815	1.407407	2.512	0.1423	0.8
B	2	43.259259	21.629630	9.898	0.0283	1.4
RB	4	8.740741	2.185185	3.901	0.0481	1.0
AB	2	29.037037	14.518519	25.290	0.0054	1.0
RAB	4	2.296296	0.574074	1.025	0.4502	1.4
C	2	1.037037	0.518519	1.057	0.4281	0.6
RC	4	1.962963	0.490741	0.876	0.5188	1.0
AC	2	1.925926	0.962963	9.455	0.0305	0.4
RAC	4	0.407407	0.101852	0.182	0.9414	1.4
BC	4	2.518519	0.629630	1.600	0.2646	0.8
RBC	8	3.148148	0.393519	0.702	0.6854	1.7
ABC	4	0.518519	0.129630	0.231	0.9131	1.4
RABC	8	4.481481	0.560185			

FACTORIAL/POOLED ERROR AOV For PEANUT WIDTH CM May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	159.648148				
R	2	5.481481	2.740741	3.907	0.0297	0.6
A	1	52.018519	52.018519	74.151	0.0001	0.5
B	2	43.259259	21.629630	30.832	0.0001	0.6
AB	2	29.037037	14.518519	20.696	0.0001	0.8
C	2	1.037037	0.518519	0.739	0.4850	0.6
AC	2	1.925926	0.962963	1.373	0.2671	0.8
BC	4	2.518519	0.629630	0.898	0.4762	1.0
ABC	4	0.518519	0.129630	0.185	0.9447	1.4
ERROR	34	23.851852	0.701525			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	13934.833333				
R	2	78.111111	39.055556	6.430	0.0216	1.9
A	1	6512.018519	6512.018519	266.199	0.0037	5.8
RA	2	48.925926	24.462963	4.027	0.0616	2.7
B	2	3474.333333	1737.166667	48.404	0.0016	5.5
RB	4	143.555556	35.888889	5.909	0.0163	3.3
AB	2	3226.037037	1613.018519	36.414	0.0027	8.7
RAB	4	177.185185	44.296296	7.293	0.0089	4.6
C	2	60.111111	30.055556	8.726	0.0348	1.7
RC	4	13.777778	3.444444	0.567	0.6940	3.3
AC	2	49.592593	24.796296	7.277	0.0465	2.4
RAC	4	13.629630	3.407407	0.561	0.6979	4.6
BC	4	23.888889	5.972222	1.208	0.3787	3.0
RBC	8	39.555556	4.944444	0.814	0.6110	5.7
ABC	4	25.518519	6.379630	1.050	0.4394	4.6
RABC	8	48.592593	6.074074			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT May/21/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	13934.833333				
R	2	78.111111	39.055556	2.737	0.0791	2.6
A	1	6512.018519	6512.018519	456.304	0.0001	2.1
B	2	3474.333333	1737.166667	121.725	0.0001	2.6
AB	2	3226.037037	1613.018519	113.026	0.0001	3.6
C	2	60.111111	30.055556	2.106	0.1373	2.6
AC	2	49.592593	24.796296	1.738	0.1912	3.6
BC	4	23.888889	5.972222	0.418	0.7941	4.5
ABC	4	25.518519	6.379630	0.447	0.7738	6.3
ERROR	34	485.222222	14.271242			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jun/04/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	252.814815				
R	2	4.037037	2.018519	2.627	0.1328	0.7
A	1	71.185185	71.185185	35.266	0.0272	1.7
RA	2	4.037037	2.018519	2.627	0.1328	1.0
B	2	64.037037	32.018519	27.016	0.0048	1.0
RB	4	4.740741	1.185185	1.542	0.2786	1.2
AB	2	64.037037	32.018519	27.016	0.0048	1.4
RAB	4	4.740741	1.185185	1.542	0.2786	1.7
C	2	4.037037	2.018519	2.627	0.1869	0.8
RC	4	3.074074	0.768519	1.000	0.4609	1.2
AC	2	4.037037	2.018519	2.627	0.1869	1.1
RAC	4	3.074074	0.768519	1.000	0.4609	1.7
BC	4	4.740741	1.185185	1.542	0.2786	1.2
RBC	8	6.148148	0.768519	1.000	0.5000	2.0
ABC	4	4.740741	1.185185	1.542	0.2786	1.7
RABC	8	6.148148	0.768519			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jun/04/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	252.814815				
R	2	4.037037	2.018519	2.147	0.1324	0.7
A	1	71.185185	71.185185	75.722	0.0001	0.5
B	2	64.037037	32.018519	34.059	0.0001	0.7
AB	2	64.037037	32.018519	34.059	0.0001	0.9
C	2	4.037037	2.018519	2.147	0.1324	0.7
AC	2	4.037037	2.018519	2.147	0.1324	0.9
BC	4	4.740741	1.185185	1.261	0.3044	1.1
ABC	4	4.740741	1.185185	1.261	0.3044	1.6
ERROR	34	31.962963	0.940087			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jun/18/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	787.500000				
R	2	19.444444	9.722222	3.000	0.1066	1.4
A	1	56.018519	56.018519	3.270	0.2123	4.8
RA	2	34.259259	17.129630	5.286	0.0344	2.0
B	2	419.444444	209.722222	75.500	0.0007	1.5
RB	4	11.111111	2.777778	0.857	0.5282	2.4
AB	2	34.259259	17.129630	2.313	0.2151	3.6
RAB	4	29.629630	7.407407	2.286	0.1486	3.4
C	2	25.000000	12.500000	1.286	0.3705	2.9
RC	4	38.888889	9.722222	3.000	0.0870	2.4
AC	2	12.037037	6.018519	0.684	0.5552	3.9
RAC	4	35.185185	8.796296	2.714	0.1070	3.4
BC	4	13.888889	3.472222	1.250	0.3640	2.2
RBC	8	22.222222	2.777778	0.857	0.5836	4.2
ABC	4	10.185185	2.546296	0.786	0.5654	3.4
RABC	8	25.925926	3.240741			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jun/18/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	787.500000				
R	2	19.444444	9.722222	1.676	0.2022	1.6
A	1	56.018519	56.018519	9.657	0.0038	1.3
B	2	419.444444	209.722222	36.155	0.0001	1.6
AB	2	34.259259	17.129630	2.953	0.0657	2.3
C	2	25.000000	12.500000	2.155	0.1315	1.6
AC	2	12.037037	6.018519	1.038	0.3653	2.3
BC	4	13.888889	3.472222	0.599	0.6662	2.8
ABC	4	10.185185	2.546296	0.439	0.7795	4.0
ERROR	34	197.222222	5.800654			

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT PEANUT PEANUT PEANUT
INJURY INJURY INJURY YIELD
PERCENT PERCENT PERCENT LB/ACRE
Jul/02/09 Jul/31/09 Sep/25/09 Nov/02/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
TABLE OF R MEANS											
Replicate 1								2.0	2.7	0.0	3215.3
Replicate 2								1.9	2.7	0.0	3300.2
Replicate 3								1.7	2.7	0.0	3813.1
TABLE OF A MEANS											
1	PREEMERGENCE					PRE	A	2.0	2.2	0.0	3457.3
2	AT CRACK					AT CRACK	B	1.7	3.2	0.0	3428.4
TABLE OF B MEANS											
1	VALOR SX	0	lb ai/a	0	oz/a			0.0	0.0	0.0	3296.8
2	VALOR SX	0.064	lb ai/a	2	oz/a			0.0	0.6	0.0	3424.0
3	VALOR SX	0.096	lb ai/a	3	oz/a			5.6	7.5	0.0	3607.7
TABLE OF C MEANS											
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a			1.8	2.6	0.0	3372.8
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a			1.9	2.9	0.0	3564.8
2	NIS	0.25	% v/v	3.2	oz/a						
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a			1.9	2.6	0.0	3390.9
3	NIS	0.25	% v/v	3.2	oz/a						
TABLE OF AB MEANS											
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3344.7
1	VALOR SX	0	lb ai/a	0	oz/a						
2	AT CRACK					AT CRACK	B	0.0	0.0	0.0	3249.0
1	VALOR SX	0	lb ai/a	0	oz/a						
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3461.7
2	VALOR SX	0.064	lb ai/a	2	oz/a						
2	AT CRACK					AT CRACK	B	0.0	1.1	0.0	3386.3
2	VALOR SX	0.064	lb ai/a	2	oz/a						
1	PREEMERGENCE					PRE	A	5.9	6.6	0.0	3565.7
3	VALOR SX	0.096	lb ai/a	3	oz/a						
2	AT CRACK					AT CRACK	B	5.2	8.4	0.0	3649.8
3	VALOR SX	0.096	lb ai/a	3	oz/a						
TABLE OF AC MEANS											
1	PREEMERGENCE					PRE	A	1.9	2.6	0.0	3337.6
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
2	AT CRACK					AT CRACK	B	1.7	2.6	0.0	3408.1
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	PREEMERGENCE					PRE	A	2.1	1.7	0.0	3584.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	AT CRACK					AT CRACK	B	1.7	4.2	0.0	3545.6
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	PREEMERGENCE					PRE	A	1.9	2.3	0.0	3450.4
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						
2	AT CRACK					AT CRACK	B	1.9	2.8	0.0	3331.4
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						
TABLE OF BC MEANS											
1	VALOR SX	0	lb ai/a	0	oz/a			0.0	0.0	0.0	3143.5
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
2	VALOR SX	0.064	lb ai/a	2	oz/a			0.0	0.0	0.0	3514.8
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
3	VALOR SX	0.096	lb ai/a	3	oz/a			5.3	7.7	0.0	3460.2
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	VALOR SX	0	lb ai/a	0	oz/a			0.0	0.0	0.0	3555.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	VALOR SX	0.064	lb ai/a	2	oz/a			0.0	1.7	0.0	3368.3
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT INJURY PERCENT
PEANUT INJURY PERCENT
PEANUT INJURY PERCENT
PEANUT YIELD LB/ACRE
Jul/02/09 Jul/31/09 Sep/25/09 Nov/02/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
3	VALOR SX	0.096	lb ai/a	3	oz/a			5.7	7.2	0.0	3771.0
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	VALOR SX	0	lb ai/a	0	oz/a			0.0	0.0	0.0	3192.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						
2	VALOR SX	0.064	lb ai/a	2	oz/a			0.0	0.0	0.0	3388.8
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						
3	VALOR SX	0.096	lb ai/a	3	oz/a			5.7	7.7	0.0	3592.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						

TABLE OF ABC MEANS

1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3131.7
1	VALOR SX	0	lb ai/a	0	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
2	AT CRACK					AT CRACK	B	0.0	0.0	0.0	3155.3
1	VALOR SX	0	lb ai/a	0	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3594.3
2	VALOR SX	0.064	lb ai/a	2	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
2	AT CRACK					AT CRACK	B	0.0	0.0	0.0	3435.3
2	VALOR SX	0.064	lb ai/a	2	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	PREEMERGENCE					PRE	A	5.7	7.7	0.0	3286.7
3	VALOR SX	0.096	lb ai/a	3	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
2	AT CRACK					AT CRACK	B	5.0	7.7	0.0	3633.7
3	VALOR SX	0.096	lb ai/a	3	oz/a						
1	GRAMOXONE INTEON	0	lb ai/a	0	oz/a						
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3743.0
1	VALOR SX	0	lb ai/a	0	oz/a						
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	AT CRACK					AT CRACK	B	0.0	0.0	0.0	3367.0
1	VALOR SX	0	lb ai/a	0	oz/a						
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3409.0
2	VALOR SX	0.064	lb ai/a	2	oz/a						
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	AT CRACK					AT CRACK	B	0.0	3.3	0.0	3327.7
2	VALOR SX	0.064	lb ai/a	2	oz/a						
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	PREEMERGENCE					PRE	A	6.3	5.0	0.0	3600.0
3	VALOR SX	0.096	lb ai/a	3	oz/a						
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
2	AT CRACK					AT CRACK	B	5.0	9.3	0.0	3942.0
3	VALOR SX	0.096	lb ai/a	3	oz/a						
2	GRAMOXONE INTEON	0.125	lb ai/a	8	oz/a						
2	NIS	0.25	% v/v	3.2	oz/a						
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3159.3
1	VALOR SX	0	lb ai/a	0	oz/a						
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						
2	AT CRACK					AT CRACK	B	0.0	0.0	0.0	3224.7
1	VALOR SX	0	lb ai/a	0	oz/a						
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						
1	PREEMERGENCE					PRE	A	0.0	0.0	0.0	3381.7
2	VALOR SX	0.064	lb ai/a	2	oz/a						
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a						
3	NIS	0.25	% v/v	3.2	oz/a						

Texas Agricultural Experiment Station

Crop Code		PEANUT		PEANUT		PEANUT		PEANUT	
Rating Data Type		INJURY		INJURY		INJURY		YIELD	
Rating Unit		PERCENT		PERCENT		PERCENT		LB/ACRE	
Rating Date		Jul/02/09		Jul/31/09		Sep/25/09		Nov/02/09	
Trt	Treatment	Rate	Unit	Product	Product	Grow	Appl		
No.	Name	Rate	Unit	Rate	Rate	Stg	Code		
2	AT CRACK					AT CRACK	B	0.0	0.0
2	VALOR SX	0.064	lb ai/a	2	oz/a				0.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a				
3	NIS	0.25	% v/v	3.2	oz/a				
1	PREEMERGENCE					PRE	A	5.7	7.0
3	VALOR SX	0.096	lb ai/a	3	oz/a				0.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a				
3	NIS	0.25	% v/v	3.2	oz/a				
2	AT CRACK					AT CRACK	B	5.7	8.3
3	VALOR SX	0.096	lb ai/a	3	oz/a				0.0
3	GRAMOXONE INTEON	0.25	lb ai/a	16	oz/a				
3	NIS	0.25	% v/v	3.2	oz/a				

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS

Trial ID: 132F-09
Location: AGCARES-LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jul/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	384.814815				
R	2	1.037037	0.518519	2.333	0.1591	0.4
A	1	0.666667	0.666667	1.000	0.4226	1.0
RA	2	1.333333	0.666667	3.000	0.1066	0.5
B	2	370.370370	185.185185	357.143	0.0001	0.7
RB	4	2.074074	0.518519	2.333	0.1431	0.6
AB	2	1.333333	0.666667	1.000	0.4444	1.1
RAB	4	2.666667	0.666667	3.000	0.0870	0.9
C	2	0.148148	0.074074	1.000	0.4444	0.3
RC	4	0.296296	0.074074	0.333	0.8482	0.6
AC	2	0.444444	0.222222	1.000	0.4444	0.6
RAC	4	0.888889	0.222222	1.000	0.4609	0.9
BC	4	0.296296	0.074074	1.000	0.4609	0.4
RBC	8	0.592593	0.074074	0.333	0.9294	1.1
ABC	4	0.888889	0.222222	1.000	0.4609	0.9
RABC	8	1.777778	0.222222			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jul/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	384.814815				
R	2	1.037037	0.518519	1.831	0.1757	0.4
A	1	0.666667	0.666667	2.354	0.1342	0.3
B	2	370.370370	185.185185	653.846	0.0001	0.4
AB	2	1.333333	0.666667	2.354	0.1103	0.5
C	2	0.148148	0.074074	0.262	0.7714	0.4
AC	2	0.444444	0.222222	0.785	0.4644	0.5
BC	4	0.296296	0.074074	0.262	0.9005	0.6
ABC	4	0.888889	0.222222	0.785	0.5432	0.9
ERROR	34	9.629630	0.283224			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jul/31/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	805.648148				
R	2	0.037037	0.018519	0.007	0.9929	1.2
A	1	13.500000	13.500000	34.714	0.0276	0.7
RA	2	0.777778	0.388889	0.151	0.8626	1.7
B	2	628.703704	314.351852	62.638	0.0010	2.1
RB	4	20.074074	5.018519	1.943	0.1967	2.1
AB	2	8.111111	4.055556	0.533	0.6235	3.6
RAB	4	30.444444	7.611111	2.946	0.0904	3.0
C	2	1.814815	0.907407	0.321	0.7423	1.6
RC	4	11.296296	2.824074	1.093	0.4219	2.1
AC	2	16.777778	8.388889	1.853	0.2695	2.8
RAC	4	18.111111	4.527778	1.753	0.2314	3.0
BC	4	10.296296	2.574074	1.293	0.3498	1.9
RBC	8	15.925926	1.990741	0.771	0.6393	3.7
ABC	4	9.111111	2.277778	0.882	0.5160	3.0
RABC	8	20.666667	2.583333			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jul/31/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	805.648148				
R	2	0.037037	0.018519	0.005	0.9946	1.3
A	1	13.500000	13.500000	3.913	0.0561	1.0
B	2	628.703704	314.351852	91.119	0.0001	1.3
AB	2	8.111111	4.055556	1.176	0.3209	1.8
C	2	1.814815	0.907407	0.263	0.7703	1.3
AC	2	16.777778	8.388889	2.432	0.1030	1.8
BC	4	10.296296	2.574074	0.746	0.5674	2.2
ABC	4	9.111111	2.277778	0.660	0.6239	3.1
ERROR	34	117.296296	3.449891			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Sep/25/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	0.000000				
R	2	0.000000	0.000000	0.000	1.0000	0.0
A	1	0.000000	0.000000	0.000	1.0000	0.0
RA	2	0.000000	0.000000	0.000	0.0000	0.0
B	2	0.000000	0.000000	0.000	1.0000	0.0
RB	4	0.000000	0.000000	0.000	0.0000	0.0
AB	2	0.000000	0.000000	0.000	0.0000	0.0
RAB	4	0.000000	0.000000	0.000	0.0000	0.0
C	2	0.000000	0.000000	0.000	1.0000	0.0
RC	4	0.000000	0.000000	0.000	0.0000	0.0
AC	2	0.000000	0.000000	0.000	0.0000	0.0
RAC	4	0.000000	0.000000	0.000	0.0000	0.0
BC	4	0.000000	0.000000	0.000	0.0000	0.0
RBC	8	0.000000	0.000000	0.000	0.0000	0.0
ABC	4	0.000000	0.000000	0.000	0.0000	0.0
RABC	8	0.000000	0.000000			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Sep/25/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	0.000000				
R	2	0.000000	0.000000	0.000	1.0000	0.0
A	1	0.000000	0.000000	0.000	1.0000	0.0
B	2	0.000000	0.000000	0.000	1.0000	0.0
AB	2	0.000000	0.000000	0.000	0.0000	0.0
C	2	0.000000	0.000000	0.000	1.0000	0.0
AC	2	0.000000	0.000000	0.000	0.0000	0.0
BC	4	0.000000	0.000000	0.000	0.0000	0.0
ABC	4	0.000000	0.000000	0.000	0.0000	0.0
ERROR	34	0.000000	0.000000			

COMPLETE FACTORIAL AOV For PEANUT YIELD LB/ACRE Nov/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	10653716.814815				
R	2	3765311.148148	1882655.574074	49.057	0.0001	150.6
A	1	11324.518519	11324.518519	0.040	0.8592	619.7
RA	2	560070.259259	280035.129630	7.297	0.0157	213.0
B	2	879462.703704	439731.351852	6.615	0.0539	238.6
RB	4	265913.962963	66478.490741	1.732	0.2355	260.8
AB	2	87234.037037	43617.018519	0.204	0.8235	605.1
RAB	4	855376.185185	213844.046296	5.572	0.0192	368.8
C	2	404332.259259	202166.129630	1.465	0.3331	343.7
RC	4	551866.074074	137966.518519	3.595	0.0583	260.8
AC	2	81452.259259	40726.129630	0.246	0.7928	532.2
RAC	4	661580.962963	165395.240741	4.310	0.0377	368.8
BC	4	570168.518519	142542.129630	1.235	0.3691	452.2
RBC	8	923084.148148	115385.518519	3.007	0.0702	451.7
ABC	4	729524.518519	182381.129630	4.752	0.0294	368.8
RABC	8	307015.259259	38376.907407			

FACTORIAL/POOLED ERROR AOV For PEANUT YIELD LB/ACRE Nov/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	53	10653716.814815				
R	2	3765311.148148	1882655.574074	15.518	0.0001	237.1
A	1	11324.518519	11324.518519	0.093	0.7618	193.6
B	2	879462.703704	439731.351852	3.625	0.0374	237.1
AB	2	87234.037037	43617.018519	0.360	0.7006	335.3
C	2	404332.259259	202166.129630	1.666	0.2040	237.1
AC	2	81452.259259	40726.129630	0.336	0.7172	335.3
BC	4	570168.518519	142542.129630	1.175	0.3392	410.6
ABC	4	729524.518519	182381.129630	1.503	0.2231	580.7
ERROR	34	4124906.851852	121320.789760			

Texas Agricultural Experiment Station

VALOR TANK MIX COMBINATIONS

Trial ID: 132F-09
Location: AGCARES-LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TEXAS

Initiation Date: Apr/30/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Runner: PEANUT Variety: OLO2
Planting Date: Apr/30/09 Planting Method: 8 ROW
Rate: 67000 P/A
Row Spacing: 40 IN Spacing Within Row: 5.1 FT
Soil Temperature: 82.1 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: FACTORIAL

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. May/01/09	0.7	IN	SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr/30/09	May/11/09
Time of Day:	6:30 PM	2:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	AT CRACK
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	91.8 F	62.2 F
% Relative Humidity:	10	89.4
Wind Velocity, Unit:	7 MPH	7 MPH
Soil Temp., Unit:	82.1 F	65 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	100

CROP STAGE AT EACH APPLICATION

	A	B
Stage Scale:	PEANUT	PEANUT
	PRE	AT CRACK
	N/A	N/A

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	30 PSI
Nozzle Type:	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	PIVOT	
Incorp. Depth, Unit:	0.7 IN	
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	CO2	CO2

Treatment Application Comment

5/1/09 - APPLIED 0.7" IRRIGATION TO INCORPORATE PRE'S

Texas Agricultural Experiment Station

PEANUT TOLERANCE TO HERBICIDE/FUNGICIDE TANK MIXES - GRASSY WEEDS I

Trial ID: 133F-09
Location: AG-CARES

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

Crop Code							PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	
Rating Data Type							INJURY	HEIGHT	WIDTH	INJURY	HEIGHT	WIDTH	INJURY	
Rating Unit							PERCENT	IN	IN	PERCENT	IN	IN	PERCENT	
Rating Date							Jun/26/09	Jun/26/09	Jun/26/09	Jul/09/09	Jul/09/09	Jul/09/09	Aug/05/09	
Trt-Eval Interval							14 DA-A	14 DA-A	14 DA-A	27 DA-A	27 DA-A	27 DA-A	54 DA-A	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code							
1	UNTREATED							0.0 d	6.50 abc	15.00 abc	0.0 d	10.33 a	27.7 ab	0.0 a
2	SELECT	0.125	lb ai/a	8 oz/a		POST A		0.0 d	6.67 abc	15.33 ab	2.7 bcd	10.33 a	27.3 ab	2.7 a
	COC	1.0	% v/v	12.8 oz/a		POST A								
3	HEADLINE	0.245	lb ai/a	15 oz/a		POST A		13.3 a	6.00 c	14.17 a-d	8.3 ab	8.83 d	25.0 c	3.3 a
	SELECT	0.125	lb ai/a	8 oz/a		POST A								
	COC	1.0	% v/v	12.8 oz/a		POST A								
4	FOLICUR	0.203	lb ai/a	7.2 oz/a		POST A		0.0 d	6.00 c	14.83 abc	3.3 bcd	9.50 a-d	27.3 ab	5.0 a
	SELECT	0.125	lb ai/a	8 oz/a		POST A								
	COC	1.0	% v/v	12.8 oz/a		POST A								
5	PROVOST	27	lb ai/a	8 oz/a		POST A		8.3 b	7.00 ab	15.67 a	7.7 abc	9.33 bcd	26.7 abc	6.0 a
	SELECT	0.125	lb ai/a	8 oz/a		POST A								
	COC	1.0	% v/v	12.8 oz/a		POST A								
6	POAST PLUS	0.185	lb ai/a	23.7 oz/a		POST A		0.0 d	6.50 abc	14.00 bcd	2.7 bcd	9.83 abc	27.0 ab	2.7 a
	COC	1.0	% v/v	12.8 oz/a		POST A								
7	HEADLINE	0.245	lb ai/a	15 oz/a		POST A		12.3 a	6.33 bc	13.67 cd	10.0 a	9.00 cd	25.7 bc	6.0 a
	POAST PLUS	0.185	lb ai/a	23.7 oz/a		POST A								
	COC	1.0	% v/v	12.8 oz/a		POST A								
8	FOLICUR	0.203	lb ai/a	7.2 oz/a		POST A		0.0 d	6.00 c	14.33 a-d	6.7 abc	9.67 a-d	25.7 bc	6.7 a
	POAST PLUS	0.185	lb ai/a	23.7 oz/a		POST A								
	COC	1.0	% v/v	12.8 oz/a		POST A								
9	PROVOST	27	lb ai/a	8 oz/a		POST A		3.3 c	6.33 bc	13.00 d	6.7 abc	9.33 bcd	25.7 bc	1.7 a
	POAST PLUS	0.185	lb ai/a	23.7 oz/a		POST A								
	COC	1.0	% v/v	12.8 oz/a		POST A								
10	HEADLINE	0.245	lb ai/a	15 oz/a		POST A		10.7 ab	6.33 bc	14.00 bcd	5.0 a-d	9.67 a-d	26.0 abc	0.0 a
	COC	1.0	% v/v	12.8 oz/a		POST A								
11	FOLICUR	0.203	lb ai/a	7.2 oz/a		POST A		0.0 d	7.17 a	14.67 abc	1.7 cd	10.33 a	27.3 ab	1.7 a
	COC	1.0	% v/v	12.8 oz/a		POST A								
12	PROVOST	27	lb ai/a	8 oz/a		POST A		0.0 d	6.83 abc	13.50 cd	0.0 d	10.17 ab	28.0 a	0.0 a
	COC	1.0	% v/v	12.8 oz/a		POST A								
LSD (P=.05)							2.75	0.721	1.350	5.73	0.839	1.76	4.82	
Standard Deviation							1.63	0.426	0.797	3.38	0.496	1.04	2.85	
CV							40.65	6.58	5.56	74.26	5.11	3.91	95.78	
Bartlett's X2							1.669	1.887	8.145	2.876	6.4	6.716	4.028	
P(Bartlett's X2)							0.796	0.966	0.615	0.896	0.781	0.822	0.855	
Replicate F							1.355	0.038	2.501	1.291	5.627	2.570	2.204	
Replicate Prob(F)							0.2786	0.9625	0.1050	0.2950	0.0106	0.0993	0.1341	
Treatment F							34.269	2.495	2.895	2.888	3.321	2.626	2.232	
Treatment Prob(F)							0.0001	0.0327	0.0163	0.0165	0.0080	0.0259	0.0524	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	PEANUT	PEANUT	PEANUT
Rating Data Type	INJURY	LEAF SPOT	YIELD
Rating Unit	PERCENT		LB/ACRE
Rating Date	Sep/30/09		Nov/02/09
Trt-Eval Interval	110 DA-A		143 DA-A

Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	UNTREATED							0.0 d	5.67 a	3432.4 a	
2	SELECT	0.125	lb ai/a	8	oz/a	POST	A	0.0 d	5.83 a	3303.0 a	
	COC	1.0	% v/v	12.8	oz/a	POST	A				
3	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	0.0 d	5.50 a	3177.0 a	
	SELECT	0.125	lb ai/a	8	oz/a	POST	A				
	COC	1.0	% v/v	12.8	oz/a	POST	A				
4	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	1.0 cd	5.17 a	3305.0 a	
	SELECT	0.125	lb ai/a	8	oz/a	POST	A				
	COC	1.0	% v/v	12.8	oz/a	POST	A				
5	PROVOST	27	lb ai/a	8	oz/a	POST	A	2.7 bc	5.67 a	3517.6 a	
	SELECT	0.125	lb ai/a	8	oz/a	POST	A				
	COC	1.0	% v/v	12.8	oz/a	POST	A				
6	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A	0.0 d	5.67 a	3248.0 a	
	COC	1.0	% v/v	12.8	oz/a	POST	A				
7	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	4.3 ab	5.33 a	3648.0 a	
	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A				
	COC	1.0	% v/v	12.8	oz/a	POST	A				
8	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	5.3 a	5.50 a	3448.0 a	
	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A				
	COC	1.0	% v/v	12.8	oz/a	POST	A				
9	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 d	5.33 a	3551.3 a	
	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A				
	COC	1.0	% v/v	12.8	oz/a	POST	A				
10	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	0.0 d	5.33 a	3490.7 a	
	COC	1.0	% v/v	12.8	oz/a	POST	A				
11	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	0.0 d	5.83 a	3172.0 a	
	COC	1.0	% v/v	12.8	oz/a	POST	A				
12	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 d	5.33 a	3468.7 a	
	COC	1.0	% v/v	12.8	oz/a	POST	A				
LSD (P=.05)								2.08	0.641	514.80	
Standard Deviation								1.23	0.379	302.25	
CV								110.69	6.87	8.9	
Bartlett's X2								1.349	4.111	6.608	
P(Bartlett's X2)								0.717	0.942	0.83	
Replicate F								0.239	1.793	6.601	
Replicate Prob(F)								0.7896	0.1900	0.0063	
Treatment F								7.306	1.000	0.769	
Treatment Prob(F)								0.0001	0.4767	0.6656	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

PEANUT TOLERANCE TO HERBICIDE/FUNGICIDE TANK MIXES - GRASSY WEEDS I

Trial ID: 133F-09
Location: AG-CARES

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/DR. JASON WOODWARD
Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TX

Initiation Date: Jun/12/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Runner: PEANUT **Variety:** OL02
Planting Date: Apr/30/09 **Planting Method:** 8 ROW
Rate: 67000 P/A
Row Spacing: 40 IN **Spacing Within Row:** 5.1 SD/FT
Soil Temperature: 82.1 F **Soil Moisture:** ADEQUATE

SITE AND DESIGN

Plot Width, Unit: 13.33 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

A
Application Date: Jun/12/09
Time of Day: 10:00 AM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 91.9 F
% Relative Humidity: 14.8
Wind Velocity, Unit: 7.2 MPH
Soil Temp., Unit: 76.3 F
Soil Moisture: ADEQUATE
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
PEANUT
Height, Unit: 5 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 28 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Texas Agricultural Experiment Station

PEANUT TOLERANCE TO HERBICIDE/FUNGICIDE TANK MIXES - BROADLEAF WEEDS I

Trial ID: 134F-09
Location: AG-CARES

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

Crop Code							PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	
Rating Data Type							INJURY	HEIGHT	WIDTH	INJURY	HEIGHT	WIDTH	INJURY	
Rating Unit							PERCENT	IN	IN	PERCENT	IN	IN	PERCENT	
Rating Date							Jun/26/09	Jun/26/09	Jun/26/09	Jul/09/09	Jul/09/00	Jul/09/09	Aug/05/09	
Trt-Eval Interval							14 DA-A	14 DA-A	14 DA-A	27 DA-A	-3260 DA	27 DA-A	54 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code							
1	UNTREATED							0.0 e	6.67 a	14.00 a	0.0 d	11.00 a	28.3 a	0.0 c
2	COBRA	0.2	lb ai/a	12.8	oz/a	POST A		13.3 a	6.67 a	13.67 a	11.7 a	9.33 a	24.3 ef	8.3 a
	COC	1.0	% v/v	12.8	oz/a	POST A								
3	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		9.3 b	6.67 a	13.67 a	5.0 bcd	10.00 a	26.7 a-d	5.0 abc
	COBRA	0.2	lb ai/a	12.8	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
4	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		6.7 cd	6.67 a	14.00 a	8.3 abc	9.67 a	27.0 abc	7.3 ab
	COBRA	0.2	lb ai/a	12.8	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
5	PROVOST	27	lb ai/a	8	oz/a	POST A		8.3 bc	7.33 a	14.33 a	8.3 abc	10.00 a	25.7 b-f	6.7 ab
	COBRA	0.2	lb ai/a	12.8	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
6	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A		5.0 d	6.83 a	14.33 a	5.0 bcd	10.00 a	25.7 b-f	3.3 abc
	COC	1.0	% v/v	12.8	oz/a	POST A								
7	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		5.0 d	7.00 a	14.33 a	5.0 bcd	10.00 a	26.3 a-e	3.3 abc
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
8	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		5.0 d	6.83 a	13.67 a	6.7 a-d	10.33 a	25.7 b-f	3.3 abc
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
9	PROVOST	27	lb ai/a	8	oz/a	POST A		5.0 d	7.00 a	14.67 a	3.3 bcd	10.00 a	26.3 a-e	3.3 abc
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
10	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A		0.0 e	7.00 a	14.33 a	3.3 bcd	10.00 a	27.0 abc	4.3 abc
	COC	1.0	% v/v	12.8	oz/a	POST A								
11	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		7.0 cd	6.67 a	14.67 a	6.7 a-d	9.33 a	25.0 c-f	7.3 ab
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
12	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		0.0 e	6.50 a	15.00 a	0.0 d	10.33 a	27.7 ab	0.0 c
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
13	PROVOST	27	lb ai/a	8	oz/a	POST A		5.0 d	6.50 a	14.00 a	5.0 bcd	9.67 a	26.0 b-f	0.0 c
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
14	CADRE	0.063	lb ai/a	4.03	oz/a	POST A		0.0 e	6.67 a	14.00 a	0.0 d	10.00 a	26.7 a-d	5.0 abc
	COC	1.0	% v/v	12.8	oz/a	POST A								
15	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		8.3 bc	6.33 a	13.83 a	6.7 a-d	9.33 a	25.3 c-f	5.0 abc
	CADRE	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
16	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		0.0 e	6.33 a	13.67 a	1.7 cd	9.67 a	26.3 a-e	4.3 abc
	CADRE	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
17	PROVOST	27	lb ai/a	8	oz/a	POST A		0.0 e	6.00 a	14.33 a	0.0 d	10.00 a	26.0 b-f	2.7 abc
	CADRE	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
18	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A		0.0 e	6.67 a	14.33 a	0.0 d	10.00 a	26.7 a-d	0.0 c
	COC	1.0	% v/v	12.8	oz/a	POST A								
19	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		15.0 a	6.33 a	14.00 a	6.7 a-d	9.67 a	25.3 c-f	5.3 abc
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
20	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		5.0 d	6.50 a	14.00 a	3.3 bcd	9.67 a	26.0 b-f	3.3 abc
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
21	PROVOST	27	lb ai/a	8	oz/a	POST A		10.0 b	6.50 a	13.67 a	10.0 ab	9.50 a	24.0 f	7.7 ab
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
22	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		10.0 b	6.67 a	13.67 a	8.3 abc	9.67 a	24.7 def	6.0 abc
	COC	1.0	% v/v	12.8	oz/a	POST A								
23	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		0.0 e	6.17 a	15.00 a	0.0 d	10.00 a	26.7 a-d	1.7 bc
	COC	1.0	% v/v	12.8	oz/a	POST A								

Texas Agricultural Experiment Station

Crop Code								PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT							
Rating Data Type								INJURY	HEIGHT	WIDTH	INJURY	HEIGHT	WIDTH	INJURY							
Rating Unit								PERCENT	IN	IN	PERCENT	IN	IN	PERCENT							
Rating Date								Jun/26/09	Jun/26/09	Jun/26/09	Jul/09/09	Jul/09/00	Jul/09/09	Aug/05/09							
Trt-Eval Interval								14 DA-A	14 DA-A	14 DA-A	27 DA-A	-3260 DA	27 DA-A	54 DA-A							
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code														
24	PROVOST	27	lb ai/a	8	oz/a	POST	A	5.0	d	7.00	a	14.83	a	6.7	a-d	9.33	a	26.0	b-f	1.7	bc
	COC	1.0	% v/v	12.8	oz/a	POST	A														
LSD (P=.05)								2.02		0.772		1.426		5.57		0.918		1.73		5.42	
Standard Deviation								1.22		0.468		0.864		3.38		0.556		1.05		3.29	
CV								23.85		7.04		6.1		72.56		5.64		4.01		83.05	
Bartlett's X2								2.22		3.085		12.478		8.483		8.357		15.86		8.469	
P(Bartlett's X2)								0.818		1.00		0.926		0.863		0.909		0.777		0.955	
Replicate F								2.202		1.000		1.563		4.052		5.287		4.737		4.052	
Replicate Prob(F)								0.1221		0.3757		0.2204		0.0239		0.0086		0.0135		0.0239	
Treatment F								40.743		1.236		0.748		3.241		1.436		2.748		1.803	
Treatment Prob(F)								0.0001		0.2647		0.7719		0.0003		0.1462		0.0017		0.0442	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	PEANUT	PEANUT	PEANUT
Rating Data Type	INJURY	LEAF SPOT	YIELD
Rating Unit	PERCENT		LB/ACRE
Rating Date	Sep/30/09		Nov/02/09
Trt-Eval Interval	110 DA-A		143 DA-A

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code			
1	UNTREATED							0.0 b	5.83 ab	3298.7 a
2	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A	8.3 a	6.00 a	3407.7 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
3	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	1.7 b	5.50 a-d	3817.3 a
	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
4	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	4.3 ab	5.50 a-d	3748.7 a
	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
5	PROVOST	27	lb ai/a	8	oz/a	POST	A	5.0 ab	5.33 bcd	3689.0 a
	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
6	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A	3.3 ab	5.50 a-d	3398.0 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
7	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	1.7 b	5.33 bcd	4078.7 a
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
8	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	4.3 ab	5.50 a-d	3581.3 a
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
9	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 b	5.17 cd	3729.7 a
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
10	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A	3.3 ab	5.83 ab	3819.3 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
11	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	5.0 ab	5.33 bcd	3811.3 a
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
12	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	0.0 b	5.83 ab	3806.3 a
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
13	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 b	6.00 a	3754.7 a
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
14	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A	1.7 b	5.17 cd	3655.0 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
15	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	8.3 a	5.17 cd	3696.3 a
	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
16	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	3.3 ab	5.50 a-d	3600.7 a
	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
17	PROVOST	27	lb ai/a	8	oz/a	POST	A	3.3 ab	5.00 d	3445.0 a
	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
18	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A	0.0 b	5.83 ab	3697.7 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
19	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	3.3 ab	5.33 bcd	3865.0 a
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
20	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	3.3 ab	5.50 a-d	3726.3 a
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
21	PROVOST	27	lb ai/a	8	oz/a	POST	A	6.0 ab	5.67 abc	3540.0 a
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A			
	COC	1.0	% v/v	12.8	oz/a	POST	A			
22	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	8.3 a	5.17 cd	3785.3 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
23	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	3.3 ab	5.33 bcd	3594.0 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			
24	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 b	5.50 a-d	3828.3 a
	COC	1.0	% v/v	12.8	oz/a	POST	A			

LSD (P=.05)
Standard Deviation
CV
Bartlett's X2
P(Bartlett's X2)

5.47	0.537	748.73
3.32	0.325	453.74
102.02	5.92	12.32
6.688	7.381	47.973
0.987	0.965	0.002*

Texas Agricultural Experiment Station

Crop Code	PEANUT	PEANUT	PEANUT
Rating Data Type	INJURY	LEAF SPOT	YIELD
Rating Unit	PERCENT		LB/ACRE
Rating Date	Sep/30/09		Nov/02/09
Trt-Eval Interval	110 DA-A		143 DA-A

Trt	Treatment	Rate	Product	Product	Grow	Appl
No.	Name	Rate	Unit	Rate	Rate	Unit Stg Code

Replicate F	2.744	2.198	1.344
Replicate Prob(F)	0.0748	0.1225	0.2708
Treatment F	1.952	2.224	0.451
Treatment Prob(F)	0.0267	0.0105	0.9792

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

PEANUT TOLERANCE TO HERBICIDE/FUNGICIDE TANK MIXES - BROADLEAF WEEDS I

Trial ID: 134F-09
Location: AG-CARES

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/DR. JASON WOODWARD
Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TX

Initiation Date: Jun/12/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Runner: PEANUT **Variety:** OL02
Planting Date: Apr/30/09 **Planting Method:** 8 ROW
Rate: 67000 P/A
Row Spacing: 40 IN **Spacing Within Row:** 5.1 SD/FT
Soil Temperature: 82.1 F **Soil Moisture:** ADEQUATE

SITE AND DESIGN

Plot Width, Unit: 13.33 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

A
Application Date: Jun/12/09
Time of Day: 11:00 AM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 92 F
% Relative Humidity: 14
Wind Velocity, Unit: 7 MPH
Soil Temp., Unit: 76 F
Soil Moisture: ADEQUATE
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
PEANUT
Height, Unit: 5 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 28 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Texas Agricultural Experiment Station

HERBICIDE/FUNGICIDE TANK MIXES FOR GRASSY WEED CONTROL II

Trial ID: 135F-09
Location: HALFWAY PEANUT

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

Crop Code	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type	INJURY	INJURY	INJURY	INJURY	LEAF SPOT	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT		LB/ACRE
Rating Date	Jun/26/09	Jul/10/09	Aug/06/09	Sep/24/09	Sep/24/09	Oct/14/09
Trt-Eval Interval	14 DA-A	28 DA-A	55 DA-A	104 DA-A	104 DA-A	124 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code						
1	UNTREATED							0.0 a	0.0 a	0.0 a	0.0 a	1.50 a	2890.0 a
2	SELECT	0.125	lb ai/a	8	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.33 a	1873.0 a
	COC	1.0	% v/v	12.8	oz/a	POST	A						
3	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.33 a	2182.0 a
	SELECT	0.125	lb ai/a	8	oz/a	POST	A						
	COC	1.0	% v/v	12.8	oz/a	POST	A						
4	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2484.7 a
	SELECT	0.125	lb ai/a	8	oz/a	POST	A						
	COC	1.0	% v/v	12.8	oz/a	POST	A						
5	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2788.3 a
	SELECT	0.125	lb ai/a	8	oz/a	POST	A						
	COC	1.0	% v/v	12.8	oz/a	POST	A						
6	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.33 a	2625.0 a
	COC	1.0	% v/v	12.8	oz/a	POST	A						
7	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2165.3 a
	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A						
	COC	1.0	% v/v	12.8	oz/a	POST	A						
8	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	1892.3 a
	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A						
	COC	1.0	% v/v	12.8	oz/a	POST	A						
9	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2310.1 a
	POAST PLUS	0.185	lb ai/a	23.7	oz/a	POST	A						
	COC	1.0	% v/v	12.8	oz/a	POST	A						
10	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2639.7 a
	COC	1.0	% v/v	12.8	oz/a	POST	A						
11	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2463.0 a
	COC	1.0	% v/v	12.8	oz/a	POST	A						
12	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 a	0.0 a	0.0 a	0.0 a	1.17 a	2625.9 a
	COC	1.0	% v/v	12.8	oz/a	POST	A						
LSD (P=.05)								0.00	0.00	0.00	0.00	0.476	1055.24
Standard Deviation								0.00	0.00	0.00	0.00	0.281	617.49
CV								0.0	0.0	0.0	0.0	22.73	25.6
Bartlett's X2								0.0	0.0	0.0	0.0	0.0	10.188
P(Bartlett's X2)								.	.	.	.	.	0.514
Replicate F								0.000	0.000	0.000	0.000	0.616	1.818
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000	0.5492	0.1895
Treatment F								0.000	0.000	0.000	0.000	0.472	0.862
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000	0.9011	0.5877

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

HERBICIDE/FUNGICIDE TANK MIXES FOR GRASSY WEED CONTROL II

Trial ID: 135F-09
Location: HALFWAY PEANUT

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/DR. JASON WOODWARD
Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: Jun/12/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Planting Date: May/06/09 **Variety:** OLIN (SPANISH)
Rate: 65000 P/A **Planting Method:** 4 ROW
Row Spacing: 40 IN **Spacing Within Row:** 5 SD/FT
Soil Temperature: 74.1 **Soil Moisture:** ADEQUATE

SITE AND DESIGN

Plot Width, Unit: 13.33 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

APPLICATION DESCRIPTION

A
Application Date: Jun/12/09
Time of Day: 12:00 PM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 86 F
% Relative Humidity: 21
Wind Velocity, Unit: 7 MPH
Soil Moisture: ADEQUATE
% Cloud Cover: 5

CROP STAGE AT EACH APPLICATION

A
PEANUT
Height, Unit: 2.5 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 28 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Texas Agricultural Experiment Station

HERBICIDE/FUNGICIDE TANK MIXES FOR BROADLEAF WEED CONTROL II

Trial ID: 136F-09
Location: HALFWAY PEANUT

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

							PIGWEED		SLN	DEVILS C		PIGWEED		SLN
Weed Code							PEANUT					PEANUT		
Crop Code							INJURY	CONTROL	CONTROL	CONTROL		INJURY	CONTROL	CONTROL
Rating Data Type							PERCENT	PERCENT	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT
Rating Unit							Jul/01/09	Jul/01/09	Jul/01/09	Jul/01/09		Jul/14/09	Jul/14/09	Jul/14/09
Rating Date							15 DA-A	15 DA-A	15 DA-A	15 DA-A		28 DA-A	28 DA-A	28 DA-A
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code							
1	UNTREATED							0.0 g	0.0 d	0.0 b	0.0 d	0.0 a	0.0 c	0.0 b
2	COBRA	0.2	lb ai/a	12.8	oz/a	POST A		23.3 ab	98.3 a	83.3 a	100.0 a	18.3 a	98.3 a	90.0 a
	COC	1.0	% v/v	12.8	oz/a	POST A								
3	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		10.0 ef	100.0 a	48.3 ab	100.0 a	13.3 a	100.0 a	60.0 a
	COBRA	0.2	lb ai/a	12.8	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
4	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		25.0 a	96.7 a	86.7 a	100.0 a	11.7 a	91.7 a	86.7 a
	COBRA	0.2	lb ai/a	12.8	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
5	PROVOST	27	lb ai/a	8	oz/a	POST A		21.7 abc	100.0 a	70.0 ab	100.0 a	6.7 a	100.0 a	73.3 a
	COBRA	0.2	lb ai/a	12.8	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
6	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A		20.0 abc	65.0 bc	53.3 ab	93.3 ab	0.0 a	0.0 c	0.0 b
	COC	1.0	% v/v	12.8	oz/a	POST A								
7	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		16.7 cd	86.7 ab	63.3 ab	46.7 bc	15.0 a	55.0 b	63.3 a
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
8	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		21.7 abc	86.7 ab	68.3 ab	70.0 abc	15.0 a	73.3 ab	66.7 a
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
9	PROVOST	27	lb ai/a	8	oz/a	POST A		23.3 ab	56.7 c	66.7 ab	70.0 abc	16.7 a	23.3 c	56.7 a
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
10	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A		0.0 g	100.0 a	70.0 ab	73.3 abc	20.0 a	100.0 a	83.3 a
	COC	1.0	% v/v	12.8	oz/a	POST A								
11	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		0.0 g	100.0 a	86.0 a	93.3 ab	20.0 a	100.0 a	93.3 a
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
12	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		0.0 g	99.3 a	73.3 a	89.3 ab	18.3 a	98.7 a	75.0 a
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
13	PROVOST	27	lb ai/a	8	oz/a	POST A		13.3 de	100.0 a	66.7 ab	86.7 ab	11.7 a	98.3 a	90.0 a
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
14	CADRE	0.063	lb ai/a	4.03	oz/a	POST A		0.0 g	98.3 a	68.3 ab	93.3 ab	13.3 a	96.7 a	86.7 a
	COC	1.0	% v/v	12.8	oz/a	POST A								
15	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		0.0 g	99.3 a	66.7 ab	100.0 a	23.3 a	100.0 a	70.0 a
	CADRE	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
16	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		3.3 g	93.3 ab	46.7 ab	100.0 a	20.0 a	93.3 a	66.7 a
	CADRE	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
17	PROVOST	27	lb ai/a	8	oz/a	POST A		3.3 g	100.0 a	70.0 ab	99.3 a	21.7 a	100.0 a	73.3 a
	CADRE	0.063	lb ai/a	4.03	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
18	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A		10.0 ef	80.0 abc	60.0 ab	90.0 ab	15.0 a	76.7 ab	76.7 a
	COC	1.0	% v/v	12.8	oz/a	POST A								
19	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		18.3 bcd	86.7 ab	96.7 a	100.0 a	13.3 a	70.0 ab	100.0 a
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
20	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		5.0 fg	89.3 ab	96.7 a	90.0 ab	18.3 a	76.7 ab	96.7 a
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
21	PROVOST	27	lb ai/a	8	oz/a	POST A		20.0 abc	80.0 abc	96.7 a	100.0 a	11.7 a	76.7 ab	88.3 a
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST A								
	COC	1.0	% v/v	12.8	oz/a	POST A								
22	HEADLINE	0.245	lb ai/a	15	oz/a	POST A		3.3 g	23.3 d	0.0 b	33.3 cd	18.3 a	0.0 c	0.0 b
	COC	1.0	% v/v	12.8	oz/a	POST A								
23	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST A		0.0 g	0.0 d	0.0 b	0.0 d	23.3 a	0.0 c	0.0 b
	COC	1.0	% v/v	12.8	oz/a	POST A								

