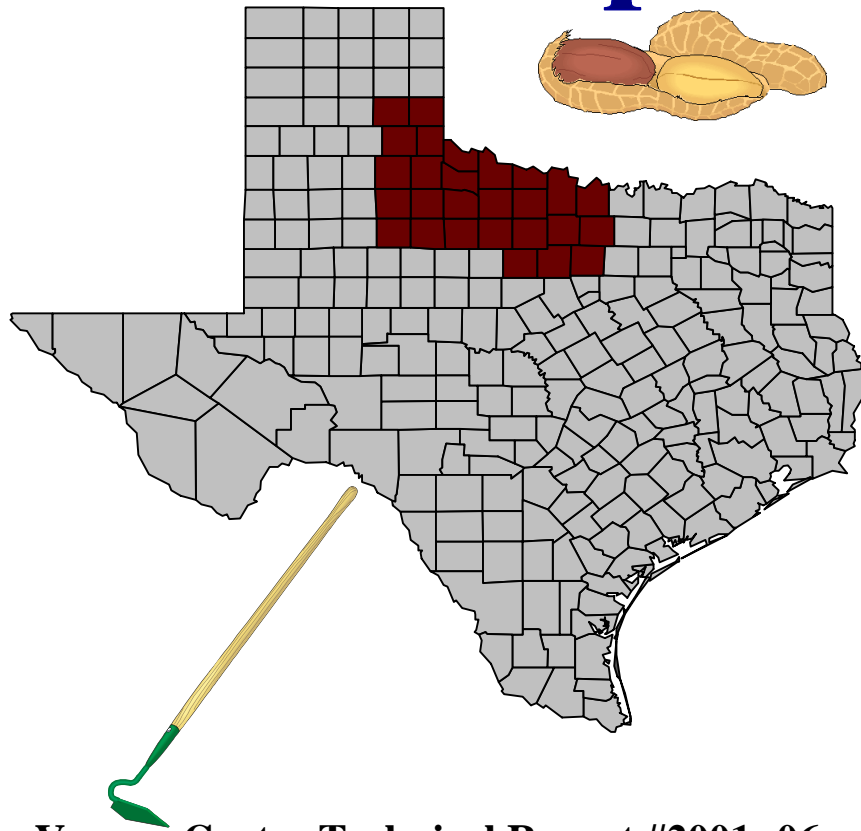


ROLLING PLAINS

2000

Research & Extension Peanut Report



Vernon Center Technical Report #2001- 06
prepared by

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Brian Olson
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February 2001

FOREWORD

This report summarize the 2000 peanut variety and weed control trials that were conducted in the Rolling Plains of Texas. The information give herein is for educational purposes only, and may not be reproduced without permission. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Texas Agricultural Extension Service or Experiment Station is implied.

Research methods are outlined for each of the trials that were conducted. Appropriate statistical analysis were used for each trial. Means within a column which differ by more than the LSD are considered statistically different at the 5 or 10% level. Where the LSD is labeled (NS) none of the treatments are considered statistically different.

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Texas A&M Research & Extension Center - Vernon
Department of Soil & Crop Sciences
Texas Agricultural Extension Service
Texas A&M University System

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Northwest Texas Runner Peanut Variety Trials

TRIAL 1

Experiment Number:	PCW00-1
Cooperator:	Dan & Rex Henard
Location:	Quail, TX
Experimental Design:	RCB
Number of Reps/Plot Size:	3/6.7'X75'
Row Width/#Per Plot:	40"/2
Planting Date:	5/5/00
Digging Date:	10/10/00
Harvest Date:	10/20/00
Days from Planting to Digging:	158

TRIAL 2

Experiment Number:	PMO00-1
Cooperator:	Billy Shannon & Family
Location:	Donley County, TX
Experimental Design:	RCB
Number of Reps/Plot Size:	3/15'X100'
Row Width/#Per Plot:	30"/6
Planting Date:	5/5/00
Digging Date:	10/30/00
Harvest Date:	12/4/00
Days from Planting to Digging:	178

Comments: These trials were established to evaluate various runner peanut varieties for yield and grade in the Northwest Texas growing environment. Due to the increase in High O/L varieties, the 2000 test only included High O/L varieties with the exception of Florunner which was used as a standard for comparison purposes. In Collingsworth County, the only variety that yielded over 4500 lbs/A were Florunner and Sunoleic 97R. In Motley County, the only variety that yield over 2000 lbs/A was Florunner.

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Northwest Texas Runner Peanut Variety Trial 1

Project Code: PCW00-1 Location: Quail, TX (Collingsworth Co.) Cooperator: Dan & Rex Henard

Variety	Peanut Yield	Peanut Grade	Sound Mature Kernels	Sound Splits	Damaged Kernels	Other Kernels
	(lbs/A)	(%)	(%)	(%)	(%)	(%)
Florunner	4905	79	72	7	0	1
Sunoleic 97R	4745	79	75	4	0	2
Flavorranner 458	4376	80	76	4	0	1
AT 201	4283	75	71	4	0	3
AT 1-1	3798	76	68	8	0	2
GK-7 High O/L	3752	78	73	5	0	1
LSD (10%)	615					
CV (%)	10					

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Northwest Texas Runner Peanut Variety Trial 2

Project Code: PMO00-1 Location: Flomot, TX (Motley Co.) Cooperator: Billy Shannon & Family

Variety	Peanut Yield (lbs/A)	Peanut Grade (%)	Sound			
			Mature Kernels (%)	Sound Splits (%)	Damaged Kernels (%)	Other Kernels (%)
Florunner	2015	76	70	6	0	2
Sunoleic 97R	1978	78	75	3	0	1
Flavorranner 458	1846	76	72	4	0	1
GK-7 High O/L	1650	75	71	4	1	1
AT 1-1	1550	80	76	4	0	1
AT 201	1216	81	77	4	0	1
LSD (10%)	NS					
CV (%)	28					

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Northwest Texas Runner Peanut Variety Trials - Average Over Locations

