

Herbicide Evaluation Trials—1981

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A C K N O W L E D G E M E N T S

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Table 1: Abbreviations for the Headings

BLNS	Nightshade, Black
BRLE	Broadleaf
CLMW	Milkweed, Climbing
COCB	Cocklebur, Common
COMW	Milkweed, Common
COLQ	Lambsquarters, Common
CORW	Ragweed, Common
CRIN	% Crop Injury
FAPA	Panicum, Fall
GIFT	Foxtail, Giant
GRAS	Grass
ILMG	Morningglory, Ivy leaf
JIWE	Jimsonweed
JOGR	Johnsongrass
LACC	Crabgrass, Large
PESW	Pennsylvania Smartweed
POP	Plants/Acre x 100
PRSI	Sida, Prickly
PURS	Purslane
RRPW	Redroot Pigweed
SOKI	% Sod Kill
SWMG	Morningglory, Small White
TAMG	Morningglory, Tall
VELE	Velvetleaf
WHAS	White Heath Aster
YENS	Nutsedge, Yellow
YLD	Yield (Bu/Ac)

Table 2: Abbreviations for Application Methods

CDA	Controlled Droplet Application	
CR	Cracking Stage	
EP	Early Postemergence	Crop Stage and Weed Size Are Defined for Each Experiment
JT	Jointing Stage	
LBY	Layby	Application Made at Time Last Cultivation Would Occur
1LF	First Leaf Stage of Corn	
2LF	Second Leaf Stage of Corn	
4LF	Fourth Leaf Stage of Corn	
LP	Late Postemergence	Crop Stage and Weed Size Are Defined for Each Experiment
LLP	Late Late Postemergence	Crop Stage and Weed Size Are Defined for Each Experiment
MP	Mid Postemergence	Crop Stage and Weed Size Are Defined for Each Experiment
POD	Postemergence Directed	
PRE, PES	Preemergence, Preemergence Surface	
POI, POP	Postemergence Incorporated	
POS	Postemergence Surface	
PPI	Preplant Incorporated	
PPI	Preplant Incorporated to 1" Depth	
PRT	Pretransplant	
POE	Postemergence	
PWH	Prewheat Harvest	
POW	Post After Wheat Harvest	

Abbreviations of the Application Methods (continued)

R1	Beginning Bloom
R2	Full Bloom
R3	Beginning Pod
SAE	Selective Application Equipment
SPK	Spike
VC	Cotyledon
V2	Second Node (1 Fully Developed Trifoliate)
V5	Five Nodes (4 Fully Developed Trifoliate)
1TR	First Trifoliate of Crop
3TR	Third Trifoliate of Crop
+3D, 3DA	Three Days After Last Application
14D, 14DA	Fourteen Days After Last Application
21D, 21DA	Twenty-one Days After Last Application
2WK	Two Weeks Before Planting
3WK	Three Weeks Before Planting
4WK	Four Weeks Before Planting
6WK	Six Weeks Before Planting
7AM	Time of Day Application Made
11AM	Time of Day Application Made
2PM	Time of Day Application Made
8PM	Time of Day Application Made

Table 3: Techniques Used in Herbicide Trials

DESIGN:	Trials were designed as randomized complete blocks with four replications of plots, 2 rows wide by 30-40 feet long with one border row, except in no-tillage corn and soybeans which did not contain a border row.
APPLICATION:	Treatments were applied with a CO ₂ sprayer. Herbicides were incorporated with a power-driven rototiller in Lexington experiments, and a rotera was used in Princeton experiments.
RATINGS:	Weed control was rated on a scale of 0 to 100, with 0 representing no control and 100 representing total control. Crop injury was also rated on a scale of 0 to 100, where 0 represents no injury and 100 represents total crop damage. A rating of 30 or above is considered NOT commercially acceptable.
CULTIVATION:	Plots were not cultivated except certain CHECK plots where indicated.
ORGANIC MATTER:	Spindletop Farm ranged fro 3.2 to 6.1%. Princeton, KY ranged from 1.6 to 2.3%.
pH:	Spindletop Farm ranged from 5.4 to 6.6. Princeton, KY ranged from 6.0 to 6.5. Individual pH is listed on each experiment.

Note: The following information is found at the end of each experiment: Location, Soil type, Fertilization, pH, Organic matter, Planting date, Treatment date, Variety, and Stage of crop and weed growth when postemergence applications were made.

Table 4: Herbicides Used in Weed Control Studies, 1981

<u>CHEMICAL (Generic) NAME</u>	<u>TRADE NAME</u>
2,4-D	Dacamine 3,D, Dacamine 4D
2,4-D Amine	Formula 40
2,4-DB	Butyrac 200
2,4-D Ester	LV-4, Esteron 99
Acifluorofen	Blazer
Alachlor	Lasso
Alachlor + Atrazine	Lasso + Atrazine (pkg. mix)
Ammonium Sulfate	Ammonium Sulfate
ARD 54	ARD 54
ARD 1635	ARD 1635
ARD 1675	ARD 1675
Atrazine	Aatrex
BAS 9052	Poast
Benefin	Balan
Bentazon	Basagran
Benazolin	BTS 7903
Bifenox	Modown
Bromoxynil 1,2	Brominal, Bucril
Butylate + R-25788	Sutant
Butylate + R-33865	Butylate pkg. mix with R-33865
CGA 82725	CP 55097
Chloroamben	Amiben
CME 12750	CME 12750
CP 55097	CP 55097
Crop Oil	Crop Oil
Cyanazine	Bladex
Dicamba, Dicamba II	Banvel, Banvel II
Diclofop methyl	Hoelon
Dinoseb	Premerge
Diphenamid	Enide
Dowco 453	Dowco 453
DPX 5967, DPX 5969, DPX 6314	DPX 5967, DPX 5969, DPX 6314

Table 4: Herbicides Used in Weed Control Studies, 1981 (continued)

EL 5219	Flexlan
EL 5261	EL 5261
EPTC	Eptam
EPTC + R-25788	Eradicane
EPTC + R-33865	Sonalan
Ethafluralin	EPTC pkg. mix with R-33865
Fluchloralin	Basalin
Fusilade	Fusilade
Glyphosate	Roundup
HOE 661	HOE 661
Isopropalin	Paarlan
Ky 1-400	unavailable
Linuron	Lorox
M-4127 (Dowco 356)	Dowco 356
MBR 22359	MBR 22359
MBR 23709	MBR 23709
MBR 23713	MBR 23713
MC 10108	MC 10108
MC 10978 (Acifluorofen)	MC 10978 (Tackle)
Mefluidide	Vistar
Metalachlor	Dual
Metalachlor + Atrazine (pkg. mix)	Bicep
Metribuzin 1,2	Sencor, Lexone
MO 7007	MO 7077
Mobil 10978	Tackle
MON 8001	Bronco
NANPA/DN (Naptalam + Dinoseb)	Dyanap
Naptalam	Alanap L
Napropamide	Devrinol
NC 2915	NC 2915
NC 23909	NC 23909
Oil	Sunspray 11E

Table 4: Herbicides Used in Weed Control Studies, 1981 (continued)

Oil Concentrate	Oil Concentrate
Oryzalin	Surflan
Oxyflourfen	Goal
Paraquat	Paraquat CL
PC 671	Assist
Pebulate	Tillam
Pendimethalin	Prowl
PPG 844	PPG 844
Profluralin	Tolban
R-40244	R-40244
R-40244 + R-29148	R-40244 + R-29148 (pkg. mix)
RE 28236	PE 28236
RE 34800	RE 34800
RH 0265	RH 0265
RH 8817	RH 8817
RO 13-8895	RO 13-8895
S-734	S-734
SC 7829	SC 7829
SC 8149	SC 8149
SD 15418	SD 15418
SD 50093	SD 50093
SD 95481	SD 95481
SD 96803	SD 96803
Simazine	Princep
Sunspray 11E	Sunspray 11E
Surfactant	Surfel, Triton Ag 98, WK, X-77
Triclopyr	Garlon
Trifluralin	Treflan
Vernolate	Vernam
Vernolate + R-33865	Vernam pkg. mix with R-33865
Vernolate + R-25788	Vernam pkg. mix with R-25788

Table 5: 1981 Climatological Data, Lexington, Ky.

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
							HI	LO	HI	LO	
SPINDLETOP	5/ 1/81	64	46	--	89	43	63	58	64	51	.25
SPINDLETOP	5/ 2/81	63	36	.01	93	40	64	55	63	46	.12
SPINDLETOP	5/ 3/81	69	39	--	85	36	64	54	68	45	.15
SPINDLETOP	5/ 4/81	77	46	--	88	39	66	56	71	49	.23
SPINDLETOP	5/ 5/81	77	60	--	91	51	68	61	71	57	.12
SPINDLETOP	5/ 6/81	62	47	.15	92	85	67	59	70	53	.09
SPINDLETOP	5/ 7/81	63	38	.03	88	37	64	44	63	44	.17
SPINDLETOP	5/ 8/81	74	39	--	84	35	66	55	70	44	.17
SPINDLETOP	5/ 9/81	73	58	--	83	52	66	60	70	55	.19
SPINDLETOP	5/10/81	74	61	.02	84	58	66	60	68	57	.11
SPINDLETOP	5/11/81	56	46	.56	90	73	62	57	56	51	.16
SPINDLETOP	5/12/81	60	44	.02	91	58	61	55	60	47	.04
SPINDLETOP	5/13/81	71	44	--	92	37	65	55	68	47	.12
SPINDLETOP	5/14/81	68	56	.36	91	64	65	58	68	53	.16
SPINDLETOP	5/15/81	54	47	.06	92	70	61	56	60	49	.07
SPINDLETOP	5/16/81	69	42	--	94	43	64	53	68	44	.07
SPINDLETOP	5/17/81	72	47	--	88	43	66	56	71	49	.19
SPINDLETOP	5/18/81	64	49	.36	92	68	67	59	71	53	.20
SPINDLETOP	5/19/81	51	47	1.34	91	85	60	55	56	48	.17
SPINDLETOP	5/20/81	68	47	.10	80	37	62	54	63	46	.09
SPINDLETOP	5/21/81	73	37	--	74	32	66	54	68	44	.23
SPINDLETOP	5/22/81	77	43	--	76	37	68	56	74	50	.19
SPINDLETOP	5/23/81	82	51	--	90	40	69	59	76	52	.28
SPINDLETOP	5/24/81	82	59	--	90	40	71	60	78	53	.24
SPINDLETOP	5/25/81	81	65	--	88	56	72	60	80	53	.26
SPINDLETOP	5/26/81	80	64	TRACE	90	61	70	65	75	62	.19
SPINDLETOP	5/27/81	71	63	1.12	92	78	70	64	73	60	.20
SPINDLETOP	5/28/81	73	62	.11	90	59	68	63	69	59	.06
SPINDLETOP	5/29/81	81	51	--	92	47	72	61	77	54	.18
SPINDLETOP	5/30/81	80	65	--	83	61	70	65	74	62	.27
SPINDLETOP	5/31/81	71	65	.42	91	73	70	66	72	63	.13

*****A '*' ABOVE AN AVERAGE VALUE MEANS THERE IS *****
 ***** ONE OR MORE OF MISSING DATA FOR THAT ITEM *****

AVERAGES	SUMMARY ACCUMULATIONS													
	FOR PERIOD						FOR PERIOD							
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL					
	HI	LO	AVG	HI	LO	GRASS	BARE	50	DEG.	DEG.	MOD	DAYS		
	HI	LO		HI	LO	HI	LO	HI	LO					
SPINDLETOP	70	50	61	88	53	66	58	69	52	4.66	5.10	388	174	48

STATION	EXTREMES FOR PERIOD												
	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL					
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.	MOD	DAYS	DAYS	
	HI	LO	HI	LO	HI	LO	HI	LO					
SPINDLETOP	82	36	1.34	94	32	72	44	80	44	.28	23	15	8

Table 5: 1981 Climatological Data, Lexington, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
								HI	LO	HI	LO
SPINDLETOP	6/ 1/81	68	62	.53	90	71	70	60	70	64	.15
SPINDLETOP	6/ 2/81	82	63	--	90	60	75	61	72	64	.07
SPINDLETOP	6/ 3/81	82	66	.09	88	70	72	68	76	64	.24
SPINDLETOP	6/ 4/81	82	71	.57	92	65	75	65	73	68	.22
SPINDLETOP	6/ 5/81	85	69	--	91	63	76	68	79	64	.19
SPINDLETOP	6/ 6/81	75	68	.64	91	76	76	69	76	67	.15
SPINDLETOP	6/ 7/81	80	59	.03	88	39	78	67	79	65	.16
SPINDLETOP	6/ 8/81	86	58	--	90	54	80	60	78	68	.29
SPINDLETOP	6/ 9/81	86	75	--	87	64	78	70	80	67	.26
SPINDLETOP	6/10/81	79	68	.12	94	73	76	61	80	67	.18
SPINDLETOP	6/11/81	82	67	--	93	64	78	67	81	60	.13
SPINDLETOP	6/12/81	87	66	--	90	63	78	70	82	66	.25
SPINDLETOP	6/13/81	87	70	.04	90	60	80	71	85	67	.21
SPINDLETOP	6/14/81	89	73	.01	87	56	81	73	87	69	.25
SPINDLETOP	6/15/81	89	74	--	84	51	81	74	89	70	.18
SPINDLETOP	6/16/81	87	73	.14	89	63	81	72	89	70	.32
SPINDLETOP	6/17/81	78	58	--	94	50	78	70	84	62	.24
SPINDLETOP	6/18/81	82	54	--	95	48	79	68	84	61	.24
SPINDLETOP	6/19/81	80	59	--	94	47	79	69	85	63	.25
SPINDLETOP	6/20/81	81	61	.14	93	55	77	69	80	64	.16
SPINDLETOP	6/21/81	85	69	.11	91	62	77	70	79	67	.21
SPINDLETOP	6/22/81	85	73	--	87	38	78	70	82	67	.32
SPINDLETOP	6/23/81	83	58	--	90	40	79	68	86	62	.29
SPINDLETOP	6/24/81	89	60	--	89	44	79	68	87	64	.30
SPINDLETOP	6/25/81	89	74	--	87	43	79	72	87	71	.34
SPINDLETOP	6/26/81	81	52	--	94	41	80	69	87	65	.38
SPINDLETOP	6/27/81	80	52	--	87	37	80	68	87	65	.35
SPINDLETOP	6/28/81	87	53	--	90	43	79	68	88	64	.22
SPINDLETOP	6/29/81	88	67	--	85	50	79	71	89	70	.41
SPINDLETOP	6/30/81	88	64	--	91	40	80	71	88	70	.17

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 ***** ONE OR MORE OF MISSING DATA FOR THAT ITEM *****

AVERAGES	SUMMARY ACCUMULATIONS												
	FOR PERIOD						FOR PERIOD						
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL				
	HI	LO	AVG	HI	LO	GRASS	BARE	50	DEG.	DEG.	MOD	DAYS	
	HI	LO		HI	LO	HI	LO	HI	LO	HI	LO	DAYS	
SPINDLETOP	83	65	74	90	54	78	68	82	66	2.42	7.13	716	277
STATION	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL					
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.	MOD	DAYS	DAYS	
	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	DAYS	DAYS	
SPINDLETOP	89	52	.64	95	37	81	60	89	60	.41	31	17	