Texas Agricultural Experiment Station

Weed Code								PIGWEEED		SLN	DEVILS C		PIGWEEED		SLN						
Crop Code								PEANUT			PEANUT										
Rating Data Type								INJURY		CONTROL	CONTROL	CONTROL	INJURY		CONTROL						
Rating Unit								PERCENT		PERCENT	PERCENT	PERCENT	PERCENT		PERCENT						
Rating Date								Jul/01/09		Jul/01/09	Jul/01/09	Jul/01/09	Jul/14/09		Jul/14/09						
Trt-Eval Interval								15 DA-A		15 DA-A	15 DA-A	15 DA-A	28 DA-A		28 DA-A						
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code														
24	PROVOST	27	lb ai/a	8	oz/a	POST	A	13.3	de	0.0	d	0.0	b	0.0	d	13.3	a	0.0	c	0.0	b
	COC	1.0	% v/v	12.8	oz/a	POST	A														
LSD (P=.05)								4.94		25.58		58.19		40.96		13.49		25.94		45.79	
Standard Deviation								2.99		15.50		35.26		24.82		8.18		15.72		27.75	
CV								28.53		20.23		58.87		32.58		54.75		23.16		44.49	
Bartlett's X2								4.872		45.597		21.789		25.704		19.472		31.81		20.177	
P(Bartlett's X2)								0.962		0.001*		0.295		0.012*		0.555		0.001*		0.265	
Replicate F								1.202		0.337		1.152		1.204		0.317		2.230		1.788	
Replicate Prob(F)								0.3098		0.7159		0.3251		0.3094		0.7300		0.1190		0.1788	
Treatment F								29.745		14.874		2.253		5.677		1.697		19.261		4.669	
Treatment Prob(F)								0.0001		0.0001		0.0095		0.0001		0.0632		0.0001		0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval							DEVILS C		PIGWEEED		SLN	D CLAW		PIGWEEED	
							CONTROL	PEANUT	CONTROL	CONTROL	CONTROL	CONTROL	PEANUT	CONTROL	
							PERCENT	INJURY	PERCENT	PERCENT	PERCENT	PERCENT	INJURY	PERCENT	
							Jul/14/09	Aug/10/09	Aug/10/09	Aug/10/09	Aug/10/09	Aug/10/09	Sep/24/09	Sep/24/09	
							28 DA-A	55 DA-A	55 DA-A	55 DA-A	55 DA-A	55 DA-A	100 DA-A	100 DA-A	
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl								
No.	Name		Unit	Rate	Rate	Stg	Code								
1	UNTREATED							0.0 c	0.0 a	13.3 g	23.3 bc	33.3 bc	0.0 a	0.0 h	
2	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A	98.3 a	16.7 a	95.0 abc	71.7 ab	93.3 a	10.0 a	90.0 a-d	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
3	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	100.0 a	11.7 a	95.7 ab	40.0 abc	100.0 a	10.0 a	93.3 ab	
	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
4	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	100.0 a	5.0 a	93.3 a-d	60.0 abc	100.0 a	3.3 a	91.7 abc	
	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
5	PROVOST	27	lb ai/a	8	oz/a	POST	A	100.0 a	11.7 a	96.7 ab	70.0 ab	100.0 a	10.0 a	93.3 ab	
	COBRA	0.2	lb ai/a	12.8	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
6	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A	0.0 c	0.0 a	0.0 g	0.0 c	0.0 c	0.0 a	0.0 h	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
7	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	43.3 b	10.0 a	46.7 ef	63.3 abc	36.7 bc	11.7 a	46.7 fg	
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
8	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	66.7 ab	18.3 a	65.0 cde	66.7 abc	66.7 ab	3.3 a	61.7 def	
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
9	PROVOST	27	lb ai/a	8	oz/a	POST	A	73.3 ab	8.3 a	26.7 fg	43.3 abc	73.3 ab	10.0 a	26.7 gh	
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
10	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A	73.3 ab	11.7 a	90.7 a-d	83.3 ab	73.3 ab	15.0 a	86.7 a-e	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
11	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	93.3 a	10.0 a	93.3 a-d	93.3 ab	93.3 a	5.0 a	93.3 ab	
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
12	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	80.0 ab	11.7 a	96.7 ab	70.0 ab	76.7 ab	11.7 a	96.7 a	
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
13	PROVOST	27	lb ai/a	8	oz/a	POST	A	93.3 a	8.3 a	97.3 ab	83.3 ab	96.7 a	0.0 a	95.0 a	
	PURSUIT	0.063	lb ai/a	4.03	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
14	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A	100.0 a	18.3 a	96.7 ab	83.3 ab	100.0 a	13.3 a	91.7 abc	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
15	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	100.0 a	18.3 a	99.3 a	73.3 ab	100.0 a	13.3 a	95.0 a	
	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
16	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	100.0 a	23.3 a	96.7 ab	70.0 ab	100.0 a	15.0 a	90.0 a-d	
	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
17	PROVOST	27	lb ai/a	8	oz/a	POST	A	100.0 a	20.0 a	98.3 a	73.3 ab	100.0 a	11.7 a	97.3 a	
	CADRE	0.063	lb ai/a	4.03	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
18	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A	80.0 ab	13.3 a	68.3 a-e	76.7 ab	76.7 ab	8.3 a	58.3 ef	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
19	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	96.7 a	13.3 a	63.3 de	100.0 a	93.3 a	15.0 a	63.3 c-f	
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
20	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	93.3 a	18.3 a	70.0 a-e	96.7 a	93.3 a	18.3 a	65.0 b-f	
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
21	PROVOST	27	lb ai/a	8	oz/a	POST	A	99.3 a	10.0 a	66.7 b-e	76.0 ab	100.0 a	8.3 a	63.3 c-f	
	2,4-DB	0.4	lb ai/a	25.6	oz/a	POST	A								
	COC	1.0	% v/v	12.8	oz/a	POST	A								
22	HEADLINE	0.245	lb ai/a	15	oz/a	POST	A	0.0 c	13.3 a	0.0 g	0.0 c	0.0 c	10.0 a	0.0 h	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
23	FOLICUR	0.203	lb ai/a	7.2	oz/a	POST	A	0.0 c	19.0 a	0.0 g	0.0 c	0.0 c	10.0 a	0.0 h	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
24	PROVOST	27	lb ai/a	8	oz/a	POST	A	0.0 c	6.7 a	0.0 g	0.0 c	0.0 c	6.7 a	0.0 h	
	COC	1.0	% v/v	12.8	oz/a	POST	A								
LSD (P=.05)								36.33	16.29	26.36	58.81	43.04	18.05	25.29	
Standard Deviation								22.02	9.87	15.98	35.64	26.08	10.94	15.33	
CV								31.25	79.68	24.43	60.34	36.68	119.35	24.54	
Bartlett's X2								32.86	14.778	48.062	12.637	24.125	7.385	37.008	
P(Bartlett's X2)								0.001*	0.834	0.001*	0.813	0.012*	0.995	0.003*	

Texas Agricultural Experiment Station

Weed Code	DEVILS C		PIGWEEED		SLN	D CLAW	PIGWEEED	
Crop Code	PEANUT						PEANUT	
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL		INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		PERCENT	PERCENT
Rating Date	Jul/14/09	Aug/10/09	Aug/10/09	Aug/10/09	Aug/10/09		Sep/24/09	Sep/24/09
Trt-Eval Interval	28 DA-A	55 DA-A	55 DA-A	55 DA-A	55 DA-A		100 DA-A	100 DA-A
Trt No.	Treatment Name	Rate Rate	Product Unit	Product Rate	Grow Unit	Stg	Appl Code	
Replicate F		2.531		0.101		3.047		0.615
Replicate Prob(F)		0.0906		0.9041		0.0572		0.5449
Treatment F		9.618		1.111		16.793		2.410
Treatment Prob(F)		0.0001		0.3702		0.0001		0.0055
								1.405
								0.2557
								0.5917
								0.1173
								0.642
								17.901
								0.8740
								0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Weed Code							SLN		D CLAW		PEANUT		PEANUT	
Crop Code							CONTROL		CONTROL		LEAF SPOT		YIELD	
Rating Data Type							PERCENT		PERCENT				LB/ACRE	
Rating Unit							Sep/24/09		Sep/24/09		Sep/24/09		Oct/14/09	
Rating Date							100 DA-A		100 DA-A		100 DA-A		120 DA-A	
Trt-Eval Interval														
Trt	Treatment	Rate	Rate	Product	Product	Grow	Appl							
No.	Name	Unit	Unit	Rate	Rate	Unit	Stg	Code						
1	UNTREATED								0.0	b		0.0	c	
2	COBRA	0.2	lb ai/a	12.8	oz/a		POST	A	68.3	ab		88.3	ab	
	COC	1.0	% v/v	12.8	oz/a		POST	A				1.67	a	2601.0
3	HEADLINE	0.245	lb ai/a	15	oz/a		POST	A	36.7	ab		100.0	a	
	COBRA	0.2	lb ai/a	12.8	oz/a		POST	A				1.17	a	3057.3
	COC	1.0	% v/v	12.8	oz/a		POST	A						
4	FOLICUR	0.203	lb ai/a	7.2	oz/a		POST	A	60.0	ab		100.0	a	
	COBRA	0.2	lb ai/a	12.8	oz/a		POST	A				1.83	a	2802.0
	COC	1.0	% v/v	12.8	oz/a		POST	A						
5	PROVOST	27	lb ai/a	8	oz/a		POST	A	60.0	ab		96.7	a	
	COBRA	0.2	lb ai/a	12.8	oz/a		POST	A				1.33	a	3217.3
	COC	1.0	% v/v	12.8	oz/a		POST	A						
6	ULTRA BLAZER	0.375	lb ai/a	24	oz/a		POST	A	0.0	b		0.0	c	
	COC	1.0	% v/v	12.8	oz/a		POST	A				1.33	a	2755.7
7	HEADLINE	0.245	lb ai/a	15	oz/a		POST	A	60.0	ab		43.3	bc	
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a		POST	A				1.33	a	2905.3
	COC	1.0	% v/v	12.8	oz/a		POST	A						
8	FOLICUR	0.203	lb ai/a	7.2	oz/a		POST	A	66.7	ab		66.7	ab	
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a		POST	A				1.17	a	2554.3
	COC	1.0	% v/v	12.8	oz/a		POST	A						
9	PROVOST	27	lb ai/a	8	oz/a		POST	A	43.3	ab		76.7	ab	
	ULTRA BLAZER	0.375	lb ai/a	24	oz/a		POST	A				1.33	a	2532.0
	COC	1.0	% v/v	12.8	oz/a		POST	A						
10	PURSUIT	0.063	lb ai/a	4.03	oz/a		POST	A	83.3	a		80.0	ab	
	COC	1.0	% v/v	12.8	oz/a		POST	A				1.67	a	2838.0
11	HEADLINE	0.245	lb ai/a	15	oz/a		POST	A	93.3	a		93.3	a	
	PURSUIT	0.063	lb ai/a	4.03	oz/a		POST	A				1.17	a	2737.0
	COC	1.0	% v/v	12.8	oz/a		POST	A						
12	FOLICUR	0.203	lb ai/a	7.2	oz/a		POST	A	66.7	ab		66.7	ab	
	PURSUIT	0.063	lb ai/a	4.03	oz/a		POST	A				1.33	a	2600.3
	COC	1.0	% v/v	12.8	oz/a		POST	A						
13	PROVOST	27	lb ai/a	8	oz/a		POST	A	83.3	a		83.3	ab	
	PURSUIT	0.063	lb ai/a	4.03	oz/a		POST	A				1.33	a	2610.0
	COC	1.0	% v/v	12.8	oz/a		POST	A						
14	CADRE	0.063	lb ai/a	4.03	oz/a		POST	A	90.0	a		100.0	a	
	COC	1.0	% v/v	12.8	oz/a		POST	A				1.67	a	2322.0
15	HEADLINE	0.245	lb ai/a	15	oz/a		POST	A	73.3	a		100.0	a	
	CADRE	0.063												

Texas Agricultural Experiment Station

Weed Code									SLN	D CLAW				
Crop Code												PEANUT	PEANUT	
Rating Data Type									CONTROL	CONTROL		LEAF SPOT	YIELD	
Rating Unit									PERCENT	PERCENT			LB/ACRE	
Rating Date									Sep/24/09	Sep/24/09		Sep/24/09	Oct/14/09	
Trt-Eval Interval									100 DA-A	100 DA-A		100 DA-A	120 DA-A	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate	Unit	Grow Stg	Appl Code						
Replicate F									0.930	2.101		1.482	0.338	
Replicate Prob(F)									0.4019	0.1339		0.2379	0.7148	
Treatment F									2.469	6.968		0.857	0.608	
Treatment Prob(F)									0.0045	0.0001		0.6475	0.9000	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

HERBICIDE/FUNGICIDE TANK MIXES FOR BROADLEAF WEED CONTROL II

Trial ID: 136F-09
Location: HALFWAY PEANUT

Study Dir.: DR. PETER DOTRAY/DR. JASON WOODWARD
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/DR. JASON WOODWARD
Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: HALFWAY
State/Prov.: TX

Initiation Date: Jun/16/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH
SILVERLEAF NIGHTSHADE
DEVIL'S CLAW

Planting Date: May/06/09 **Planting Method:** 4 ROW
Rate: 65000 P/A **Variety:** OLIN (SPANISH)
Row Spacing: 40 IN **Spacing Within Row:** 5 SD/FT
Soil Temperature: 74.1 F **Soil Moisture:** ADEQUATE

SITE AND DESIGN

Plot Width, Unit: 13.33 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: OLTON

APPLICATION DESCRIPTION

A
Application Date: Jun/16/09
Time of Day: 9:45 AM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 91 F
% Relative Humidity: 25
Wind Velocity, Unit: 1.9 MPH
Soil Temp., Unit: 72.6 F
Soil Moisture: WET
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
PEANUT
Height, Unit: 3.5 IN

WEED STAGE AT EACH APPLICATION

A
PIGWEEED
Stage Scale: 1.5-11 IN
SILVERLEA
Stage Scale: 2-13 IN
DEVILCLAW
Stage Scale: 2-15 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 28 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Texas Agricultural Experiment Station

Reflex/Peanut- Crop Tolerance and Efficacy

Trial ID: 137F-09
Location: AG-CARES

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT INJURY PERCENT May/21/09
PEANUT INJURY PERCENT Jun/04/09
PEANUT INJURY PERCENT Jun/18/09
PEANUT INJURY PERCENT Jul/02/09
PEANUT INJURY PERCENT Jul/31/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	UNTREATED CHECK							0.0 d	0.0 e	0.0 g	0.0 k	0.0 i
2	REFLEX 2 SL (GFU301)	0.188	lb ai/a	12	oz/a	PRE	A	0.0 d	6.0 d	10.0 ef	7.8 hi	8.8 efg
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
3	REFLEX 2 SL (GFU301)	0.25	lb ai/a	16	oz/a	PRE	A	6.0 bc	11.3 c	13.8 de	13.8 ef	13.0 de
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
4	REFLEX 2 SL (GFU301)	0.375	lb ai/a	24	oz/a	PRE	A	9.3 b	17.5 b	21.3 c	22.5 c	18.8 bc
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
5	REFLEX 2 SL (GFU301)	0.5	lb ai/a	32	oz/a	PRE	A	15.5 a	22.5 a	35.0 a	46.3 a	32.5 a
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
6	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C	0.0 d	1.3 e	2.5 g	3.8 ijk	5.0 ghi
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
7	VALOR 51 WG	0.096	lb ai/a	3	oz/a	PRE	A	0.0 d	0.0 e	5.0 fg	2.5 jk	1.3 hi
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
8	VALOR 51 WG	0.191	lb ai/a	6	oz/a	PRE	A	18.3 a	5.8 d	18.0 cd	8.8 gh	7.5 fg
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
9	REFLEX 2 SL (GFU301)	0.188	lb ai/a	12	oz/a	AT CRACK	B	3.8 cd	1.3 e	0.0 g	10.0 fgh	7.5 fg
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B					
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B					
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B					
10	REFLEX 2 SL (GFU301)	0.25	lb ai/a	16	oz/a	AT CRACK	B	1.3 d	1.3 e	5.0 fg	13.5 efg	11.3 ef
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B					
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B					
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B					
11	REFLEX 2 SL (GFU301)	0.375	lb ai/a	24	oz/a	AT CRACK	B	0.0 d	8.0 d	13.8 de	18.8 cd	17.5 cd
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B					
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B					
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B					
12	REFLEX 2 SL (GFU301)	0.5	lb ai/a	32	oz/a	AT CRACK	B	9.3 b	11.3 c	26.3 b	30.0 b	22.5 b
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B					
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B					
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B					
13	REFLEX 2 SL (GFU301)	0.188	lb ai/a	12	oz/a	21 DAP	C	0.0 d	1.3 e	18.8 cd	10.5 e-h	10.0 efg
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
14	REFLEX 2 SL (GFU301)	0.25	lb ai/a	16	oz/a	21 DAP	C	0.0 d	1.3 e	0.0 g	6.3 hij	5.8 gh
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT INJURY PERCENT
PEANUT INJURY PERCENT
PEANUT INJURY PERCENT
PEANUT INJURY PERCENT
PEANUT INJURY PERCENT
May/21/09 Jun/04/09 Jun/18/09 Jul/02/09 Jul/31/09

Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code					
15	REFLEX 2 SL (GFU301)	0.375	lb ai/a	24	oz/a	21 DAP	C	0.0 d	5.0 d	12.5 e	14.3 def	12.8 def
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
16	REFLEX 2 SL (GFU301)	0.5	lb ai/a	32	oz/a	21 DAP	C	0.0 d	6.8 d	11.8 e	15.0 de	12.5 def
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C					
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C					
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C					
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C					
17	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B	0.0 d	0.0 e	11.3 e	0.0 k	0.0 i
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B					
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B					
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B					
LSD (P=.05)								3.22	3.02	4.87	4.41	4.67
Standard Deviation								2.25	2.11	3.40	3.08	3.27
CV								60.47	35.84	28.27	23.45	29.77
Bartlett's X2								7.458	3.3	7.472	22.996	15.136
P(Bartlett's X2)								0.281	0.993	0.68	0.042*	0.299
Replicate F								0.778	3.911	1.172	2.865	3.200
Replicate Prob(F)								0.5122	0.0141	0.3304	0.0463	0.0315
Treatment F								27.697	38.397	33.001	56.914	26.652
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT
INJURY
PERCENT
Sep/25/09

PEANUT
YIELD
LB/ACRE
Nov/02/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	UNTREATED CHECK							0.0 g	3597.3 a
2	REFLEX 2 SL (GFU301)	0.188	lb ai/a	12	oz/a	PRE	A	0.0 g	3293.5 abc
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
3	REFLEX 2 SL (GFU301)	0.25	lb ai/a	16	oz/a	PRE	A	6.3 efg	3080.5 b-e
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
4	REFLEX 2 SL (GFU301)	0.375	lb ai/a	24	oz/a	PRE	A	26.3 bc	2849.8 de
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
5	REFLEX 2 SL (GFU301)	0.5	lb ai/a	32	oz/a	PRE	A	43.8 a	2394.0 f
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
6	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C	0.0 g	3642.0 a
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
7	VALOR 51 WG	0.096	lb ai/a	3	oz/a	PRE	A	14.5 def	3570.8 a
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
8	VALOR 51 WG	0.191	lb ai/a	6	oz/a	PRE	A	2.5 fg	3597.5 a
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
9	REFLEX 2 SL (GFU301)	0.188	lb ai/a	12	oz/a	AT CRACK	B	4.5 efg	3251.5 a-d
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B		
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B		
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B		
10	REFLEX 2 SL (GFU301)	0.25	lb ai/a	16	oz/a	AT CRACK	B	5.0 efg	3446.0 ab
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B		
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B		
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B		
11	REFLEX 2 SL (GFU301)	0.375	lb ai/a	24	oz/a	AT CRACK	B	20.0 cd	3013.3 cde
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B		
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B		
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B		
12	REFLEX 2 SL (GFU301)	0.5	lb ai/a	32	oz/a	AT CRACK	B	36.3 ab	2718.5 ef
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT CRACK	B		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT CRACK	B		
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT CRACK	B		
	NIS	0.125	% v/v	1.6	oz/a	AT CRACK	B		
13	REFLEX 2 SL (GFU301)	0.188	lb ai/a	12	oz/a	21 DAP	C	0.0 g	3272.5 abc
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
14	REFLEX 2 SL (GFU301)	0.25	lb ai/a	16	oz/a	21 DAP	C	2.5 fg	3494.0 ab
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		
15	REFLEX 2 SL (GFU301)	0.375	lb ai/a	24	oz/a	21 DAP	C	9.3 d-g	3295.5 abc
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21 DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21 DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21 DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21 DAP	C		

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

PEANUT
INJURY
PERCENT
Sep/25/09

PEANUT
YIELD
LB/ACRE
Nov/02/09

Trt	Treatment	Rate	Rate Unit	Product	Product Rate	Product Unit	Grow Stg	Appl Code		
16	REFLEX 2 SL (GFU301)	0.5	lb ai/a	32	oz/a	21	DAP	C	15.0	cde 3231.5 a-d
	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	21	DAP	C		
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	21	DAP	C		
	2,4-DB	0.2188	lb ai/a	14	oz/a	21	DAP	C		
	NIS	0.125	% v/v	1.6	oz/a	21	DAP	C		
17	GRAMOXONE INTEON 2 SL	0.188	lb ai/a	12	oz/a	AT	CRACK	B	0.0	g 3642.5 a
	BASAGRAN 4 SL	0.5	lb ai/a	16	oz/a	AT	CRACK	B		
	2,4-DB	0.2188	lb ai/a	14	oz/a	AT	CRACK	B		
	NIS	0.125	% v/v	1.6	oz/a	AT	CRACK	B		
LSD (P=.05)									10.76	366.44
Standard Deviation									7.53	256.42
CV									68.88	7.87
Bartlett's X2									51.854	14.5
P(Bartlett's X2)									0.001*	0.561
Replicate F									1.992	2.551
Replicate Prob(F)									0.1277	0.0666
Treatment F									12.821	7.657
Treatment Prob(F)									0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Reflex/Peanut- Crop Tolerance and Efficacy

Trial ID: 137F-09
Location: AG-CARES

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TEXAS

Initiation Date: Apr/30/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Runner PEANUT Variety: OLO2
Planting Date: Apr/30/09 Planting Method: 8 ROW
Rate: 67000 P/A
Row Spacing: 40 IN Spacing Within Row: 5.1 FT
Soil Temperature: 82.1 F Soil Moisture: NORMAL Emergence Date: May/11/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. May/01/09	0.7	IN	SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Apr/30/09	May/11/09	May/21/09
Time of Day:	6:00 PM	2:00 PM	1:25 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	AT CRACK	21 DAP
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	91.8 F	62 F	78.6 F
% Relative Humidity:	10	89	38
Wind Velocity, Unit:	7 MPH	7 MPH	8 MPH
Soil Temp., Unit:	82.1 F	65 F	69.8 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	100	80

CROP STAGE AT EACH APPLICATION

	A	B	C
Stage Scale:	PEANUT PRE	PEANUT AT CRACK	PEANUT 4 LEAF
Height, Unit:	N/A	N/A	2 IN

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	30 PSI	28 PSI
Nozzle Type:	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Incorporation Equip.:	PIVOT		
Incorp. Depth, Unit:	0.7 IN		
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	CO2	CO2	CO2

Treatment Application Comment

5/1/09 - APPLIED 0.7" IRRIGATION TO ACTIVATE PRE'S

VALOR LARGE PLOT WEED CONTROL - IV (VIRGINIA)

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	PEANUT STAND PLANT/2M	PEANUT HEIGHT CM	PEANUT WIDTH CM	PEANUT INJURY PERCENT	PEANUT INJURY PERCENT	PEANUT INJURY PERCENT	PEANUT INJURY PERCENT
Trt	Treatment	Rate	Product	Product	Grow	Appl					
No.	Name	Rate	Unit	Rate	Unit	Stg	Code				
1	UNTREATED CHECK										
2	VALOR SX	0.064	lb ai/a	2 oz/a		PRE	A	25.30 a	4.43 a	12.10 a	0.0 a
3	VALOR SX	0.096	lb ai/a	3 oz/a		PRE	A	23.33 a	4.40 a	11.30 a	0.0 a
								25.20 a	4.30 a	12.00 a	0.0 a
LSD (P=.05)								3.026	0.783	2.527	0.00
Standard Deviation								1.335	0.346	1.115	0.00
CV								5.43	7.89	9.45	0.0
Bartlett's X2								3.627	1.849	0.055	0.0
P(Bartlett's X2)								0.163	0.174	0.973	.
Replicate F								1.732	0.456	0.196	0.000
Replicate Prob(F)								0.2872	0.6631	0.8297	1.0000
Treatment F								2.065	0.121	0.458	0.000
Treatment Prob(F)								0.2421	0.8891	0.6618	1.0000

Means followed by same letter do not significantly differ ($P=.05$, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Crop Code	PEANUT	PEANUT
Rating Data Type	INJURY	YIELD
Rating Unit	PERCENT	LB/ACRE
Rating Date	Sep/25/09	Oct/24/09
Trt-Eval Interval	148 DA-A	177 DA-A

Trt	Treatment	Rate	Product	Product	Grow	Appl		
No.	Name	Rate	Unit	Rate	Unit	Stg	Code	
1	UNTREATED CHECK							0.0 a 3385.3 a
2	VALOR SX	0.064	lb ai/a	2	oz/a	PRE	A	0.0 a 3338.0 a
3	VALOR SX	0.096	lb ai/a	3	oz/a	PRE	A	0.0 a 3578.3 a
LSD (P=.05)								0.00 352.02
Standard Deviation								0.00 155.31
CV								0.0 4.52
Bartlett's X2								0.0 0.127
P(Bartlett's X2)								. 0.939
Replicate F								0.000 1.705
Replicate Prob(F)								1.0000 0.2915
Treatment F								0.000 2.016
Treatment Prob(F)								1.0000 0.2480

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VALOR LARGE PLOT WEED CONTROL - IV (VIRGINIA)

Trial ID: 138F-09
Location: AGCARES-LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TEXAS

Initiation Date: Apr/30/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

VIRGINIA PEANUT

Variety: GREGORY

Planting Date: Apr/30/09

Planting Method: 8 ROW

Rate: 69000 P/A

Row Spacing: 40 IN Spacing Within Row: 5 FT

Soil Temperature: 82.1 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 13.33 FT

Plot Length, Unit: 200 FT

Reps: 3

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM

Soil Name: AMARILLO

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. May/01/09	0.7	IN	SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

A

Application Date: Apr/30/09
Time of Day: 5:00 PM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 91.8 F
% Relative Humidity: 10
Wind Velocity, Unit: 7 MPH
Soil Temp., Unit: 82.1 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

CROP STAGE AT EACH APPLICATION

A

PEANUT

Stage Scale: PRE

N/A

APPLICATION EQUIPMENT

A

Appl. Equipment: TRACTOR
Operating Pressure: 30 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 20 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Treatment Application Comment

5/1/09 - APPLIED 0.7" IRRIGATION TO ACTIVATE PRE'S

Texas Agricultural Experiment Station

PEANUT VARIETAL TOLERANCE TO HERBICIDES APPLIED PRE AND POST

Trial ID: 139F-09
Location: AG-CARES LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Crop Code	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type	INJURY	INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/21/09	Jun/04/09	Jun/18/09	Jul/02/09	Jul/31/09	Sep/25/09
Trt-Eval Interval	21 DA-A	35 DA-A				

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code
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TABLE OF R MEANS

Replicate 1	2.1	1.3	4.1	4.8	4.6	0.5
Replicate 2	3.6	2.1	5.9	6.4	6.1	1.6
Replicate 3	2.9	1.3	5.4	5.6	5.6	2.4

TABLE OF A MEANS

1 FLAVORRUNNER 458	2.6	1.9	5.0	4.4	4.0	1.0
2 OL01	2.4	0.8	4.4	4.9	4.5	1.6
3 OL02	2.6	1.4	6.0	6.5	7.0	2.4
4 OL07	3.8	2.1	5.2	6.6	6.3	1.2