Variety	Motley	Motley	Motley	Motley	Collingsworth	Collingsworth	Collingsworth	Donley	Average
	1997	1998	1999	2000	1998	1999	2000	1999	Across Trials
	Peanut	Peanut	Peanut	Peanut	Peanut	Peanut	Peanut	Peanut	Peanut
	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield
	(lbs/A)	(lbs/A)	(lbs/A)	(lbs/A)	(lbs/A)	(lbs/A)	(lbs/A)	(lbs/A)	(% of Florunner)
AGRA TECH HIGH O/L			3639			3936		4235	106
AT 120	4757	5592	3383		5615	3842		4119	103
VIRUGARD	4060	4807	3568		5874	3715		4526	101
GEORGIA GREEN	4356	5454	4137		6085	3564		3332	101
FLORUNNER	4374	4884	3754	2015	6205	4217	4905	3341	100
TAMRUN 96	4774	5526	3512		5192	4590		2952	99
GEORGIA BOLD					5181	3466		4396	99
FLAVORRUNNER 458	4287	5092	3509	1846	5181	4292	4376	4361	99
HUGHES RUNNER			3966			3952		3111	97
TAMRUN 88	4461	4644	3676		5798	4444		2944	97
SUNOLEIC 97R	4234	4671		1978	5856		4745		96
TX-969342			3376			4263		2830	92
GK-7 High O/L				1650			3752		79
AT 1-1				1550			3798		77
AT 201				1216			4283		74
LSD (10%)	388	NS	762	NS	NS	425	615	827	
CV (%)	5	12	15	28	11	7	10	16	

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Strongarm + Dual Magnum Combinations in Peanut

Project Code	PCW00-2	
Cooperator	Carroll Nunnelley	
Location	Quail	
Experimental Design	RCB	
Number of Reps/Plot Size	3/6.7X25	
Row Width/#Per Plot	40"/2	
Soil Type	Loamy Sand	
Sand/Silt/Clay [%]	87/9/4	
OM [%]	0.1	
pH/CEC	8.0/7.2	
Planting Date	4/27/00	
Harvest Date	NA	
Crop/Variety	Peanut/Flavorranner 458	
Uniform Standard Treatment	Prowl	
Application Timing	PRE	POST
Application Date	5/9/00	6/8/00
Application Method	Broadcast	Broadcast
Time of Day	11:30-12:15	2:00-2:40
Incorporation Equipment	NA	NA
Air/Soil Temperature [F]	86/80	100/90
Relative Humidity [%]	25	20
Wind [mph/direction]	7.0/N	3.5/S
Cloud Cover [%]	0	30
Soil/Leaf Moisture	hi/NA	medhi/dry
Crop Stage/Diameter	NA	12->25lf/4-8"
Sprayer Type/mph	BPK/3.0	BPK/3.0
Nozzle Type/Size	TT/11002	TT/11002
Boom Ht/# Noz/Spacing [in]	18/4/20	18/4/20
GPA/PSI	15/22	15/21
Weed Species [population]	------(height/# leaves)-----	
CYPES [1-10/ft²]	NA	3-18lf/2-12"
ECLAL [1-25/ft²]	NA	1-15lf/1-6"

Comments: Trial was established to evaluate Strongarm and Dual Magnum combinations for yellow nutsedge (CYPES) and Eclipta (ECLAL) control in peanut. A large amount of rainfall occurred immediately after peanut planting, and therefore PRE treatments were applied later than initially planned. This may have been part of the reason for the poor control with most treatments. Peanut injury was observed with most treatments, but was less than 15% and peanut had recovered by the end of the season. The only treatment that resulted in greater than 70% CYPES control was Cadre. Treatments that included Strongarm at 0.45 oz/A controlled ECLAL at least 85%.

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Strongarm + Dual Magnum Combinations in Peanut

Project Code: PCW00-2 Location: Quail, TX Cooperator: Carroll Nunnelley

Weed/Crop Code	Peanut	Peanut	Peanut	CYPES	CYPES
Rating Data Type	Injury	Injury	Injury	Control	Control
Rating Unit	%	%	%	%	%
Rating Date	6/8	7/5	7/25	6/8	7/5

Trt No	Treatment Name	Rate	Unit	Grow Stg					
1	Untreated				0	0	0	0	0
2	Strongarm	0.15	oz pr/A	PRE	0	0	0	28	10
3	Strongarm	0.15	oz pr/A	PRE	0	8	5	37	33
	Dual Magnum	0.50	pt pr/A	POST					
4	Strongarm	0.15	oz pr/A	PRE	0	7	3	40	60
	Dual Magnum	1.00	pt pr/A	POST					
5	Strongarm	0.15	oz pr/A	PRE	0	5	0	17	53
	Dual Magnum	1.33	pt pr/A	POST					
6	Strongarm	0.30	oz pr/A	PRE	0	5	3	50	40
7	Strongarm	0.30	oz pr/A	PRE	0	5	3	37	53
	Dual Magnum	0.50	pt pr/A	POST					
8	Strongarm	0.30	oz pr/A	PRE	0	13	8	50	58
	Dual Magnum	1.00	pt pr/A	POST					
9	Strongarm	0.30	oz pr/A	PRE	0	10	7	37	33
	Dual Magnum	1.33	pt pr/A	POST					
10	Strongarm	0.45	oz pr/A	PRE	0	3	2	40	17
11	Strongarm	0.45	oz pr/A	PRE	0	8	5	57	68
	Dual Magnum	0.50	pt pr/A	POST					
12	Strongarm	0.45	oz pr/A	PRE	0	7	2	47	50
	Dual Magnum	1.00	pt pr/A	POST					
13	Strongarm	0.45	oz pr/A	PRE	0	8	3	32	47
	Dual Magnum	1.33	pt pr/A	POST					
14	Dual Magnum	0.50	pt pr/A	POST		7	0		20
15	Dual Magnum	1.00	pt pr/A	POST		3	0		43
16	Dual Magnum	1.33	pt pr/A	POST		7	0		63
17	Cadre	1.44	oz pr/A	POST		7	0		62
	Herbimax	1.00	qt pr/A	POST					
	LSD (P=.10)				NS	6	NS	11	14
	CV				0	66	157	22	24