Table 5: 1981 Climatological Data, Lexington, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
								HI	LO	HI	LO
SPINDLETOP	7/ 1/81	85	63	.11	93	50	80	70	87	68	.23
SPINDLETOP	7/ 2/81	82	61	--	89	50	80	70	85	64	
SPINDLETOP	7/ 3/81	78	67	1.06	90	63	79	69	78	64	
SPINDLETOP	7/ 4/81	81	63	.36	89	66	84	64	80	70	
SPINDLETOP	7/ 5/81	78	66	.93	89	50	78	70	80	66	
SPINDLETOP	7/ 6/81	79	69	.15	89	76	79	74	80	69	.18
SPINDLETOP	7/ 7/81	86	70	.14	90	57	79	73	80	70	.20
SPINDLETOP	7/ 8/81	90	70	--	90	58	81	74	82	70	.19
SPINDLETOP	7/ 9/81	89	71	--	90	53	82	74	83	70	.26
SPINDLETOP	7/10/81	92	71	.28	89	63	81	76	81	72	.25
SPINDLETOP	7/11/81	87	65	.10	91	41	81	75	85	69	.31
SPINDLETOP	7/12/81	90	63	--	90	51	82	74	86	67	.26
SPINDLETOP	7/13/81	92	72	--	90	50	82	75	86	70	.26
SPINDLETOP	7/14/81	88	75	--	85	44	82	76	86	72	.21
SPINDLETOP	7/15/81	85	64	.29	85	50	80	72	86	68	.24
SPINDLETOP	7/16/81	84	70	.02	85	59	80	74	82	71	.18
SPINDLETOP	7/17/81	85	69	--	85	46	82	74	87	68	.22
SPINDLETOP	7/18/81	87	64	--	86	42	81	72	90	67	.26
SPINDLETOP	7/19/81	88	70	.43	86	54	82	74	90	70	.36
SPINDLETOP	7/20/81	88	73	--	83	50	82	76	85	72	.26
SPINDLETOP	7/21/81	81	67	.19	83	51	81	74	80	67	.25
SPINDLETOP	7/22/81	81	62	--	86	44	80	72	83	65	.21
SPINDLETOP	7/23/81	82	61	--	84	47	78	71	81	64	.19
SPINDLETOP	7/24/81	87	62	--	86	51	79	71	86	66	.19
SPINDLETOP	7/25/81	88	67	--	86	50	81	73	88	70	.23
SPINDLETOP	7/26/81	90	73	--	84	53	82	74	89	71	.25
SPINDLETOP	7/27/81	89	70	--	85	60	81	74	90	73	.23
SPINDLETOP	7/28/81	85	70	1.22	84	61	81	72	88	70	.46
SPINDLETOP	7/29/81	71	59	.07	84	55	78	72	78	65	.15
SPINDLETOP	7/30/81	77	55	--	86	43	75	69	78	59	.25
SPINDLETOP	7/31/81	83	59	--	83	50	76	69	82	61	.19

*****A '*' ABOVE AN AVERAGE VALUE MEANS THERE IS *****
 ***** ONE OR MORE OF MISSING DATA FOR THAT ITEM *****

AVERAGES	SUMMARY ACCUMULATIONS										GDD	HEAT	COOL	
	FOR PERIOD					FOR PERIOD								50
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL					
	HI	LO	AVG	HI	LO	GRASS	BARE	HI	LO	HI	LO	MOD	DAYS	DAYS
SPINDLETOP	85	66	76	87	53	80	72	84	68	5.35	6.47	781		307
STATION	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL						
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.	MOD	DAYS	DAYS		
SPINDLETOP	92	55	1.22	93	41	84	64	90	59	.46	31			17

Table 5: 1981 Climatological Data, Lexington, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
							HI	LO	HI	LO	
SPINDLETOP	8/ 1/81	85	62	--	87	44	79	70	88	64	.23
SPINDLETOP	8/ 2/81	86	65	--	85	45	80	71	88	67	.27
SPINDLETOP	8/ 3/81	85	69	--	85	46	80	72	87	69	.26
SPINDLETOP	8/ 4/81	90	73	--	82	50	82	73	90	71	.26
SPINDLETOP	8/ 5/81	92	73	--	86	50	82	74	90	73	.23
SPINDLETOP	8/ 6/81	84	70	.80	85	55	81	73	86	70	.25
SPINDLETOP	8/ 7/81	74	68	.56	85	73	80	72	80	67	.11
SPINDLETOP	8/ 8/81	80	64	.13	86	51	78	70	78	65	.19
SPINDLETOP	8/ 9/81	82	61	.04	85	45	79	70	81	63	.24
SPINDLETOP	8/10/81	85	64	--	84	43	79	71	81	65	.21
SPINDLETOP	8/11/81	82	68	--	83	51	79	72	82	68	.21
SPINDLETOP	8/12/81	83	55	--	88	41	79	70	83	61	.20
SPINDLETOP	8/13/81	83	57	--	86	44	78	69	83	63	.18
SPINDLETOP	8/14/81	84	59	--	86	42	78	69	84	63	.21
SPINDLETOP	8/15/81	84	70	--	79	57	80	71	84	68	.19
SPINDLETOP	8/16/81	82	66	.09	85	53	80	75	84	68	.18
SPINDLETOP	8/17/81	75	58	--	82	43	77	70	82	63	.27
SPINDLETOP	8/18/81	81	55	--	82	52	77	67	81	60	.18
SPINDLETOP	8/19/81	80	63	.23	88	35	76	69	81	65	.19
SPINDLETOP	8/20/81	81	57	--	84	43	77	67	80	60	.21
SPINDLETOP	8/21/81	71	63	--	81	60	75	69	78	64	.09
SPINDLETOP	8/22/81	83	58	--	87	39	78	67	85	62	.20
SPINDLETOP	8/23/81	85	56	--	87	41	78	68	85	62	.26
SPINDLETOP	8/24/81	87	61	--	85	41	78	69	84	65	.20
SPINDLETOP	8/25/81	86	61	--	84	38	78	68	85	65	.23
SPINDLETOP	8/26/81	86	57	--	85	34	79	67	86	65	.24
SPINDLETOP	8/27/81	86	68	--	81	44	77	70	84	69	.25
SPINDLETOP	8/28/81	84	66	.24	83	41	77	69	84	67	.25
SPINDLETOP	8/29/81	78	68	.08	82	59	76	70	77	67	.15
SPINDLETOP	8/30/81	86	65	--	84	44	78	69	83	64	.19
SPINDLETOP	8/31/81	88	66	--	84	41	79	70	86	66	.26

*****A '*' ABOVE AN AVERAGE VALUE MEANS THERE IS *****
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AVERAGES	SUMMARY ACCUMULATIONS										GDD	HEAT	COOL
	FOR PERIOD					FOR PERIOD							
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL				
	HI	LO	AVG	HI	LO	GRASS	BARE	50	DEG.	DEG.			
				HI	LO	HI	LO	MOD	DAYS	DAYS			
SPINDLETOP	83	63	74	84	47	79	70	84	65	2.17	6.59	723	264
STATION	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL					
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.				
			HI	LO	HI	LO	MUD	DAYS	DAYS				
SPINDLETOP	92	55	.80	88	34	82	67	90	60	.27	30	18	

Table 5: 1981 Climatological Data, Lexington, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
								HI	LO	HI	LO
SPINDLETOP	9/ 1/81	85	70	.06	85	55	79	71	84	70	.18
SPINDLETOP	9/ 2/81	86	67	.44	85	67	78	70	80	67	.16
SPINDLETOP	9/ 3/81	80	70	.41	85	64	76	70	76	68	.07
SPINDLETOP	9/ 4/81	81	69	--	85	49	79	71	79	67	.20
SPINDLETOP	9/ 5/81	83	58	--	85	43	78	70	79	65	.17
SPINDLETOP	9/ 6/81	81	58	--	85	48	78	70	78	64	.25
SPINDLETOP	9/ 7/81	82	57	--	86	44	77	65	80	61	.20
SPINDLETOP	9/ 8/81	78	64	.13	85	41	77	70	78	65	.21
SPINDLETOP	9/ 9/81	78	50	--	87	37	75	65	75	57	.25
SPINDLETOP	9/10/81	80	51	--	85	39	74	64	78	56	.23
SPINDLETOP	9/11/81	83	59	--	83	42	75	65	81	60	.20
SPINDLETOP	9/12/81	85	62	--	86	38	77	66	83	62	.30
SPINDLETOP	9/13/81	86	62	--	88	41	78	67	84	64	.28
SPINDLETOP	9/14/81	84	66	TRACE	82	43	76	68	82	66	.16
SPINDLETOP	9/15/81	71	66	.25	85	69	74	69	77	66	.09
SPINDLETOP	9/16/81	70	51	--	86	39	72	64	70	57	.17
SPINDLETOP	9/17/81	62	45	.01	87	48	68	61	66	53	.11
SPINDLETOP	9/18/81	60	43	.01	86	48	66	59	64	52	.11
SPINDLETOP	9/19/81	68	48	--	80	36	66	58	66	52	.21
SPINDLETOP	9/20/81	77	52	--	75	36	68	59	73	52	.23
SPINDLETOP	9/21/81	77	53	--	84	36	69	60	74	56	.23
SPINDLETOP	9/22/81	73	60	--	75	57	68	62	73	59	.26
SPINDLETOP	9/23/81	68	44	--	88	30	67	58	56	70	.19
SPINDLETOP	9/24/81	71	39	--	90	30	67	56	70	49	.16
SPINDLETOP	9/25/81	80	48	--	82	26	68	58	74	53	.23
SPINDLETOP	9/26/81	84	61	--	84	46	70	61	79	58	.21
SPINDLETOP	9/27/81	80	64	.04	85	37	70	64	76	61	.28
SPINDLETOP	9/28/81	70	43	--	93	26	70	58	73	53	.21
SPINDLETOP	9/29/81	72	38	--	90	30	67	57	72	57	.18
SPINDLETOP	9/30/81	86	56	--	75	34	70	59	76	56	.21

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SUMMARY
 ACCUMULATIONS

STATION	AVERAGES			FOR PERIOD								FOR PERIOD		
	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL	50	DEG.	DEG.		
	HI	LO	AVG	HI	LO	HI	LO	HI	LO	HI	LO	MOD	DAYS	DAYS
SPINDLETOP	77	56	67	85	43	73	64	75	60	1.35	5.94	527	68	126

STATION	TEMP		PCPN	EXTREMES FOR PERIOD		SOILTEMP	EVAP	GDD	HEAT	COOL			
	HI	LO		HI	LO						50	DEG.	DEG.
	HI	LO		HI	LO	HI	LO	MOD	DAYS	DAYS			
SPINDLETOP	86	38	.44	93	26	79	56	84	49	.30	28	13	13

Table 6: 1981 Climatological Data, Princeton, Ky.

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
								HI	LO	HI	LO
PRINCETON	5/ 1/81	80	50	TRACE	100	36	68	64			
PRINCETON	5/ 2/81	72	32	--	100	38	72	65			
PRINCETON	5/ 3/81	75	43	--	100	36	68	61			
PRINCETON	5/ 4/81	80	52	--	100	42	68	63			
PRINCETON	5/ 5/81	80	62	--	100	60	68	65			
PRINCETON	5/ 6/81	80	50	--	100	100	68	65			
PRINCETON	5/ 7/81	78	43	--	100	40	66	62			
PRINCETON	5/ 8/81	74	63	--	100	68	66	64			
PRINCETON	5/ 9/81	74	60	.21	100	60	68	66			
PRINCETON	5/10/81	72	59	.16	98	75	73	67			
PRINCETON	5/11/81	60	42	--	100	98	64	63			
PRINCETON	5/12/81	66	42	--	100	68	65	60			
PRINCETON	5/13/81	70	50	--							
PRINCETON	5/14/81	70	40	.62	100	88	65	60			
PRINCETON	5/15/81	70	49	.02	100	42	65	60			
PRINCETON	5/16/81	72	47	--	100	50	66	62			
PRINCETON	5/17/81	68	48	TRACE	100	70	65	57			
PRINCETON	5/18/81	68	54	1.30	100	100	65	57			
PRINCETON	5/19/81	62	47	1.70	100	96	65	60			
PRINCETON	5/20/81	69	48	.07	100	34	65	60			
PRINCETON	5/21/81	76	42	--	100	30	66	62			
PRINCETON	5/22/81	81	48	--	98	40	68	63			
PRINCETON	5/23/81	84	51	--	94	36	68	66			
PRINCETON	5/24/81	83	63	TRACE	100	68	70	61			
PRINCETON	5/25/81	82	60	--	96	64	74	70			
PRINCETON	5/26/81	77	64	.43	96	68	73	70			
PRINCETON	5/27/81	82	64	.05	100	96	70	65			
PRINCETON	5/28/81	80	57	--	96	40	74	68			
PRINCETON	5/29/81	84	65	--	100	74	73	72			
PRINCETON	5/30/81	83	65	.73	100	70	74	67			
PRINCETON	5/31/81	78	62	.32	98	76	74	70			

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STATION	SUMMARY ACCUMULATIONS												
	FOR PERIOD						FOR PERIOD						
	TEMP HI	TEMP LO	PER AVG	RH HI	RH LO	PCPN	SOILTEMP GRASS HI	SOILTEMP BARE HI	SOILTEMP GRASS LO	SOILTEMP BARE LO	EVAP	GDD 50 MOD	HEAT DEG. DAYS
PRINCETON	75	52	64	99	62	5.61	68	64			470	97	73
STATION	EXTREMES FOR PERIOD												
TEMP HI	TEMP LO	PCPN	RH HI	RH LO	SOILTEMP GRASS HI	SOILTEMP BARE HI	SOILTEMP GRASS LO	SOILTEMP BARE LO	EVAP	GDD 50 MOD	HEAT DEG. DAYS	COOL DEG. DAYS	
PRINCETON	84	32	1.70	100	30	74	57			25	13	10	

Table 6: 1981 Climatological Data, Princeton, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
		HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
PRINCETON	6/ 1/81	80	66	1.12	100	65	74	70			
PRINCETON	6/ 2/81	85	65	1.12	100	60	74	71			
PRINCETON	6/ 3/81	84	68	.47	98	70	74	72			
PRINCETON	6/ 4/81	84	70	--	100	68	74	72			
PRINCETON	6/ 5/81	86	70	.15	100	70	74	73			
PRINCETON	6/ 6/81	81	67	1.50	100	95	74	73			
PRINCETON	6/ 7/81	86	68	.13	100	75	78	72			
PRINCETON	6/ 8/81	88	69	--	96	48	80	76			
PRINCETON	6/ 9/81	91	77	--	98	68	79	70			
PRINCETON	6/10/81	90	78	.02	100	66	79	66			
PRINCETON	6/11/81	85	66	.50	100	70	78	70			
PRINCETON	6/12/81	88	68	.12	100	60	80	75			
PRINCETON	6/13/81	90	72	--	100	52	82	76			
PRINCETON	6/14/81	91	74	--	98	52	81	77			
PRINCETON	6/15/81	90	74	--	100	80	81	77			
PRINCETON	6/16/81	90	68	TRACE	100	64	82	78			
PRINCETON	6/17/81	82	54	--	100	40	82	77			
PRINCETON	6/18/81	82	55	--	98	46	82	78			
PRINCETON	6/19/81	82	64	.72	98	80	82	78			
PRINCETON	6/20/81	86	65	1.40	100	70	83	79			
PRINCETON	6/21/81	87	69	.15	98	68	80	72			
PRINCETON	6/22/81	88	77	--	100	50	82	76			
PRINCETON	6/23/81	86	64	--	98	30	82	76			
PRINCETON	6/24/81	92	63	--	98	52	82	78			
PRINCETON	6/25/81	92	74	--	92	50	82	78			
PRINCETON	6/26/81	85	58	--	100	38	82	78			
PRINCETON	6/27/81	84	60	--	98	40	83	79			
PRINCETON	6/28/81	89	61	--	98	46	82	74			
PRINCETON	6/29/81	88	72	--	98	42	82	79			
PRINCETON	6/30/81	88	68	TRACE	100	40	82	79			