TABLE OF B MEANS

1 UNTREATED				0.0	0.0	0.0	0.0	0.0	0.0
2 VALOR SX	0.048 lb ai/a	1.5 oz/a	PRE A	0.4	0.0	0.0	1.3	2.1	0.0
3 VALOR SX	0.096 lb ai/a	3 oz/a	PRE A	3.8	2.9	3.3	3.7	4.3	0.0
4 VALOR SX	0.191 lb ai/a	6 oz/a	PRE A	15.8	8.1	9.2	7.3	6.7	0.0
5 CADRE	0.0315 lb ai/a	2.02 oz/a	POST B	0.0	0.0	3.1	3.9	4.4	1.1
5 COC	1 % v/v	12.8 oz/a	POST B						
6 CADRE	0.063 lb ai/a	4.03 oz/a	POST B	0.0	0.0	5.8	7.3	7.5	2.5
6 COC	1 % v/v	12.8 oz/a	POST B						
7 CADRE	0.126 lb ai/a	8.1 oz/a	POST B	0.0	0.0	14.6	15.8	13.3	7.1
7 COC	1 % v/v	12.8 oz/a	POST B						

TABLE OF AB MEANS

1 FLAVORRUNNER 458				0.0	0.0	0.0	0.0	0.0	0.0
1 UNTREATED									
2 OL01				0.0	0.0	0.0	0.0	0.0	0.0
1 UNTREATED									
3 OL02				0.0	0.0	0.0	0.0	0.0	0.0
1 UNTREATED									
4 OL07				0.0	0.0	0.0	0.0	0.0	0.0
1 UNTREATED									
1 FLAVORRUNNER 458				0.0	0.0	0.0	0.0	0.0	0.0
2 VALOR SX	0.048 lb ai/a	1.5 oz/a	PRE A						
2 OL01				0.0	0.0	0.0	0.0	0.0	0.0
2 VALOR SX	0.048 lb ai/a	1.5 oz/a	PRE A						
3 OL02				0.0	0.0	0.0	5.0	8.3	0.0
2 VALOR SX	0.048 lb ai/a	1.5 oz/a	PRE A						
4 OL07				1.7	0.0	0.0	0.0	0.0	0.0
2 VALOR SX	0.048 lb ai/a	1.5 oz/a	PRE A						
1 FLAVORRUNNER 458				0.0	3.3	3.3	1.7	2.7	0.0
3 VALOR SX	0.096 lb ai/a	3 oz/a	PRE A						
2 OL01				3.3	1.7	1.7	1.7	1.7	0.0
3 VALOR SX	0.096 lb ai/a	3 oz/a	PRE A						
3 OL02				5.0	3.3	5.0	5.0	5.0	0.0
3 VALOR SX	0.096 lb ai/a	3 oz/a	PRE A						
4 OL07				6.7	3.3	3.3	6.3	7.7	0.0
3 VALOR SX	0.096 lb ai/a	3 oz/a	PRE A						
1 FLAVORRUNNER 458				18.3	10.0	13.3	6.7	8.3	0.0
4 VALOR SX	0.191 lb ai/a	6 oz/a	PRE A						
2 OL01				13.3	4.0	3.3	5.7	3.3	0.0
4 VALOR SX	0.191 lb ai/a	6 oz/a	PRE A						
3 OL02				13.3	6.7	6.7	5.0	5.0	0.0
4 VALOR SX	0.191 lb ai/a	6 oz/a	PRE A						
4 OL07				18.3	11.7	13.3	11.7	10.0	0.0
4 VALOR SX	0.191 lb ai/a	6 oz/a	PRE A						
1 FLAVORRUNNER 458				0.0	0.0	3.3	0.0	0.0	0.0
5 CADRE	0.0315 lb ai/a	2.02 oz/a	POST B						
5 COC	1 % v/v	12.8 oz/a	POST B						
2 OL01				0.0	0.0	4.0	3.3	5.0	1.0
5 CADRE	0.0315 lb ai/a	2.02 oz/a	POST B						
5 COC	1 % v/v	12.8 oz/a	POST B						

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

PEANUT INJURY PERCENT May/21/09
21 DA-A
PEANUT INJURY PERCENT Jun/04/09
35 DA-A
PEANUT INJURY PERCENT Jun/18/09
PEANUT INJURY PERCENT Jul/02/09
PEANUT INJURY PERCENT Jul/31/09
PEANUT INJURY PERCENT Sep/25/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code						
3	OL02							0.0	0.0	0.0	5.0	7.7	3.3
5	CADRE	0.0315	lb ai/a	2.02	oz/a	POST	B						
5	COC	1	% v/v	12.8	oz/a	POST	B						
4	OL07							0.0	0.0	5.0	7.3	5.0	0.0
5	CADRE	0.0315	lb ai/a	2.02	oz/a	POST	B						
5	COC	1	% v/v	12.8	oz/a	POST	B						
1	FLAVORRUNNER 458							0.0	0.0	0.0	6.0	3.3	0.0
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B						
6	COC	1	% v/v	12.8	oz/a	POST	B						
2	OL01							0.0	0.0	8.3	10.0	10.0	5.0
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B						
6	COC	1	% v/v	12.8	oz/a	POST	B						
3	OL02							0.0	0.0	10.0	7.3	10.0	5.0
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B						
6	COC	1	% v/v	12.8	oz/a	POST	B						
4	OL07							0.0	0.0	5.0	5.7	6.7	0.0
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B						
6	COC	1	% v/v	12.8	oz/a	POST	B						
1	FLAVORRUNNER 458							0.0	0.0	15.0	16.7	13.3	6.7
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B						
7	COC	1	% v/v	12.8	oz/a	POST	B						
2	OL01							0.0	0.0	13.3	13.3	11.7	5.0
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B						
7	COC	1	% v/v	12.8	oz/a	POST	B						
3	OL02							0.0	0.0	20.0	18.3	13.3	8.3
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B						
7	COC	1	% v/v	12.8	oz/a	POST	B						
4	OL07							0.0	0.0	10.0	15.0	15.0	8.3
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B						
7	COC	1	% v/v	12.8	oz/a	POST	B						

Texas Agricultural Experiment Station

PEANUT VARIETAL TOLERANCE TO HERBICIDES APPLIED PRE AND POST

Trial ID: 139F-09
Location: AG-CARES LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT May/21/09 21 DA-A

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	2964.285714				
R	2	28.571429	14.285714	3.874	0.0299	1.0
A	3	26.190476	8.730159	1.375	0.3376	1.9
RA	6	38.095238	6.349206	1.722	0.1440	2.1
B	6	2493.452381	415.575397	42.528	0.0001	2.8
RB	12	117.261905	9.771825	2.650	0.0118	2.7
AB	18	127.976190	7.109788	1.928	0.0461	3.2
RAB	36	132.738095	3.687169			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT May/21/09 21 DA-A

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	2964.285714				
R	2	28.571429	14.285714	2.678	0.0778	1.2
A	3	26.190476	8.730159	1.636	0.1917	1.4
B	6	2493.452381	415.575397	77.895	0.0001	1.9
AB	18	127.976190	7.109788	1.333	0.2056	3.8
ERROR	54	288.095238	5.335097			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jun/04/09 35 DA-A

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	946.571429				
R	2	13.785714	6.892857	4.854	0.0136	0.6
A	3	21.809524	7.269841	5.779	0.0334	0.8
RA	6	7.547619	1.257937	0.886	0.5153	1.3
B	6	678.738095	113.123016	16.248	0.0001	2.3
RB	12	83.547619	6.962302	4.903	0.0001	1.7
AB	18	90.023810	5.001323	3.522	0.0006	2.0
RAB	36	51.119048	1.419974			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jun/04/09 35 DA-A

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	946.571429				
R	2	13.785714	6.892857	2.617	0.0822	0.9
A	3	21.809524	7.269841	2.760	0.0509	1.0
B	6	678.738095	113.123016	42.954	0.0001	1.3
AB	18	90.023810	5.001323	1.899	0.0361	2.7
ERROR	54	142.214286	2.633598			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jun/18/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	3072.285714				
R	2	48.071429	24.035714	4.017	0.0266	1.3
A	3	26.571429	8.857143	1.064	0.4314	2.2
RA	6	49.928571	8.321429	1.391	0.2450	2.6
B	6	1994.452381	332.408730	26.724	0.0001	3.1
RB	12	149.261905	12.438492	2.079	0.0449	3.5
AB	18	588.595238	32.699735	5.465	0.0001	4.0
RAB	36	215.404762	5.983466			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jun/18/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	3072.285714				
R	2	48.071429	24.035714	3.131	0.0517	1.5
A	3	26.571429	8.857143	1.154	0.3360	1.7
B	6	1994.452381	332.408730	43.295	0.0001	2.3
AB	18	588.595238	32.699735	4.259	0.0001	4.5
ERROR	54	414.595238	7.677690			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jul/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	2728.238095				
R	2	34.595238	17.297619	2.733	0.0785	1.4
A	3	78.142857	26.047619	3.569	0.0865	2.0
RA	6	43.785714	7.297619	1.153	0.3527	2.7
B	6	2004.238095	334.039683	60.364	0.0001	2.1
RB	12	66.404762	5.533730	0.874	0.5791	3.6
AB	18	273.190476	15.177249	2.398	0.0125	4.2
RAB	36	227.880952	6.330026			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jul/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	2728.238095				
R	2	34.595238	17.297619	2.763	0.0720	1.3
A	3	78.142857	26.047619	4.161	0.0101	1.5
B	6	2004.238095	334.039683	53.356	0.0001	2.0
AB	18	273.190476	15.177249	2.424	0.0063	4.1
ERROR	54	338.071429	6.260582			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Jul/31/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	2458.892857				
R	2	31.357143	15.678571	1.151	0.3277	2.0
A	3	135.083333	45.027778	5.642	0.0351	2.1
RA	6	47.880952	7.980159	0.586	0.7393	4.0
B	6	1336.476190	222.746032	55.330	0.0001	1.8
RB	12	48.309524	4.025794	0.295	0.9862	5.3
AB	18	369.333333	20.518519	1.506	0.1449	6.1
RAB	36	490.452381	13.623677			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Jul/31/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	2458.892857				
R	2	31.357143	15.678571	1.443	0.2451	1.8
A	3	135.083333	45.027778	4.145	0.0102	2.0
B	6	1336.476190	222.746032	20.504	0.0001	2.7
AB	18	369.333333	20.518519	1.889	0.0373	5.4
ERROR	54	586.642857	10.863757			

COMPLETE FACTORIAL AOV For PEANUT INJURY PERCENT Sep/25/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	938.952381				
R	2	50.452381	25.226190	8.052	0.0013	1.0
A	3	24.666667	8.222222	1.038	0.4409	2.1
RA	6	47.547619	7.924603	2.529	0.0380	1.9
B	6	496.119048	82.686508	8.869	0.0008	2.7
RB	12	111.880952	9.323413	2.976	0.0056	2.5
AB	18	95.500000	5.305556	1.693	0.0878	2.9
RAB	36	112.785714	3.132937			

FACTORIAL/POOLED ERROR AOV For PEANUT INJURY PERCENT Sep/25/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	938.952381				
R	2	50.452381	25.226190	5.004	0.0101	1.2
A	3	24.666667	8.222222	1.631	0.1929	1.4
B	6	496.119048	82.686508	16.403	0.0001	1.8
AB	18	95.500000	5.305556	1.052	0.4220	3.7
ERROR	54	272.214286	5.041005			

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

PEANUT
YIELD
LB/ACRE
Nov/02/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code
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TABLE OF R MEANS

Replicate 1	3335.3
Replicate 2	2849.5
Replicate 3	2933.5

TABLE OF A MEANS

1 FLAVORRUNNER 458	3296.8
2 OL01	3060.0
3 OL02	3025.7
4 OL07	2775.0

TABLE OF B MEANS

1 UNTREATED						3264.5
2 VALOR SX	0.048	lb ai/a	1.5	oz/a	PRE A	2943.8
3 VALOR SX	0.096	lb ai/a	3	oz/a	PRE A	3208.6
4 VALOR SX	0.191	lb ai/a	6	oz/a	PRE A	3264.8
5 CADRE	0.0315	lb ai/a	2.02	oz/a	POST B	2911.3
5 COC	1	% v/v	12.8	oz/a	POST B	
6 CADRE	0.063	lb ai/a	4.03	oz/a	POST B	2900.3
6 COC	1	% v/v	12.8	oz/a	POST B	
7 CADRE	0.126	lb ai/a	8.1	oz/a	POST B	2782.6
7 COC	1	% v/v	12.8	oz/a	POST B	

TABLE OF AB MEANS

1 FLAVORRUNNER 458						3457.7
1 UNTREATED						
2 OL01						3429.0
1 UNTREATED						
3 OL02						3263.7
1 UNTREATED						
4 OL07						2907.7
1 UNTREATED						
1 FLAVORRUNNER 458						3103.3
2 VALOR SX	0.048	lb ai/a	1.5	oz/a	PRE A	
2 OL01						2941.7
2 VALOR SX	0.048	lb ai/a	1.5	oz/a	PRE A	
3 OL02						2862.3
2 VALOR SX	0.048	lb ai/a	1.5	oz/a	PRE A	
4 OL07						2867.7
2 VALOR SX	0.048	lb ai/a	1.5	oz/a	PRE A	
1 FLAVORRUNNER 458						3361.3
3 VALOR SX	0.096	lb ai/a	3	oz/a	PRE A	
2 OL01						3389.3
3 VALOR SX	0.096	lb ai/a	3	oz/a	PRE A	
3 OL02						3187.0
3 VALOR SX	0.096	lb ai/a	3	oz/a	PRE A	
4 OL07						2896.7
3 VALOR SX	0.096	lb ai/a	3	oz/a	PRE A	
1 FLAVORRUNNER 458						3518.7
4 VALOR SX	0.191	lb ai/a	6	oz/a	PRE A	
2 OL01						3318.3
4 VALOR SX	0.191	lb ai/a	6	oz/a	PRE A	
3 OL02						3660.3
4 VALOR SX	0.191	lb ai/a	6	oz/a	PRE A	
4 OL07						2562.0
4 VALOR SX	0.191	lb ai/a	6	oz/a	PRE A	
1 FLAVORRUNNER 458						3305.0
5 CADRE	0.0315	lb ai/a	2.02	oz/a	POST B	
5 COC	1	% v/v	12.8	oz/a	POST B	
2 OL01						2879.3
5 CADRE	0.0315	lb ai/a	2.02	oz/a	POST B	
5 COC	1	% v/v	12.8	oz/a	POST B	
3 OL02						2769.0
5 CADRE	0.0315	lb ai/a	2.02	oz/a	POST B	
5 COC	1	% v/v	12.8	oz/a	POST B	
4 OL07						2692.0
5 CADRE	0.0315	lb ai/a	2.02	oz/a	POST B	
5 COC	1	% v/v	12.8	oz/a	POST B	

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval

PEANUT
YIELD
LB/ACRE
Nov/02/09

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code	
1	FLAVORRUNNER 458							3277.0
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B	
6	COC	1	% v/v	12.8	oz/a	POST	B	
2	OL01							2806.7
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B	
6	COC	1	% v/v	12.8	oz/a	POST	B	
3	OL02							2656.7
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B	
6	COC	1	% v/v	12.8	oz/a	POST	B	
4	OL07							2860.7
6	CADRE	0.063	lb ai/a	4.03	oz/a	POST	B	
6	COC	1	% v/v	12.8	oz/a	POST	B	
1	FLAVORRUNNER 458							3054.7
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B	
7	COC	1	% v/v	12.8	oz/a	POST	B	
2	OL01							2656.0
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B	
7	COC	1	% v/v	12.8	oz/a	POST	B	
3	OL02							2781.0
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B	
7	COC	1	% v/v	12.8	oz/a	POST	B	
4	OL07							2638.7
7	CADRE	0.126	lb ai/a	8.1	oz/a	POST	B	
7	COC	1	% v/v	12.8	oz/a	POST	B	

Texas Agricultural Experiment Station

PEANUT VARIETAL TOLERANCE TO HERBICIDES APPLIED PRE AND POST

Trial ID: 139F-09
Location: AG-CARES LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For PEANUT YIELD LB/ACRE Nov/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	19726272.238095				
R	2	3775696.595238	1887848.297619	22.618	0.0001	156.0
A	3	2871864.809524	957288.269841	1.662	0.2728	573.1
RA	6	3456065.976190	576010.996032	6.901	0.0001	312.1
B	6	2891768.571429	481961.428571	3.495	0.0309	330.3
RB	12	1654621.071429	137885.089286	1.652	0.1205	412.9
AB	18	2071448.190476	115080.455026	1.379	0.2012	476.7
RAB	36	3004807.023810	83466.861772			

FACTORIAL/POOLED ERROR AOV For PEANUT YIELD LB/ACRE Nov/02/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	83	19726272.238095				
R	2	3775696.595238	1887848.297619	12.562	0.0001	207.2
A	3	2871864.809524	957288.269841	6.370	0.0009	239.3
B	6	2891768.571429	481961.428571	3.207	0.0091	316.5
AB	18	2071448.190476	115080.455026	0.766	0.7284	633.1
ERROR	54	8115494.071429	150286.927249			

Texas Agricultural Experiment Station

PEANUT VARIETAL TOLERANCE TO HERBICIDES APPLIED PRE AND POST

Trial ID: 139F-09
Location: AG-CARES LAMESA

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LAMESA
State/Prov.: TEXAS

Initiation Date: Apr/30/09

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

PEANUT Variety: FLVRUN458 OLO1 OLO2 OLO7
Planting Date: Apr/30/09 Planting Method: CONE PLANTER
Rate: 78000 P/A
Row Spacing: 40 IN Spacing Within Row: 6 SD/FT
Soil Temperature: 82.1 F Soil Moisture: NORMAL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 40 FT Reps: 3
Study Design: FACTORIAL

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. May/01/09	0.7	IN	SPRINKLER - CENTER PIVOT

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr/30/09	Jun/04/09
Time of Day:	5:00 PM	12:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	91.8 F	73 F
% Relative Humidity:	10	42
Wind Velocity, Unit:	7 MPH	2 MPH
Soil Temp., Unit:	82.1 F	
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10

CROP STAGE AT EACH APPLICATION

	A	B
Stage Scale:	PEANUT	PEANUT
	PRE	POST
	N/A	N/A

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	30 PSI	28 PSI
Nozzle Type:	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	20 IN	19 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	CO2

Treatment Application Comment

5/1/09 - APPLIED 0.7" IRRIGATION TO ACTIVATE PRE'S

Texas Agricultural Experiment Station

YUKON - SORGHUM TOLERANCE POST

Trial ID: 144F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Crop Code	SORGHUM	SORGHUM	SORGHUM	SORGHUM	SORGHUM	SORGHUM
Rating Data Type	INJURY	INJURY	INJURY	INJURY	HEAD BLAST	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	LBS/ACRE
Rating Date	Jun/20/09	Jul/01/09	Jul/13/09	Jul/29/09	Sep/01/09	Sep/24/09

Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Description						
1	YUKON	4 oz/a	A		4" SORG	5.0 c	5.0 bc	0.0 a	0.0 a	0.0 d	5846.0 a
	COC	1 % v/v	A		4" SORG						
2	YUKON	6 oz/a	A		4" SORG	13.3 b	6.7 b	0.0 a	0.0 a	0.0 d	6367.7 a
	COC	1 % v/v	A		4" SORG						
3	YUKON	8 oz/a	A		4" SORG	23.3 a	13.3 a	0.0 a	5.0 a	0.0 d	5819.0 a
	COC	1 % v/v	A		4" SORG						
4	UNTREATED		A		4" SORG	0.0 c	0.0 c	0.0 a	1.7 a	0.0 d	5766.0 a
5	YUKON	4 oz/a	B		12" SORG	0.0 c	5.0 bc	0.0 a	0.0 a	0.0 d	6314.3 a
	COC	1 % v/v	B		12" SORG						
6	YUKON	6 oz/a	B		12" SORG	0.0 c	3.3 bc	0.0 a	0.0 a	0.0 d	6474.7 a
	COC	1 % v/v	B		12" SORG						
7	YUKON	8 oz/a	B		12" SORG	0.0 c	6.7 b	0.0 a	0.0 a	0.0 d	6140.3 a
	COC	1 % v/v	B		12" SORG						
8	UNTREATED		B		12" SORG	0.0 c	0.0 c	0.0 a	0.0 a	0.0 d	5565.0 a
9	YUKON	4 oz/a	C		20" SORG	0.0 c	0.0 c	0.0 a	0.0 a	23.3 c	5525.0 a
	COC	1 % v/v	C		20" SORG						
10	YUKON	6 oz/a	C		20" SORG	0.0 c	0.0 c	0.0 a	0.0 a	30.0 b	5551.7 a
	COC	1 % v/v	C		20" SORG						
11	YUKON	8 oz/a	C		20" SORG	0.0 c	0.0 c	0.0 a	1.7 a	43.3 a	5231.0 a
	COC	1 % v/v	C		20" SORG						
12	UNTREATED		C		20" SORG	0.0 c	0.0 c	0.0 a	1.7 a	0.0 d	6100.3 a
LSD (P=.05)						5.30	4.83	0.00	3.04	4.28	1480.16
Standard Deviation						3.13	2.85	0.00	1.79	2.53	874.07
CV						90.09	85.61	0.0	215.32	31.35	14.84
Bartlett's X2						0.412	1.693	0.0	0.995	0.051	6.98
P(Bartlett's X2)						0.814	0.89	.	0.803	0.975	0.801
Replicate F						3.477	5.372	0.000	4.529	3.376	0.706
Replicate Prob(F)						0.0487	0.0126	1.0000	0.0225	0.0526	0.5043
Treatment F						16.794	6.512	0.000	2.118	108.792	0.595
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0646	0.0001	0.8128

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

YUKON - SORGHUM TOLERANCE POST

Trial ID: 144F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

SORGHUM
Planting Date: Jun/01/09

Variety: DK 44-20

SITE AND DESIGN

Plot Width, Unit: 26.67 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
PROPAZINE PRE - 1 QT/A

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Jun/16/09	Jun/24/09	Jul/01/09
Time of Day:	11:15 AM	10:30 AM	10:28 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	POST	POST	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	86 F	80 F	80 F
% Relative Humidity:	45	51	58
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH
Soil Temp., Unit:	77 F	80 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C
	SORGHUM	SORGHUM	SORGHUM
Stage Scale:	4"	12"	22"

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	TRACTOR	BACKPACK	BACKPACK
Operating Pressure:	30	23	30
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	AIR

Texas Agricultural Experiment Station

YUKON - SORGHUM - APPLICATION TIMING

Trial ID: 145F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code				SORGHUM			PIGWEEED			PIGWEEED		
Crop Code				SORGHUM			SORGHUM			SORGHUM		
Rating Data Type				INJURY			INJURY			INJURY		
Rating Unit				PERCENT			PERCENT			PERCENT		
Rating Date				Jun/24/09			Jul/01/09			Jul/13/09		
Trt Treatment				Rate			Rate			Rate		
No. Name				Unit			Unit			Unit		
				Appl Code			Appl Description					
1	YUKON	4 oz/a	A	14 DBP	0.0 d	0.0 c	0.0 b	0.0 f	88.3 b	0.0 a	2305.7 a	
	COC	1 % v/v	A	14 DBP								
2	YUKON	6 oz/a	A	14 DBP	0.0 d	0.0 c	100.0 a	0.0 f	96.0 ab	0.0 a	2743.7 a	
	COC	1 % v/v	A	14 DBP								
3	YUKON	4 oz/a	A	14 DBP	0.0 d	0.0 c	100.0 a	0.0 f	93.3 ab	0.0 a	2357.0 a	
	TNT	0.5 oz/a	A	14 DBP								
	COC	1 % v/v	A	14 DBP								
4	YUKON	6 oz/a	A	14 DBP	0.0 d	1.7 c	100.0 a	5.0 d	95.7 ab	0.0 a	1624.3 a	
	TNT	0.5 oz/a	A	14 DBP								
	COC	1 % v/v	A	14 DBP								
5	TNT	0.5 oz/a	A	14 DBP	0.0 d	0.0 c	100.0 a	1.7 ef	92.3 ab	0.0 a	1443.3 a	
	COC	1 % v/v	A	14 DBP								
6	UNTREATED		A	14 DBP	0.0 d	0.0 c	100.0 a	0.0 f	0.0 c	0.0 a	2435.7 a	
7	YUKON	4 oz/a	B	7 DBP	0.0 d	0.0 c	100.0 a	0.0 f	91.7 ab	0.0 a	1502.0 a	
	COC	1 % v/v	B	7 DBP								
8	YUKON	6 oz/a	B	7 DBP	3.3 c	1.7 c	100.0 a	3.3 de	98.3 a	0.0 a	1589.3 a	
	COC	1 % v/v	B	7 DBP								
9	YUKON	4 oz/a	B	7 DBP	0.0 d	0.0 c	100.0 a	0.0 f	99.0 a	0.0 a	1806.0 a	
	TNT	0.5 oz/a	B	7 DBP								
	COC	1 % v/v	B	7 DBP								
10	YUKON	6 oz/a	B	7 DBP	0.0 d	0.0 c	100.0 a	1.7 ef	100.0 a	0.0 a	1651.0 a	
	TNT	0.5 oz/a	B	7 DBP								
	COC	1 % v/v	B	7 DBP								
11	TNT	0.5 oz/a	B	7 DBP	0.0 d	0.0 c	100.0 a	0.0 f	100.0 a	0.0 a	1288.3 a	
	COC	1 % v/v	B	7 DBP								
12	UNTREATED		B	7 DBP	0.0 d	0.0 c	100.0 a	0.0 f	0.0 c	0.0 a	2046.7 a	
13	YUKON	4 oz/a	C	AT PLANT	8.3 b	5.0 b	100.0 a	5.0 d	91.7 ab	0.0 a	1337.7 a	
	COC	1 % v/v	C	AT PLANT								
14	YUKON	6 oz/a	C	AT PLANT	21.7 a	13.3 a	100.0 a	18.3 a	95.0 ab	0.0 a	2328.3 a	
	COC	1 % v/v	C	AT PLANT								
15	YUKON	4 oz/a	C	AT PLANT	10.0 b	6.7 b	100.0 a	8.3 c	99.0 a	0.0 a	1684.3 a	
	TNT	0.5 oz/a	C	AT PLANT								
	COC	1 % v/v	C	AT PLANT								
16	YUKON	6 oz/a	C	AT PLANT	20.0 a	11.7 a	100.0 a	11.7 b	95.3 ab	0.0 a	2144.3 a	
	TNT	0.5 oz/a	C	AT PLANT								
	COC	1 % v/v	C	AT PLANT								
17	TNT	0.5 oz/a	C	AT PLANT	0.0 d	0.0 c	100.0 a	0.0 f	98.3 a	0.0 a	2192.7 a	
	COC	1 % v/v	C	AT PLANT								
18	UNTREATED		C	AT PLANT	0.0 d	0.0 c	100.0 a	0.0 f	0.0 c	0.0 a	2143.7 a	
LSD (P=.05)				2.68	2.57	0.00	2.70	7.13	0.00	1289.26		
Standard Deviation				1.61	1.54	0.00	1.62	4.28	0.00	773.27		
CV				45.71	69.27	0.0	52.92	5.37	0.0	40.2		
Bartlett's X2				1.353	0.0	0.0	0.0	15.733	0.0	3.799		
P(Bartlett's X2)				0.508	1.00	.	.	0.151	.	1.00		
Replicate F				2.326	0.586	0.000	2.125	5.642	0.000	1.241		
Replicate Prob(F)				0.1130	0.5620	1.0000	0.1350	0.0077	1.0000	0.3019		
Treatment F				56.421	22.345	0.000	29.719	222.228	0.000	0.921		
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.5585		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