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Strongarm + Dual Magnum Combinations in Peanut

Project Code: PCW00-2

Location: Quail, TX

Cooperator: Carroll Nunnelley

Weed/Crop Code				CYPES	ECLAL	ECLAL	ECLAL
Rating Data Type				Control	Control	Control	Control
Rating Unit				%	%	%	%
Rating Date				7/25	6/8	7/5	7/25
Trt No	Treatment Name	Rate	Grow Stg				
1	Untreated			0	0	0	0
2	Strongarm	0.15	oz pr/A PRE	10	70	55	63
3	Strongarm	0.15	oz pr/A PRE	23	80	78	78
	Dual Magnum	0.50	pt pr/A POST				
4	Strongarm	0.15	oz pr/A PRE	32	85	83	68
	Dual Magnum	1.00	pt pr/A POST				
5	Strongarm	0.15	oz pr/A PRE	47	60	48	53
	Dual Magnum	1.33	pt pr/A POST				
6	Strongarm	0.30	oz pr/A PRE	33	80	73	90
7	Strongarm	0.30	oz pr/A PRE	35	60	57	63
	Dual Magnum	0.50	pt pr/A POST				
8	Strongarm	0.30	oz pr/A PRE	58	75	78	75
	Dual Magnum	1.00	pt pr/A POST				
9	Strongarm	0.30	oz pr/A PRE	53	77	90	95
	Dual Magnum	1.33	pt pr/A POST				
10	Strongarm	0.45	oz pr/A PRE	20	90	77	95
11	Strongarm	0.45	oz pr/A PRE	57	90	92	95
	Dual Magnum	0.50	pt pr/A POST				
12	Strongarm	0.45	oz pr/A PRE	53	90	87	87
	Dual Magnum	1.00	pt pr/A POST				
13	Strongarm	0.45	oz pr/A PRE	47	90	92	88
	Dual Magnum	1.33	pt pr/A POST				
14	Dual Magnum	0.50	pt pr/A POST	12		23	37
15	Dual Magnum	1.00	pt pr/A POST	53		20	23
16	Dual Magnum	1.33	pt pr/A POST	60		13	13
17	Cadre	1.44	oz pr/A POST	75		30	25
	Herbimax	1.00	qt pr/A POST				
	LSD (P=.10)			13	28	34	31
	CV			23	27	41	37

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Eclipta Control in Peanut

Project Code	PCW00-3	
Cooperator	Carroll Nunnelley	
Location	Quail	
Experimental Design	RCB	
Number of Reps/Plot Size ...	3/6.7X25	
Row Width/#Per Plot	40"/2	
Soil Type	Loamy Sand	
Sand/Silt/Clay [%]	87/9/4	
OM [%]	0.1	
pH	8.0/7.2	
Planting Date	4/27/00	
Harvest Date	NA	
Crop/Variety	Peanut/Flavorranner 458	
Uniform Standard Treatment :	Prowl	
Application Timing	PRE	POST
Application Date	5/9/00	6/8/00
Application Method	Broadcast	Broadcast
Time of Day	11:30-12:15	2:00-2:40
Incorporation Equipment ...	NA	NA
Air/Soil Temperature [F] ...	86/80	100/90
Relative Humidity [%]	25	20
Wind [mph/direction]	7.0/N	3.5/S
Cloud Cover [%]	0	30
Soil/Leaf Moisture	hi/NA	medhi/dry
Crop Stage/Diameter	NA	12->25lf/4-8"
Sprayer Type/mph	BPK/3.0	BPK/3.0
Nozzle Type/Size	TT/11002	TT/11002
Boom Ht/# Noz/Spacing [in] .:	18/4/20	18/4/20
GPA/PSI	15/22	15/21
Weed Species [population] ..:	------(height/# leaves)-----	
CYPES [1-10/ft²]	NA	3-18lf/2-12"
ECLAL [1-25/ft²]	NA	1-15lf/1-6"

Comments: Trial was established to evaluate various herbicide programs for Eclipta (ECLAL) control in peanut. There was a sporadic population of yellow nutsedge (CYPES) that was also evaluated with the various programs. A large amount of rainfall occurred immediately after peanut planting, and therefore PRE treatments were applied later than initially planned. Peanuts stood in water which may have been part of the reason for the high levels injury (stunting) initially observed. However, peanuts had outgrown most injury symptoms by the end of the season. ECLAL control late season was at least 85% with Valor + Dual Magnum PRE followed by either Pursuit or Starfire + Basagran, and any treatment that included Strongarm PRE. The only treatment that resulted in late season CYPES control greater than 90% was Cadre.

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Eclipta Control in Peanut

Project Code: PCW00-3

Location: Quail, TX

Cooperator: Carroll Nunnelley

Weed/Crop Code				Peanut	Peanut	Peanut	ECLAL	ECLAL	ECLAL	CYPES	CYPES	CYPES
Rating Data Type				Injury	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Unit				%	%	%	%	%	%	%	%	%
Rating Date				6/8	7/5	7/25	6/8	7/5	7/25	6/8	7/5	7/25
Trt No	Treatment Name	Rate	Grow Stg									
1	Untreated			0	0	0	0	0	0	0	0	0
2	Valor	3.00 oz pr/A	PRE	5	0	0	58	47	48	40	37	43
3	Valor	3.00 oz pr/A	PRE	22	7	3	93	78	77	70	38	40
	Dual Magnum	1.00 pt pr/A	PRE									
4	Valor	3.00 oz pr/A	PRE	13	5	0	90	70	70	60	43	47
	Dual Magnum	1.00 pt pr/A	PRE									
	Pursuit	0.72 oz pr/A	POST									
	AMS	2.50 lb pr/A	POST									
	Herbimax	1.00 qt pr/A	POST									
5	Valor	3.00 oz pr/A	PRE	22	7	3	95	93	85	70	57	67
	Dual Magnum	1.00 pt pr/A	PRE									
	Pursuit	1.44 oz pr/A	POST									
	AMS	2.50 lb pr/A	POST									
	Herbimax	1.00 qt pr/A	POST									
6	Valor	3.00 oz pr/A	PRE	17	7	7	95	95	90	65	42	45
	Dual Magnum	1.00 pt pr/A	PRE									
	Starfire	0.67 pt pr/A	POST									
	Basagran	1.00 pt pr/A	POST									
	LI-700	0.25 % v/v	POST									
7	Strongarm	0.30 oz pr/A	PRE	17	7	5	95	93	95	83	50	50
8	Strongarm	0.45 oz pr/A	PRE	5	7	0	95	87	88	92	60	73
9	Strongarm	0.91 oz pr/A	PRE	8	3	2	95	95	95	85	63	67
10	Strongarm	0.30 oz pr/A	PRE	12	5	3	87	95	95	85	58	73
	Tough	1.50 pt pr/A	POST									
11	Strongarm	0.45 oz pr/A	PRE	10	3	0	85	95	95	72	47	50
	Tough	1.50 pt pr/A	POST									
12	Cadre	1.44 oz pr/A	POST		3	0		37	30		87	95
	Herbimax	1.00 qt pr/A	POST									
	LSD (P=.10)			12	NS	NS	10	15	13	12	21	23
	CV			73	114	241	9	15	13	13	31	31