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AVERAGES		SUMMARY										
FOR PERIOD		ACCUMULATIONS					FOR PERIOD					
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL			
	HI	LO	HI	LO	HI	LO	50	DEG.	DEG.			
		AVG	LO	HI	LO	HI	MOD	DAYS	DAYS			
PRINCETON	87	67	77	99	59	80	75			7.40	791	366
STATION		EXTREMES FOR PERIOD										
	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL				
	HI	LO	HI	LO	HI	LO	50	DEG.	DEG.			
			HI	LO	HI	LO	MOD	DAYS	DAYS			
PRINCETON	92	54	1.50	100	30	83	66			32		19

Table 6: 1981 Climatological Data, Princeton, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
						HI	LO	HI	LO	HI	LO
PRINCETON	7/ 1/81	88	69	.57	98	72	82	79			
PRINCETON	7/ 2/81	88	68	--	100	70	82	80			
PRINCETON	7/ 3/81	85	68	--	100	70	82	80			
PRINCETON	7/ 4/81	87	70	--	98	60	82	81			
PRINCETON	7/ 5/81	86	70	1.04	98	60	82	77			
PRINCETON	7/ 6/81	82	70	.48	100	88	82	78			
PRINCETON	7/ 7/81	82	70	.04	100	80	82	78			
PRINCETON	7/ 8/81	84	64	--	100	70	82	78			
PRINCETON	7/ 9/81	94	72	--	98	60	84	79			
PRINCETON	7/10/81	92	72	.24	100	58	84	79			
PRINCETON	7/11/81	92	68	--	100	40	85	79			
PRINCETON	7/12/81	94	68	--	98	50	84	76			
PRINCETON	7/13/81	94	73	--	100	60	84	77			
PRINCETON	7/14/81	95	74	--	100	62	85	79			
PRINCETON	7/15/81	94	73	--	98	60	85	82			
PRINCETON	7/16/81	93	72	.41	100	70	85	82			
PRINCETON	7/17/81	88	72	.33	100	82	85	82			
PRINCETON	7/18/81	92	71	--	98	60	84	78			
PRINCETON	7/19/81	92	77	--	98	56	84	77			
PRINCETON	7/20/81	94	74	--	98	58	85	81			
PRINCETON	7/21/81	93	66	.51	100	50	85	78			
PRINCETON	7/22/81	85	63	--	98	50	83	77			
PRINCETON	7/23/81	84	63	.09	98	60	83	78			
PRINCETON	7/24/81	87	70	.50	98	70	84	77			
PRINCETON	7/25/81	85	65	.14	100	98	84	78			
PRINCETON	7/26/81	91	71	--	96	60	83	77			
PRINCETON	7/27/81	90	73	.25	98	56	83	79			
PRINCETON	7/28/81	84	71	1.01	98	90	83	79			
PRINCETON	7/29/81	80	63	.10	98	58	80	77			
PRINCETON	7/30/81	79	56	--	98	50	80	74			
PRINCETON	7/31/81	85	58	--	98	54	78	73			

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AVERAGES	SUMMARY									
	FOR PERIOD					ACCUMULATIONS				
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL	
	HI	LO	AVG	HI	LO	GRASS	BARE	50	DEG.	DEG.
				HI	LO	HI	LO	MOD	DAYS	DAYS
PRINCETON	88	69	79	99	64	83	78	5.71	841	430

STATION	EXTREMES FOR PERIOD									
	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL		
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.	
				HI	LO	HI	LO	MOD	DAYS	DAYS
PRINCETON	95	56	1.04	100	40	85	73	32		20

Table 6: 1981 Climatological Data, Princeton, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP
		HI	LO		HI	LO	GRASS		BARE		
				HI			LO	HI	LO		
PRINCETON	8/ 1/81	88	65	--	100	56	78	73			
PRINCETON	8/ 2/81	85	65	--	98	56	80	76			
PRINCETON	8/ 3/81	86	75	TRACE	100	60	80	76			
PRINCETON	8/ 4/81	91	71	--	100	60	81	77			
PRINCETON	8/ 5/81	94	72	.05	100	56	81	78			
PRINCETON	8/ 6/81	92	75	--	100	60	82	78			
PRINCETON	8/ 7/81	82	70	.04	100	80	82	78			
PRINCETON	8/ 8/81	84	64	--	100	70	82	78			
PRINCETON	8/ 9/81	86	65	--	98	48	82	75			
PRINCETON	8/10/81	90	64	--	100	42	82	78			
PRINCETON	8/11/81	90	65	TRACE	100	60	83	78			
PRINCETON	8/12/81	82	56	--	96	46	82	78			
PRINCETON	8/13/81	87	57	--	98	42	82	77			
PRINCETON	8/14/81	90	60	--	96	40	82	78			
PRINCETON	8/15/81	89	68	.26	98	70	82	78			
PRINCETON	8/16/81	86	70	.05	98	64	80	75			
PRINCETON	8/17/81	80	63	--	98	70	81	76			
PRINCETON	8/18/81	82	61	--	100	60	81	77			
PRINCETON	8/19/81	70	64	.03	100	80	82	78			
PRINCETON	8/20/81	82	69	.05	100	60	82	78			
PRINCETON	8/21/81	82	62	.03	98	54	80	73			
PRINCETON	8/22/81	82	65	.02	100	64	81	75			
PRINCETON	8/23/81	88	62	--	98	46	77	73			
PRINCETON	8/24/81	90	65	--	100	49	79	73			
PRINCETON	8/25/81	90	65	--	98	46	80	75			
PRINCETON	8/26/81	90	71	--	96	48	80	76			
PRINCETON	8/27/81	89	67	1.14	98	88	79	75			
PRINCETON	8/28/81	85	68	.03	98	88	76	73			
PRINCETON	8/29/81	88	68	.26	98	62	80	74			
PRINCETON	8/30/81	86	67	--	98	66	79	76			
PRINCETON	8/31/81	87	69	TRACE	98	60	80	76			

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AVERAGES	SUMMARY ACCUMULATIONS									
	FOR PERIOD					FOR PERIOD				
STATION	TEMP	PER	RH	SOILTEMP		PCPN	EVAP	GDD	HEAT	COOL
	HI	LO	AVG	HI	LO	GRASS	BARE	50	DEG.	DEG.
	HI	LO		HI	LO	HI	LO	MOD	DAYS	DAYS
PRINCETON	86	66	76	99	60	81	76	1.96	791	353
STATION	EXTREMES FOR PERIOD									
	TEMP	PCPN	RH	SOILTEMP		EVAP	C			
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.	
	HI	LO	HI	LO	HI	LO	MOD	DAYS	DAYS	
PRINCETON	94	56	1.14	100	40	83	73	31		19

Table 6: 1981 Climatological Data, Princeton, Ky. (continued)

		TEMP		PCPN	RH		SOILTEMP				EVAP	
		HI	LO		HI	LO	GRASS		BARE			
								HI	LO	HI	LO	
PRINCETON	9/ 1/81	84	68	.33	98	94	80	76				
PRINCETON	9/ 2/81	79	68	.84	100	86	82	76				
PRINCETON	9/ 3/81	84	66	TRACE	98	56	82	79				
PRINCETON	9/ 4/81	82	56	.01	98	56	80	73				
PRINCETON	9/ 5/81	82	64	--	98	54	80	73				
PRINCETON	9/ 6/81	82	61	--	98	56	77	73				
PRINCETON	9/ 7/81	84	62	TRACE	100	56	78	75				
PRINCETON	9/ 8/81	78	63	.12	98	50	78	75				
PRINCETON	9/ 9/81	78	52	--	98	42	78	75				
PRINCETON	9/10/81	82	52	--	98	50	77	72				
PRINCETON	9/11/81	84	54	--	98	44	78	75				
PRINCETON	9/12/81	88	56	--	100	38	71	71				
PRINCETON	9/13/81	88	62	--	96	44	78	71				
PRINCETON	9/14/81	87	66	.09	98	60	78	74				
PRINCETON	9/15/81	78	66	2.34	100	100	76	72				
PRINCETON	9/16/81	71	54	--	100	40	74	70				
PRINCETON	9/17/81	68	44	.03	98	56	76	64				
PRINCETON	9/18/81	65	47	--	98	48	69	65				
PRINCETON	9/19/81	69	42	--	98	50	69	65				
PRINCETON	9/20/81	78	50	--	98	50	67	62				
PRINCETON	9/21/81	78	50	--	98	50	67	62				
PRINCETON	9/22/81	76	63	--	98	58	67	65				
PRINCETON	9/23/81	70	46	--	98	38	67	65				
PRINCETON	9/24/81	80	46	--	98	26	67	65				
PRINCETON	9/25/81	85	54	--	98	60	68	66				
PRINCETON	9/26/81	86	66	--	98	50	68	66				
PRINCETON	9/27/81	84	64	.05	98	46	73	63				
PRINCETON	9/28/81	75	50	--	98	30	73	64				
PRINCETON	9/29/81	81	43	--	98	60	74	68				
PRINCETON	9/30/81	86	55	--	96	38	74	64				

*****A '*' ABOVE AN AVERAGE VALUE MEANS THERE IS *****
 ***** ONE OR MORE OF MISSING DATA FOR THAT ITEM *****

AVERAGES	SUMMARY										
	FOR PERIOD					ACCUMULATIONS					FOR PERIOD
STATION	TEMP	PER	RH	SOILTEMP	PCPN	EVAP	GDD	HEAT	COOL		
	HI	LO	AVG	HI	LO	GRASS	BARE	50	DEG.	DEG.	
				HI	LO	HI	LO	MOD	DAYS	DAYS	
PRINCETON	80	56	68	98	53	74	70	3.81	560	38	141

STATION	EXTREMES FOR PERIOD									
	TEMP	PCPN	RH	SOILTEMP	EVAP	GDD	HEAT	COOL		
	HI	LO	HI	LO	GRASS	BARE	50	DEG.	DEG.	
					HI	LO	HI	LO	MOD	DAYS
PRINCETON	88	42	2.34	100	26	82	62	26	9	12

Table 7: Corn Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----						-----JULY 17-----				---10-7---	
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE	GIFI	COLQ	VELE	CRIN	YLD	POP
1	ATRAZINE	90.00 WDG	2.00 LB/AC	PRE	88	100	0	88	100	100	85	100	100	0	135	21
2A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	100	98	0	100	98	100	95	98	95	0	141	21
2B	SIMAZINE	4.00 L	2.00 LB/AC	PRE												
3A	ATRAZINE	90.00 WDG	1.50 LB/AC	PRE	100	95	2	100	95	98	100	100	100	0	128	20
3B	SIMAZINE	90.00 WDG	1.60 LB/AC	PRE												
4A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	100	98	10	100	98	98	98	100	100	0	130	20
4B	METOLACHLOR	8.00 E	2.00 LB/AC	PRE												
4C	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
5A	ATRAZINE	4.00 L	.80 LB/AC	PRE	100	100	35	100	100	100	98	100	100	0	125	19
5B	METOLACHLOR	8.00 E	2.00 LB/AC	PRE												
5C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE												
6	CYANAZINE	4.00 L	3.00 LB/AC	PRE	92	90	0	92	90	90	82	90	90	0	131	20
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	98	92	0	98	92	92	88	95	92	0	125	21
7B	ALACHLOR	4.00 E	2.00 LB/AC	PRE												
8A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	98	92	0	98	98	98	92	98	95	0	130	21
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
9A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	98	95	0	98	100	98	92	100	98	0	126	21
9B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
9C	ALACHLOR	4.00 E	2.00 LB/AC	PRE												
10A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	100	98	0	100	98	98	95	98	95	0	128	21
10B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
10C	METOLACHLOR	8.00 E	2.00 LB/AC	PRE												
11A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	100	100	25	100	100	100	98	100	100	5	133	20
11B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												
11C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE												
12	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	100	90	0	100	95	85	100	90	85	0	131	20
13	METOLACHLOR	8.00 E	3.00 LB/AC	PRE	100	90	0	100	92	85	100	90	88	0	135	22
14A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	0	100	100	88	98	100	80	0	123	21
14B	SIMAZINE	4.00 L	1.60 LB/AC	PRE												
15A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	0	100	100	100	100	100	95	0	118	21
15B	SIMAZINE	90.00 WDG	1.60 LB/AC	PRE												
16A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	0	100	98	98	100	98	98	0	127	20
16B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												

Table 7: Corn Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----						-----JULY 17-----				-----10-7-----	
					GRAS	BRLE	CRIN	GIET	COLQ	VELE	GIET	COLQ	VELE	CRIN	YLD.	POP.
17A	METOLACHLOR	8.00 E	1.60 LB/AC	PRE	98	100	0	98	100	100	95	100	100	0	118	20
17B	ATRAZINE	4.00 L	2.00 LB/AC	PRE												
18A	METOLACHLOR	5.00 E	1.60 LB/AC	PRE	98	98	0	98	100	100	90	100	100	0	130	21
18B	ATRAZINE	90.00 WDG	2.00 LB/AC	PRE												
19A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	100	100	100	100	100	100	0	128	21
19B	ATRAZINE	4.00 L	2.50 LB/AC	PRE												
20A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	100	100	100	90	100	98	0	116	21
20B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
20C	DICAMBA	4.00 S	.50 LB/AC	PRE												
21A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	90	0	100	98	90	95	100	90	0	127	21
21B	CYANAZINE	4.00 L	2.00 LB/AC	PRE												
22A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	5	100	98	98	100	98	98	0	128	20
22B	CYANAZINE	4.00 L	2.00 LB/AC	PRE												
22C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE												
23A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	5	100	100	100	90	100	100	0	128	20
23B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												
23C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE												
24	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	85	0	100	88	80	95	80	68	0	129	21
25	ALACHLOR	4.00 E	3.00 LB/AC	PRE	98	85	0	98	88	82	95	82	88	0	131	21
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	0	100	100	100	92	100	100	0	123	21
26B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												
27A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PRE	98	100	0	98	100	100	92	100	100	0	122	22
27B	WITH ATRAZINE	1.50	1.50	PRE												
28A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	98	12	100	98	95	95	98	98	0	122	18
28B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												
28C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE												
29	CP 55097	8.00 EC	2.25 LB/AC	PRE	100	90	0	100	90	85	95	88	78	0	116	20
30A	CP 55097	8.00 EC	1.75 LB/AC	PRE	100	100	0	100	100	100	92	100	100	0	117	20
30B	ATRAZINE	4.00 L	1.40 LB/AC	PRE												
31A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	100	100	0	100	100	100	95	100	100	0	124	21
31B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												
32A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	100	98	0	100	100	100	92	100	100	0	119	21
32B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
32C	SIMAZINE	4.00 L	1.00 LB/AC	PRE												