YUKON - SORGHUM - APPLICATION TIMING

Trial ID: 145F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMARANTHUS PALMERI

SORGHUM

Variety: DK 44-20

Planting Date: Jun/16/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Jun/01/09	Jun/08/09	Jun/16/09
Time of Day:	10:30 AM	10:30 AM	11:15 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	PRE	PRE
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	80 F	70 F	86 F
% Relative Humidity:	48	48	45
Wind Velocity, Unit:	8 MPH	8 MPH	2 MPH
Soil Temp., Unit:	69 F	66 F	77 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	60	0

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	23	23	23
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	AIR

Texas Agricultural Experiment Station

PERMIT/EPTAM - SORGHUM

Trial ID: 146F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code					PIGWEEED
Crop Code	SORGHUM	SORGHUM	SORGHUM	SORGHUM	
Rating Data Type	INJURY	INJURY	INJURY	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/24/09	Jul/30/09	Aug/06/09	Aug/20/09	Aug/20/09

Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Description				
1	PERMIT	0.66	oz/a	A	1-2 LF SORG	6.7	a	36.7	b
	EPTAM	3.5	pt/a	A	1-2 LF SORG	33.3	b	16.7	b
2	PERMIT	0.66	oz/a	A	1-2 LF SORG	6.7	c	5.0	c
3	EPTAM	3.5	pt/a	A	1-2 LF SORG	76.1	a	78.3	a
4	UNTREATED			A	1-2 LF SORG	0.0	c	0.0	c
LSD (P=.05)						15.17		23.07	7.90
Standard Deviation						7.59		10.99	3.76
CV						121.47		34.63	15.31
Bartlett's X2						1.702		2.162	0.0
P(Bartlett's X2)						0.192		0.141	1.00
Replicate F						2.060		1.516	2.794
Replicate Prob(F)						0.2084		0.3058	0.1532
Treatment F						3.892		22.285	41.066
Treatment Prob(F)						0.0738		0.0006	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

PERMIT/EPTAM - SORGHUM

Trial ID: 146F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMARANTHUS PALMERI

SORGHUM Variety: DK 44-20
Planting Date: Jul/09/09

SITE AND DESIGN

Plot Width, Unit: 26.67 FT Plot Length, Unit: 40 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A
Application Date: Jul/17/09
Time of Day: 9:00AM
Application Method: SPRAY
Application Timing: EPOST
Applic. Placement: BROADCAST
Air Temp., Unit: 79 F
% Relative Humidity: 60
Wind Velocity, Unit: 1 MPH
Soil Temp., Unit: 78 F
Soil Moisture: ADEQUATE
% Cloud Cover: 30

CROP STAGE AT EACH APPLICATION

A
SORGHUM
Stage Scale: 1-2 LEAF

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Treatment Application Comment

EACH REP WAS SPRAYED JUST BEFORE SPRINKLER IRRIGATION PASSED
REP 1: 9:30AM
REP 2: 12:00PM
REP 3: 2:00PM
0.75" IRRIGATION APPLIED IMMEDIATELY AFTER TREATMENT

Texas Agricultural Experiment Station

STAPLE - POST COMBINATIONS - COTTON

Trial ID: 147F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code		PIGWEEED		PIGWEEED	PIGWEEED	PIGWEEED	PIGWEEED
Crop Code		COTTON		COTTON			
Part Rated							
Rating Data Type		INJURY	CONTROL	INJURY	CONTROL	CONTROL	PLANTS
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	CONTROL
Rating Date		Jun/10/09	Jun/10/09	Jun/17/09	Jun/17/09	Jul/01/09	Jul/01/09
						/SQMETER	PERCENT

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description						
1	ROUNDUP POWERMAX	22	oz/a	A	PT	0.0 b	99.0 a	0.0 a	99.0 a	85.0 b	68.3 b
2	ROUNDUP POWERMAX	22	oz/a	A	PT	0.0 b	99.0 a	0.0 a	100.0 a	98.7 a	94.0 a
	DUAL II MAGNUM	16	oz/a	A	PT						
3	ROUNDUP POWERMAX	22	oz/a	A	PT	3.3 a	99.3 a	0.0 a	100.0 a	100.0 a	98.7 a
	DUAL II MAGNUM	16	oz/a	A	PT						
	STAPLE LX	1.7	oz/a	A	PT						
4	ROUNDUP POWERMAX	22	oz/a	A	PT	3.3 a	99.3 a	0.0 a	100.0 a	98.0 a	94.3 a
	STAPLE LX	1.7	oz/a	A	PT						
5	SEQUENCE	2.5	pt/a	A	PT	0.0 b	99.3 a	0.0 a	100.0 a	98.3 a	91.7 a
6	SEQUENCE	2.5	pt/a	A	PT	3.3 a	99.3 a	0.0 a	100.0 a	99.7 a	97.7 a
	STAPLE LX	1.7	oz/a	A	PT						
7	UNTREATED			A	PT	0.0 b	0.0 b	0.0 a	0.0 b	0.0 c	16.0 a
8	ROUNDUP POWERMAX	22	oz/a	A	PT	0.0 b	99.3 a	0.0 a	100.0 a	98.7 a	97.7 a
	MILO-PRO	24	oz/a	A	PT						
	STAPLE LX	1.7	oz/a	A	PT						
9	ROUNDUP POWERMAX	22	oz/a	A	PT	0.0 b	99.3 a	0.0 a	100.0 a	95.0 a	93.0 a
	MILO-PRO	24	oz/a	A	PT						
LSD (P=.05)						2.50	0.50	0.00	1.00	5.74	6.58
Standard Deviation						1.44	0.29	0.00	0.58	3.32	3.80
CV						129.9	0.33	0.0	0.65	3.86	4.66
Bartlett's X2						0.0	0.0	0.0	0.0	20.475	11.403
P(Bartlett's X2)						.	1.00	.	.	0.002*	0.122
Replicate F						4.000	16.000	0.000	1.000	1.762	3.194
Replicate Prob(F)						0.0390	0.0002	1.0000	0.3897	0.2035	0.0681
Treatment F						4.000	39403.004	0.000	9976.001	289.135	32.779
Treatment Prob(F)						0.0088	0.0001	1.0000	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
 Crop Code COTTON
 Part Rated LINT
 Rating Data Type YIELD
 Rating Unit LBS/ACRE
 Rating Date Nov/03/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description	
1	ROUNDUP POWERMAX	22 oz/a	A	PT		1166.7 a
2	ROUNDUP POWERMAX	22 oz/a	A	PT		1253.0 a
	DUAL II MAGNUM	16 oz/a	A	PT		
3	ROUNDUP POWERMAX	22 oz/a	A	PT		1217.3 a
	DUAL II MAGNUM	16 oz/a	A	PT		
	STAPLE LX	1.7 oz/a	A	PT		
4	ROUNDUP POWERMAX	22 oz/a	A	PT		1329.7 a
	STAPLE LX	1.7 oz/a	A	PT		
5	SEQUENCE	2.5 pt/a	A	PT		1229.0 a
6	SEQUENCE	2.5 pt/a	A	PT		1296.3 a
	STAPLE LX	1.7 oz/a	A	PT		
7	UNTREATED		A	PT		0.0 b
8	ROUNDUP POWERMAX	22 oz/a	A	PT		1216.7 a
	MILO-PRO	24 oz/a	A	PT		
	STAPLE LX	1.7 oz/a	A	PT		
9	ROUNDUP POWERMAX	22 oz/a	A	PT		1210.0 a
	MILO-PRO	24 oz/a	A	PT		
LSD (P=.05)						281.67
Standard Deviation						162.72
CV						14.77
Bartlett's X2						4.444
P(Bartlett's X2)						0.727
Replicate F						19.834
Replicate Prob(F)						0.0001
Treatment F						19.618
Treatment Prob(F)						0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

STAPLE - POST COMBINATIONS - COTTON

Trial ID: 147F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMARANTHUS PALMERI

COTTON

Variety: PM 2140 B2RF

Planting Date: May/19/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:

ALL PLOTS OVERSPRAYED WITH ROUNDUP POWERMAX AT 22 OZ/A ON JULY 10 AND AUGUST 8

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A
Application Date: Jun/03/09
Time of Day: 11:00 PM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 67 F
% Relative Humidity: 62
Wind Velocity, Unit: 8 MPH
Soil Temp., Unit: 75 F
Soil Moisture: ADEQUATE
% Cloud Cover: 90

CROP STAGE AT EACH APPLICATION

A
COTTON
Stage Scale: 2-4 LF

WEED STAGE AT EACH APPLICATION

A
PIGWEEED
Stage Scale: 2-6"

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

SESAME PREEMERGENCE HERBICIDE STUDY

Trial ID: 149F-09
Location: LORENZO - CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

SESAME INJURY PERCENT Jul/09/09 14 DA-A	SESAME STUNT PERCENT Jul/09/09 14 DA-A	SESAME STANDLOSS PERCENT Jul/09/09 14 DA-A	SESAME INJURY PERCENT Jul/23/09 28 DA-A	SESAME STUNT PERCENT Jul/23/09 28 DA-A	SESAME STANDLOSS PERCENT Jul/23/09 28 DA-A
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Trt No.	Treatment Name	Rate	Product	Product	Grow	Appl
		Rate	Unit	Rate	Unit	Stg Code

1	UNTREATED CHECK					0.0 g	0.0 g	0.0 f	0.0 g	0.0 i	0.0 g
2	DUAL MAGNUM	0.635 lb ai/a	10.7 oz/a	PRE	A	6.7 g	5.0 g	1.7 ef	8.3 g	6.7 hi	5.0 fg
3	DUAL MAGNUM	1.27 lb ai/a	21.3 oz/a	PRE	A	46.7 f	40.0 f	11.7 def	35.0 f	26.7 gh	16.7 fg
4	DIREX	0.5 lb ai/a	1 pt/a	PRE	A	56.7 ef	53.3 ef	11.7 def	45.0 ef	40.0 fg	25.0 ef
5	DIREX	1 lb ai/a	2 pt/a	PRE	A	73.3 bcd	53.3 ef	40.0 cd	68.3 cd	58.3 def	53.3 cd
6	LAYBY PRO	0.5 lb ai/a	1 pt/a	PRE	A	60.0 def	56.7 def	13.3 def	48.3 ef	40.0 fg	26.7 ef
7	LAYBY PRO	1 lb ai/a	2 pt/a	PRE	A	85.0 abc	71.7 b-e	76.7 ab	79.3 abc	65.0 b-f	75.7 abc
8	LAYBY PRO	2 lb ai/a	4 pt/a	PRE	A	100.0 a	100.0 a	100.0 a	98.0 ab	85.0 abc	98.0 a
9	CAPAROL	1 lb ai/a	2 pt/a	PRE	A	99.3 a	90.0 ab	98.3 a	92.0 ab	70.0 b-e	91.0 a
10	DUAL MAGNUM	0.635 lb ai/a	10.7 oz/a	PRE	A	71.7 cde	66.7 cde	36.7 cd	58.3 de	50.0 efg	51.7 d
	DIREX	0.5 lb ai/a	1 pt/a	PRE	A						
11	DUAL MAGNUM	0.635 lb ai/a	10.7 oz/a	PRE	A	89.3 ab	83.3 abc	75.0 ab	78.3 bc	61.7 c-f	76.7 ab
	DIREX	1 lb ai/a	2 pt/a	PRE	A						
12	DUAL MAGNUM	1.27 lb ai/a	21.3 oz/a	PRE	A	81.7 bc	76.7 bc	63.3 bc	61.5 cde	64.0 b-f	57.1 bcd
	DIREX	0.5 lb ai/a	1 pt/a	PRE	A						
13	DUAL MAGNUM	1.27 lb ai/a	21.3 oz/a	PRE	A	98.0 a	86.3 ab	96.0 a	90.7 ab	78.3 a-d	90.0 a
	DIREX	1 lb ai/a	2 pt/a	PRE	A						
14	COTORAN	0.5 lb ai/a	1 pt/a	PRE	A	61.7 def	56.7 def	30.0 de	61.7 cde	53.3 ef	43.3 de
15	COTORAN	1 lb ai/a	2 pt/a	PRE	A	88.3 ab	75.0 bcd	81.7 ab	91.7 ab	86.7 ab	90.0 a
16	COTORAN	2 lb ai/a	4 pt/a	PRE	A	100.0 a	100.0 a	100.0 a	99.0 a	96.7 a	99.0 a
17	UNTREATED CHECK					0.0 g	0.0 g	0.0 f	0.0 g	0.0 i	0.0 g
	LSD (P=.05)					14.64	16.88	25.94	17.59	21.77	21.44
	Standard Deviation					8.78	10.12	15.56	10.55	13.06	12.86
	CV					13.35	16.96	31.63	17.66	25.16	24.32
	Bartlett's X2					21.717	13.872	30.367	23.338	16.915	24.322
	P(Bartlett's X2)					0.041*	0.309	0.002*	0.038*	0.261	0.028*
	Replicate F					7.424	4.122	5.085	3.413	3.588	3.822
	Replicate Prob(F)					0.0022	0.0255	0.0121	0.0457	0.0396	0.0328
	Treatment F					46.027	30.658	18.791	29.620	15.559	22.936
	Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code	PIGWEEED	PIGWEEED
Crop Code	SESAME	
Rating Data Type	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT
Rating Date	Jul/23/09	Aug/20/09
Trt-Eval Interval	28 DA-A	56 DA-A

Trt No.	Treatment Name	Rate	Product	Product Rate	Unit	Grow Stg	Appl Code			
1	UNTREATED CHECK							0.0	c	0.0
2	DUAL MAGNUM	0.635	lb ai/a	10.7	oz/a	PRE	A	60.0	b	0.0
3	DUAL MAGNUM	1.27	lb ai/a	21.3	oz/a	PRE	A	96.7	a	3.3
4	DIREX	0.5	lb ai/a	1	pt/a	PRE	A	76.7	ab	1.7
5	DIREX	1	lb ai/a	2	pt/a	PRE	A	98.3	a	18.3
6	LAYBY PRO	0.5	lb ai/a	1	pt/a	PRE	A	93.3	a	8.3
7	LAYBY PRO	1	lb ai/a	2	pt/a	PRE	A	99.7	a	43.3
8	LAYBY PRO	2	lb ai/a	4	pt/a	PRE	A	99.7	a	96.7
9	CAPAROL	1	lb ai/a	2	pt/a	PRE	A	100.0	a	77.3
10	DUAL MAGNUM	0.635	lb ai/a	10.7	oz/a	PRE	A	93.3	a	8.3
	DIREX	0.5	lb ai/a	1	pt/a	PRE	A			
11	DUAL MAGNUM	0.635	lb ai/a	10.7	oz/a	PRE	A	100.0	a	35.0
	DIREX	1	lb ai/a	2	pt/a	PRE	A			
12	DUAL MAGNUM	1.27	lb ai/a	21.3	oz/a	PRE	A	99.1	a	48.3
	DIREX	0.5	lb ai/a	1	pt/a	PRE	A			
13	DUAL MAGNUM	1.27	lb ai/a	21.3	oz/a	PRE	A	100.0	a	75.0
	DIREX	1	lb ai/a	2	pt/a	PRE	A			
14	COTORAN	0.5	lb ai/a	1	pt/a	PRE	A	95.0	a	23.3
15	COTORAN	1	lb ai/a	2	pt/a	PRE	A	99.3	a	81.7
16	COTORAN	2	lb ai/a	4	pt/a	PRE	A	100.0	a	97.7
17	UNTREATED CHECK							0.0	c	0.0
	LSD (P=.05)							25.83		20.22
	Standard Deviation							15.49		12.13
	CV							18.66		33.35
	Bartlett's X2							60.833		47.182
	P(Bartlett's X2)							0.001*		0.001*
	Replicate F							0.505		1.008
	Replicate Prob(F)							0.6087		0.3762
	Treatment F							13.568		26.945
	Treatment Prob(F)							0.0001		0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SESAME PREEMERGENCE HERBICIDE STUDY

Trial ID: 149F-09
Location: LORENZO - CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LORENZO
State/Prov.: TEXAS

Initiation Date: Jun/23/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: STEVE CHAPMAN

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name
PALMER AMARANTH

Variety: SESACO S32

Planting Date: Jun/23/09
Row Spacing: 40 INCH

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 27 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

A
Application Date: Jun/25/09
Time of Day: 11:00 AM
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 92 F
% Relative Humidity: 31
Wind Velocity, Unit: 5 MPH
Soil Temp., Unit: 85 F
Soil Moisture: ADEQUATE
% Cloud Cover: 15

CROP STAGE AT EACH APPLICATION

A
SESAME
Stage Scale: PRE
N/A

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 28 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Texas Agricultural Experiment Station

YUKON - WHEAT/SORGHUM

Trial ID: 150F-09
Location: LAMESA

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code				PIGWEEED			PIGWEEED			PIGWEEED		
Crop Code				SORG	SORG		SORG			SORG		SORG
Rating Data Type				INJURY	INJURY	CONTROL	INJURY	CONTROL		INJURY	CONTROL	INJURY
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT
Rating Date				Jul/14/09	Jul/24/09	Jul/24/09	Jul/30/09	Jul/30/09		Aug/12/09	Aug/12/09	Aug/28/09
Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Description							
1	UNTREATED					0.0 c	0.0 a	0.0 b	0.0 a	0.0 b	0.0 a	0.0 d
2	YUKON	3 oz/a	A	PRE		0.0 c	5.0 a	100.0 a	1.7 a	98.3 a	0.0 a	88.3 c
3	YUKON	3 oz/a	A	PRE		1.7 c	8.3 a	100.0 a	10.0 a	100.0 a	11.7 a	100.0 a
	YUKON	3 oz/a	B	POST								
4	YUKON	4 oz/a	A	PRE		3.3 bc	11.7 a	99.7 a	6.7 a	100.0 a	3.3 a	90.0 bc
5	YUKON	4 oz/a	A	PRE		0.0 c	10.0 a	99.7 a	6.7 a	100.0 a	5.0 a	100.0 a
	YUKON	4 oz/a	B	POST								
6	YUKON	6 oz/a	A	PRE		10.0 ab	13.3 a	100.0 a	8.3 a	98.3 a	3.3 a	95.0 abc
7	YUKON	3 oz/a	A	PRE		1.7 c	3.3 a	100.0 a	0.0 a	100.0 a	0.0 a	98.3 a
	MILO PRO	1 pt/a	A	PRE								
8	YUKON	4 oz/a	A	PRE		13.3 a	13.3 a	100.0 a	10.0 a	100.0 a	3.3 a	95.0 abc
	MILO PRO	1 pt/a	A	PRE								
9	MILO PRO	1 pt/a	A	PRE		0.0 c	1.7 a	100.0 a	0.0 a	100.0 a	0.0 a	96.7 ab
	LSD (P=.05)					6.77	9.66	0.49	9.10	2.20	10.23	7.33
	Standard Deviation					3.91	5.58	0.28	5.26	1.27	5.91	4.24
	CV					117.26	75.33	0.32	109.24	1.44	199.54	4.99
	Bartlett's X2					5.15	6.288	0.0	5.73	0.0	10.056	2.437
	P(Bartlett's X2)					0.272	0.392	.	0.333	.	0.039*	0.786
	Replicate F					2.364	0.030	0.471	0.435	2.286	0.821	0.361
	Replicate Prob(F)					0.1261	0.9708	0.6330	0.6546	0.1339	0.4576	0.7023
	Treatment F					4.773	2.483	42283.180	2.067	2041.000	1.238	171.923
	Treatment Prob(F)					0.0038	0.0578	0.0001	0.1030	0.0001	0.3394	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code	PIGWEEED
Crop Code	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Aug/28/09

Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Description
1	UNTREATED				0.0 e
2	YUKON	3 oz/a	A	PRE	86.7 d
3	YUKON	3 oz/a	A	PRE	100.0 a
	YUKON	3 oz/a	B	POST	
4	YUKON	4 oz/a	A	PRE	90.0 cd
5	YUKON	4 oz/a	A	PRE	100.0 a
	YUKON	4 oz/a	B	POST	
6	YUKON	6 oz/a	A	PRE	95.0 abc
7	YUKON	3 oz/a	A	PRE	97.3 ab
	MILO PRO	1 pt/a	A	PRE	
8	YUKON	4 oz/a	A	PRE	97.7 ab
	MILO PRO	1 pt/a	A	PRE	
9	MILO PRO	1 pt/a	A	PRE	91.7 bcd
LSD (P=.05)					5.90
Standard Deviation					3.41
CV					4.05
Bartlett's X2					3.846
P(Bartlett's X2)					0.427
Replicate F					0.978
Replicate Prob(F)					0.3973
Treatment F					263.164
Treatment Prob(F)					0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

YUKON - WHEAT/SORGHUM

Trial ID: 150F-09
Location: LAMESA

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
PIGWEEED		AMARANTHUS PALMERI
VOLUNTEER WHEAT		TRITICUM AESTIVUM

SORGHUM

Planting Date: Jul/03/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: FINE SANDY LOAM
Soil Name: AMARILLO

APPLICATION DESCRIPTION

	A	B
Application Date:	Jul/03/09	Jul/23/09
Time of Day:	3:00 PM	11:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	96 F	64 F
% Relative Humidity:	32	75
Wind Velocity, Unit:	5 MPH	2 MPH
Soil Temp., Unit:	86 F	71 F
Soil Moisture:	DRY	ADEQUATE
% Cloud Cover:	10	100

CROP STAGE AT EACH APPLICATION

	A	B
	SORGHUM	SORGHUM
Stage Scale:	PRE	4-6 LF

WEED STAGE AT EACH APPLICATION

	A	B
	PIGWEEED	PIGWEEED
Stage Scale:	PRE	2-3"
	VOLWHEAT	VOLWHEAT
Stage Scale:	PRE	2-4"

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	23	23
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	AIR

Texas Agricultural Experiment Station

VOLUNTEER RRF COTTON CONTROL

Trial ID: 156F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

				VOL COT		VOL COT		VOL COT		VOL COT	
Weed Code				COTTON		COTTON		COTTON		COTTON	
Crop Code				INJURY		INJURY		INJURY		INJURY	
Rating Data Type				PERCENT		PERCENT		PERCENT		PERCENT	
Rating Unit				PERCENT		PERCENT		PERCENT		PERCENT	
Rating Date				Jul/09/09		Jul/16/09		Jul/24/09		Jul/29/09	
Trt No.	Treatment Name	Rate	Appl Code	Appl Description							
1	UNTREATED		A	4-5 LEAF	0.0 c	0.0 e	0.0 c	0.0 e			
2	AIM	1 oz/a	A	4-5 LEAF	6.7 b	83.3 bc	1.7 bc	76.7 bc			
	COC	1 % v/v	A	4-5 LEAF							
3	ET	1.5 oz/a	A	4-5 LEAF	5.0 b	93.3 ab	3.7 b	86.7 ab			
	COC	1 % v/v	A	4-5 LEAF							
4	BUCTRIL	0.5 pt/a	A	4-5 LEAF	6.7 b	76.7 c	2.7 bc	61.7 c			
5	GRAMOXONE	32 oz/a	A	4-5 LEAF	16.7 a	93.3 ab	10.0 a	91.0 ab			
	NIS	0.25 % v/v	A	4-5 LEAF							
6	SHARPEN	1 oz/a	A	4-5 LEAF	4.3 bc	96.0 a	1.0 bc	91.0 ab			
	MSO	1 % v/v	A	4-5 LEAF							
7	SHARPEN	1.5 oz/a	A	4-5 LEAF	0.0 c	97.0 a	0.0 c	96.0 a			
	MSO	1 % v/v	A	4-5 LEAF							
8	SHARPEN	2 oz/a	A	4-5 LEAF	2.3 bc	99.7 a	2.0 bc	99.3 a			
	MSO	1 % v/v	A	4-5 LEAF							
9	LAYBY PRO	32 oz/a	A	4-5 LEAF	0.0 c	53.3 d	0.0 c	43.3 d			
	NIS	0.25 % v/v	A	4-5 LEAF							
10	TILLAGE		A	4-5 LEAF							
11	UNTREATED		B	6-8 LEAF				0.0 a	0.0 d	0.0 a	0.0 f
12	AIM	1 oz/a	B	6-8 LEAF				0.0 a	61.7 bc	0.0 a	66.7 c
	COC	1 % v/v	B	6-8 LEAF							
13	ET	1.5 oz/a	B	6-8 LEAF				0.0 a	58.3 c	0.0 a	58.3 d
	COC	1 % v/v	B	6-8 LEAF							
14	BUCTRIL	0.5 pt/a	B	6-8 LEAF				0.0 a	56.7 c	0.0 a	55.0 d
15	GRAMOXONE	32 oz/a	B	6-8 LEAF				0.0 a	75.0 b	0.0 a	85.0 b
	NIS	0.25 % v/v	B	6-8 LEAF							
16	SHARPEN	1 oz/a	B	6-8 LEAF				0.0 a	95.0 a	0.0 a	97.7 a
	MSO	1 % v/v	B	6-8 LEAF							
17	SHARPEN	1.5 oz/a	A	6-8 LEAF				0.0 a	97.7 a	0.0 a	94.3 a
	MSO	1 % v/v	A	6-8 LEAF							
18	SHARPEN	2 oz/a	A	6-8 LEAF				1.7 a	99.0 a	0.0 a	98.0 a
	MSO	1 % v/v	A	6-8 LEAF							
19	LAYBY PRO	32 oz/a	B	6-8 LEAF				0.0 a	48.3 c	0.0 a	46.7 e
	NIS	0.25 % v/v	B	6-8 LEAF							
20	TILLAGE							0.0 a	95.7 a	0.0 a	96.3 a
LSD (P=.05)				4.38	10.16	2.73	15.53	1.57	14.61	0.00	7.51
Standard Deviation				2.53	5.87	1.58	8.97	0.91	8.52	0.00	4.38
CV				54.64	7.63	67.57	12.51	547.72	12.39	0.0	6.27
Bartlett's X2				4.511	22.111	1.84	16.801	0.0	19.096	0.0	6.46
P(Bartlett's X2)				0.341	0.002*	0.765	0.019*	.	0.008*	.	0.596
Replicate F				1.013	1.367	0.849	0.057	1.000	0.152	0.000	0.438
Replicate Prob(F)				0.3853	0.2830	0.4462	0.9447	0.3874	0.8600	1.0000	0.6520
Treatment F				13.069	90.675	11.966	39.098	1.000	39.751	0.000	154.280
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.4742	0.0001	1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