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Morningglory Control in Peanut

Project Code	: PDO00-1	
Cooperator	: Curtis Shaffer	
Location	: Lelia Lake, TX	
Experimental Design	: RCB	
Number of Reps/Plot Size	: 3/6'X20'	
Row Width/#Per Plot	: 36"/2	
Soil Type	: Sand	
Sand/Silt/Clay [%]	: 95/2/3	
OM [%]	: 0.1	
pH	: 8.1/4.7	
Planting Date	: 5/6/00	
Harvest Date	: NA	
Crop/Variety	: Peanut/NA	
Uniform Standard Treatment	: DNA PPI	
	:	
Application Timing	: PRE	EPOST
Application Date	: 5/12/00	6/21/00
Application Method	: Broadcast	Broadcast
Time of Day	: 10:30-11:00	12:15-12:30
Incorporation Equipment	: NA	NA
Air/Soil Temperature [F]	: 69/72	79/75
Relative Humidity [%]	: 15	65
Wind [mph/direction]	: 15/N	5/NE
Cloud Cover [%]	: 50	99
Soil/Leaf Moisture	: med/NA	medhi/dry
Crop Stage/Diameter	: NA	Ebloom/3-12"
Sprayer Type/mph	: BPK/3.0	BPK/3.0
Nozzle Type/Size	: FF/TT11002	FF/TT11002
Boom Ht/# Noz/Spacing [in]	: 16/4/18	16/4/18
GPA/PSI	: 15/14	15/22
Weed Species [population]	: -----(height/# leaves)-----	
IPOHE [0.25-3/ft²]	: NA	0.5-4"/coty-12lf

Comments: Trial was established to evaluate various herbicides for control of ivyleaf morningglory (IPOHE) in peanut. No injury was observed with any of the treatments applied. The only treatments that controlled IPOHE at least 80% were Strongarm, Cadre, and F6285 followed by 2,4-DB.

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Morningglory Control in Peanut

Project Code: PDO00-1

Location: Lelia Lake, TX

Cooperator: Curtis Schaffer

Weed/Crop Code	Peanut	Peanut	Peanut	Peanut	IPOHE	IPOHE	IPOHE
Rating Data Type	Injury	Injury	Injury	Injury	Control	Control	Control
Rating Unit	%	%	%	%	%	%	%
Rating Date	5/24	6/21	7/27	8/25	6/21	7/27	8/25

Trt No	Treatment Name	Rate	Unit	Grow Stg							
1	Untreated				0	0	0	0	0	0	0
2	Strongarm	0.30	oz pr/A	PRE	0	0	0	0	80	80	82
3	Strongarm	0.45	oz pr/A	PRE	0	0	0	0	83	87	88
4	Strongarm	0.30	oz pr/A	PRE	0	0	0	0	63	70	63
	2,4-DB	1.00	pt pr/A	POST							
	Herbimax	2.00	pt pr/A	POST							
5	Strongarm	0.45	oz pr/A	PRE	0	0	0	0	73	85	70
	2,4-DB	1.00	pt pr/A	POST							
	Herbimax	2.00	pt pr/A	POST							
6	Valor	3.00	oz pr/A	PRE	0	0	0	0	37	65	67
7	Valor	3.00	oz pr/A	PRE	0	0	0	0	40	63	67
	2,4-DB	1.00	pt pr/A	POST							
	Herbimax	2.00	pt pr/A	POST							
8	F6285	1.60	fl oz pr/A	PRE	0	0	0	0	77	77	78
9	F6285	1.60	fl oz pr/A	PRE	0	0	0	0	67	83	83
	2,4-DB	1.00	pt pr/A	POST							
	Herbimax	2.00	pt pr/A	POST							
10	Cadre	1.44	oz pr/A	POST			0	0		80	73
	Herbimax	2.00	pt pr/A	POST							
11	Cadre	1.44	oz pr/A	POST			0	0		97	98
	2,4-DB	1.00	pt pr/A	POST							
	Herbimax	2.00	pt pr/A	POST							
12	2,4-DB	1.00	pt pr/A	POST			0	0		63	42
	Herbimax	2.00	pt pr/A	POST							
	LSD (P=.10)				NS	NS	NS	NS	21	27	24
	CV				0	0	0	0	26	27	25

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

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Yellow Nutsedge Control in Peanut

Project Code : PDO00-2
Cooperator : Eddy Helms
Location : Lelia Lake, TX
Experimental Design : RCB
Number of Reps/Plot Size ... : 3/6'X20'
Row Width/#Per Plot : 36"/2
Soil Type : Loamy Sand
Sand/Silt/Clay [%] : 91/5/4
OM [%] : 0.1
pH : 8.0/4.6
Planting Date : 5/6/00
Harvest Date : NA
Crop/Variety : Peanut/NA
Uniform Standard Treatmen : DNA PPI