Table 7: Corn Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----						-----JULY 17-----				---10-7---	
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE	GIFI	COLQ	VELE	CRIN	YLD	POP
33A	PENDIMETHALIN	50.00 DF	1.50 LB/AC	PRE	95	98	0	95	100	98	88	100	95	0	122	20
33B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												
34A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	92	95	0	92	98	95	88	98	95	0	125	21
34B	CYANAZINE	4.00 L	2.40 LB/AC	PRE												
35A	PENDIMETHALIN	50.00 DF	1.50 LB/AC	PRE	98	95	0	98	98	95	90	95	95	0	136	20
35B	CYANAZINE	4.00 L	2.40 LB/AC	PRE												
36A	PENDIMETHALIN	4.00 E	1.50 LB/AC	4D	95	98	0	95	98	98	88	95	98	0	123	20
36B	CYANAZINE	4.00 L	2.40 LB/AC	4D												
37A	PENDIMETHALIN	50.00 DF	1.50 LB/AC	4D	90	92	0	90	92	92	88	88	80	0	123	20
37B	CYANAZINE	4.00 L	2.40 LB/AC	4D												
38A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	98	95	0	98	98	98	95	98	98	0	124	21
38B	CYANAZINE	4.00 L	2.00 LB/AC	PRE												
38C	SIMAZINE	4.00 L	1.00 LB/AC	PRE												
39	SIMAZINE	4.00 L	2.00 LB/AC	PRE	100	98	0	100	100	98	90	100	98	0	133	21
40	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	98	95	0	98	98	95	95	100	92	0	123	21
41	METALACHLOR + ATRAZI	4.50 F	4.50 LB/AC	PRE	100	100	0	100	100	100	98	100	100	0	116	21
42	PPG-844	2.00 E	.50 LB/AC	PRE	78	88	0	75	90	90	70	80	88	0	119	20
43	PPG-844	2.00 E	1.00 LB/AC	PRE	90	92	0	88	92	92	80	85	90	0	120	20
44A	PPG-844	2.00 E	.25 LB/AC	PRE	98	88	0	98	90	90	90	80	88	0	128	20
44B	METOLACHLOR	8.00 E	1.50 LB/AC	PRE												
45A	PPG-844	2.00 E	.50 LB/AC	PRE	100	92	0	100	95	92	98	92	92	0	132	21
45B	METOLACHLOR	8.00 E	1.50 LB/AC	PRE												
46A	PPG-844	2.00 E	.25 LB/AC	PRE	85	95	0	85	98	95	80	98	90	0	120	21
46B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
47A	PPG-844	2.00 E	.50 LB/AC	PRE	90	100	0	90	100	100	85	100	100	0	136	21
47B	ATRAZINE	4.00 L	1.00 LB/AC	PRE												
48	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100	100	100	0	139	21
			LSO(05):		4	6	4	5	5	8	7	8	11	NS	16	NS

Table 7: Corn Preemergence (continued)

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.8 O.M.: 3.4%
DATE PLANTED: MAY 4 DATE TREATED: PRE: MAY 4
VARIETY: PJUNEER 3369A 40A: MAY 8

Table 8: Corn Preplant Incorporated

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----							-----JULY 17-----			-----10-6-----	
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE	IAMB	GIFI	COLQ	VELE	YLD	POP
1A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	89	98	0	88	100	98	100	80	100	98	135	20
1B	ATRAZINE	4.00 L	1.00 LB/AC	PPI												
2	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	100	78	0	100	85	85	80	100	50	80	119	21
3	METOLACHLOR	8.00 E	3.00 LB/AC	PPI	100	78	0	100	72	82	82	100	68	82	98	20
4	METOLACHLOR	8.00 E	4.00 LB/AC	PPI	100	85	0	100	90	85	85	100	85	80	109	21
5A	METOLACHLOR	8.00 E	2.00 LB/AC	PPI	98	100	0	98	100	100	100	95	98	98	133	21
5B	ATRAZINE	4.00 L	1.60 LB/AC	PPI												
6A	METOLACHLOR	8.00 E	1.60 LB/AC	PPI	100	100	0	100	100	100	100	98	100	100	133	20
6B	ATRAZINE	4.00 L	2.00 LB/AC	PPI												
7A	METOLACHLOR	8.00 E	2.00 LB/AC	PPI	95	98	0	95	100	98	100	98	75	92	138	21
7B	ATRAZINE	4.00 L	2.50 LB/AC	PPI												
8	ALACHLOR	4.00 E	2.50 LB/AC	PPI	92	75	0	92	85	85	55	88	65	88	103	20
9	ALACHLOR	4.00 E	3.00 LB/AC	PPI	90	78	0	90	88	80	78	85	88	85	111	21
10	ALACHLOR	4.00 E	4.00 LB/AC	PPI	98	75	0	98	90	92	75	100	72	85	107	19
11A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	100	98	0	100	98	98	98	98	72	70	132	19
11B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
12A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PPI	98	95	0	98	100	95	100	92	100	90	130	21
12B	WITH ATRAZINE	1.50	1.50	PPI												
13	CP 55097	8.00 EC	2.50 LB/AC	PPI	98	90	8	98	92	88	85	92	88	88	97	19
14	CP 55097	8.00 EC	3.00 LB/AC	PPI	98	90	22	98	100	98	85	95	92	95	90	17
15	CP 55097	8.00 EC	4.00 LB/AC	PPI	100	90	25	100	100	95	90	100	100	95	103	17
16A	CP 55097	8.00 EC	2.00 LB/AC	PPI	100	98	12	100	100	100	98	95	100	100	124	19
16B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
17A	CP 55097	8.00 EC	2.00 LB/AC	PPI	100	90	5	100	100	95	90	98	100	98	124	19
17B	CYANAZINE	4.00 L	2.25 LB/AC	PPI												
18A	R-25788	6.70 E	4.00 LB/AC	PPI	95	100	0	95	100	98	100	92	100	92	134	19
18B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
19A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	100	100	0	100	100	100	100	98	100	100	131	20
19B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												

Table 8: Corn Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----							-----JULY 17-----			-----10-6-----	
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE	IAMG	GIFI	COLQ	VELE	YLD	POP
20A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	98	85	0	98	88	90	88	98	80	88	124	17
20B	DICAMBA	4.00 S	.50 LB/AC	PPI												
21A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	100	85	0	98	85	88	92	98	85	92	116	20
21B	DICAMBA	4.00 S	1.00 LB/AC	PPI												
22A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	98	88	12	98	98	98	88	95	95	92	108	19
22B	DICAMBA	4.00 S	2.00 LB/AC	PPI												
23A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	100	90	55	100	98	98	92	95	92	95	81	16
23B	DICAMBA	4.00 S	4.00 LB/AC	PPI												
24A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	98	82	0	98	88	88	90	95	68	82	121	21
24B	DICAMBA	4.00 S	.50 LB/AC	PRE												
25A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	98	92	0	98	95	95	90	92	90	92	133	20
25B	DICAMBA	4.00 S	1.00 LB/AC	PRE												
26A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	100	95	12	100	95	100	95	98	85	100	111	20
26B	DICAMBA	4.00 S	2.00 LB/AC	PRE												
27A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	100	92	32	100	98	100	92	95	88	95	113	19
27B	DICAMBA	4.00 S	4.00 LB/AC	PRE												
28	METALACHLOR + ATRAZI	4.50 F	4.50 LB/AC	PPI	100	100	0	100	100	100	100	100	100	100	138	20
29A	M-4127	4.00 E	.50 LB/AC	PPI	90	100	0	92	100	100	100	85	92	100	139	21
29B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
30A	M-4127	4.00 F	.75 LB/AC	PPI	90	100	0	92	100	100	100	88	100	98	132	19
30B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
31A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	100	100	0	100	100	100	100	92	100	98	132	21
31B	SD 50093	4.00 L	3.00 LB/AC	PPI												
32A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	100	90	0	100	95	90	92	70	72	62	139	21
32B	SD 50093	4.00 L	3.00 LB/AC	PPI												
33A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	100	100	0	100	100	100	100	98	100	98	132	21
33B	SD 50093	4.00 L	3.00 LB/AC	PPI												
34A	R-25788	6.70 F	3.00 LB/AC	PPI	98	98	0	98	100	98	100	90	100	98	130	21
34B	SD 50093	4.00 L	3.00 LB/AC	PPI												
35A	M-4127	4.00 F	.50 LB/AC	PRE	92	100	0	92	100	100	100	92	100	100	129	21
35B	ATRAZINE	4.00 L	1.50 LB/AC	PRE												

Table 8: Corn Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----						-----JULY 17-----			---10-6---	
					GRAS	BRLE	CRIN	GIEI	COLQ	VELE	IAMB	GIEI	COLQ	VELE	YLD
36A	M-4127	4.00 E	.75 LB/AC PRE	98	100	0	98	100	100	100	85	100	95	131	20
36B	ATRAZINE	4.00 L	1.50 LB/AC PRE												
37A	DICAMBA	4.00 S	1.00 LB/AC PRE	98	88	2	98	98	95	85	96	95	92	117	19
37B	ALACHLOR	4.00 E	2.50 LB/AC PRE												
38A	DICAMBA II	2.00 S	1.00 LB/AC PRE	98	88	0	98	100	92	85	95	100	92	112	21
38B	ALACHLOR	4.00 E	2.50 LB/AC PRE												
39A	DICAMBA	4.00 S	.50 LB/AC PRE	100	90	0	100	98	92	82	100	92	92	126	21
39B	METOLACHLOR	8.00 E	2.00 LB/AC PRE												
40A	DICAMBA	4.00 S	.50 LB/AC PRE	98	92	0	98	100	90	92	95	100	72	116	21
40B	CYANAZINE	4.00 L	2.00 LB/AC PRE												
40C	METOLACHLOR	8.00 E	2.00 LB/AC PRE												
41	CME 12750	5.59 SC	2.40 LB/AC PRE	95	98	0	95	100	100	96	90	72	72	142	21
42	CME 12750	5.59 SC	3.00 LB/AC PRE	100	100	0	100	100	100	100	92	100	100	134	21
43	CME 12750	5.59 SC	4.80 LB/AC PRE	100	98	0	100	98	98	98	100	100	100	131	21
44	METRIBUZIN 2	4.00 L	.38 LB/AC PRE	82	85	22	82	98	98	78	65	95	95	96	19
45	METRIBUZIN 2	75.00 DF	.50 LB/AC PRE	85	88	60	85	98	98	80	75	98	98	75	15
46	CHECK (CULTIVATED)	.00 CK	.00	100	100	0	100	100	100	100	100	100	100	142	20
			LSD(05):	5	8	10	5	11	7	9	12	28	21	18	2

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.8 O.M.: 3.5%
 DATE PLANTED: MAY 4, 1981 DATE TREATED: MAY 4 PRE
 VARIETY: PIUNEER 3369 A MAY 4 PPI

Table 9: Corn Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----						-----JULY 17-----			-----10-6-----		
					GRAS	HRLE	GRIN	GIFI	COLQ	VELE	KREW	GIFI	COLQ	VELE	YLD.	POP.
1	CYANAZINE	80.00 WP	2.00 LB/AC	EP	82	88	0	82	85	85	80	68	85	88	134	19
2	SD 15418	90.00 DF	2.00 LB/AC	EP	78	70	0	78	75	68	70	60	65	65	131	20
3A	ATRAZINE	4.00 L	1.00 LB/AC	EP	95	98	0	95	98	98	90	82	98	98	130	20
3B	CYANAZINE	80.00 WP	2.00 LB/AC	EP												
4A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	92	88	25	92	88	88	85	75	88	85	100	15
4B	S-734	75.00 WP	.50 LB/AC	SPK												
5A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	100	92	80	100	95	95	95	95	90	92	36	8
5B	S-734	75.00 WP	1.00 LB/AC	SPK												
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	0	100	98	98	98	92	95	95	118	20
6B	2,4-D AMINE	4.00 E	.50 LB/AC	EP												
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	0	100	100	100	100	95	98	100	135	19
7B	DICAMBA	4.00 S	.50 LB/AC	EP												
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	0	100	98	98	98	92	95	95	116	20
8B	DICAMBA II	2.00 S	.50 LB/AC	LP												
9A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	100	98	2	100	98	98	98	92	95	98	118	19
9B	DICAMBA II	2.00 S	.50 LB/AC	LP												
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	2	100	100	100	100	95	100	100	132	20
10B	ATRAZINE	4.00 L	1.50 LB/AC	EP												
10C	DICAMBA	4.00 S	.50 LB/AC	EP												
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	10	100	98	98	98	98	98	98	138	19
11B	ATRAZINE	4.00 L	1.50 LB/AC	EP												
11C	DICAMBA	4.00 S	.50 LB/AC	EP												
11D	CROP OIL	.00 AD	1.00 QT/AC	EP												
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	0	100	100	100	100	100	100	100	135	20
12B	CYANAZINE	80.00 WP	2.00 LB/AC	EP												
12C	DICAMBA	4.00 S	.50 LB/AC	EP												
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	0	100	100	100	100	100	100	100	138	21
13B	ATRAZINE	4.00 L	1.50 LB/AC	EP												
13C	CROP OIL	.00 AD	1.00 QT/AC	EP												
14	SD 15418	90.00 DF	2.00 LB/AC	PRE	85	88	0	68	85	92	92	72	82	88	118	22
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	0	100	100	100	100	98	100	100	126	21
15B	METRIBUZIN 1	4.00 F	.75 LB/AC	POD												
15C	CROP OIL	.00 AD	1.00 QT/AC	POD												

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Table 9: Corn Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----							-----JULY 17-----			-----10-6-----	
					GRAS	ERLE	GRIN	GIFI	COLQ	VELE	RRF3	GIFI	COLQ	VELE	YLD	POP
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	2	100	100	100	100	100	100	100	122	20
16B	METRIBUZIN 1	4.00 F	.50 LB/AC	PUD												
16C	2,4-D AMINE	4.00 E	.50 LB/AC	PUD												
16D	CROP OIL	.00 AD	1.00 QT/AC	PUD												
17A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	100	100	0	100	100	100	100	95	100	100	143	20
17B	ATRAZINE	4.00 L	1.50 LB/AC	SPK												
18A	PENDIMETHALIN	50.00 DF	1.50 LB/AC	SPK	100	98	2	100	100	100	100	90	100	100	139	20
18B	ATRAZINE	4.00 L	1.50 LB/AC	SPK												
19A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	92	98	0	92	100	100	100	75	98	100	119	21
19B	CYANAZINE	80.00 WP	2.40 LB/AC	SPK												
20A	PENDIMETHALIN	50.00 DF	1.50 LB/AC	SPK	95	95	0	95	98	98	98	86	92	92	129	19
20B	CYANAZINE	80.00 WP	2.40 LB/AC	SPK												
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	55	100	100	100	100	92	100	98	96	17
21B	TRICLOPYR	4.00 E	.50 LB/AC	MP												
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	52	100	100	100	100	95	92	100	77	13
22B	TRICLOPYR	4.00 E	.50 LB/AC	MP												
22C	2,4-D AMINE	4.00 E	.50 LB/AC	MP												
23	SD 50093	4.00 L	2.50 LB/AC	EP	98	95	0	98	95	95	95	92	95	95	119	21
24	DACAMINE 4D	4.00 EC	.25 LB/AC	EP	28	95	0	28	95	95	95	10	95	95	132	21
25	DACAMINE 3D	3.00 EC	.25 LB/AC	EP	38	100	0	38	100	100	100	32	98	98	104	19
26A	DACAMINE 4D	4.00 EC	.25 LB/AC	EP	60	98	0	60	98	98	98	55	95	98	134	20
26B	DICAMBA	4.00 S	.25 LB/AC	EP												
27A	PPG-844	2.00 E	.20 LB/AC	SPK	55	72	0	55	52	72	72	25	52	70	129	19
27B	SURFACTANT (X-77)	.50 WA	.25 %	SPK												
28A	PPG-844	2.00 E	.30 LB/AC	SPK	90	85	0	90	85	88	75	55	78	80	120	19
28B	SURFACTANT (X-77)	.50 WA	.25 %	SPK												
29A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	90	0	98	95	95	95	85	90	95	131	20
29B	PPG-844	2.00 E	.20 LB/AC	SPK												
29C	SURFACTANT (X-77)	.50 WA	.25 %	SPK												
30A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	92	0	100	100	95	98	88	95	95	145	20
30B	PPG-844	2.00 E	.30 LB/AC	SPK												
30C	SURFACTANT (X-77)	.50 WA	.25 %	SPK												