VOLUNTEER RRF COTTON CONTROL

Trial ID: 156F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	GOSHI COTTON	GOSSYPIMUM HIRSUTUM

COTTON

Variety: PM 2140 B2RF

Planting Date: May/19/09

SITE AND DESIGN

Plot Width, Unit: 13.33	FT	Plot Length, Unit: 30	FT	Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK				

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

	A	B
Application Date:	Jul/02/09	Jul/14/09
Time of Day:	3:00 PM	2:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	EPOST	MPOST
Applic. Placement:	PDIR	PDIR
Air Temp., Unit:	90 F	95 F
% Relative Humidity:	38	31
Wind Velocity, Unit:	3.6 MPH	8 MPH
Soil Temp., Unit:	80 F	87 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	0

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	GOSHI COTTON	GOSHI COTTON
Stage Scale:	3-4 LEAF	6-8 LEAF

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	REDBALL	REDBALL
Nozzle Type:	TEE JET	TEE JET
Nozzle Size:	8002	8002
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA
Propellant:	AIR	AIR

Texas Agricultural Experiment Station

SESAME POST HERBICIDE STUDY - I

Trial ID: 157F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Crop Code	SESAME	SESAME	SESAME	SESAME
Rating Data Type	INJURY	HEIGHT	INJURY	INJURY
Rating Unit	PERCENT	INCHES	PERCENT	PERCENT
Rating Date	Aug/13/09	Aug/13/09	Aug/28/09	Sep/24/09
Trt-Eval Interval	14 DA-A	14 DA-A	30 DA-A	56 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	UNTREATED CHECK							0.0 k	24.3 a	0.0 m	0.0 g
2	VALOR (1/2X)	0.048	lb ai/a	1.5	oz/a	POST A		48.3 ef	16.0 d-i	18.3 hi	5.0 efg
3	VALOR (1X)	0.096	lb ai/a	3	oz/a	POST A		50.7 def	16.7 c-h	33.3 def	8.3 efg
4	VALOR (2X)	0.191	lb ai/a	6	oz/a	POST A		70.0 b	13.3 ghi	45.0 c	10.0 ef
5	VALOR (1/2X)	0.048	lb ai/a	1.5	oz/a	POST A		49.0 ef	16.3 c-i	26.7 fg	3.3 fg
	NIS	0.25	% v/v	3.2	oz/a	POST A					
6	VALOR (1X)	0.096	lb ai/a	3	oz/a	POST A		61.7 bc	14.0 f-i	38.3 d	20.0 d
	NIS	0.25	% v/v	3.2	oz/a	POST A					
7	VALOR (2X)	0.191	lb ai/a	6	oz/a	POST A		80.0 a	10.3 i	70.0 a	51.7 b
	NIS	0.25	% v/v	3.2	oz/a	POST A					
8	DIREX (1/2X)	0.5	lb ai/a	1	pt/a	POST A		20.0 i	20.3 a-f	3.0 lm	0.0 g
	COC	1	% v/v	12.8	oz/a	POST A					
9	DIREX (1X)	1	lb ai/a	2	pt/a	POST A		16.7 ij	22.0 a-d	8.3 jkl	4.0 efg
	COC	1	% v/v	12.8	oz/a	POST A					
10	DIREX (2X)	2	lb ai/a	4	pt/a	POST A		21.7 i	19.7 a-g	15.0 hij	6.7 efg
	COC	1	% v/v	12.8	oz/a	POST A					
11	MILO PRO (1/2X)	0.375	lb ai/a	0.75	pt/a	POST A		15.7 ij	20.7 a-e	3.3 lm	0.0 g
	COC	1	% v/v	12.8	oz/a	POST A					
12	MILO PRO (1X)	0.75	lb ai/a	1.5	pt/a	POST A		24.0 i	18.0 a-h	11.7 ijk	5.7 efg
	COC	1	% v/v	12.8	oz/a	POST A					
13	MILO PRO (2X)	1.5	lb ai/a	3	pt/a	POST A		36.7 gh	19.0 a-g	33.3 def	9.0 efg
	COC	1	% v/v	12.8	oz/a	POST A					
14	CAPAROL (1/2X)	0.5	lb ai/a	1	pt/a	POST A		46.7 efg	17.7 b-h	18.3 hi	0.0 g
	COC	1	% v/v	12.8	oz/a	POST A					
15	CAPAROL (1X)	1	lb ai/a	2	pt/a	POST A		61.7 bc	14.0 f-i	33.3 def	12.3 e
	COC	1	% v/v	12.8	oz/a	POST A					
16	CAPAROL (2X)	2	lb ai/a	4	pt/a	POST A		68.3 b	12.0 hi	50.0 c	23.3 d
	COC	1	% v/v	12.8	oz/a	POST A					
17	LAYBY PRO (1/2X)	0.5	lb ai/a	1	pt/a	POST A		41.7 fgh	18.7 a-g	11.7 ijk	1.7 fg
	COC	1	% v/v	12.8	oz/a	POST A					
18	LAYBY PRO (1X)	1	lb ai/a	2	pt/a	POST A		53.3 cde	15.0 e-i	21.7 gh	6.7 efg
	COC	1	% v/v	12.8	oz/a	POST A					
19	LAYBY PRO (2X)	2	lb ai/a	4	pt/a	POST A		60.7 bcd	15.3 e-i	36.7 de	21.7 d
	COC	1	% v/v	12.8	oz/a	POST A					
20	COTORAN (1/2X)	0.5	lb ai/a	1	pt/a	POST A		8.7 jk	22.0 a-d	2.0 lm	0.0 g
	COC	1	% v/v	12.8	oz/a	POST A					
21	COTORAN (1X)	1	lb ai/a	2	pt/a	POST A		15.0 ij	23.3 ab	5.7 klm	0.0 g
	COC	1	% v/v	12.8	oz/a	POST A					
22	COTORAN (2X)	2	lb ai/a	4	pt/a	POST A		23.3 i	18.7 a-g	5.7 klm	1.7 fg
	COC	1	% v/v	12.8	oz/a	POST A					
23	STINGER (1/2X)	0.124	lb ai/a	0.33	pt/a	POST A		25.0 i	21.0 a-e	30.0 ef	33.3 c
	COC	1	% v/v	12.8	oz/a	POST A					
24	STINGER (1X)	0.247	lb ai/a	0.66	pt/a	POST A		35.0 h	18.0 a-h	31.7 def	35.0 c
	COC	1	% v/v	12.8	oz/a	POST A					
25	STINGER (2X)	0.457	lb ai/a	1.22	pt/a	POST A		40.0 fgh	22.7 abc	63.3 b	68.3 a
	COC	1	% v/v	12.8	oz/a	POST A					
26	UNTREATED CHECK #2							0.0 k	22.0 a-d	0.0 m	0.0 g
	LSD (P=.05)							9.90	5.35	6.43	7.60
	Standard Deviation							6.00	3.24	3.90	4.61
	CV							16.02	17.89	16.45	36.56
	Bartlett's X2							24.088	21.652	19.006	27.535
	P(Bartlett's X2)							0.289	0.656	0.521	0.051
	Replicate F							1.060	0.948	0.041	1.162
	Replicate Prob(F)							0.3540	0.3944	0.9595	0.3211
	Treatment F							41.551	3.855	74.074	42.629
	Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SESAME POST HERBICIDE STUDY - I

Trial ID: 157F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LORENZO
State/Prov.: TEXAS

Initiation Date: Jul/30/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: STEVE CHAPMAN

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Planting Date: Jun/23/09
Row Spacing: 40 INCH

Variety: SESACO S32

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 27 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

A
Application Date: Jul/30/09
Time of Day: 10:30 AM
Application Method: SPRAY
Application Timing: A POST
Applic. Placement: BROADCAST
Air Temp., Unit: 72 F
% Relative Humidity: 81
Wind Velocity, Unit: 6 MPH
Soil Temp., Unit: 75 F
Soil Moisture: ADEQUATE
% Cloud Cover: 90

CROP STAGE AT EACH APPLICATION

A
SESAME
Stage Scale: HEIGHT
Height, Unit: 10 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 24 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 28 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Texas Agricultural Experiment Station

SESAME POST-DIRECTED STUDY

Trial ID: 158F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

Crop Code	SESAME	SESAME	SESAME	SESAME
Rating Data Type	INJURY	HEIGHT	INJURY	INJURY
Rating Unit	PERCENT	INCHES	PERCENT	PERCENT
Rating Date	Aug/13/09	Aug/13/09	Aug/28/09	Sep/24/09
Trt-Eval Interval	14 DA-A	14 DA-A	29 DA-A	56 DA-A

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	UNTREATED CHECK							0.0 e	23.7 a	0.0 e	0.0 d
2	CAPAROL	1 lb ai/a		2 pt/a		PDIR A		16.7 c	23.7 a	6.7 c	8.3 c
	COC	1 % v/v		12.8 oz/a		PDIR A					
3	DIREX	1 lb ai/a		2 pt/a		PDIR A		14.0 c	23.0 a	5.7 c	3.3 cd
	COC	1 % v/v		12.8 oz/a		PDIR A					
4	VALOR	0.063 lb ai/a		1.98 oz/a		PDIR A		63.3 a	13.3 c	43.3 b	45.0 b
	COC	1 % v/v		12.8 oz/a		PDIR A					
5	MILO PRO	0.75 lb ai/a		1.5 pt/a		PDIR A		7.0 d	24.3 a	1.3 de	0.0 d
	COC	1 % v/v		12.8 oz/a		PDIR A					
6	LINEX	1 lb ai/a		2 pt/a		PDIR A		13.3 c	22.3 a	4.3 cd	3.3 cd
	COC	1 % v/v		12.8 oz/a		PDIR A					
7	LINEX	1 lb ai/a		2 pt/a		PDIR A		53.3 b	16.3 b	75.0 a	76.7 a
	ROUNDUP POWERMAX	0.75 lb ae/a		21.3 oz/a		PDIR A					
	COC	1 % v/v		12.8 oz/a		PDIR A					
8	COTORAN	1 lb ai/a		2 pt/a		PDIR A		4.3 de	23.3 a	1.3 de	0.0 d
	COC	1 % v/v		12.8 oz/a		PDIR A					
9	UNTREATED CHECK #2							0.0 e	23.7 a	0.0 e	0.0 d
	LSD (P=.05)							4.75	2.06	3.90	5.65
	Standard Deviation							2.74	1.19	2.25	3.26
	CV							14.36	5.52	14.73	21.49
	Bartlett's X2							5.894	9.668	11.214	1.665
	P(Bartlett's X2)							0.317	0.289	0.082	0.797
	Replicate F							0.192	4.511	6.177	2.174
	Replicate Prob(F)							0.8273	0.0279	0.0103	0.1462
	Treatment F							213.598	32.348	405.803	208.457
	Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SESAME POST-DIRECTED STUDY

Trial ID: 158F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LORENZO
State/Prov.: TEXAS

Initiation Date: Jul/30/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: STEVE CHAPMAN

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Planting Date: Jun/23/09
Row Spacing: 40 INCH

Variety: SESACO S32

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 27 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

A
Application Date: Jul/30/09
Time of Day: 1:00 PM
Application Method: SPRAY
Application Timing: A PDIR
Applic. Placement: PDIR
Air Temp., Unit: 73.8 F
% Relative Humidity: 75
Wind Velocity, Unit: 4 MPH
Soil Temp., Unit: 79.1 F
Soil Moisture: ADEQUATE
% Cloud Cover: 60

CROP STAGE AT EACH APPLICATION

A
SESAME
Stage Scale: HEIGHT
Height, Unit: 10 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 24 PSI
Nozzle Type: TURBOTEE
Nozzle Size: 110015
Nozzle Spacing, Unit: 19 IN
Boom Height, Unit: 3 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: CO2

Treatment Application Comment
TREATED MIDDLE 2 ROWS
TREATED LOWER 4" OF PLANT

Texas Agricultural Experiment Station

SESAME POST HERBICIDE STUDY - II

Trial ID: 159F-09

Study Dir.: DR. PETER DOTRAY

Location: LORENZO-CHAPMANS

Investigator: Dr. Wayne Keeling

Crop Code					SESAME	SESAME	SESAME	SESAME	SESAME	SESAME
Rating Data Type					INJURY	CHLOR/NEC	STUNT	INJURY	CHLOR/NEC	STUNT
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					Aug/06/09	Aug/06/09	Aug/06/09	Aug/20/09	Aug/20/09	Aug/20/09
Trt	Treatment	Rate	Product	Product	Grow					
No.	Name	Rate	Unit	Rate	Unit	Stg				
TABLE OF R MEANS										
Replicate 1							10.0	4.0	8.0	4.0
Replicate 2							9.0	5.0	6.0	3.0
Replicate 3							12.0	4.0	10.0	4.0
TABLE OF A MEANS										
1	UNTREATED CHECK						0.0	0.0	0.0	0.0
2	SELECT	0.188	lb ai/a	12	oz/a		6.7	0.0	6.7	0.0
2	COC	1	% v/v	12.8	oz/a					
3	DIREX	1	lb ai/a	1	qt/a		45.0	21.7	33.3	17.5
3	COC	1	% v/v	12.8	oz/a					
4	FUSILADE DX	0.188	lb ai/a	12	oz/a		0.0	0.0	0.0	0.0
4	COC	1	% v/v	12.8	oz/a					
5	POAST PLUS	0.187	lb ai/a	1.5	pt/a		0.0	0.0	0.0	0.8
5	COC	1	% v/v	12.8	oz/a					
TABLE OF B MEANS										
1	4 WAP				4 WAP		10.3	4.3	8.0	4.3
2	6 WAP				6 WAP		.	.	.	3.0
3	8 WAP				8 WAP		.	.	.	.
4	10 WAP				10 WAP		.	.	.	.
TABLE OF AB MEANS										
1	UNTREATED CHECK						0.0	0.0	0.0	0.0
1	4 WAP				4 WAP					
2	SELECT	0.188	lb ai/a	12	oz/a		6.7	0.0	6.7	0.0
2	COC	1	% v/v	12.8	oz/a					
1	4 WAP				4 WAP					
3	DIREX	1	lb ai/a	1	qt/a		45.0	21.7	33.3	20.0
3	COC	1	% v/v	12.8	oz/a					
1	4 WAP				4 WAP					
4	FUSILADE DX	0.188	lb ai/a	12	oz/a		0.0	0.0	0.0	0.0
4	COC	1	% v/v	12.8	oz/a					
1	4 WAP				4 WAP					
5	POAST PLUS	0.187	lb ai/a	1.5	pt/a		0.0	0.0	0.0	1.7
5	COC	1	% v/v	12.8	oz/a					
1	4 WAP				4 WAP					
1	UNTREATED CHECK						.	.	.	0.0
2	6 WAP				6 WAP		.	.	.	0.0
2	SELECT	0.188	lb ai/a	12	oz/a		.	.	.	0.0
2	COC	1	% v/v	12.8	oz/a					
2	6 WAP				6 WAP					
3	DIREX	1	lb ai/a	1	qt/a		.	.	.	15.0
3	COC	1	% v/v	12.8	oz/a					
2	6 WAP				6 WAP					
4	FUSILADE DX	0.188	lb ai/a	12	oz/a		.	.	.	0.0
4	COC	1	% v/v	12.8	oz/a					
2	6 WAP				6 WAP					
5	POAST PLUS	0.187	lb ai/a	1.5	pt/a		.	.	.	0.0
5	COC	1	% v/v	12.8	oz/a					
2	6 WAP				6 WAP					
1	UNTREATED CHECK						.	.	.	.
3	8 WAP				8 WAP		.	.	.	.
2	SELECT	0.188	lb ai/a	12	oz/a		.	.	.	.
2	COC	1	% v/v	12.8	oz/a					
3	8 WAP				8 WAP					
3	DIREX	1	lb ai/a	1	qt/a		.	.	.	.
3	COC	1	% v/v	12.8	oz/a					
3	8 WAP				8 WAP					
4	FUSILADE DX	0.188	lb ai/a	12	oz/a		.	.	.	.
4	COC	1	% v/v	12.8	oz/a					
3	8 WAP				8 WAP					
5	POAST PLUS	0.187	lb ai/a	1.5	pt/a		.	.	.	.
5	COC	1	% v/v	12.8	oz/a					
3	8 WAP				8 WAP		258			

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

SESAME	SESAME	SESAME	SESAME	SESAME	SESAME
INJURY	CHLOR/NEC	STUNT	INJURY	CHLOR/NEC	STUNT
PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Aug/06/09	Aug/06/09	Aug/06/09	Aug/20/09	Aug/20/09	Aug/20/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	SESAME INJURY PERCENT Aug/06/09	SESAME CHLOR/NEC PERCENT Aug/06/09	SESAME STUNT PERCENT Aug/06/09	SESAME INJURY PERCENT Aug/20/09	SESAME CHLOR/NEC PERCENT Aug/20/09	SESAME STUNT PERCENT Aug/20/09
1	UNTREATED CHECK						.	.	.	.	.	.
4	10 WAP					10 WAP	.	.	.	.	.	.
2	SELECT	0.188	lb ai/a	12	oz/a		.	.	.	.	.	.
2	COC	1	% v/v	12.8	oz/a		.	.	.	.	.	.
4	10 WAP					10 WAP	.	.	.	.	.	.
3	DIREX	1	lb ai/a	1	qt/a		.	.	.	.	.	.
3	COC	1	% v/v	12.8	oz/a		.	.	.	.	.	.
4	10 WAP					10 WAP	.	.	.	.	.	.
4	FUSILADE DX	0.188	lb ai/a	12	oz/a		.	.	.	.	.	.
4	COC	1	% v/v	12.8	oz/a		.	.	.	.	.	.
4	10 WAP					10 WAP	.	.	.	.	.	.
5	POAST PLUS	0.187	lb ai/a	1.5	pt/a		.	.	.	.	.	.
5	COC	1	% v/v	12.8	oz/a		.	.	.	.	.	.
4	10 WAP					10 WAP	.	.	.	.	.	.

Texas Agricultural Experiment Station

SESAME POST HERBICIDE STUDY - II

Trial ID: 159F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For SESAME INJURY PERCENT Aug/06/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	5924.583333				
R	2	5.833333	2.916667	1.000	0.3827	1.1
A	4	1151.666667	287.916667	98.714	0.0001	1.6
RA	8	23.333333	2.916667	1.000	0.4613	2.5
B	3	1201.250000	400.416667	137.286	0.0001	1.5
RB	6	17.500000	2.916667	1.000	0.4481	2.2
AB	12	3455.000000	287.916667	98.714	0.0001	2.9
RAB	24	70.000000	2.916667			

FACTORIAL/POOLED ERROR AOV For SESAME INJURY PERCENT Aug/06/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	5924.583333				
R	2	5.833333	2.916667	1.000	0.3774	1.1
A	4	1151.666667	287.916667	98.714	0.0001	1.4
B	3	1201.250000	400.416667	137.286	0.0001	1.3
AB	12	3455.000000	287.916667	98.714	0.0001	2.8
ERROR	38	110.833333	2.916667			

COMPLETE FACTORIAL AOV For SESAME CHLOR/NEC PERCENT Aug/06/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	1354.583333				
R	2	0.833333	0.416667	1.000	0.3827	0.4
A	4	281.666667	70.416667	169.000	0.0001	0.6
RA	8	3.333333	0.416667	1.000	0.4613	0.9
B	3	211.250000	70.416667	169.000	0.0001	0.6
RB	6	2.500000	0.416667	1.000	0.4481	0.8
AB	12	845.000000	70.416667	169.000	0.0001	1.1
RAB	24	10.000000	0.416667			

FACTORIAL/POOLED ERROR AOV For SESAME CHLOR/NEC PERCENT Aug/06/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	1354.583333				
R	2	0.833333	0.416667	1.000	0.3774	0.4
A	4	281.666667	70.416667	169.000	0.0001	0.5
B	3	211.250000	70.416667	169.000	0.0001	0.5
AB	12	845.000000	70.416667	169.000	0.0001	1.1
ERROR	38	15.833333	0.416667			

COMPLETE FACTORIAL AOV For SESAME STUNT PERCENT Aug/06/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	3360.000000				
R	2	10.000000	5.000000	1.714	0.2014	1.1
A	4	626.666667	156.666667	53.714	0.0001	1.6
RA	8	23.333333	2.916667	1.000	0.4613	2.5
B	3	720.000000	240.000000	48.000	0.0001	2.0
RB	6	30.000000	5.000000	1.714	0.1608	2.2
AB	12	1880.000000	156.666667	53.714	0.0001	2.9
RAB	24	70.000000	2.916667			

FACTORIAL/POOLED ERROR AOV For SESAME STUNT PERCENT Aug/06/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	3360.000000				
R	2	10.000000	5.000000	1.541	0.2273	1.2
A	4	626.666667	156.666667	48.270	0.0001	1.5
B	3	720.000000	240.000000	73.946	0.0001	1.3
AB	12	1880.000000	156.666667	48.270	0.0001	3.0
ERROR	38	123.333333	3.245614			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For SESAME INJURY PERCENT Aug/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	1748.333333				
R	2	3.333333	1.666667	1.000	0.3827	0.8
A	4	719.166667	179.791667	107.875	0.0001	1.2
RA	8	13.333333	1.666667	1.000	0.4613	1.9
B	3	215.000000	71.666667	43.000	0.0002	1.2
RB	6	10.000000	1.666667	1.000	0.4481	1.7
AB	12	747.500000	62.291667	37.375	0.0001	2.2
RAB	24	40.000000	1.666667			

FACTORIAL/POOLED ERROR AOV For SESAME INJURY PERCENT Aug/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	1748.333333				
R	2	3.333333	1.666667	1.000	0.3774	0.8
A	4	719.166667	179.791667	107.875	0.0001	1.1
B	3	215.000000	71.666667	43.000	0.0001	1.0
AB	12	747.500000	62.291667	37.375	0.0001	2.1
ERROR	38	63.333333	1.666667			

COMPLETE FACTORIAL AOV For SESAME CHLOR/NEC PERCENT Aug/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	498.933333				
R	2	0.633333	0.316667	1.000	0.3827	0.4
A	4	180.266667	45.066667	142.316	0.0001	0.5
RA	8	2.533333	0.316667	1.000	0.4613	0.8
B	3	61.200000	20.400000	64.421	0.0001	0.5
RB	6	1.900000	0.316667	1.000	0.4481	0.7
AB	12	244.800000	20.400000	64.421	0.0001	0.9
RAB	24	7.600000	0.316667			

FACTORIAL/POOLED ERROR AOV For SESAME CHLOR/NEC PERCENT Aug/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	498.933333				
R	2	0.633333	0.316667	1.000	0.3774	0.4
A	4	180.266667	45.066667	142.316	0.0001	0.5
B	3	61.200000	20.400000	64.421	0.0001	0.4
AB	12	244.800000	20.400000	64.421	0.0001	0.9
ERROR	38	12.033333	0.316667			

COMPLETE FACTORIAL AOV For SESAME STUNT PERCENT Aug/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	854.583333				
R	2	3.333333	1.666667	1.333	0.2824	0.7
A	4	231.666667	57.916667	34.750	0.0001	1.2
RA	8	13.333333	1.666667	1.333	0.2749	1.6
B	3	137.916667	45.972222	82.750	0.0001	0.7
RB	6	3.333333	0.555556	0.444	0.8416	1.5
AB	12	435.000000	36.250000	29.000	0.0001	1.9
RAB	24	30.000000	1.250000			

FACTORIAL/POOLED ERROR AOV For SESAME STUNT PERCENT Aug/20/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	854.583333				
R	2	3.333333	1.666667	1.357	0.2696	0.7
A	4	231.666667	57.916667	47.161	0.0001	0.9
B	3	137.916667	45.972222	37.435	0.0001	0.8
AB	12	435.000000	36.250000	29.518	0.0001	1.8
ERROR	38	46.666667	1.228070			