Application Timing : POST
Application Date : 6/8/00
Application Method : Broadcast
Time of Day : 10:45-11:20
Incorporation Equipment .. : NA
Air/Soil Temperature [F] ... : 81/78
Relative Humidity [%] : 34
Wind [mph/direction] : 7/S
Cloud Cover [%] : 0
Soil/Leaf Moisture : med/dry
Crop Stage/Diameter : 5-15lf/3-6"
Sprayer Type/mph : BPK/3.0
Nozzle Type/Size : FF/TT11002
Boom Ht/# Noz/Spacing [in] . : 16/4/18
GPA/PSI : 15/15

Weed Species [population] ... : -----(height/# leaves)-----
CYPES [5-10/ft²] : 4-8"/6-20lf

Comments: Trial was established to evaluate various postemergence herbicides for control of yellow nutsedge (CYPES) in peanut. No injury was observed with any of the treatments applied. CYPES populations were very heavy at this site. The only treatments that provided at least 70% control of CYPES included Cadre alone or in combination with Dual Magnum or Raptor. Pursuit alone or in combination with Raptor resulted in less than 50% CYPES control.

Texas A&M Research & Extension Center - Vernon

Yellow Nutsedge Control in Peanut

Project Code: PDO00-2

Location: Lelia Lake, TX

Cooperator: Eddy Helms

Weed/Crop Code			Peanut	Peanut	Peanut	CYPES	CYPES	CYPES
Rating Data Type			Injury	Injury	Injury	Control	Control	Control
Rating Unit			%	%	%	%	%	%
Rating Date			7/5/00	7/27/00	8/25/00	7/5/00	7/25/00	8/25/00
Trt-Eval Interval			0-100	0-100	0-100	0-100	0-100	0-100
Decimals Printed			0	0	0	0	0	0
Trt	Treatment	Rate						
No	Name	Rate	Unit					
1	Untreated			0	0	0	0	0
2	Pursuit	1.44	oz pr/A	0	0	0	40	40
	Herbimax	2.00	pt pr/A					27
	Ammonium Sulfate	2.50	lb pr/A					
3	Pursuit	0.36	oz pr/A	0	0	0	48	47
	Raptor	4.00	fl oz pr/A					47
	Herbimax	2.00	pt pr/A					
	Ammonium Sulfate	2.50	lb pr/A					
4	Cadre	1.44	oz pr/A	0	0	0	50	70
	Herbimax	2.00	pt pr/A					75
5	Cadre	0.36	oz pr/A	0	0	0	53	63
	Raptor	4.00	fl oz pr/A					72
	Herbimax	2.00	pt pr/A					
	Ammonium Sulfate	2.50	lb pr/A					
6	Dual Magnum	1.00	pt pr/A	0	0	0	62	70
	Cadre	0.72	oz pr/A					72
	Herbimax	2.00	pt pr/A					
	LSD (P=.10)			NS	NS	NS	13	14
	CV			0	0	0	20	19

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Preemergence Herbicides

Project Code : PDO00-3
Cooperator : Eddy Helms
Location : Lelia Lake, TX
Experimental Design : RCB
Number of Reps/Plot Size ... : 3/6'X20'
Row Width/#Per Plot : 36"/2
Soil Type : Loamy Sand
Sand/Silt/Clay [%] : 91/5/4
OM [%] : 0.1
pH : 8.0/4.6
Planting Date : 5/6/00
Harvest Date : NA
Crop/Variety : Peanut/NA
Uniform Standard Treatmen : DNA PPI

Application Timing : PRE
Application Date : 5/12/00
Application Method : Broadcast
Time of Day : 11:30-12:00
Incorporation Equipment .. : NA
Air/Soil Temperature [F] ... : 79/74
Relative Humidity [%] : 10
Wind [mph/direction] : 15/N
Cloud Cover [%] : 40
Soil/Leaf Moisture : med/NA
Crop Stage/Diameter : NA
Sprayer Type/mph : BPK/3.0
Nozzle Type/Size : FF/TT11002
Boom Ht/# Noz/Spacing [in] . : 16/4/18
GPA/PSI : 15/14

Weed Species [population] ... : -----(height/# leaves)-----
NA [0/ft²] : NA

Comments: Trial was established to evaluate various herbicides for control of yellow nutsedge in peanut. Due to the low and sporadic nutsedge population only crop tolerance evaluations were taken. No injury was observed with any of the treatments applied.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Preemergence Herbicides

Project Code: PDO00-3

Location: Lelia Lake, TX

Cooperator: Eddy Helms

Weed/Crop Code	Peanut	Peanut	Peanut	Peanut
Rating Data Type	Injury	Injury	Injury	Injury
Rating Unit	%	%	%	%
Rating Date	5/24/00	7/5/00	7/27/00	8/25/00

Trt No	Treatment Name	Rate	Unit	Grow Stg				
1	Untreated				0	0	0	0
2	Strongarm	0.30	oz pr/A	PRE	0	0	0	0
3	Strongarm	0.45	oz pr/A	PRE	0	0	0	0
4	Dual Magnum	1.33	pt pr/A	PRE	0	0	0	0
	Valor	3.00	oz pr/A	PRE				
	LSD (P=.10)				NS	NS	NS	NS
	CV				0	0	0	0

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

Texas A&M Research & Extension Center - Vernon

Purple Nutsedge Control in Peanut

Project Code	PHK00-1	
Cooperator	Richard Mathis	
Location	Knox City	
Experimental Design	RCB	
Number of Reps/Plot Size ...	3/6.7X25	
Row Width/#Per Plot	36"/2	
Soil Type	loamy sand	
Sand/Silt/Clay [%]	NA	
OM [%]	0.1	
pH/CEC	NA	
Planting Date	5/9/00	
Harvest Date	NA	
Crop/Variety	Peanut/Flavorranner 458	
Uniform Standard Treatment	NA	
Application Timing	PRE	POST
Application Date	5/10/00	6/22/00
Application Method	Broadcast	Broadcast
Time of Day	10:30-10:50	
Incorporation Equipment ...	NA	NA
Air/Soil Temperature [F] ...	80/74	58/80
Relative Humidity [%]	46	85
Wind [mph/direction]	10.0/S	0.5/SW
Cloud Cover [%]	80	10
Soil/Leaf Moisture	medlo/NA	med/lo
Crop Stage/Diameter	NA	bloom/3-12"
Sprayer Type/mpg	BPK/3	BPK/3
Nozzle Type/Size	TT/11002	TT/11002
Boom Ht/# Noz/Spacing [in] ..	18/4/16	18/4/16
GPA/PSI	15/14	15/19
Weed Species [population] .. :	------(height/# leaves)-----	
CYPRO [0.1-10/ft²]	NA	1-8"/3-10lf