Table 9: Corn Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 22-----							-----JULY 17-----			-----10-6-----	
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE	RRCA	GIFI	COLQ	VELE	YLD	POP
31A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	82	80	25	88	85	90	90	80	90	98	124	20
31B	PPG-844	2.00 E	.20 LB/AC	EP												
31C	SURFACTANT (X-77)	.50 WA	.25 %	EP												
32A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	42	100	98	98	90	92	95	98	120	19
32B	PPG-844	2.00 E	.30 LB/AC	EP												
32C	SURFACTANT (X-77)	.50 WA	.25 %	EP												
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	45	100	98	98	90	90	88	98	95	18
33B	PPG-844	2.00 E	.20 LB/AC	MP												
33C	SURFACTANT (X-77)	.50 WA	.25 %	MP												
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	58	100	100	100	100	92	95	100	100	19
34B	PPG-844	2.00 E	.30 LB/AC	MP												
34C	SURFACTANT (X-77)	.50 WA	.25 %	MP												
35A	PPG-844	2.00 E	.20 LB/AC	EP	95	100	35	95	100	100	100	78	100	100	136	20
35B	ATRAZINE	4.00 L	1.00 LB/AC	EP												
35C	CROP OIL	.00 AD	1.00 QT/AC	EP												
36A	PPG-844	2.00 E	.30 LB/AC	EP	95	100	52	95	100	100	100	85	100	100	130	18
36B	ATRAZINE	4.00 L	1.00 LB/AC	EP												
36C	CROP OIL	.00 AD	1.00 QT/AC	EP												
37A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	95	0	98	98	98	90	92	95	98	150	19
37B	BRUMOXYNIL 2	2.00 E	.25 LB/AC	MP												
38A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	92	0	95	95	95	95	90	90	95	135	19
38B	BRUMOXYNIL 2	2.00 E	.50 LB/AC	MP												
39A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	95	0	98	98	95	95	92	98	95	136	19
39B	BRUMOXYNIL 2	2.00 E	1.00 LB/AC	MP												
40	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100	100	100	100	123	19
			LSD(05):		18	14	12	19	16	14	13	20	16	15	28	35

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.7 0.4% 3.4%
 DATE PLANTED: MAY 4 DATE TREATED: PRE: MAY 4
 VARIETY: PIONEER 3369A SPK: MAY 13
 EP: MAY 29

MP: JUNE 6, LP & PD: JUNE 11, EP = 0-2", MP = 2-4",
 LP = 4-6",

Table 10: Corn No-till in Killed Fescue Sod

TRT No.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 24-----					---10-8---		
					GRAS	SRLE	CRIN	GIFT	PRPW	SJAL	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	92	100	0	92	100	100	180	22
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE								
1C	SURFACTANT (X-77)	.50 WA	.50 %	PRE								
2A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	95	98	0	95	100	98	189	21
2B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
2D	SURFACTANT (X-77)	.50 WA	.50 %	PRE								
3A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	90	98	0	90	100	100	177	20
3B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
3D	SURFACTANT (X-77)	.50 WA	.25 %	PRE								
4A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	85	100	0	85	100	100	187	22
4B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
4C	PARAQUAT	2.00 E	.50 LB/AC	PRE								
4D	SURFACTANT (X-77)	.50 WA	.25 %	PRE								
5A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	98	98	0	98	100	100	180	19
5B	SIMAZINE	4.00 L	1.50 LB/AC	PRE								
5C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
5D	SURFACTANT (X-77)	.50 WA	.50 %	PRE								
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	72	98	0	72	98	92	172	23
6B	ATRAZINE	4.00 L	2.00 LB/AC	PRE								
6C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
7A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	90	98	0	90	98	100	177	21
7B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
7C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE								
8A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	82	98	0	82	98	80	171	18
8B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
8C	GLYPHOSATE	4.00 E	.75 LB/AC	PRE								
9A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	100	0	100	100	82	180	21
9B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
9C	GLYPHOSATE	4.00 E	1.10 LB/AC	PRE								
10A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	95	98	0	95	98	100	180	20
10B	ATRAZINE	4.00 L	1.60 LB/AC	PRE								
10C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
10D	SURFACTANT (X-77)	.50 WA	.50 %	PRE								
11A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	85	98	0	85	90	90	170	22
11B	ATRAZINE	4.00 L	2.50 LB/AC	PRE								
11C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								

Table 10: Corn No-till in Killed Fescue Sod (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24-----						---10-8---	
					GRAS	BRLE	CRIN	GIFI	PRPW	SQAL	YLD	PQR
12A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	0	100	98	100	181	21
12B	ATRAZINE	4.00 L	3.00 LB/AC	PRE								
12C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
12D	SURFACTANT (x-77)	.50 WA	.25 %	PRE								
13A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	92	100	0	92	100	100	177	23
13B	ATRAZINE	4.00 L	3.00 LB/AC	PRE								
13C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
13D	SURFACTANT (x-77)	.50 WA	.25 %	PRE								
14A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	100	100	88	173	22
14B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE								
14C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
14D	SURFACTANT (x-77)	.50 WA	.50 %	PRE								
15A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	0	100	98	98	166	22
15B	ATRAZINE	4.00 L	1.50 LB/AC	PRE								
15C	SIMAZINE	4.00 L	1.50 LB/AC	PRE								
15D	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
16A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	100	100	0	100	100	98	172	19
16B	ATRAZINE	4.00 L	2.00 LB/AC	PRE								
16C	SIMAZINE	4.00 L	2.00 LB/AC	PRE								
16D	PARAQUAT	2.00 E	.25 LB/AC	PRE								
16E	SURFACTANT (x-77)	.50 WA	.25 %	PRE								
17A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	85	100	0	85	100	98	178	22
17B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
17C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
17D	SURFACTANT (x-77)	.50 WA	.50 %	PRE								
18A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	58	98	0	58	98	95	158	19
18B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
18C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
19A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	85	100	0	85	100	100	178	22
19B	ATRAZINE	4.00 L	1.00 LB/AC	PRE								
19C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
19D	SURFACTANT (x-77)	.50 WA	.25 %	PRE								
20A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	88	100	0	88	100	95	178	20
20B	ATRAZINE	4.00 L	1.00 LB/AC	PRE								
20C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
21A	METOLACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	90	95	0	90	98	98	185	23
21B	PARAQUAT	2.00 E	.25 LB/AC	PRE								
21C	SURFACTANT (x-77)	.50 WA	.25 %	PRE								

Table 10: Corn No-till in Killed Fescue Sod (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 24-----						---10-8---	
					GRAS	SRLE	CRIN	GIFI	PRPN	SJSL	YLD	PUE
22A	METALACHLOR + ATRAZI	4.50 F	4.50 LB/AC	PRE	80	100	0	80	100	92	171	20
22B	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
23A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	85	100	0	85	100	90	169	23
23B	SIMAZINE	4.00 L	1.00 LB/AC	PRE								
23C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
24A	METALACHLOR + ATRAZI	4.50 F	4.50 LB/AC	PRE	90	100	0	90	100	92	165	20
24B	SIMAZINE	4.00 L	1.00 LB/AC	PRE								
24C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
25A	METALACHLOR + ATRAZI	4.50 F	4.00 LB/AC	PRE	100	100	0	100	100	95	165	23
25B	SIMAZINE	4.00 L	1.50 LB/AC	PRE								
25C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
26A	METALACHLOR + ATRAZI	4.50 F	4.50 LB/AC	PRE	88	100	0	88	100	55	149	22
26B	SIMAZINE	4.00 L	2.00 LB/AC	PRE								
26C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
27A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	92	100	0	92	100	95	170	22
27B	ATRAZINE	4.00 L	1.00 LB/AC	PRE								
27C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
28A	METALACHLOR + ATRAZI	4.50 F	4.50 LB/AC	PRE	92	92	0	92	95	92	170	19
28B	ATRAZINE	4.00 L	1.00 LB/AC	PRE								
28C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
29	MON 8001	3.83 E	3.83 LB/AC	PRE	58	98	0	58	98	68	174	22
30	MON 8001	3.83 E	3.11 LB/AC	PRE	88	95	0	88	95	55	163	22
31	MON 8001	3.83 E	4.80 LB/AC	PRE	50	75	0	50	75	78	170	21
32A	CP 55097	8.00 EC	2.50 LB/AC	PRE	25	90	0	25	90	98	163	21
32B	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
33A	CP 55097	8.00 EC	3.00 LB/AC	PRE	68	98	0	68	100	98	168	21
33B	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE								
34A	SD 50093	4.00 L	3.00 LB/AC	PRE	85	100	0	85	100	95	180	23
34B	PARAQUAT	2.00 E	.25 LB/AC	PRE								
34C	SURFACTANT (X-77)	.50 WA	.50 %	PRE								
35A	SD 50093	4.00 L	4.00 LB/AC	PRE	92	95	0	92	98	100	173	20
35B	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE								
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	98	0	95	98	78	172	20
36B	ATRAZINE	4.00 L	1.50 LB/AC	PRE								
36C	HOE 661	1.67 E	.50 LB/AC	PRE								

Table 10: Corn No-till in Killed Fescue Sod (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24-----						---10-8---	
					GRAS	BLE	CRIN	GIFI	PRPN	SDKI	YLD	POP
37A	ALACHLOR	4.00 E	2.50 LB/AC PRE		95	100	0	95	100	90	175	21
37B	ATRAZINE	4.00 L	1.50 LB/AC PRE									
37C	HOE 661	1.67 E	.75 LB/AC PRE									
38A	ALACHLOR	4.00 E	2.50 LB/AC PRE		90	100	0	90	100	95	175	22
38B	ATRAZINE	4.00 L	1.50 LB/AC PRE									
38C	HOE 661	1.67 E	1.00 LB/AC PRE									
39A	ALACHLOR	4.00 E	2.50 LB/AC PRE		98	100	0	98	100	30	153	20
39B	ATRAZINE	4.00 L	1.50 LB/AC PRE									
39C	HOE 661	1.67 E	.50 LB/AC PRE									
39D	AMMONIUM SULFATE	4.00 E	2.00 LB/AC PRE									
40A	ALACHLOR	4.00 E	2.50 LB/AC PRE		80	100	0	80	100	95	173	22
40B	ATRAZINE	4.00 L	1.50 LB/AC PRE									
40C	HOE 661	1.67 E	.75 LB/AC PRE									
40D	AMMONIUM SULFATE	4.00 E	2.00 LB/AC PRE									
LSD(05):					15	10	NS	16	10	12	NS	NS

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 8, 1981
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.4 O.M.: 4.0%
 DATE TREATED: PRE: MAY 8,

Table 11: Corn No-till Stalkland

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 -----					---10-8 ---	
					GRAS	BRLE	CRIN	LACS	RRPN	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	85	90	0	85	95	147	19
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
1C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
2A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	85	95	0	85	100	151	20
2B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
2D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
3A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	95	95	0	95	95	159	19
3B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
3D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	85	95	0	85	100	152	20
4B	ATRAZINE	4.00 L	2.00 LB/AC	PRE							
4C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
5A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	88	88	0	88	95	150	18
5B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
5C	DICAMBA	4.00 S	.50 LB/AC	PRE							
6A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	92	95	0	92	100	164	20
6B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
6C	DICAMBA	4.00 S	.25 LB/AC	PRE							
6D	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE							
7A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	98	98	0	98	100	159	18
7B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
7C	DICAMBA	4.00 S	.50 LB/AC	PRE							
7D	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE							
8A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	95	0	100	98	143	19
8B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
8C	DICAMBA	4.00 S	.25 LB/AC	PRE							
8D	2,4-D ESTER	4.00 EP	.75 LB/AC	PRE							
8E	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE							
9A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	98	0	100	100	146	19
9B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
9C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE							
9D	DICAMBA	4.00 S	.50 LB/AC	EP							
10A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	98	92	0	98	95	154	19
10B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
10C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
10D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
10E	DICAMBA	4.00 S	.50 LB/AC	EP							

Table 11: Corn No-till Stalkland (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 -----					---10-8---	
					GRAS	ORLE	GRIN	LACG	RRPN	YLD	PDP
11A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	98	0	100	100	154	18
11B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
11C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
11D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
11E	DICAMBA	4.00 S	.25 LB/AC	LLP							
12A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	98	100	0	98	100	161	19
12B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
12C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE							
12D	DICAMBA	4.00 S	.25 LB/AC	LLP							
13A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	90	92	0	90	98	155	19
13B	ATRAZINE	4.00 L	1.60 LB/AC	PRE							
13C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
13D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
14A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	85	92	0	85	100	137	19
14B	ATRAZINE	4.00 L	1.60 LB/AC	PRE							
14C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
15A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	98	0	100	100	158	18
15B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
15C	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
15D	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
16A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	100	100	0	100	100	159	20
16B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
16C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
16D	M-4127	4.00 E	.75 LB/AC	3WK							
16E	ATRAZINE	4.00 L	1.50 LB/AC	3WK							
16F	SUNSPRAY 11E	.00 AD	1.00 QT/AC	3WK							
17A	ATRAZINE	4.00 L	2.50 LB/AC	PRE	85	88	0	85	92	132	18
17B	BROMOXYNIL 1	2.00 E	.50 LB/AC	PRE							
17C	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
18A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	95	0	92	98	146	19
18B	ATRAZINE	4.00 L	2.50 LB/AC	PRE							
18C	BROMOXYNIL 1	2.00 E	.50 LB/AC	PRE							
18D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
19A	ATRAZINE	4.00 L	2.50 LB/AC	PRE	90	92	0	90	95	152	18
19B	LV-4	4.00 E	.50 LB/AC	PRE							
19C	BROMOXYNIL 1	2.00 E	.50 LB/AC	PRE							
19D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	92	0	80	98	151	20
20B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
20C	HOE 661	1.67 E	.50 LB/AC	PRE							

Table 11: Corn No-till Stalkland (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 -----					---10-8 ---	
					GRAS	BRLE	CRIN	LACG	RRPW	YLD	POP
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	78	90	0	78	92	143	19
21B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
21C	HOE 561	1.67 E	.75 LB/AC	PRE							
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	82	0	80	85	142	21
22B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
22C	HOE 561	1.67 E	1.00 LB/AC	PRE							
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	88	95	0	88	98	150	20
23B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
23C	HOE 561	1.67 E	.50 LB/AC	PRE							
23D	AMMONIUM SULFATE	4.00 E	2.00 LB/AC	PRE							
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	90	0	80	98	153	20
24B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
24C	HOE 561	1.67 E	.75 LB/AC	PRE							
24D	AMMONIUM SULFATE	4.00 E	2.00 LB/AC	PRE							
LSD (05):					11	NS	NS	11	NS	NS	NS

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 8
 VARIETY: PIUNEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.3 O.M.: 5.0%
 DATE TREATED: PRE: MAY 8
 EP: 3WK: MAY 29
 LLP: JUNE 22

EP = 0-2", LLP = 6-8".