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

SESAME SESAME SESAME
INJURY INJURY INJURY
PERCENT PERCENT PERCENT
Sep/03/09 Sep/18/09 Oct/01/09

Trt	Treatment	Rate	Unit	Product	Product	Grow
No.	Name	Rate	Unit	Rate	Unit	Stg

TABLE OF R MEANS

Replicate 1						5.7	5.0	4.9
Replicate 2						4.5	4.0	2.7
Replicate 3						6.3	5.0	3.8

TABLE OF A MEANS

1 UNTREATED CHECK						0.0	0.0	0.0
2 SELECT	0.188	lb ai/a		12 oz/a		7.8	10.0	13.3
2 COC		1 % v/v		12.8 oz/a				
3 DIREX		1 lb ai/a		1 qt/a		18.1	10.6	3.3
3 COC		1 % v/v		12.8 oz/a				
4 FUSILADE DX	0.188	lb ai/a		12 oz/a		1.7	2.7	1.3
4 COC		1 % v/v		12.8 oz/a				
5 POAST PLUS	0.187	lb ai/a		1.5 pt/a		0.0	0.0	0.8
5 COC		1 % v/v		12.8 oz/a				

TABLE OF B MEANS

1 4 WAP				4 WAP		5.3	2.3	1.8
2 6 WAP				6 WAP		9.7	8.5	7.5
3 8 WAP				8 WAP		1.5	6.5	4.5
4 10 WAP				10 WAP		.	1.3	1.3

TABLE OF AB MEANS

1 UNTREATED CHECK						0.0	0.0	0.0
1 4 WAP				4 WAP				
2 SELECT	0.188	lb ai/a		12 oz/a		0.0	0.0	6.7
2 COC		1 % v/v		12.8 oz/a				
1 4 WAP				4 WAP				
3 DIREX		1 lb ai/a		1 qt/a		26.7	11.7	2.3
3 COC		1 % v/v		12.8 oz/a				
1 4 WAP				4 WAP				
4 FUSILADE DX	0.188	lb ai/a		12 oz/a		0.0	0.0	0.0
4 COC		1 % v/v		12.8 oz/a				
1 4 WAP				4 WAP				
5 POAST PLUS	0.187	lb ai/a		1.5 pt/a		0.0	0.0	0.0
5 COC		1 % v/v		12.8 oz/a				
1 4 WAP				4 WAP				
1 UNTREATED CHECK						0.0	0.0	0.0
2 6 WAP				6 WAP				
2 SELECT	0.188	lb ai/a		12 oz/a		23.3	23.3	28.3
2 COC		1 % v/v		12.8 oz/a				
2 6 WAP				6 WAP				
3 DIREX		1 lb ai/a		1 qt/a		20.0	13.3	4.0
3 COC		1 % v/v		12.8 oz/a				
2 6 WAP				6 WAP				
4 FUSILADE DX	0.188	lb ai/a		12 oz/a		5.0	5.7	3.3
4 COC		1 % v/v		12.8 oz/a				
2 6 WAP				6 WAP				
5 POAST PLUS	0.187	lb ai/a		1.5 pt/a		0.0	0.0	1.7
5 COC		1 % v/v		12.8 oz/a				
2 6 WAP				6 WAP				
1 UNTREATED CHECK						0.0	0.0	0.0
3 8 WAP				8 WAP				
2 SELECT	0.188	lb ai/a		12 oz/a		0.0	16.7	15.0
2 COC		1 % v/v		12.8 oz/a				
3 8 WAP				8 WAP				
3 DIREX		1 lb ai/a		1 qt/a		7.7	10.7	4.0
3 COC		1 % v/v		12.8 oz/a				
3 8 WAP				8 WAP				
4 FUSILADE DX	0.188	lb ai/a		12 oz/a		0.0	5.0	2.0
4 COC		1 % v/v		12.8 oz/a				
3 8 WAP				8 WAP				
5 POAST PLUS	0.187	lb ai/a		1.5 pt/a		0.0	0.0	1.7
5 COC		1 % v/v		12.8 oz/a				
3 8 WAP				8 WAP				
1 UNTREATED CHECK						.	0.0	0.0
4 10 WAP				10 WAP				

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

SESAME SESAME SESAME
INJURY INJURY INJURY
PERCENT PERCENT PERCENT
Sep/03/09 Sep/18/09 Oct/01/09

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg			
2	SELECT	0.188	lb ai/a	12	oz/a		.	0.0	3.3
2	COC	1	% v/v	12.8	oz/a				
4	10 WAP					10 WAP			
3	DIREX	1	lb ai/a	1	qt/a		.	6.7	3.0
3	COC	1	% v/v	12.8	oz/a				
4	10 WAP					10 WAP			
4	FUSILADE DX	0.188	lb ai/a	12	oz/a		.	0.0	0.0
4	COC	1	% v/v	12.8	oz/a				
4	10 WAP					10 WAP			
5	POAST PLUS	0.187	lb ai/a	1.5	pt/a		.	0.0	0.0
5	COC	1	% v/v	12.8	oz/a				
4	10 WAP					10 WAP			

Texas Agricultural Experiment Station

SESAME POST HERBICIDE STUDY - II

Trial ID: 159F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For SESAME INJURY PERCENT Sep/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	4338.933333				
R	2	18.633333	9.316667	3.690	0.0401	1.0
A	4	1616.100000	404.025000	199.519	0.0001	1.3
RA	8	16.200000	2.025000	0.802	0.6069	2.3
B	3	838.533333	279.511111	33.165	0.0004	2.6
RB	6	50.566667	8.427778	3.338	0.0156	2.1
AB	12	1738.300000	144.858333	57.370	0.0001	2.7
RAB	24	60.600000	2.525000			

FACTORIAL/POOLED ERROR AOV For SESAME INJURY PERCENT Sep/03/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	4338.933333				
R	2	18.633333	9.316667	2.780	0.0747	1.2
A	4	1616.100000	404.025000	120.541	0.0001	1.5
B	3	838.533333	279.511111	83.392	0.0001	1.4
AB	12	1738.300000	144.858333	43.219	0.0001	3.0
ERROR	38	127.366667	3.351754			

COMPLETE FACTORIAL AOV For SESAME INJURY PERCENT Sep/18/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	2895.650000				
R	2	12.700000	6.350000	2.168	0.1363	1.1
A	4	1332.066667	333.016667	93.043	0.0001	1.8
RA	8	28.633333	3.579167	1.222	0.3286	2.5
B	3	513.516667	171.172222	37.991	0.0003	1.9
RB	6	27.033333	4.505556	1.538	0.2086	2.2
AB	12	911.400000	75.950000	25.929	0.0001	2.9
RAB	24	70.300000	2.929167			

FACTORIAL/POOLED ERROR AOV For SESAME INJURY PERCENT Sep/18/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	2895.650000				
R	2	12.700000	6.350000	1.916	0.1612	1.2
A	4	1332.066667	333.016667	100.460	0.0001	1.5
B	3	513.516667	171.172222	51.637	0.0001	1.3
AB	12	911.400000	75.950000	22.912	0.0001	3.0
ERROR	38	125.966667	3.314912			

COMPLETE FACTORIAL AOV For SESAME INJURY PERCENT Oct/01/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	2830.733333				
R	2	48.433333	24.216667	8.228	0.0019	1.1
A	4	1445.066667	361.266667	28.549	0.0001	3.3
RA	8	101.233333	12.654167	4.300	0.0025	2.5
B	3	365.933333	121.977778	70.598	0.0001	1.2
RB	6	10.366667	1.727778	0.587	0.7372	2.2
AB	12	789.066667	65.755556	22.343	0.0001	2.9
RAB	24	70.633333	2.943056			

FACTORIAL/POOLED ERROR AOV For SESAME INJURY PERCENT Oct/01/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	59	2830.733333				
R	2	48.433333	24.216667	5.050	0.0114	1.4
A	4	1445.066667	361.266667	75.333	0.0001	1.8
B	3	365.933333	121.977778	25.435	0.0001	1.6
AB	12	789.066667	65.755556	13.712	0.0001	3.6
ERROR	38	182.233333	4.795614			

Texas Agricultural Experiment Station

SESAME POST HERBICIDE STUDY - II

Trial ID: 159F-09
Location: LORENZO-CHAPMANS

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LORENZO
State/Prov.: TEXAS

Initiation Date: Jul/23/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: STEVE CHAPMAN

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Planting Date: Jun/23/09
Row Spacing: 40 INCH

Variety: SESACO S32

SITE AND DESIGN

Plot Width, Unit: 13.33 FT

Plot Length, Unit: 27 FT

Reps: 3

Study Design: FACTORIAL

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Jul/23/09	Aug/06/09	Aug/20/09	Sep/03/09
Time of Day:	11:00 AM	8:30 AM	9:35 AM	9:50 AM
Application Method:	A - 4 WAP	B - 6WAP	C - 8WAP	D - 10WAP
Application Timing:	SPRAY	SPRAY	SPRAY	SPRAY
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	71 F	78 F	83.5 F	82 F
% Relative Humidity:	83	56	50	50
Wind Velocity, Unit:	7 MPH	6.6 MPH	4.4 MPH	3 MPH
Soil Temp., Unit:	74.3 F	81.6 F	82.2 F	79.9 F
Soil Moisture:	ADEQUATE	DRY	DRY	DRY
% Cloud Cover:	100	20	10	0

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Stage Scale:	SESAME	SESAME	SESAME	SESAME
Height, Unit:	4 IN	16 IN	29 IN	33 IN

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	25 PSI	24 PSI	28 PSI	25 PSI
Nozzle Type:	TURBOTEE	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN	19 IN
Boom Height, Unit:	22 IN	34 IN	40 IN	50 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA	10 GPA
Propellant:	CO2	CO2	CO2	CO2

Texas Agricultural Experiment Station

COTTON - POST - WINFIELD SOLUTIONS

Trial ID: 160F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code	PIGWEEED	PIGWEEED	
Rating Data Type	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	
Rating Date	Jun/24/09	Jul/01/09	

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description		
1	UNTREATED					0.0 d	0.0 c
2	ROUNDUP POWERMAX	22	oz/a	A	POST	100.0 a	100.0 a
3	CLASS ACT NG	2.5	% v/v	A	POST	99.7 a	99.0 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
4	ROUNDUP POWERMAX	22	oz/a	A	POST	91.7 c	90.0 b
	AGM 06018	3	pt/a	A	POST		
5	CLASS ACT NG	1.25	% v/v	A	POST	96.3 b	96.7 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	3	pt/a	A	POST		
6	CLASS ACT NG	2.5	% v/v	A	POST	100.0 a	100.0 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	3	pt/a	A	POST		
7	CLASS ACT NG	3.5	% v/v	A	POST	100.0 a	98.3 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	3	pt/a	A	POST		
8	CLASS ACT NG	5	% v/v	A	POST	100.0 a	100.0 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	3	pt/a	A	POST		
9	ROUNDUP POWERMAX	22	oz/a	A	POST	98.3 ab	99.0 a
	AGM 06018	1.5	pt/a	A	POST		
10	CLASS ACT NG	1.25	% v/v	A	POST	100.0 a	100.0 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	1.5	pt/a	A	POST		
11	CLASS ACT NG	2	% v/v	A	POST	100.0 a	99.7 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	1.5	pt/a	A	POST		
12	CLASS ACT NG	2.5	% v/v	A	POST	100.0 a	99.7 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	1.5	pt/a	A	POST		
13	CLASS ACT NG	3.5	% v/v	A	POST	99.3 a	98.7 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	1.5	pt/a	A	POST		
14	CLASS ACT NG	2.5	% v/v	A	POST	99.3 a	99.0 a
	ROUNDUP POWERMAX	22	oz/a	A	POST		
	AGM 06018	1.5	pt/a	A	POST		
	INTERLOC	4	oz/a	A	POST		
LSD (P=.05)						2.07	3.33
Standard Deviation						1.23	1.98
CV						1.34	2.17
Bartlett's X2						8.612	16.56
P(Bartlett's X2)						0.126	0.035*
Replicate F						0.204	2.414
Replicate Prob(F)						0.8165	0.1093
Treatment F						1392.024	532.983
Treatment Prob(F)						0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

COTTON - POST - WINFIELD SOLUTIONS

Trial ID: 160F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMARANTHUS PALMERI

COTTON Variety: PM 2140 B2RF
Planting Date: May/19/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A
Application Date: Jun/16/09
Time of Day: 3:30 PM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 99 F
% Relative Humidity: 25
Wind Velocity, Unit: 1.5 MPH
Soil Temp., Unit: 95 F
Soil Moisture: ADEQUATE
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
COTTON
Stage Scale: 2 LEAF

WEED STAGE AT EACH APPLICATION

A
PIGWEEED
Stage Scale: 4-6"

APPLICATION EQUIPMENT

A
Appl. Equipment: TRACTOR
Operating Pressure: 30
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

SYNGENTA - GRAIN SORGHUM

Trial ID: 162F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code				SORGHUM			PIGWEEED		PIGWEEED		PIGWEEED	
Crop Code				SORGHUM			SORGHUM		SORGHUM		SORGHUM	
Rating Data Type				INJURY			INJURY		CONTROL		INJURY	
Rating Unit				PERCENT			PERCENT		PERCENT		PERCENT	
Rating Date				Jun/08/09			Jun/16/09		Jun/16/09		Jun/24/09	
Trt Treatment				Rate			Appl		Appl		Rate	
No. Name				Rate Unit			Code		Description			
1	UNTREATED											
2	LUMAX	1.5 qt/a	A	0.5-1" SORGHUM	8.8 a	5.0 a	100.0 a	5.0 a	100.0 a	0.0 a	100.0 a	0.0 d
3	DUAL MAGNUM	1 pt/a	A	0.5-1" SORGHUM	0.0 b	0.0 b	96.0 a	0.0 b	95.3 b	0.0 a	90.0 b	0.0 a
4	LUMAX	1.5 qt/a	B	3" SORGHUM	0.0 b	0.0 b	96.3 a	0.0 b	97.8 ab	0.0 a	97.3 a	0.0 a
5	DUAL MAGNUM	1 pt/a	B	3" SORGHUM	0.0 b	0.0 b	77.5 b	0.0 b	75.0 c	0.0 a	70.0 c	0.0 a
6	PEAK	0.5 oz/a	C	5-12" SORGHUM	0.0 b	0.0 b	0.0 c	0.0 b	99.3 a	0.0 a	100.0 a	0.0 a
	DUAL MAGNUM	1 pt/a	C	5-12" SORGHUM								
	AATREX 4L	1 qt/a	C	5-12" SORGHUM								
	AGRIDEX	1 % v/v	C	5-12" SORGHUM								
LSD (P=.05)					1.54	3.55	6.80	2.51	3.75	0.00	3.56	
Standard Deviation					1.02	2.36	4.51	1.67	2.49	0.00	2.37	
CV					69.99	282.84	7.32	200.0	3.19	0.0	3.1	
Bartlett's X2					0.0	0.0	2.566	0.0	4.905	0.0	0.087	
P(Bartlett's X2)					.	.	0.277	.	0.179	.	0.767	
Replicate F					1.000	1.000	1.409	1.000	2.557	0.000	2.191	
Replicate Prob(F)					0.4199	0.4199	0.2790	0.4199	0.0941	1.0000	0.1315	
Treatment F					49.000	3.000	459.405	6.000	997.860	0.000	1087.869	
Treatment Prob(F)					0.0001	0.0450	0.0001	0.0030	0.0001	1.0000	0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SYNGENTA - GRAIN SORGHUM

Trial ID: 162F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMERANTHUS PALMERI

SORGHUM Variety: DK 44-20
Planting Date: May/21/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May/28/09	Jun/10/09	Jun/18/09
Time of Day:	9:30 AM	11:00 AM	12:30 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	EPOST	MPOST	LPOST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	68.8 F	70 F	84 F
% Relative Humidity:	66	95	53
Wind Velocity, Unit:	2 MPH	6 MPH	10 MPH
Soil Temp., Unit:	65.3 F	71 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	100	75

CROP STAGE AT EACH APPLICATION

	A	B	C
	SORGHUM	SORGHUM	SORGHUM
Stage Scale:	0.5-1"	3"	8"

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	TRACTOR	BACKPACK
Operating Pressure:	23	30	23
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	AIR

Texas Agricultural Experiment Station

SYNGENTA - RR CORN CONTROL

Trial ID: 163F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Crop Code	CORN	CORN	CORN	CORN
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	CONTROL	CONTROL
Rating Date	May/19/09	May/21/09	May/28/09	Jun/11/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description				
1	UNTREATED CHECK					0.0 b	0.0 b	0.0 b	0.0 b
2	GRAMOXONE INTEON	32	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	99.3 a
3	GRAMOXONE INTEON	40	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	99.0 a
4	GRAMOXONE INTEON	32	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	100.0 a
	AATREX	16	oz/a	A	V2 CORN				
	COC	1	% v/v	A	V2 CORN				
5	GRAMOXONE INTEON	40	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	100.0 a
	AATREX	16	oz/a	A	V2 CORN				
	COC	1	% v/v	A	V2 CORN				
6	GRAMOXONE INTEON	32	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	100.0 a
	AATREX	16	oz/a	A	V2 CORN				
	NIS	0.25	% v/v	A	V2 CORN				
7	GRAMOXONE INTEON	40	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	100.0 a
	AATREX	16	oz/a	A	V2 CORN				
	NIS	0.25	% v/v	A	V2 CORN				
8	GRAMOXONE INTEON	32	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	100.0 a
	SENCOR	5.33	oz/a	A	V2 CORN				
	COC	1	% v/v	A	V2 CORN				
9	GRAMOXONE INTEON	32	oz/a	A	V2 CORN	100.0 a	100.0 a	100.0 a	100.0 a
	SENCOR	5.33	oz/a	A	V2 CORN				
	COC	1	% v/v	A	V2 CORN				
LSD (P=.05)						0.00	0.00	0.00	1.03
Standard Deviation						0.00	0.00	0.00	0.60
CV						0.0	0.0	0.0	0.67
Bartlett's X2						0.0	0.0	0.0	1.988
P(Bartlett's X2)						.	.	.	0.159
Replicate F						0.000	0.000	0.000	1.351
Replicate Prob(F)						1.0000	1.0000	1.0000	0.2871
Treatment F						0.000	0.000	0.000	9312.884
Treatment Prob(F)						1.0000	1.0000	1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

SYNGENTA - RR CORN CONTROL

Trial ID: 163F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
CORN ZEA MAYS

Planting Date: Apr/27/09 Variety: DK C69-40

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

Application Date: May/14/09
Time of Day: 4:30 PM
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 85 F
% Relative Humidity: 44
Wind Velocity, Unit: 6 MPH
Soil Temp., Unit: 75 F
Soil Moisture: ADEQUATE
% Cloud Cover: 90

WEED STAGE AT EACH APPLICATION

Stage Scale: A
CORN
V2

APPLICATION EQUIPMENT

Appl. Equipment: A
BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

PROPAZINE - COTTON POST - CROP TOLERANCE

Trial ID: 164F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code				PIGWEEED		PIGWEEED		PIGWEEED		PIGWEEED	
Crop Code				COTTON		COTTON				COTTON	
Part Rated											
Rating Data Type				INJURY		INJURY		#/M2		INJURY	
Rating Unit				PERCENT		PERCENT		PERCENT		PERCENT	
Rating Date				Jun/24/09		Jul/01/09		Jul/01/09		Jul/15/09	
Trt	Treatment	Rate	Rate	Appl							
No.	Name		Unit	Code							
1	UNTREATED				0.0 b	0.0 c	0.0 b	0.0 d	19.7 a	0.0 d	0.0 d
2	ROUNDUP POWERMAX	0.75	lb ae/a B		0.0 b	100.0 a	0.0 b	83.3 b	13.3 b	65.0 b	0.0 d
	ROUNDUP POWERMAX	0.75	lb ae/a C								99.0 ab
	ROUNDUP POWERMAX	0.75	lb ae/a D								
3	ROUNDUP POWERMAX	0.75	lb ae/a B		1.0 b	100.0 a	1.0 b	99.3 a	0.7 d	94.7 a	0.0 d
	MILO-PRO 4L	0.5	lb ai/a B								100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
4	ROUNDUP POWERMAX	0.75	lb ae/a B		6.0 a	100.0 a	3.7 a	99.3 a	0.3 d	99.0 a	0.0 d
	MILO-PRO 4L	0.75	lb ai/a B								100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
5	ROUNDUP POWERMAX	0.75	lb ae/a B		6.7 a	100.0 a	3.7 a	99.7 a	0.3 d	99.3 a	0.0 d
	MILO-PRO 4L	1	lb ai/a B								100.0 a
	ROUNDUP POWERMAX	0.75	lb ae/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
6	ROUNDUP POWERMAX	0.75	lb ae/a B		0.0 b	100.0 a	0.0 b	80.0 bc	14.0 b	66.7 b	7.7 b
	ROUNDUP POWERMAX	0.75	lb ae/a C								98.7 abc
	MILO-PRO 4L	0.5	lb ai/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
7	ROUNDUP POWERMAX	0.75	lb ae/a B		0.0 b	100.0 a	0.0 b	80.0 bc	14.3 b	65.0 b	11.7 a
	ROUNDUP POWERMAX	0.75	lb ae/a C								96.7 c
	MILO-PRO 4L	0.75	lb ai/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
8	ROUNDUP POWERMAX	0.75	lb ae/a B		0.0 b	100.0 a	0.0 b	80.0 bc	16.0 ab	63.3 bc	10.0 ab
	ROUNDUP POWERMAX	0.75	lb ae/a C								97.3 bc
	MILO-PRO 4L	1	lb ai/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
9	ROUNDUP POWERMAX	0.75	lb ae/a B		0.0 b	100.0 a	0.0 b	80.0 bc	16.3 ab	56.7 c	3.0 c
	ROUNDUP POWERMAX	0.75	lb ae/a C								98.3 abc
	DUAL II MAGNUM	1.27	lb ai/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
10	PROWL H2O	0.7125	lb ae/a A		0.0 b	80.0 b	0.0 b	79.0 bc	8.3 c	65.0 b	0.0 d
	COTORAN 4	1	lb ai/a A								98.7 abc
	ROUNDUP POWERMAX	0.75	lb ae/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
11	PROWL H2O	0.7125	lb ae/a A		0.0 b	80.0 b	0.0 b	78.3 c	7.7 c	65.0 b	10.0 ab
	COTORAN 4	1	lb ai/a A								99.0 ab
	ROUNDUP POWERMAX	0.75	lb ae/a C								
	MILO-PRO 4L	1	lb ai/a C								
	ROUNDUP POWERMAX	0.75	lb ae/a D								
LSD (P=.05)					2.57	2.57	1.22	4.05	3.71	6.97	2.49
Standard Deviation					1.51	1.51	0.71	2.38	2.18	4.09	1.46
CV					121.66	1.73	94.18	3.05	21.61	6.09	37.98
Bartlett's X2					0.953	0.0	0.45	13.213	15.152	11.958	0.217
P(Bartlett's X2)					0.621	.	0.799	0.021*	0.127	0.102	0.641
Replicate F					0.650	1.000	1.131	0.016	0.306	4.655	1.546
Replicate Prob(F)					0.5328	0.3855	0.3425	0.9841	0.7398	0.0219	0.2375
Treatment F					8.464	1190.400	12.714	398.181	31.396	133.496	33.838
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Weed Code				PIGWEEED		PIGWEEED		PIGWEEED		
Crop Code				COTTON		COTTON		COTTON		COTTON
Part Rated										LINT
Rating Data Type				INJURY		INJURY		INJURY		YIELD
Rating Unit				PERCENT		PERCENT		PERCENT		LBS/ACRE
Rating Date				Jul/24/09		Aug/06/09		Aug/10/09		Nov/03/09
Trt	Treatment	Rate	Rate	Appl						
No.	Name		Unit	Code						
1	UNTREATED				0.0 b	0.0 d	0.0 c	0.0 e	0.0 b	52.7 b
2	ROUNDUP POWERMAX	0.75 lb ae/a	B		0.0 b	96.7 bc	0.0 c	82.7 d	0.0 b	627.7 a
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
3	ROUNDUP POWERMAX	0.75 lb ae/a	B		0.0 b	99.7 ab	0.0 c	95.0 abc	0.0 b	685.0 a
	MILO-PRO 4L	0.5 lb ai/a	B							
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
4	ROUNDUP POWERMAX	0.75 lb ae/a	B		0.0 b	100.0 a	0.0 c	98.3 ab	0.0 b	642.0 a
	MILO-PRO 4L	0.75 lb ai/a	B							
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
5	ROUNDUP POWERMAX	0.75 lb ae/a	B		0.0 b	100.0 a	0.0 c	98.7 a	0.0 b	546.3 a
	MILO-PRO 4L	1 lb ai/a	B							
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
6	ROUNDUP POWERMAX	0.75 lb ae/a	B		6.7 a	98.3 abc	5.0 b	97.0 ab	3.3 a	656.3 a
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	MILO-PRO 4L	0.5 lb ai/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
7	ROUNDUP POWERMAX	0.75 lb ae/a	B		8.3 a	96.0 c	6.7 ab	93.3 bc	3.7 a	620.3 a
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	MILO-PRO 4L	0.75 lb ai/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
8	ROUNDUP POWERMAX	0.75 lb ae/a	B		7.7 a	96.0 c	7.7 a	91.7 c	3.3 a	524.7 a
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	MILO-PRO 4L	1 lb ai/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
9	ROUNDUP POWERMAX	0.75 lb ae/a	B		0.0 b	97.3 abc	0.0 c	90.7 c	0.0 b	562.7 a
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	DUAL II MAGNUM	1.27 lb ai/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
10	PROWL H2O	0.7125 lb ae/a	A		0.0 b	97.7 abc	0.0 c	97.0 ab	0.0 b	589.0 a
	COTORAN 4	1 lb ai/a	A							
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
11	PROWL H2O	0.7125 lb ae/a	A		6.0 a	98.0 abc	5.0 b	97.3 ab	3.7 a	673.3 a
	COTORAN 4	1 lb ai/a	A							
	ROUNDUP POWERMAX	0.75 lb ae/a	C							
	MILO-PRO 4L	1 lb ai/a	C							
	ROUNDUP POWERMAX	0.75 lb ae/a	D							
LSD (P=.05)					2.62	2.72	1.89	4.51	2.06	149.11
Standard Deviation					1.54	1.60	1.11	2.65	1.21	87.55
CV					58.96	1.79	50.08	3.09	94.96	15.58
Bartlett's X2					0.572	6.141	0.037	15.698	2.813	14.098
P(Bartlett's X2)					0.903	0.523	0.848	0.073	0.421	0.169
Replicate F					1.014	4.745	1.951	4.756	3.237	0.456
Replicate Prob(F)					0.3806	0.0206	0.1683	0.0204	0.0606	0.6401
Treatment F					17.024	1027.132	24.296	354.578	6.427	89941.009
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0002	0.0001