Comments: Trial was established to evaluate various herbicides for control of purple nutsedge (CYPRO) control in peanut. Even though site had a history of heavy purple nutsedge populations, population was somewhat sporadic at this location. No injury was observed with any of the treatments applied. The only treatments that resulted in at least 90% CYPRO control were when Cadre was applied alone or used in combination with Strongarm.

Texas A&M Research & Extension Center - Vernon

Purple Nutsedge Control in Peanut

Project Code: PHK00-1

Location: Knox City, TX

Cooperator: Richard Mathis

Weed/Crop Code					Peanut	Peanut	Peanut	CYPRO	CYPRO
Rating Data Type					Injury	Injury	Injury	Control	Control
Rating Unit					%	%	%	%	%
Rating Date					6/7	7/20	9/11	7/20	9/11
Trt	Treatment		Rate	Grow					
No	Name		Unit	Stg					
1	Untreated					0	0	0	0
2	Cadre	1.44	oz pr/A	POST		0	0	93	93
	Herbimax	2.00	pt pr/A	POST					
3	Cadre	0.36	oz pr/A	POST		0	0	40	40
	Raptor	4.00	fl oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
	Ammonium Sulfate	2.50	lb pr/A	POST					
4	Cadre	0.36	oz pr/A	POST		0	0	60	62
	Raptor	5.00	fl oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
	Ammonium Sulfate	2.50	lb pr/A	POST					
5	Pursuit	1.44	oz pr/A	POST		0	0	77	77
	Herbimax	2.00	pt pr/A	POST					
	Ammonium Sulfate	2.50	lb pr/A	POST					
6	Pursuit	0.36	oz pr/A	POST		0	0	67	65
	Raptor	4.00	fl oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
	Ammonium Sulfate	2.50	lb pr/A	POST					
7	Pursuit	0.36	oz pr/A	POST		0	0	73	73
	Raptor	5.00	fl oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
	Ammonium Sulfate	2.50	lb pr/A	POST					
8	Valor	2.00	oz pr/A	PRE	0	0	0	81	81
	Cadre	1.44	oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
9	Strongarm	0.30	oz pr/A	PRE	0	0	0	73	73
10	Strongarm	0.45	oz pr/A	PRE	0	0	0	86	86
11	Strongarm	0.30	oz pr/A	PRE	0	0	0	97	97
	Cadre	1.44	oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
12	Strongarm	0.45	oz pr/A	PRE	0	0	0	97	97
	Cadre	1.44	oz pr/A	POST					
	Herbimax	2.00	pt pr/A	POST					
	LSD (P=.10)				0	0	0	21	34
	CV				0	0	0	22	34

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Various Herbicide Programs

Project Code	PHL00-1	
Cooperator	Terry & Tony Lindsey	
Location	Lakeview, TX	
Experimental Design	RCB	
Number of Reps/Plot Size	3/6'X20'	
Row Width/#Per Plot	36"/2	
Soil Type	Loamy Sand	
Sand/Silt/Clay [%]	82/11/7	
OM [%]	0.1	
pH	7.9/21.6	
Planting Date	5/8/00	
Harvest Date	NA	
Crop/Variety	Peanut/NA	
Uniform Standard Treatmen :	DNA PPI	
Application Timing	PRE	EPOST
Application Date	5/12/00	7/5/00
Application Method	Broadcast	Broadcast
Time of Day	3:00-3:45	1:00-2:00
Incorporation Equipment	NA	NA
Air/Soil Temperature [F]	80/84	94/88
Relative Humidity [%]	13	27
Wind [mph/direction]	7/N	2/5/SW
Cloud Cover [%]	75	10
Soil/Leaf Moisture	med/NA	med/dry
Crop Stage/Diameter	NA	Ebloom/6-12"
Sprayer Type/mph	BPK/3.0	BPK/3.0
Nozzle Type/Size	FF/TT11002	FF/TT11002
Boom Ht/# Noz/Spacing [in]	16/4/18	16/4/18
GPA/PSI	15/14	15/21
Weed Species [population]	------(height/# leaves)-----	
IPOHE [0.25-3/ft²]	NA	NA

Comments: Trial was established to evaluate various herbicides for injury to peanut. No injury was observed with any of the treatments applied.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Various Herbicide Programs

Weed/Crop Code					Peanut	Peanut	Peanut	Peanut
Rating Data Type					Injury	Injury	Injury	Injury
Rating Unit					%	%	%	%
Rating Date					5/24	6/7	7/5	7/27
Trt	Treatment	Rate	Unit	Grow				
No	Name			Stg				
1	Untreated				0	0	0	0
2	Dual Magnum	1.33	pt pr/A	PRE	0	0	0	0
3	Dual Magnum	1.33	pt pr/A	POST	0	0	0	0
4	Cadre	1.44	oz pr/A	POST	0	0	0	0
	Herbimax	1.00	qt pr/A	POST				
5	Dual Magnum	1.00	pt pr/A	PRE	0	0	0	0
	Cadre	0.72	oz pr/A	POST				
	Herbimax	1.00	qt pr/A	POST				
6	Dual Magnum	1.00	pt pr/A	POST	0	0	0	0
	Cadre	0.72	oz pr/A	POST				
	Herbimax	1.00	qt pr/A	POST				
7	Dual Magnum	1.00	pt pr/A	PRE	0	0	0	0
	Tough	1.50	pt pr/A	POST				
8	Dual Magnum	1.00	pt pr/A	POST	0	0	0	0
	Tough	1.50	pt pr/A	POST				
9	Strongarm	0.45	oz pr/A	PRE	0	0	0	0
10	F6285	2.40	fl oz pr/A	PRE	0	0	0	0
11	Strongarm	0.23	oz pr/A	PRE	0	0	0	0
	F6285	2.40	fl oz pr/A	PRE				
12	Cadre	0.36	oz pr/A	POST	0	0	0	0
	Raptor	4.00	fl oz pr/A	POST				
	Herbimax	1.00	qt pr/A	POST				
	Ammonium Sulfate	2.50	lb pr/A	POST				
	LSD (P=.10)				NS	NS	NS	NS
	CV				0	0	0	0