Table 12: Corn No-till Fescue Sod CDA (Exp II)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23 -----					---10-8 ---	
					GRAS	BRLE	CRIN	LACC	SQKI	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	98	100	0	98	98	157	16
1B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
1C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
1D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
2A	ALACHLOR	4.00 E	1.25 LB/AC	PRE	92	100	0	92	70	141	15
2B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
2C	PARAQUAT	2.00 E	.13 LB/AC	PRE							
2D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	98	0	90	92	155	18
3B	ATRAZINE	4.00 L	2.00 LB/AC	PRE							
3C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	85	98	0	88	85	159	19
4B	ATRAZINE	4.00 L	2.00 LB/AC	PRE							
4C	GLYPHOSATE	4.00 E	.38 LB/AC	PRE							
5A	ALACHLOR	4.00 E	1.25 LB/AC	PRE	75	88	0	75	78	178	18
5B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
5C	GLYPHOSATE	4.00 E	.75 LB/AC	PRE							
6A	ALACHLOR	4.00 E	1.25 LB/AC	PRE	75	95	0	82	45	147	16
6B	ATRAZINE	4.00 L	.50 LB/AC	PRE							
6C	GLYPHOSATE	4.00 E	.38 LB/AC	PRE							
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	78	95	0	80	88	155	19
7B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
7C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
7D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
8A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	92	98	0	92	100	131	14
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
8C	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
8D	PARAQUAT	2.00 E	.25 LB/AC	PRE							
8E	SURFACTANT (X-77)	.50 WA	.25 %	PRE							

LSD(05): NS 2 NS NS 14 NS NS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.4 O.M.: 4.0%
 DATE PLANTED: MAY 12 DATE TREATED: MAY 12
 VARIETY: PIONEER 3369A

THESE TREATMENTS WERE ALL APPLIED USING ONE CDA UNIT AT 20 PSI
 AND A FLOW RATE OF 3.2 GALLONS PER ACRE, PLOTS WERE 2 ROWS 6.33 FT WIDE.

Table 13: Corn Yellow Nutsedge

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22 --		---7-17 --		---10-5 --	
					YENS	GRIN	YENS	GRIN	YLD	POP
1	METOLACHLOR	8.00 E	2.50 LB/AC PRE		95	0	90	0	117	21
2	METOLACHLOR	8.00 E	3.00 LB/AC PRE		100	0	100	0	120	20
3	METOLACHLOR	8.00 E	2.50 LB/AC PPI		100	0	100	2	109	20
4	METOLACHLOR	8.00 E	3.00 LB/AC PPI		100	0	100	0	109	20
5	METOLACHLOR	8.00 E	4.00 LB/AC PPI		92	0	100	0	107	20
6A	METOLACHLOR	8.00 E	2.50 LB/AC PRE		98	0	98	0	104	21
6B	ATRAZINE	4.00 L	1.50 LB/AC PRE							
7A	METOLACHLOR	8.00 E	2.50 LB/AC PPI		100	0	100	0	122	20
7B	ATRAZINE	4.00 L	1.50 LB/AC PPI							
8	ALACHLOR	4.00 E	3.00 LB/AC PRE		92	5	92	0	110	19
9	ALACHLOR	4.00 E	3.00 LB/AC PPI		100	0	98	0	111	18
10	ALACHLOR	4.00 E	4.00 LB/AC PPI		98	0	100	0	111	20
11A	ALACHLOR	4.00 E	3.00 LB/AC PRE		98	0	90	0	106	19
11B	ATRAZINE	4.00 L	1.50 LB/AC PRE							
12A	ALACHLOR	4.00 E	4.00 LB/AC PRE		98	0	95	0	119	18
12B	ATRAZINE	4.00 L	1.50 LB/AC PRE							
13A	ALACHLOR	4.00 E	3.00 LB/AC PPI		98	5	92	0	108	19
13B	ATRAZINE	4.00 L	1.50 LB/AC PPI							
14A	ALACHLOR	4.00 E	4.00 LB/AC PPI		100	0	92	0	116	20
14B	ATRAZINE	4.00 L	1.50 LB/AC PPI							
15	CP 55097	8.00 EC	2.25 LB/AC PRE		100	15	95	5	90	19
16	CP 55097	8.00 EC	2.50 LB/AC PPI		100	38	95	18	99	19
17	CP 55097	8.00 EC	3.00 LB/AC PPI		100	38	98	15	98	19
18	CP 55097	8.00 EC	4.00 LB/AC PPI		98	42	98	12	96	19
19A	CP 55097	8.00 EC	2.50 LB/AC PPI		100	22	92	5	98	19
19B	ATRAZINE	4.00 L	1.00 LB/AC PPI							
20	R-25788	6.70 E	6.00 LB/AC PPI		82	0	90	0	123	19

Table 13: Corn Yellow Nutsedge (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22---		---7-17---		---10-5---	
					YEYS	GRIN	YEYS	GRIN	YLD	PJP
21A	R-25788	6.70 E	4.00 LB/AC	PPI	95	0	95	0	122	20
21B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
22A	BENTAZON	4.00 E	.75 LB/AC	EP	75	0	75	0	106	19
22B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP						
23A	BENTAZON	4.00 E	.75 LB/AC	LP	85	0	88	0	92	19
23B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP						
24	VERNOATE + R-25788	6.70 E	6.00 LB/AC	PPI	100	5	98	0	113	19
25A	VERNOATE + R-25788	6.70 E	4.00 LB/AC	PPI	98	0	90	0	111	18
25B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
26	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	95	5	88	0	114	19
27A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	0	95	0	130	19
27B	ATRAZINE	4.00 L	3.00 LB/AC	PPI						
28A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	0	85	0	121	19
28B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
29A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	0	88	0	122	20
29B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
30A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	85	0	80	0	118	19
30B	ATRAZINE	4.00 L	1.00 LB/AC	EP						
30C	M-4127	4.00 E	.75 LB/AC	EP						
30D	SUNSPRAY 11E	.00 AD	.50 QT/AC	EP						
31	METALACHLOR + ATRAZI	4.50 F	3.20 LB/AC	PRE	98	0	90	0	126	19
32	METALACHLOR + ATRAZI	4.50 F	3.20 LB/AC	PPI	100	0	98	0	110	19
33	MBR 23709	2.00 S	1.00 LB/AC	PRE	72	0	72	0	113	19
34	MBR 23709	2.00 S	1.50 LB/AC	PRE	85	0	72	0	108	18
35	MBR 23709	2.00 S	2.00 LB/AC	PRE	90	0	88	0	111	19
36	MBR 23709	2.00 S	3.00 LB/AC	PRE	80	18	90	0	126	20
37	MBR 23709	2.00 S	4.00 LB/AC	PRE	98	0	98	0	113	18
38	MBR 23709	2.00 S	.50 LB/AC	POD	58	18	70	25	81	20
39	MBR 23709	2.00 S	1.00 LB/AC	POD	50	28	80	48	57	19

Table 13: Corn Yellow Nutsedge (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22--		---7-17--		---10-5--	
					YENS	GRIN	YENS	GRIN	YLD	PJP
40	MBR 23709	2.00 S	2.00 LB/AC	POD	50	48	70	55	24	19
41A	MBR 23709	2.00 S	.50 LB/AC	EP	75	0	75	0	120	19
41B	SURFACTANT (X-77)	.50 WA	.50 %	EP						
42A	MBR 23709	2.00 S	1.00 LB/AC	EP	80	0	78	0	110	19
42B	SURFACTANT (X-77)	.50 WA	.50 %	EP						
43A	MBR 23709	2.00 S	2.00 LB/AC	EP	92	18	80	12	90	20
43B	SURFACTANT (X-77)	.50 WA	.50 %	EP						
44A	MBR 23709	2.00 S	.50 LB/AC	LP	55	45	80	52	33	18
44B	SURFACTANT (X-77)	.50 WA	.50 %	LP						
45A	MBR 23709	2.00 S	1.00 LB/AC	LP	55	55	72	82	27	19
45B	SURFACTANT (X-77)	.50 WA	.50 %	LP						
46A	MBR 23709	2.00 S	2.00 LB/AC	LP	30	65	78	85	9	18
46B	SURFACTANT (X-77)	.50 WA	.50 %	LP						
47	MBR 23713	50.00 WP	1.50 LB/AC	PRE	70	0	80	0	110	19
48	MBR 23713	50.00 WP	3.00 LB/AC	PRE	90	0	82	0	120	19
49	CME 12750	5.59 SC	2.40 LB/AC	PRE	68	0	68	0	124	20
50	CME 12750	5.59 SC	3.00 LB/AC	PRE	72	0	60	0	120	20
51	CME 12750	5.59 SC	4.80 LB/AC	PRE	75	0	65	0	117	19
52	CHECK (CULTIVATED)	.00 CK	.00		100	0	100	0	141	19
LSD(05):					18	10	11	10	23	NS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.4 O.M.: 2.6%
 DATE PLANTED: MAY 5 DATE TREATED: PPI & PRE: MAY 5
 VARIETY: PIONEER 3369A EP: MAY 29
 LP & POD: JUNE 11

EP = 3LF, LP = 6LF.

Table 14: Soybean Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6-24-----						-----7-20-----					
					CRIN	GIFI	COCB	PESW	JIWE	IAMG	CRIN	GIFI	COCB	PESW	JIWE	IAMG
1	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	90	40	12	88	68	0	82	28	8	88	4
2	ALACHLOR	4.00 E	3.00 LB/AC	PRE	0	75	65	28	68	38	0	68	62	5	65	2
3A	OXYFLUORFEN	2.00 F	.38 LB/AC	PRE	75	98	95	100	100	95	35	82	68	100	100	8
3B	ALACHLOR	4.00 E	2.00 LB/AC	PRE												
4A	RH-8817	2.00 E	.50 LB/AC	PRE	35	92	98	100	100	92	0	80	82	100	100	7
4B	ALACHLOR	4.00 E	2.00 LB/AC	PRE												
5A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	0	92	95	100	98	65	0	82	88	95	98	2
5B	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE												
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	92	98	90	100	85	0	88	95	78	98	5
6B	LINURON	4.00 L	1.00 LB/AC	PRE												
7A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	0	92	98	100	100	72	0	90	92	100	95	4
7B	METRIBUZIN 2	4.00 L	.50 LB/AC	PRE												
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	95	92	85	80	90	0	92	70	30	62	7
8B	NANPA/DN	3.00 E	4.50 LB/AC	PRE												
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	92	92	92	95	70	0	88	80	88	90	6
9B	NANPA/DN	3.00 E	1.50 LB/AC	PRE												
9C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE												
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	95	92	95	98	72	0	82	75	92	95	5
10B	NANPA/DN	3.00 E	2.25 LB/AC	PRE												
10C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE												
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	90	78	90	95	85	0	80	60	75	75	6
11B	NANPA/DN	3.00 E	3.00 LB/AC	PRE												
11C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE												
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	98	95	95	100	85	0	100	92	90	98	4
12B	NANPA/DN	3.00 E	1.50 LB/AC	PRE												
12C	LINURON	4.00 L	1.00 LB/AC	PRE												
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	98	92	98	100	85	0	90	90	88	98	6
13B	NANPA/DN	3.00 E	2.25 LB/AC	PRE												
13C	LINURON	4.00 L	1.00 LB/AC	PRE												
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	95	98	98	98	80	0	90	92	88	90	6
14B	NANPA/DN	3.00 F	3.00 LB/AC	PRE												
14C	LINURON	4.00 L	1.00 LB/AC	PRE												
15	METOLACHLOR	8.00 F	2.50 LB/AC	PRE	0	100	58	55	88	70	0	100	42	30	88	6

Table 14: Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6-24-----						-----7-20-----					
					CRIN	GIEI	COCB	PESW	IINE	IAMG	CRIN	GIEI	COCB	PESW	IINE	IAMG
16A	METOLACHLOR	8.00 F	2.00 LB/AC	PRE	0	100	95	98	100	62	0	98	82	90	95	5
16B	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE												
17A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	0	100	88	100	100	82	0	100	75	100	98	6
17B	LINURON	4.00 L	1.00 LB/AC	PRE												
18	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	0	58	75	82	88	52	0	22	72	80	82	4
19	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	0	68	95	92	95	55	0	50	95	88	88	4
20	LINURON	4.00 L	1.00 LB/AC	PRE	0	70	85	80	78	82	0	38	70	60	55	5
21	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	0	72	95	98	95	82	0	38	85	95	85	6
22A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	0	88	92	98	98	85	0	82	78	95	95	6
22B	ALACHLOR	4.00 E	2.00 LB/AC	PRE												
23A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	0	98	92	100	100	48	0	95	85	100	98	4
23B	METOLACHLOR	8.00 F	2.00 LB/AC	PRE												
24A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	0	58	98	98	88	65	0	12	95	92	78	5
24B	NANPA/DN	3.00 E	3.00 LB/AC	PRE												
25A	ALACHLOR	4.00 F	2.00 LB/AC	PRE	0	92	100	100	98	80	0	88	88	92	82	6
25B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE												
25C	NANPA/DN	3.00 F	3.00 LB/AC	PRE												
26A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	5	75	95	95	90	85	0	50	80	90	80	4
26B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE												
27A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PRE	0	78	92	98	92	82	0	55	85	82	65	6
27B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE												
28A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	0	80	90	88	90	85	0	55	78	82	65	6
28B	LINURON	50.00 WP	1.00 LB/AC	PRE												
29A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PRE	20	85	98	98	92	85	2	65	75	75	68	6
29B	LINURON	4.00 L	1.00 LB/AC	PRE												
30A	PENDIMETHALIN	4.00 F	1.00 LB/AC	PRE	10	80	25	85	82	75	0	68	38	62	60	5
30B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE												
31A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PRE	0	88	90	95	78	85	0	75	62	80	50	5
31B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE												
32	PP5-844	2.00 F	.50 LB/AC	PRE	0	62	68	85	85	65	0	28	45	60	80	5

Table 14: Soybean Preemergence (continued)

TREATMENT	FORMULA	RATE	APPL METH	6-24						7-20					
				CRIN	GIFI	COCH	PESW	JLWE	IAMG	CRIN	GIFI	COCH	PESW	JLWE	IAMG
33 PPS-844	2.00 F	1.00 LB/AC	PRE	0	85	95	95	98	90	0	62	80	80	95	8
34A PPS-844	2.00 F	.20 LB/AC	PRE	0	65	90	90	92	85	0	28	88	82	92	8
34B METRIBUZIN 1 OR 2	50.00 MP	.38 LB/AC	PRE												
35 S9 95481	2.00 EC	.50 LB/AC	PRE	0	65	20	18	10	20	0	40	20	0	10	2
36 S9 95481	2.00 EC	1.00 LB/AC	PRE	2	82	58	52	12	35	0	80	38	48	5	3
37 S9 95481	2.00 EC	2.00 LB/AC	PRE	10	90	48	68	22	58	0	88	70	48	12	2
38 MBR 22359	2.00 F	1.00 LB/AC	PRE	0	65	0	0	0	0	0	45	0	0	0	0
39 MBR 22359	2.00 F	1.50 LB/AC	PRE	0	75	20	5	35	30	0	62	5	0	15	2
40 MBR 22359	2.00 E	2.00 LB/AC	PRE	0	82	48	0	12	38	0	70	48	0	28	3
41 MBR 22359	2.00 F	3.00 LB/AC	PRE	0	85	75	20	50	68	0	78	65	15	20	4
42 MBR 22359	2.00 E	4.00 LB/AC	PRE	5	98	60	20	65	58	0	90	58	8	45	3
43 DPX 5967	.00	.06	PRE	2	72	78	92	40	90	0	65	72	75	18	6
44 DPX 5967	.00	.13	PRE	5	82	100	98	25	98	0	75	100	98	5	9
45 DPX 5967	.00	.25	PRE	20	72	98	100	30	100	5	88	92	100	12	9
46A DPX 5967	.00	.06	PRE	5	80	95	75	75	92	0	68	92	90	18	8
46B METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
47A DPX 5967	.00	.13	PRE	5	85	98	100	38	98	0	78	95	100	8	9
47B METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
48A DPX 5967	.00	.25	PRE	18	95	100	100	60	100	0	82	98	100	0	9
48B METRIBUZIN 2	4.00 L	.19 LB/AC	PRE												
49A 2,1,1-CHLOR	4.00 E	2.50 LB/AC	PRE	8	100	90	100	95	92	0	90	82	100	80	8
49B DPX 5967	.00	.06	PRE												
50A 2,1,1-CHLOR	4.00 F	2.50 LB/AC	PRE	22	95	95	100	92	100	0	88	75	100	78	9
50B DPX 5967	.00	.13	PRE												
51A 2,1,1-CHLOR	4.00 E	2.50 LB/AC	PRE	48	100	100	100	95	100	18	90	98	100	80	9
51B DPX 5967	.00	.25	PRE												
52 DPX 5967	.00	.06	PRE	5	62	100	100	98	98	0	30	100	100	75	8