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Texas Agricultural Experiment Station

PROPAZINE - COTTON POST - CROP TOLERANCE

Trial ID: 164F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Common Name Scientific Name
PIGWEEED AMERANTHUS PALMERI

Crop 1: GOSHI COTTON
Planting Date: May/19/09

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	May/22/09	Jun/16/09	Jul/09/09	Aug/04/09
Time of Day:	2:45 PM	3:05 PM	11:00 AM	11:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	A-PRE	EPOST	MPOST	LPOST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	79 F	99 F	94 F	95 F
% Relative Humidity:	43	25	45	30
Wind Velocity, Unit:	4 MPH	1.5 MPH	1 MPH	3 MPH
Soil Temp., Unit:	76 F	95 F	80 F	90 F
Soil Moisture:	DRY	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	90	0	20	10

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GOSHI COTTON	GOSHI COTTON	GOSHI	GOSHI COTTON
Stage Scale:	PRE	2 LEAF	10 NODE	14-16NODE

WEED STAGE AT EACH APPLICATION

	A	B	C	D
	PIGWEEED	PIGWEEED	PIGWEEED	PIGWEEED
Stage Scale:	N/A	4-6"	2-4"	2-4"

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	TRACTOR	TRACTOR	TRACTOR	TRACTOR
Operating Pressure:	30	30	30	30
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	110015	110015	110015	110015
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA	10 GPA
Propellant:	AIR	AIR	AIR	AIR

Texas Agricultural Experiment Station

SESAME DESICCATION STUDY

Trial ID: 165F-09

Study Dir.: DR. PETER DOTRAY

Location: LORENZO

Investigator: Dr. Wayne Keeling

Crop Code							SESAME	SESAME	SESAME	SESAME	SESAME
Rating Data Type							DRYNESS	CHLOR/NEC	DRYNESS	DRYNESS	DRYNESS
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							Oct/15/09	Oct/15/09	Oct/23/09	Oct/30/09	Nov/04/09
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
TABLE OF R MEANS											
Replicate 1							13.3	21.1	41.7	91.7	98.9
Replicate 2							11.7	20.0	42.5	91.4	99.2
Replicate 3							9.8	19.4	41.4	91.3	99.3
TABLE OF A MEANS											
1	ROUNDUP POWERMAX	0.56	lb ae/a	16	oz/a			3.3	3.3	15.0	89.3
2	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a			6.7	8.3	19.2	87.8
3	REGLONE	0.25	lb ai/a	16	oz/a			13.3	26.7	55.0	95.8
3	NIS	0.25	% v/v	3.2	oz/a						
4	REGLONE	0.5	lb ai/a	32	oz/a			33.3	65.0	65.0	97.8
4	NIS	0.25	% v/v	3.2	oz/a						
5	IGNITE 280	0.42	lb ai/a	23	oz/a			3.3	5.0	60.8	94.1
5	NIS	0.25	% v/v	3.2	oz/a						100.0
6	IGNITE 280	0.52	lb ai/a	28.6	oz/a			6.0	10.0	75.8	93.9
6	NIS	0.25	% v/v	3.2	oz/a						99.0
7	AIM	0.0234	lb ai/a	1.5	oz/a			6.7	10.0	17.5	83.9
7	COC	1	% v/v	12.8	oz/a						99.2
8	AIM	0.0313	lb ai/a	2	oz/a			5.0	8.3	16.7	82.8
8	COC	1	% v/v	12.8	oz/a						98.7
9	DEFOL 750	6	lb ai/a	3.2	qt/a			26.7	45.0	51.7	98.0
TABLE OF B MEANS											
1	PRE PM					PRE PM	A	11.6	20.2	54.3	93.6
2	PM					PM	B	.	.	29.4	94.5
3	POST PM					POST PM	C	.	.	.	86.4
TABLE OF AB MEANS											
1	ROUNDUP POWERMAX	0.56	lb ae/a	16	oz/a			3.3	3.3	16.7	86.7
1	PRE PM					PRE PM	A				99.7
2	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a			6.7	8.3	18.3	90.0
1	PRE PM					PRE PM	A				.
3	REGLONE	0.25	lb ai/a	16	oz/a			13.3	26.7	76.7	99.3
3	NIS	0.25	% v/v	3.2	oz/a						.
1	PRE PM					PRE PM	A				
4	REGLONE	0.5	lb ai/a	32	oz/a			33.3	65.0	86.7	100.0
4	NIS	0.25	% v/v	3.2	oz/a						.
1	PRE PM					PRE PM	A				
5	IGNITE 280	0.42	lb ai/a	23	oz/a			3.3	5.0	88.3	100.0
5	NIS	0.25	% v/v	3.2	oz/a						.
1	PRE PM					PRE PM	A				
6	IGNITE 280	0.52	lb ai/a	28.6	oz/a			6.0	10.0	93.3	100.0
6	NIS	0.25	% v/v	3.2	oz/a						.
1	PRE PM					PRE PM	A				
7	AIM	0.0234	lb ai/a	1.5	oz/a			6.7	10.0	20.0	86.7
7	COC	1	% v/v	12.8	oz/a						99.0
1	PRE PM					PRE PM	A				
8	AIM	0.0313	lb ai/a	2	oz/a			5.0	8.3	20.0	80.0
8	COC	1	% v/v	12.8	oz/a						98.0
1	PRE PM					PRE PM	A				
9	DEFOL 750	6	lb ai/a	3.2	qt/a			26.7	45.0	68.3	99.3
1	PRE PM					PRE PM	A				.
1	ROUNDUP POWERMAX	0.56	lb ae/a	16	oz/a			.	.	13.3	96.3
2	PM					PM	B				.
2	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a			.	.	20.0	91.7
2	PM					PM	B				.
3	REGLONE	0.25	lb ai/a	16	oz/a			.	.	33.3	99.7
3	NIS	0.25	% v/v	3.2	oz/a						.
2	PM					PM	B				
4	REGLONE	0.5	lb ai/a	32	oz/a			.	.	43.3	100.0
4	NIS	0.25	% v/v	3.2	oz/a						.
2	PM					PM	B				
5	IGNITE 280	0.42	lb ai/a	23	oz/a			.	.	33.3	100.0
5	NIS	0.25	% v/v	3.2	oz/a						.
2	PM					PM	275 B				

Texas Agricultural Experiment Station

Crop Code
Rating Data Type
Rating Unit
Rating Date

SESAME
DRYNESS
PERCENT
Oct/15/09

SESAME
CHLOR/NEC
PERCENT
Oct/15/09

SESAME
DRYNESS
PERCENT
Oct/23/09

SESAME
DRYNESS
PERCENT
Oct/30/09

SESAME
DRYNESS
PERCENT
Nov/04/09

Trt	Treatment										
No.	Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
6	IGNITE 280	0.52	lb ai/a	28.6	oz/a			.	.	58.3	100.0
6	NIS	0.25	% v/v	3.2	oz/a						.
2	PM					PM	B				
7	AIM	0.0234	lb ai/a	1.5	oz/a			.	.	15.0	81.7
7	COC	1	% v/v	12.8	oz/a						99.3
2	PM					PM	B				
8	AIM	0.0313	lb ai/a	2	oz/a			.	.	13.3	83.3
8	COC	1	% v/v	12.8	oz/a						99.7
2	PM					PM	B				
9	DEFOL 750	6	lb ai/a	3.2	qt/a			.	.	35.0	98.0
2	PM					PM	B				.
1	ROUNDUP POWERMAX	0.56	lb ae/a	16	oz/a			.	.	.	85.0
3	POST PM					POST PM	C				98.7
2	ROUNDUP POWERMAX	0.75	lb ae/a	21.3	oz/a			.	.	.	81.7
3	POST PM					POST PM	C				99.0
3	REGLONE	0.25	lb ai/a	16	oz/a			.	.	.	88.3
3	NIS	0.25	% v/v	3.2	oz/a						99.7
3	POST PM					POST PM	C				
4	REGLONE	0.5	lb ai/a	32	oz/a			.	.	.	93.3
4	NIS	0.25	% v/v	3.2	oz/a						.
3	POST PM					POST PM	C				
5	IGNITE 280	0.42	lb ai/a	23	oz/a			.	.	.	82.3
5	NIS	0.25	% v/v	3.2	oz/a						100.0
3	POST PM					POST PM	C				
6	IGNITE 280	0.52	lb ai/a	28.6	oz/a			.	.	.	81.7
6	NIS	0.25	% v/v	3.2	oz/a						99.0
3	POST PM					POST PM	C				
7	AIM	0.0234	lb ai/a	1.5	oz/a			.	.	.	83.3
7	COC	1	% v/v	12.8	oz/a						99.3
3	POST PM					POST PM	C				
8	AIM	0.0313	lb ai/a	2	oz/a			.	.	.	85.0
8	COC	1	% v/v	12.8	oz/a						98.3
3	POST PM					POST PM	C				
9	DEFOL 750	6	lb ai/a	3.2	qt/a			.	.	.	96.7
3	POST PM					POST PM	C				.

Texas Agricultural Experiment Station

SESAME DESICCATION STUDY

Trial ID: 165F-09
Location: LORENZO

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

COMPLETE FACTORIAL AOV For SESAME DRYNESS PERCENT Oct/15/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	5679.506173				
R	2	18.987654	9.493827	1.443	0.2511	1.4
A	8	962.617284	120.327160	18.295	0.0001	2.6
RA	16	105.234568	6.577160	1.000	0.4807	4.3
B	2	2418.987654	1209.493827	127.398	0.0002	2.3
RB	4	37.975309	9.493827	1.443	0.2424	2.5
AB	16	1925.234568	120.327160	18.295	0.0001	4.3
RAB	32	210.469136	6.577160			

FACTORIAL/POOLED ERROR AOV For SESAME DRYNESS PERCENT Oct/15/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	5679.506173				
R	2	18.987654	9.493827	1.396	0.2567	1.4
A	8	962.617284	120.327160	17.691	0.0001	2.5
B	2	2418.987654	1209.493827	177.827	0.0001	1.4
AB	16	1925.234568	120.327160	17.691	0.0001	4.3
ERROR	52	353.679012	6.801519			

COMPLETE FACTORIAL AOV For SESAME CHLOR/NEC PERCENT Oct/15/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	19408.024691				
R	2	4.320988	2.160494	0.098	0.9065	2.6
A	8	3669.135802	458.641975	20.893	0.0001	4.7
RA	16	351.234568	21.952160	1.000	0.4807	7.8
B	2	7333.950617	3666.975309	1697.286	0.0001	1.1
RB	4	8.641975	2.160494	0.098	0.9822	4.5
AB	16	7338.271605	458.641975	20.893	0.0001	7.8
RAB	32	702.469136	21.952160			

FACTORIAL/POOLED ERROR AOV For SESAME CHLOR/NEC PERCENT Oct/15/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	19408.024691				
R	2	4.320988	2.160494	0.106	0.8998	2.5
A	8	3669.135802	458.641975	22.450	0.0001	4.3
B	2	7333.950617	3666.975309	179.492	0.0001	2.5
AB	16	7338.271605	458.641975	22.450	0.0001	7.4
ERROR	52	1062.345679	20.429725			

COMPLETE FACTORIAL AOV For SESAME DRYNESS PERCENT Oct/23/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	74643.209877				
R	2	8.024691	4.012346	0.391	0.6796	1.8
A	8	19132.098765	2391.512346	151.190	0.0001	4.0
RA	16	253.086420	15.817901	1.541	0.1452	5.3
B	2	39841.358025	19920.679012	2933.773	0.0001	2.0
RB	4	27.160494	6.790123	0.662	0.6232	3.1
AB	16	15053.086420	940.817901	91.677	0.0001	5.3
RAB	32	328.395062	10.262346			

FACTORIAL/POOLED ERROR AOV For SESAME DRYNESS PERCENT Oct/23/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	74643.209877				
R	2	8.024691	4.012346	0.343	0.7114	1.9
A	8	19132.098765	2391.512346	204.322	0.0001	3.2
B	2	39841.358025	19920.679012	1701.945	0.0001	1.9
AB	16	15053.086420	940.817901	80.380	0.0001	5.6
ERROR	52	608.641975	11.704653			

Texas Agricultural Experiment Station

COMPLETE FACTORIAL AOV For SESAME DRYNESS PERCENT Oct/30/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	4808.222222				
R	2	2.296296	1.148148	0.181	0.8356	1.4
A	8	2385.333333	298.166667	68.225	0.0001	2.1
RA	16	69.925926	4.370370	0.687	0.7849	4.2
B	2	1070.518519	535.259259	79.407	0.0006	2.0
RB	4	26.962963	6.740741	1.060	0.3922	2.4
AB	16	1049.703704	65.606481	10.317	0.0001	4.2
RAB	32	203.481481	6.358796			

FACTORIAL/POOLED ERROR AOV For SESAME DRYNESS PERCENT Oct/30/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	4808.222222				
R	2	2.296296	1.148148	0.199	0.8204	1.3
A	8	2385.333333	298.166667	51.619	0.0001	2.3
B	2	1070.518519	535.259259	92.664	0.0001	1.3
AB	16	1049.703704	65.606481	11.358	0.0001	3.9
ERROR	52	300.370370	5.776353			

COMPLETE FACTORIAL AOV For SESAME DRYNESS PERCENT Nov/04/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	196598.691358				
R	2	0.469136	0.234568	0.640	0.5339	0.3
A	8	97836.691358	12229.586420	55417.990	0.0001	0.5
RA	16	3.530864	0.220679	0.602	0.8586	1.0
B	2	45826.395062	22913.197531	97682.588	0.0001	0.4
RB	4	0.938272	0.234568	0.640	0.6378	0.6
AB	16	52918.938272	3307.433642	9024.072	0.0001	1.0
RAB	32	11.728395	0.366512			

FACTORIAL/POOLED ERROR AOV For SESAME DRYNESS PERCENT Nov/04/09

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	80	196598.691358				
R	2	0.469136	0.234568	0.753	0.4760	0.3
A	8	97836.691358	12229.586420	39261.449	0.0001	0.5
B	2	45826.395062	22913.197531	73559.757	0.0001	0.3
AB	16	52918.938272	3307.433642	10618.073	0.0001	0.9
ERROR	52	16.197531	0.311491			

Texas Agricultural Experiment Station

SESAME DESICCATION STUDY

Trial ID: 165F-09
Location: LORENZO

Study Dir.: DR. PETER DOTRAY
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY
Affiliation: TEXAS AGRILIFE RESEARCH
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: LORENZO
State/Prov.: TX

Initiation Date: Oct/08/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: STEVE CHAPMAN

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Planting Date: Jun/23/09
Row Spacing: 40 INCH

Variety: SESACO S32

SITE AND DESIGN

Plot Width, Unit: 13.33 FT

Plot Length, Unit: 27 FT

Reps: 3

Study Design: FACTORIAL

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Oct/08/09	Oct/15/09	Oct/23/09
Time of Day:	3:00 PM	10:00 AM	9:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	A PRE PM	B PM	C POST PM
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	87.4 F	61.5 F	52.7 F
% Relative Humidity:	46	59	42.9
Wind Velocity, Unit:	3 MPH	6.5 MPH	5 MPH
Soil Temp., Unit:	72.6 F	65.1 F	51 F
Soil Moisture:	DRY	DRY	DRY
% Cloud Cover:	60	0	10

CROP STAGE AT EACH APPLICATION

	A	B	C
Stage Scale:	PRE PM	PM	POST PM
Height, Unit:	38 INCH		

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	28 PSI	30 PSI	25 PSI
Nozzle Type:	TURBOTEE	TURBOTEE	TURBOTEE
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Boom Height, Unit:	55 INCH	55 IN	55 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA
Propellant:	CO2	CO2	CO2

Treatment Application Comment

10/8 - PLANTS HAD EST. 80% LEAF DROP AND 20% YELLOW; MOSTLY LIGHT GREEN STEMS WITH LIGHT GREEN CAPSULES.
10/15 - SPRAYED MIDDLE TWO ROWS/UNTREATED PLOTS 5% DRY, 5% CHLOR/NEC
10/23 - SPRAYED MIDDLE TWO ROWS/UNTREATED PLOTS 10-15% DRYNESS

Texas Agricultural Experiment Station

YUKON - VOLUNTEER WHEAT CONTROL

Trial ID: 166F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

Weed Code	VOLWHEAT	VOLWHEAT	VOLWHEAT
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Sep/18/09	Sep/25/09	Oct/01/09

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Description			
1	UNTREATED					0.0 a	0.0 a	0.0 a
2	YUKON	3 oz/a	A	PRE		10.0 a	0.0 a	0.0 a
3	YUKON	4 oz/a	A	PRE		5.0 a	0.0 a	0.0 a
4	YUKON	6 oz/a	A	PRE		20.0 a	0.0 a	0.0 a
5	YUKON	3 oz/a	A	PRE		10.0 a	0.0 a	0.0 a
	MILO PRO	1 pt/a	A	PRE				
6	YUKON	4 oz/a	A	PRE		12.5 a	0.0 a	0.0 a
	MILO PRO	1 pt/a	A	PRE				
7	MILO PRO	1 pt/a	A	PRE		5.0 a	0.0 a	0.0 a
LSD (P=.05)						17.20	0.00	0.00
Standard Deviation						7.03	0.00	0.00
CV						78.72	0.0	0.0
Bartlett's X2						1.515	0.0	0.0
P(Bartlett's X2)						0.679	.	.
Replicate F						0.325	0.000	0.000
Replicate Prob(F)						0.5891	1.0000	1.0000
Treatment F						1.675	0.000	0.000
Treatment Prob(F)						0.2734	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

YUKON - VOLUNTEER WHEAT CONTROL

Trial ID: 166F-09
Location: HALFWAY

Study Dir.: WAYNE KEELING
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: WAYNE KEELING
Investigator: DR. WAYNE KEELING

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Common Name	Scientific Name
	VOLUNTEER WHEAT	TRITICUM AESTIVUM

SITE AND DESIGN

Plot Width, Unit: 13.33 FT Plot Length, Unit: 30 FT Reps: 3
Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:
PLOTS RECEIVED 0.5" IRRIGATION IMMEDIATELY AFTER PRE TREATMENTS

SOIL DESCRIPTION

Texture: CLAY LOAM
Soil Name: PULLMAN

APPLICATION DESCRIPTION

A
Application Date: Sep/10/09
Time of Day: 10:00 AM
Application Method: SPRAY
Application Timing: A - PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 70 F
% Relative Humidity: 75
Wind Velocity, Unit: 1 MPH
Soil Temp., Unit: 69 F
Soil Moisture: ADEQUATE
% Cloud Cover: 100

WEED STAGE AT EACH APPLICATION

A
VOL WHEAT
Stage Scale: PRE

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 23
Nozzle Type: TURBO TEE
Nozzle Size: 110015
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 10 GPA
Propellant: AIR

Texas Agricultural Experiment Station

HOCKLEY/COCHRAN COUNTY VALOR LARGE PLOT

Trial ID: HOCKLEY CO VALOR

Location: MORTON

Study Dir.: DR. PETER DOTRAY/KERRY SIDERS

Investigator: Dr. Wayne Keeling

Weed Code												
Crop Code												
Rating Data Type												
Rating Unit												
Rating Date												
Trt-Eval Interval												
Trt	Treatment	Rate	Product	Product	Grow	Appl						
No.	Name	Rate	Unit	Rate	Rate	Unit	Stg	Code				
	1 UNTREATED											
	2 VALOR	0.064	lb ai/a	2	oz/a		PRE	A				
	LSD (P=.05)											
	Standard Deviation											
	CV											
	Bartlett's X2											
	P(Bartlett's X2)											
	Replicate F											
	Replicate Prob(F)											
	Treatment F											
	Treatment Prob(F)											

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

Weed Code
 Crop Code PEANUT
 Rating Data Type YIELD
 Rating Unit LB/ACRE
 Rating Date Oct/28/09
 Trt-Eval Interval 177 DA-A

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code
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1	UNTREATED						4980.7 a
2	VALOR	0.064	lb ai/a	2	oz/a	PRE A	5724.7 a
LSD (P=.05)							4294.52
Standard Deviation							1222.33
CV							22.84
Bartlett's X2							4.562
P(Bartlett's X2)							0.033*

Replicate F	1.270
Replicate Prob(F)	0.4405
Treatment F	0.556
Treatment Prob(F)	0.5337

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

HOCKLEY/COCHRAN COUNTY VALOR LARGE PLOT

Trial ID: HOCKLEY CO VALOR
Location: MORTON

Study Dir.: DR. PETER DOTRAY/KERRY SIDERS
Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/KERRY SIDERS
Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: MORTON
State/Prov.: TX

Initiation Date: Apr/30/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: RUSTY TRULL

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

CROP AND WEED DESCRIPTION

Weed Common Name
MORNINGGLORY

VALENCIA PEANUT

Planting Date: Apr/30/09

Rate: 100 LB/ACRE **Depth:** 2 IN

Row Spacing: 40 IN

SITE AND DESIGN

Plot Width, Unit: 16.66 FT **Plot Length, Unit:** 600 FT **Reps:** 3
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: LOAMY SAND
Soil Name: BROWNFIELD SAND

APPLICATION DESCRIPTION

A
Application Date: May/04/09
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 53 F
% Relative Humidity: 55
Wind Velocity, Unit: 5 MPH

CROP STAGE AT EACH APPLICATION

A
PEANUT
Stage Scale: PRE

APPLICATION EQUIPMENT

A
Appl. Equipment: SPIDER
Operating Pressure: 27 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8003VS
Ground Speed, Unit: 4 MPH
Incorporation Equip.: IRR
Hours to Incorp.: 24
Incorp. Depth, Unit: 1 IN
Carrier: WATER
Spray Volume, Unit: 18.5 GPA
Propellant: AIR

Treatment Application Comment

4/30/09 - PLANTED FOLLOWED BY 0.7" IRRIGATION
5/4/09 - VALOR APPLIED FOLLOWED BY 1.0" IRRIGATION TO INCORPORATE

Texas Agricultural Experiment Station

TERRY COUNTY VALOR LARGE PLOT

Trial ID: TERRY CO VALOR LG PLOT
Location: BROWNFIELD

Study Dir.: DR. PETER DOTRAY/SCOTT RUSSELL
Investigator: Dr. Wayne Keeling

Crop Code	PEANUT	PEANUT	PEANUT	PEANUT	PEANUT
Rating Data Type	STAND	INJURY	PLANT HT	PLOT WT	YIELD
Rating Unit	#/5 FT	#/5 FT	INCHES	LBS	LB/ACRE
Rating Date	Jun/03/09	Jun/03/09	Jun/03/09	Oct/30/09	Oct/30/09

Trt	Treatment	Rate	Product	Product	Grow	Appl				
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code			
1	UNTREATED							19.13 a	0.3 c	5.038 a
2	VALOR	0.096 lb ai/a		3 oz/a		PRE	A	20.38 a	3.5 b	5.325 a
3	VALOR	0.096 lb ai/a		3 oz/a		AT CRACK	B	20.45 a	10.0 a	4.088 b
LSD (P=.05)								2.623	2.33	0.9388
Standard Deviation								1.516	1.34	0.5426
CV								7.59	29.32	11.26
Bartlett's X2								1.576	2.682	9.549
P(Bartlett's X2)								0.455	0.262	0.008*
Replicate F								0.072	0.169	1.132
Replicate Prob(F)								0.9729	0.9133	0.4084
Treatment F								0.964	54.600	5.699
Treatment Prob(F)								0.4335	0.0001	0.0410
										0.4993
										0.5938

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Texas Agricultural Experiment Station

TERRY COUNTY VALOR LARGE PLOT

Trial ID: TERRY CO VALOR LG PLOT
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Investigator: Dr. Wayne Keeling

GENERAL TRIAL INFORMATION

Study Director: DR. PETER DOTRAY/SCOTT RUSSELL
Affiliation: TEXAS AGRILIFE RESEARCH/TEXAS AGRILIFE EXTENSION SERVICE
Investigator: Dr. Wayne Keeling

TRIAL LOCATION

City: BROWNFIELD
State/Prov.: TX

Initiation Date: May/06/09

Country: USA

COOPERATOR/LANDOWNER

Cooperator: ALAN BAYER

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Planting Date: May/06/09 **Planting Method:** 8 ROW
Depth: 2.5 IN
Row Spacing: 40 IN **Spacing Within Row:** 4.5 SD/FT
Soil Moisture: ADEQUATE

SITE AND DESIGN

Plot Width, Unit: 26.6 FT **Plot Length, Unit:** 50 FT **Reps:** 4
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

	A	B
Application Date:	May/08/09	May/22/09
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	AT CRACK
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	65 F	58 F
% Relative Humidity:	13	68
Wind Velocity, Unit:	10 MPH	8 MPH

CROP STAGE AT EACH APPLICATION

	A	B
	PEANUT	PEANUT
Stage Scale:	PRE	AT CRACK

APPLICATION EQUIPMENT

	A	B
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8002	8002
Ground Speed, Unit:	5 MPH	5 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	10 GPA	10 GPA