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

Texas A&M Research & Extension Center - Vernon

Strongarm + Dual Magnum Combinations in Peanut

Project Code : PHL00-2
Cooperator : Terry & Tony Lindsey
Location : Lakeview, TX
Experimental Design : RCB
Number of Reps/Plot Size ... : 3/6'X20'
Row Width/#Per Plot : 36"/2
Soil Type : Loamy Sand
Sand/Silt/Clay [%] : 82/11/7
OM [%] : 0.1
pH : 7.9/21.6
Planting Date : 5/8/00
Harvest Date : NA
Crop/Variety : Peanut/NA
Uniform Standard Treatmen : DNA PPI

Application Timing	PRE	EPOST
Application Date	5/12/00	7/5/00
Application Method	Broadcast	Broadcast
Time of Day	3:00-3:45	1:00-2:00
Incorporation Equipment ..	NA	NA
Air/Soil Temperature [F] ...	80/84	94/88
Relative Humidity [%]	13	27
Wind [mph/direction]	7/N	2/5/SW
Cloud Cover [%]	75	10
Soil/Leaf Moisture	med/NA	med/dry
Crop Stage/Diameter	NA	Ebloom/6-12"
Sprayer Type/mph	BPK/3.0	BPK/3.0
Nozzle Type/Size	FF/TT11002	FF/TT11002
Boom Ht/# Noz/Spacing [in] .	16/4/18	16/4/18
GPA/PSI	15/14	15/21

Weed Species [population] . . . -----(height/# leaves)-----
IPOHE [0.25-3/ft²] NA NA

Comments: Trial was established to evaluate efficacy and peanut tolerance to Strongarm and Dual Magnum combination in peanut. Do to the lack of weed population at this site only peanut tolerance evaluations were recorded. No injury was observed with any of the treatments applied.

Texas A&M Research & Extension Center - Vernon

Strongarm + Dual Magnum Combinations in Peanut

Project Code: PHL00-2

Location: Lakeview, TX

Cooperator: Terry & Tony Lindsey

Weed/Crop Code	Peanut	Peanut	Peanut	Peanut
Rating Data Type	Injury	Injury	Injury	Injury
Rating Unit	%	%	%	%
Rating Date	5/24	6/7	7/5	7/27

Trt No	Treatment Name	Rate	Unit	Grow Stg				
1	Untreated				0	0	0	0
2	Strongarm	0.15	oz pr/A	PRE	0	0	0	0
3	Strongarm	0.15	oz pr/A	PRE	0	0	0	0
	Dual Magnum	0.50	pt pr/A	POST				
4	Strongarm	0.15	oz pr/A	PRE	0	0	0	0
	Dual Magnum	1.00	pt pr/A	POST				
5	Strongarm	0.15	oz pr/A	PRE	0	0	0	0
	Dual Magnum	1.33	pt pr/A	POST				
6	Strongarm	0.30	oz pr/A	PRE	0	0	0	0
7	Strongarm	0.30	oz pr/A	PRE	0	0	0	0
	Dual Magnum	0.50	pt pr/A	POST				
8	Strongarm	0.30	oz pr/A	PRE	0	0	0	0
	Dual Magnum	1.00	pt pr/A	POST				
9	Strongarm	0.30	oz pr/A	PRE	0	0	0	0
	Dual Magnum	1.33	pt pr/A	POST				
10	Strongarm	0.45	oz pr/A	PRE	0	0	0	0
11	Strongarm	0.45	oz pr/A	PRE	0	0	0	0
	Dual Magnum	0.50	pt pr/A	POST				
12	Strongarm	0.45	oz pr/A	PRE	0	0	0	0
	Dual Magnum	1.00	pt pr/A	POST				
13	Strongarm	0.45	oz pr/A	PRE	0	0	0	0
	Dual Magnum	1.33	pt pr/A	POST				
14	Dual Magnum	0.50	pt pr/A	POST	0	0	0	0
15	Dual Magnum	1.00	pt pr/A	POST	0	0	0	0
16	Dual Magnum	1.33	pt pr/A	POST	0	0	0	0
17	Cadre	1.44	oz pr/A	POST	0	0	0	0
	Herbimax	1.00	qt pr/A	POST				
	LSD (P=.10)				NS	NS	NS	NS
	CV				0	0	0	0

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Roundup Spot Applications

Project Code	PMO00-2			
Cooperator	Billy Shannon			
Location	Flomot, TX			
Experimental Design	RCB			
Number of Reps/Plot Size	3/5'X30'			
Row Width/#Per Plot	30"/2			
Soil Type	Loamy Sand			
Sand/Silt/Clay [%]	88/5/6			
OM [%]	0.1			
pH	8.0			
Planting Date	5/5/00			
Harvest Date	NA			
Crop/Variety	Peanut/Flavor Runner 458			
Uniform Standard Treatmen :	NA			
Application Timing	2 WAC	4 WAC	8 WAC	10 WAC
Application Date	5/25/00	6/7/00	7/6/00	7/19/00
Application Method	Spot	Spot	Spot	Spot
Time of Day	12:00-12:15	12:00-12:15	2:30-3:00	10:20-10:45
Incorporation Equipment	NA	NA	NA	NA
Air/Soil Temperature [F]	71/74	86/80	95/96	94/83
Relative Humidity [%]	68	31	22	21
Wind [mph/direction]	6.0/N	7.5/S	6.0/SSW	6.0/W
Cloud Cover [%]	100	25	0	25
Soil/Leaf Moisture	med/dry	med/dry	med/dry	med/dry
Crop Stage/Diameter	2-5lf/1-5"	5-12lf/2-5"	bloom/6-18"	peg/12-24"
Sprayer Type/mph	BPK/3.0	BPK/3.0	BPK/3.0	BPK/3.0
Nozzle Type/Size	FF/8002DG	FF/8002DG	FF/8002DG	FF/8002DG
Boom Ht/# Noz/Spacing [in]	3-6"/1/NA	3-8"/1/NA	6-8"/1/NA	10-12"/1/NA
GPA/PSI	15/40	15/24	15/16	15/24
Weed Species [population]	------(height/# leaves)-----			
NA	NA	NA	NA	NA