Table 14: Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6-24-----						-----7-20-----					
					GRIN	WIFI	COCB	PESW	JLWE	IAMB	GRIN	WIFI	COCB	PESW	JLWE	IAMB
53	DPX 5969	.00	.13	PRE	12	75	100	100	100	100	0	50	98	100	98	9
54	DPX 5969	.00	.25	PRE	32	90	100	100	100	100	10	75	100	100	100	9
55A	DPX 5969	.00	.06	PRE	2	75	100	100	100	95	0	52	98	100	92	8
55B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
56A	DPX 5969	.00	.13	PRE	5	82	100	100	100	98	0	60	100	100	100	8
56B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
57A	DPX 5969	.00	.25	PRE	38	92	100	100	100	100	20	80	100	100	100	9
57B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
58A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	98	100	100	100	95	0	88	100	100	100	8
58B	DPX 5969	.00	.06	PRE												
59A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	22	92	100	100	100	100	0	80	100	100	98	8
59B	DPX 5969	.00	.13	PRE												
60A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	40	98	100	100	100	100	10	85	100	100	100	9
60B	DPX 5969	.00	.25	PRE												
61	DPX 6314	.00	.06	PRE	0	18	98	90	88	88	0	5	98	88	85	8
62	DPX 6314	.00	.13	PRE	0	60	98	98	90	85	0	15	100	95	85	6
63	DPX 6314	.00	.25	PRE	15	65	100	98	100	92	0	42	100	100	98	7
64A	DPX 6314	.00	.06	PRE	0	58	100	95	92	88	0	20	98	82	80	7
64B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
65A	DPX 6314	.00	.13	PRE	2	60	100	100	95	85	0	28	100	95	88	6
65B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
66A	DPX 6314	.00	.25	PRE	2	82	100	100	98	88	0	65	100	100	90	7
66B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE												
67A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	92	100	95	100	80	0	78	98	70	98	5
67B	DPX 6314	.00	.06	PRE												
68A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	88	100	98	100	82	0	78	100	92	95	6
68B	DPX 6314	.00	.13	PRE												
69A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	22	100	100	100	98	95	0	90	100	98	100	7
69B	DPX 6314	.00	.25	PRE												
70	CHECK (CULTIVATED)	.00 CK	.00		0	100	100	100	100	100	0	98	100	98	98	10
			LSU(05):		11	16	25	19	21	22	0	19	31	21	23	28

Table 14: Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	10-1 YLD
1	ALACHLOR	4.00 E	2.50 LB/AC	PRE	22
2	ALACHLOR	4.00 E	3.00 LB/AC	PRE	24
3A	OXYFLUORFEN	2.00 E	.38 LB/AC	PRE	28
3B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
4A	RH-8817	2.00 E	.50 LB/AC	PRE	38
4B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
5A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	33
5B	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE	
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	32
6B	LINURON	4.00 L	1.00 LB/AC	PRE	
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
7B	METRIBUZIN 2	4.00 L	.50 LB/AC	PRE	
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	27
8B	NANPA/DN	3.00 E	4.50 LB/AC	PRE	
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	34
9B	NANPA/DN	3.00 E	1.50 LB/AC	PRE	
9C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	33
10B	NANPA/DN	3.00 E	2.25 LB/AC	PRE	
10C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	33
11B	NANPA/DN	3.00 E	3.00 LB/AC	PRE	
11C	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	33
12B	NANPA/DN	3.00 E	1.50 LB/AC	PRE	
12C	LINURON	4.00 L	1.00 LB/AC	PRE	
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	33
13B	NANPA/DN	3.00 E	2.25 LB/AC	PRE	
13C	LINURON	4.00 L	1.00 LB/AC	PRE	
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	30
14B	NANPA/DN	3.00 E	3.00 LB/AC	PRE	
14C	LINURON	4.00 L	1.00 LB/AC	PRE	
15	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	19

Table 14: Soybean Preemergence (continued)

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE W1011 SOYBEANS PREEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	10-1 YLD
16A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	29
16B	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE	
17A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	34
17B	LINURON	4.00 L	1.00 LB/AC	PRE	
18	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	25
19	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	25
20	LINURON	4.00 L	1.00 LB/AC	PRE	30
21	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	25
22A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	29
22B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
23A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	36
23B	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	
24A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	20
24B	NANPA/DN	3.00 E	3.00 LB/AC	PRE	
25A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	33
25B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	
25C	NANPA/DN	3.00 E	3.00 LB/AC	PRE	
26A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	24
26B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	
27A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PRE	23
27B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	
28A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	24
28B	LINURON	50.00 WP	1.00 LB/AC	PRE	
29A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PRE	22
29B	LINURON	4.00 L	1.00 LB/AC	PRE	
30A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	23
30B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE	
31A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PRE	26
31B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE	
32	PPG-844	2.00 E	.50 LB/AC	PRE	23

Table 14: Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	10-1 YLD
33	PPG-844	2.00 E	1.00 LB/AC	PRE	34
34A	PPG-844	2.00 E	.20 LB/AC	PRE	22
34B	METRIBUZIN 1 UR 2	50.00 WP	.38 LB/AC	PRE	
35	SD 95481	2.00 EC	.50 LB/AC	PRE	14
36	SD 95481	2.00 EC	1.00 LB/AC	PRE	18
37	SD 95481	2.00 EC	2.00 LB/AC	PRE	21
38	MBR 22359	2.00 E	1.00 LB/AC	PRE	15
39	MBR 22359	2.00 E	1.50 LB/AC	PRE	17
40	MBR 22359	2.00 E	2.00 LB/AC	PRE	15
41	MBR 22359	2.00 E	3.00 LB/AC	PRE	18
42	MBR 22359	2.00 E	4.00 LB/AC	PRE	19
43	DPX 5967	.00	.06	PRE	29
44	DPX 5967	.00	.13	PRE	23
45	DPX 5967	.00	.25	PRE	25
46A	DPX 5967	.00	.06	PRE	32
46B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
47A	DPX 5967	.00	.13	PRE	28
47B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
48A	DPX 5967	.00	.25	PRE	26
48B	METRIBUZIN 2	4.00 L	.19 LB/AC	PRE	
49A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	37
49B	DPX 5967	.00	.06	PRE	
50A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
50B	DPX 5967	.00	.13	PRE	
51A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	31
51B	DPX 5967	.00	.25	PRE	
52	DPX 5969	.00	.06	PRE	31

Table 14: Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	10-1 YLD
53	DPX 5969	.00	.13	PRE	34
54	DPX 5969	.00	.25	PRE	37
55A	DPX 5969	.00	.06	PRE	37
55B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
56A	DPX 5969	.00	.13	PRE	35
56B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
57A	DPX 5969	.00	.25	PRE	39
57B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
58A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	42
58B	DPX 5969	.00	.06	PRE	
59A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	41
59B	DPX 5969	.00	.13	PRE	
60A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	38
60B	DPX 5969	.00	.25	PRE	
61	DPX 6314	.00	.06	PRE	20
62	DPX 6314	.00	.13	PRE	33
63	DPX 6314	.00	.25	PRE	34
64A	DPX 6314	.00	.06	PRE	30
64B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
65A	DPX 6314	.00	.13	PRE	29
65B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
66A	DPX 6314	.00	.25	PRE	34
66B	METRIBUZIN 2	4.00 L	.25 LB/AC	PRE	
67A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	34
67B	DPX 6314	.00	.06	PRE	
68A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
68B	DPX 6314	.00	.13	PRE	
69A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	39
69B	DPX 6314	.00	.25	PRE	
70	CHECK (CULTIVATED)	.00 CK	.00		43

LSD(05): 7

Table 14: Soybean Preemergence (continued)

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K P4: 6.6 O.M.: 3.5%
DATE PLANTED: MAY 7 DATE TREATED: PRE MAY 7
VARIETY: WILLIAMS

Table 15: Soybean Preplant Incorporated

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JUNE 24							JULY 26				
					GRAS	RRLE	CRIN	GIFI	COCB	PESW	JLWE	GIFI	COCB	PESW	JLWE	COLQ
1	ALACHLOR	4.00 E	2.50 LR/AC	PPI	85	38	0	85	40	42	48	0	65	25	22	35
2	ALACHLOR	4.00 F	3.00 LR/AC	PPI	88	42	0	88	35	42	42	0	55	30	22	40
3A	ALACHLOR	4.00 E	2.50 LR/AC	PPI	80	80	2	80	55	85	82	0	45	55	75	75
3B	METRIBUZIN 1	4.00 F	.38 LR/AC	PPI												
4A	ALACHLOR	4.00 E	2.50 LR/AC	PPI	88	88	0	88	85	98	95	0	70	82	92	90
4B	METRIBUZIN 1	4.00 F	.38 LR/AC	PPI												
4C	METRIBUZIN 1	4.00 F	.25 LR/AC	PRE												
5A	ALACHLOR	4.00 E	2.50 LR/AC	PPI	80	82	0	80	92	92	88	0	65	75	78	65
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LR/AC	PPI												
6A	ALACHLOR	4.00 E	2.00 LR/AC	PPI	82	82	8	85	62	98	95	0	50	45	95	92
6B	OXYFLUORFEN	2.00 E	.50 LR/AC	PPI												
7A	ALACHLOR	4.00 F	2.50 LR/AC	PPI	85	88	0	85	80	100	98	0	70	65	92	90
7B	RH-8817	2.00 E	.62 LR/AC	PPI												
8	METOLACHLOR	8.00 E	2.50 LR/AC	PPI	98	28	0	98	18	22	52	0	90	12	10	55
9A	METOLACHLOR	8.00 E	2.50 LR/AC	PPI	90	78	2	90	72	85	88	0	85	55	72	82
9B	METRIBUZIN 1	4.00 F	.38 LR/AC	PPI												
10A	METOLACHLOR	8.00 F	2.50 LR/AC	PPI	95	90	5	95	90	100	100	0	90	65	100	100
10B	METRIBUZIN 1	4.00 F	.38 LR/AC	PPI												
10C	METRIBUZIN 1	4.00 F	.25 LR/AC	PRE												
11A	METOLACHLOR	8.00 F	2.50 LR/AC	PPI	98	90	18	98	98	98	98	0	82	98	100	98
11B	METRIBUZIN 1	4.00 F	.50 LR/AC	PPI												
11C	METRIBUZIN 1	4.00 F	.50 LR/AC	PRE												
12	TRIFLURALIN	4.00 F	.75 LR/AC	PPI	80	22	0	80	15	20	22	0	70	10	10	10
13A	TRIFLURALIN	4.00 F	.75 LR/AC	PPI	90	92	8	90	92	100	100	0	62	88	92	92
13B	METRIBUZIN 1	4.00 F	.50 LR/AC	PPI												
13C	METRIBUZIN 1	4.00 F	.25 LR/AC	PRE												
14A	TRIFLURALIN	4.00 E	.75 LR/AC	PPI	90	92	10	90	92	100	100	0	88	92	98	100
14B	METRIBUZIN 1	4.00 F	.50 LR/AC	PPI												
14C	METRIBUZIN 1	4.00 F	.50 LR/AC	PRE												
15A	TRIFLURALIN	4.00 F	1.00 LR/AC	PPI	92	82	5	92	78	85	88	0	90	35	68	80
15B	PPG-844	2.00 F	.25 LR/AC	PRE												
16A	TRIFLURALIN	4.00 F	1.00 LR/AC	PPI	90	88	0	90	92	90	95	0	85	35	95	95
16B	PPG-844	2.00 F	.50 LR/AC	PRE												

Table 15: Soybean Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24-----						-----JULY 26-----					
					GRAS	BRLE	CRIN	GIFI	COCB	PESW	JIWE	GIEI	COCB	PESW	JIWE	COLB
17A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PPI	72	72	0	72	42	75	80	0	45	28	42	52
17B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI												
18A	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI	85	85	8	85	75	90	85	0	65	42	72	45
18B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI												
19A	METRIBUZIN 1	4.00 F	.75 LB/AC	PPI	80	90	2	80	88	98	98	0	35	85	82	88
19B	TRIFLURALIN	4.00 E	.38 LB/AC	PPI												
20	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	88	68	0	88	40	70	70	0	72	42	45	35
21A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	75	78	2	75	65	78	82	0	60	42	48	50
21B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI												
22A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PPI	78	80	0	78	68	82	82	0	60	52	68	75
22B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI												
23	VERNOLATE	7.00 E	2.50 LB/AC	PPI	75	35	0	75	30	35	35	0	60	25	5	5
24A	VERNOLATE	6.70 EW	2.50 LB/AC	PPI	82	60	15	82	55	55	72	0	60	22	32	50
24B	NAPROPAMIDE	4.00 F	1.00 LB/AC	PPI												
25A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	85	70	12	85	65	62	75	0	60	50	38	65
25B	WITH R-33865	1.00	.42	PPI												
25C	NAPROPAMIDE	4.00 F	1.00 LB/AC	PPI												
26	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	55	88	0	55	90	95	92	0	12	75	98	90
27	FLUCLORALIN	4.00 F	1.00 LB/AC	PPI	75	42	2	75	30	35	32	0	70	20	8	20
28	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	75	12	0	75	8	12	12	0	60	0	0	0
29	ETHALFLURALIN	3.00 E	.94 LB/AC	PPI	80	68	8	80	65	72	48	0	70	58	48	30
30	EL 5219	3.00 EC	.75 LB/AC	PPI	78	40	5	78	32	28	42	0	65	12	10	28
31	EL 5261	3.00 EC	.75 LB/AC	PPI	85	52	0	85	22	50	50	0	58	20	35	38
32	EL 5261	3.00 EC	1.50 LB/AC	PPI	92	78	25	92	60	80	82	2	82	22	70	65
33A	RE 28236	4.00 E	3.00 LB/AC	PPI	78	80	5	78	80	88	90	0	42	60	48	85
33B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI												
34	SD 95481	2.00 EC	.25 LB/AC	PPI	8	2	0	8	0	0	0	0	5	0	0	0
35	SD 95481	2.00 EC	.50 LB/AC	PPI	72	22	0	72	22	22	15	0	52	18	0	0

Table 15: Soybean Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24-----						-----JULY 26-----					
					GRAS	BRLE	CHIN	GIEI	COCB	PESY	WAE	GIEI	COCB	PESY	WAE	COLR
36	SD 95481	2.00 EC	1.00 LB/AC	PPI	95	28	12	95	22	22	20	0	92	18	0	20
37	S-734	75.00 WP	1.00 LB/AC	PPI	100	8	2	100	10	0	10	0	95	10	0	10
38A	S-734	75.00 WP	1.00 LB/AC	PPI	100	85	5	100	82	88	92	0	92	68	78	85
38B	LINURON	4.00 L	1.00 LB/AC	PRE												
39A	S-734	75.00 WP	1.00 LB/AC	PPI	100	90	0	100	85	92	90	0	92	80	75	92
39B	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE												
40	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100	0	100	100	100	100
				LSO(05):	10	16	11	10	28	21	21	16	29	20	24	18

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K Ph: 6.6 O.M.: 3.5%
 DATE PLANTED: MAY 7 DATE TREATED: PPI & PRE: MAY 7
 VARIETY: WILLIAMS