Comments: Trial was established to evaluate the effects of spot applications of Roundup on peanut tolerance and yield. Entire trial was kept weed-free throughout the growing season. The only treatment that had less than 10% chlorosis, necrosis, stunting, and stand reduction was 2 WAC treatment. All treatments that included either an 8 or 10 WAC resulted in greater than 15% peanut stunting and stand reduction. Due to dry weather and low yields peanut were not harvested.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Roundup Spot Applications

Project Code: PMO00-2

Location: Flomot, TX

Cooperator: Billy Shannon & Family

Weed/Crop Code				Peanut	Peanut	Peanut	Peanut
Rating Data Type				Chlorosis	Necrosis	Stunting	Stand Red.
Rating Unit				%	%	%	%
Rating Date				8/2/00	8/2/00	8/2/00	8/2/00
Trt No	Treatment Name	Rate	Grow Unit				
1	Untreated			0	0	0	0
2	Roundup Ultra	2.0	% v/v 2 WAC	5	5	5	7
3	Roundup Ultra	2.0	% v/v 4 WAC	5	5	10	15
4	Roundup Ultra	2.0	% v/v 8 WAC	13	23	23	28
5	Roundup Ultra	2.0	% v/v 10 WAC	22	28	17	25
6	Roundup Ultra	2.0	% v/v 2 WAC	5	5	13	15
	Roundup Ultra	2.0	% v/v 4 WAC				
7	Roundup Ultra	2.0	% v/v 2 WAC	13	20	18	47
	Roundup Ultra	2.0	% v/v 8 WAC				
8	Roundup Ultra	2.0	% v/v 2 WAC	22	20	18	33
	Roundup Ultra	2.0	% v/v 10 WAC				
9	Roundup Ultra	2.0	% v/v 4 WAC	10	17	17	33
	Roundup Ultra	2.0	% v/v 8 WAC				
10	Roundup Ultra	2.0	% v/v 4 WAC	22	25	17	40
	Roundup Ultra	2.0	% v/v 10 WAC				
11	Roundup Ultra	2.0	% v/v 2 WAC	10	12	22	40
	Roundup Ultra	2.0	% v/v 4 WAC				
	Roundup Ultra	2.0	% v/v 8 WAC				
12	Roundup Ultra	2.0	% v/v 4 WAC	15	20	25	57
	Roundup Ultra	2.0	% v/v 8 WAC				
	Roundup Ultra	2.0	% v/v 10 WAC				
	LSD (P=.10)			5	8	7	10
	CV			32	37	31	24

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.

All Roundup Ultra applications included ammonium sulfate at 17 lbs/100 gallons.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Preemergence Herbicides

Project Code : PMO00-3
Cooperator : Dan & Max Meyer
Location : Flomot, TX
Experimental Design : RCB
Number of Reps/Plot Size ... : 3/5'X20'
Row Width/#Per Plot : 30"/2
Soil Type : loamy sand
Sand/Silt/Clay [%] : NA
OM [%] : 0.1
pH : 7.5
Planting Date : 5/17/00
Harvest Date : NA
Crop/Variety : Peanut/NA
Uniform Standard Treatmen : DNA PPI

Application Timing : PRE
Application Date : 5/19/00
Application Method : Broadcast
Time of Day : 10:00-10:30
Incorporation Equipment .. : NA
Air/Soil Temperature [F] ... : 60/70
Relative Humidity [%] : 10
Wind [mph/direction] : 4.5/SSW
Cloud Cover [%] : 100
Soil/Leaf Moisture : med/NA
Crop Stage/Diameter : NA
Sprayer Type/mph : BPK/3.0
Nozzle Type/Size : FF/TT11002
Boom Ht/# Noz/Spacing [in] . : 16/3/20
GPA/PSI : 15/14

Weed Species [population] ... : -----(height/# leaves)-----
NA [0/ft²] : NA

Comments: Trial was established to evaluate various herbicides for control of morningglory peanut. An irrigation application was applied immediately after the PRE herbicide applications. Cadre was applied postemergence as an overlay to the entire experimental area. Due to the low and sporadic morningglory population only crop tolerance evaluations were taken. No injury was observed with any of the treatments applied.

Texas A&M Research & Extension Center - Vernon

Peanut Tolerance to Preemergence Herbicides

Project Code: PMO00-3

Location: Flomot, TX

Cooperator: Dan & Max Meyer

Weed/Crop Code					Peanut	Peanut	Peanut
Rating Data Type					Injury	Injury	Injury
Rating Unit					%	%	%
Rating Date					5/25/00	6/7/00	7/6/00
Trt-Eval Interval							
Trt No	Treatment Name	Rate	Unit	Grow Stg			
1	Untreated				0	0	0
2	Strongarm	0.30	oz pr/A	PRE	0	0	0
3	Strongarm	0.45	oz pr/A	PRE	0	0	0
4	Valor	2.00	oz pr/A	PRE	0	0	0
5	Valor	3.00	oz pr/A	PRE	0	0	0
LSD (P=.10)					NS	NS	NS
CV					0	0	0

LSD = least significant difference; CV = coefficient of variation; NS = not significant.

Means within a column which differ by more than the LSD are statistically different at the 0.10 level of significance.