Table 15: Soybean Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	10-1 YLD
1	ALACHLOR	4.00 E	2.50 LB/AC	PPI	18
2	ALACHLOR	4.00 E	3.00 LB/AC	PPI	24
3A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	25
3B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI	
4A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	32
4B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI	
4C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE	
5A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	25
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
6A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	35
6B	OXYFLUORFEN	2.00 E	.50 LB/AC	PPI	
7A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	35
7B	RH-8817	2.00 E	.62 LB/AC	PPI	
8	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	14
9A	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	15
9B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI	
10A	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	31
10B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI	
10C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE	
11A	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	38
11B	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI	
11C	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE	
12	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	15
13A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	35
13B	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI	
13C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE	
14A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	35
14B	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI	
14C	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE	
15A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	24
15B	PPG-844	2.00 E	.25 LB/AC	PRE	
16A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	30
16B	PPG-844	2.00 E	.50 LB/AC	PRE	

Table 15: Soybean Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	10-1 YIELD
17A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PPI	22
17B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	
18A	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI	13
18B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	
19A	METRIBUZIN 1	4.00 F	.75 LB/AC	PPI	32
19B	TRIFLURALIN	4.00 E	.38 LB/AC	PPI	
20	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	24
21A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	19
21B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI	
22A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PPI	26
22B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI	
23	VERNOLATE	7.00 E	2.50 LB/AC	PPI	14
24A	VERNOLATE	6.70 EW	2.50 LB/AC	PPI	15
24B	NAPROPAMIDE	4.00 F	1.00 LB/AC	PPI	
25A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	15
25B	WITH R-33865	1.00	.42	PPI	
25C	NAPROPAMIDE	4.00 F	1.00 LB/AC	PPI	
26	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	21
27	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	22
28	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	19
29	ETHALFLURALIN	3.00 E	.94 LB/AC	PPI	19
30	EL 5219	3.00 EC	.75 LB/AC	PPI	21
31	EL 5261	3.00 EC	.75 LB/AC	PPI	17
32	EL 5261	3.00 EC	1.50 LB/AC	PPI	10
33A	RE 28236	4.00 E	3.00 LB/AC	PPI	13
33B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI	
34	SD 95481	2.00 EC	.25 LB/AC	PPI	18
35	SD 95481	2.00 EC	.50 LB/AC	PPI	10

Table 15: Soybean Preplant Incorporated (continued)

<u>TRT NO.</u>	<u>HERBICIDE TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL METH</u>	<u>10-1 YLD</u>
36	SD 95481	2.00 EC	1.00 LB/AC	PPI	12
37	S-734	75.00 WP	1.00 LB/AC	PPI	15
38A	S-734	75.00 WP	1.00 LB/AC	PPI	29
38B	LINURON	4.00 L	1.00 LB/AC	PRE	
39A	S-734	75.00 WP	1.00 LB/AC	PPI	35
39B	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE	
40	CHECK (CULTIVATED)	.00 CK	.00		39
LSD(05):					5

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 7
 VARIETY: WILLIAMS
 SOIL TYPE: MAURY SILT LOAM
 PH: 6.6 U.M.: 3.5%
 DATE TREATED: PRE MAY 7
 PPI MAY 7

Table 16: Soybean Postemergence

TRT YU.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 23-----								-----JULY 30-----				10-1 YLD.
					GRAS	TRLE	CRIN	GIFI	COCB	PESA	YLD	GRAS	GIFI	COCB	PESA		
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	80	10	98	82	90	90	0	98	30	78	25	
1B	NANPA/DN	3.00 E	1.50 LB/AC	EP													
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	88	15	90	90	95	90	0	78	70	88	32	
2B	NANPA/DN	3.00 E	2.25 LB/AC	EP													
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	90	8	92	95	95	100	0	92	90	95	30	
3B	NANPA/DN	3.00 E	2.25 LB/AC	MP													
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	82	10	92	78	92	95	0	80	75	90	36	
4B	BENTAZON	4.00 E	.75 LB/AC	EP													
4C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP													
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	90	55	95	90	90	100	0	90	85	95	32	
5B	CHLORAMBEN	2.00 E	3.00 LB/AC	MP													
5C	2,4-DB	2.00 E	.06 LB/AC	MP													
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	58	100	95	95	90	8	95	92	92	32	
6B	CHLORAMBEN	2.00 E	3.00 LB/AC	MP													
6C	2,4-DB	2.00 E	.06 LB/AC	MP													
6D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	MP													
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	92	10	100	92	92	100	0	90	65	85	29	
7B	CHLORAMBEN	2.00 E	2.00 LB/AC	MP													
7C	NAPTALAM	2.00 EC	2.00 LB/AC	MP													
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	92	8	92	95	95	100	0	88	88	90	28	
8B	CHLORAMBEN	2.00 E	3.00 LB/AC	MP													
8C	NAPTALAM	2.00 EC	2.00 LB/AC	MP													
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	82	8	100	72	90	92	0	100	72	75	20	
9B	CHLORAMBEN	2.00 E	3.00 LB/AC	MP													
9C	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	MP													
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	22	100	95	100	100	0	82	88	92	34	
10B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP													
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	95	52	98	95	100	75	0	90	85	90	36	
11B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP													
11C	2,4-DB	2.00 E	.06 LB/AC	MP													
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	26	100	95	95	90	0	88	92	98	37	
12B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP													
12C	2,4-DB	2.00 E	.03 LB/AC	MP													
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	42	0	95	52	22	92	0	72	15	12	26	
13B	ACIFLUORFEN	2.00 E	.50 LB/AC	LLP													

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Table 16: Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	-----JUNE 23-----								-----JULY 30-----				10-1 YLD.
					GRAS	ARLE	CRIN	GIFI	COCK	PESW	COLB	CRIN	GIFI	COCK	PESW		
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	70	8	95	85	68	88	0	88	78	65	30	
14B	ACIFLUORFEN	2.00 E	.50 LB/AC	LLP													
14C	2,4-DB	2.00 E	.03 LB/AC	LLP													
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	68	70	12	88	50	45	65	5	58	70	55	28	
15B	ACIFLUORFEN	2.00 E	.50 LB/AC	LLP													
15C	2,4-DB	2.00 E	.06 LB/AC	LLP													
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	100	10	80	100	100	100	0	45	100	100	29	
16B	ACIFLUORFEN	2.00 E	.25 LB/AC	MP													
16C	BENTAZON	4.00 E	.75 LB/AC	MP													
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	82	98	10	82	100	100	98	0	70	100	100	29	
17B	ACIFLUORFEN	2.00 E	.38 LB/AC	MP													
17C	BENTAZON	4.00 E	.50 LB/AC	MP													
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	12	100	100	100	100	0	85	80	92	37	
18B	ACIFLUORFEN	2.00 E	.38 LB/AC	MP													
18C	BENTAZON	4.00 E	.75 LB/AC	MP													
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	98	15	95	98	100	100	0	80	95	100	40	
19B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP													
19C	BENTAZON	4.00 E	.50 LB/AC	MP													
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	18	100	100	100	100	0	98	98	100	36	
20B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP													
20C	BENTAZON	4.00 E	.75 LB/AC	MP													
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	78	8	100	90	52	95	0	78	60	55	27	
21B	RH-0265	2.00 E	.06 LB/AC	MP													
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	92	12	95	98	92	98	0	82	92	88	30	
22B	RH-0265	2.00 E	.12 LB/AC	MP													
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	22	100	100	98	95	0	85	100	85	30	
23B	RH-0265	2.00 E	.25 LB/AC	MP													
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	85	15	98	92	80	90	0	88	85	78	31	
24B	RH-0265	2.00 E	.06 LB/AC	MP													
24C	TRITON AG 95 SURFACT	.00 WA	.13 %	MP													
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	92	12	100	98	90	100	0	80	85	82	35	
25B	RH-0265	2.00 E	.12 LB/AC	MP													
25C	TRITON AG 95 SURFACT	.00 WA	.13 %	MP													
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	92	18	100	90	90	100	0	92	82	78	27	
26B	RH-0265	2.00 E	.25 LB/AC	MP													
26C	TRITON AG 95 SURFACT	.00 WA	.13 %	MP													

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Table 16: Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23-----							-----JULY 30-----				10-1 YLD
					GRAS	BRLE	CRIN	GIEI	COCH	PESW	COLQ	CRIN	GIEI	COCH	PESW	
27A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	90	2	98	88	95	100	0	95	65	90	27
27B	MC 10978	2.00 S	.38 LB/AC	EP												
28A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	90	2	98	90	95	98	0	90	80	98	35
28B	MC 10978	2.00 S	.50 LB/AC	EP												
29A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	95	15	95	98	100	100	0	95	95	100	29
29B	MC 10978	2.00 S	.75 LB/AC	EP												
30A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	2	100	98	100	100	0	92	95	100	34
30B	MC 10978	2.00 S	1.00 LB/AC	EP												
31A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	18	100	98	100	100	0	100	90	100	30
31B	MC 10978	2.00 S	.38 LB/AC	EP												
31C	SURFACTANT (X-77)	.50 WA	.25 %	EP												
32A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	18	100	95	100	100	0	80	95	98	32
32B	MC 10978	2.00 S	.50 LB/AC	EP												
32C	SURFACTANT (X-77)	.50 WA	.25 %	EP												
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	20	100	95	95	98	0	92	88	95	33
33B	MC 10978	2.00 S	.75 LB/AC	EP												
33C	SURFACTANT (X-77)	.50 WA	.50 %	EP												
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	32	100	100	100	100	0	90	98	100	33
34B	MC 10978	2.00 S	1.00 LB/AC	EP												
34C	SURFACTANT (X-77)	.50 WA	.50 %	EP												
35A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	88	5	98	88	85	98	0	90	72	62	30
35B	MO 70077	4.00 L	.63 LB/AC	EP												
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	90	0	98	82	100	100	0	80	52	98	33
36B	MO 70077	4.00 L	1.00 LB/AC	EP												
37	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	98	92	10	98	95	95	98	0	85	92	90	29
38A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	100	95	15	100	100	100	100	0	98	100	92	30
38B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP												
39A	FLUCLORALIN	4.00 E	1.00 LB/AC	PPI	75	92	15	75	98	98	95	0	55	88	95	30
39B	BENTAZON	4.00 E	.75 LB/AC	MP												
39C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
40A	BAS 9052	1.53 EC	.50 LB/AC	FP	85	82	0	88	82	92	90	0	75	30	55	33
40B	BENTAZON	4.00 E	.75 LB/AC	EP												
40C	OIL CONCENTRATE	.00 AD	1.00 QT/AC													

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Table 16: Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25-----							-----JULY 30-----				10-1 YLD
					GRAS	GRLE	CRIN	GIFT	COCH	PESW	QULW	CRIN	GIFT	COCH	PESW	
41A	CGA-82725	2.10 EC	.25 LB/AC	MP	93	58	0	98	98	98	22	0	88	92	92	26
41B	BENTAZON	4.00 E	.75 LB/AC	MP												
41C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
42A	CGA-82725	2.10 EC	.50 LB/AC	MP	95	42	0	95	68	90	25	0	95	92	90	28
42B	BENTAZON	4.00 E	.75 LB/AC	MP												
42C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
43A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	72	100	0	72	100	100	100	0	32	98	100	35
43B	METRIBUZIN 1	4.00 F	.25 LB/AC	POD												
43C	2,4-DB	2.00 E	.20 LB/AC	POD												
44A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	68	100	22	68	100	100	100	10	15	100	100	34
44B	METRIBUZIN 1	4.00 F	.38 LB/AC	POD												
44C	2,4-DB	2.00 E	.20 LB/AC	POD												
45A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	82	100	18	82	100	100	100	0	35	100	100	34
45B	METRIBUZIN 1	4.00 F	.50 LB/AC	POD												
45C	2,4-DB	2.00 E	.20 LB/AC	POD												
46A	LINURON	4.00 L	1.00 LB/AC	PKE	95	100	12	95	100	100	100	0	85	100	100	34
46B	LINURON	4.00 L	.50 LB/AC	POD												
46C	2,4-DB	2.00 E	.20 LB/AC	POD												
47A	LINURON	4.00 L	1.00 LB/AC	PRE	88	100	22	88	100	100	100	18	58	98	100	39
47B	LINURON	4.00 L	1.00 LB/AC	POD												
47C	2,4-DB	2.00 E	.20 LB/AC	POD												
48A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	78	98	12	78	100	100	100	0	22	100	100	36
48B	BENTAZON	4.00 E	1.00 LB/AC	MP												
48C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
49A	PENDIMETHALIN	50.00 DF	1.00 LB/AC	PPI	72	100	0	75	100	100	100	0	30	100	100	31
49B	BENTAZON	4.00 E	1.00 LB/AC	MP												
49C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
50A	PENDIMETHALIN	4.00 E	2.00 LB/AC	PPI	80	100	20	80	100	100	100	12	65	100	100	30
50B	BENTAZON	4.00 E	1.00 LB/AC	MP												
50C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
51A	PENDIMETHALIN	50.00 DF	2.00 LB/AC	PPI	88	85	32	88	85	85	80	10	70	78	85	29
51B	BENTAZON	4.00 E	1.00 LB/AC	MP												
51C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
52	DPX 5969	.00	.25	CR	83	100	18	88	100	100	100	8	70	100	100	31
53	DPX 5969	.00	.25	1TR	38	100	12	38	100	100	100	0	10	98	100	26

Table 16: Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 23-----							-----JULY 30-----				10-1 YLD
					GRAS	BRLE	CRIN	GIFI	COCB	PESV	QULW	CRIN	GIFI	COCB	PESV	
54	DPX 5969	.00	.25	3TR	32	90	55	32	98	98	80	52	20	98	98	16
55A	MBR 22359	2.00 E	.50 LB/AC	MP	85	38	28	85	45	38	40	0	75	30	25	14
55B	SURFACTANT (x-77)	.50 WA	.50 Z	MP												
56A	MBR 22359	2.00 E	1.00 LB/AC	MP	95	32	35	95	60	25	40	5	82	45	5	16
56B	SURFACTANT (x-77)	.50 WA	.50 Z	MP												
57A	MBR 22359	2.00 E	2.00 LB/AC	MP	100	22	45	100	60	22	50	42	82	65	5	16
57B	SURFACTANT (x-77)	.50 WA	.50 Z	MP												
58	PPG-844	2.00 E	.20 LB/AC	EP	80	92	2	80	92	95	90	0	45	72	68	29
59	PPG-844	2.00 E	.30 LB/AC	EP	90	88	20	92	92	92	92	0	65	80	70	32
60A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	88	90	22	88	92	88	95	0	75	75	85	25
60B	PPG-844	2.00 E	.10 LB/AC	EP												
61A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	98	90	20	98	95	98	92	0	88	88	90	28
61B	PPG-844	2.00 E	.20 LB/AC	EP												
62A	PPG-844	2.00 E	.50 LB/AC	PRE	92	95	12	92	98	100	100	0	72	92	98	39
62B	PPG-844	2.00 E	.20 LB/AC	EP												
63A	PPG-844	2.00 E	.20 LB/AC	EP	98	75	8	98	88	58	90	0	92	42	50	25
63B	DICLOFOP METHYL	3.00 E	1.00 LB/AC	EP												
64A	PPG-844	2.00 E	.20 LB/AC	EP	100	80	10	100	90	85	90	0	100	75	45	29
64B	CGA-82725	2.10 EC	.75 LB/AC	EP												
65A	S-734	75.00 WP	1.00 LB/AC	PPI	98	70	12	98	80	52	92	0	82	38	38	19
65B	NANPA/DN	3.00 E	4.50 LB/AC	CR												
66A	S-734	75.00 WP	1.00 LB/AC	PPI	95	72	18	95	85	68	72	5	78	78	40	21
66B	NANPA/DN	3.00 E	2.25 LB/AC	MP												
67A	S-734	75.00 WP	1.00 LB/AC	PPI	90	92	10	90	98	95	95	2	80	98	95	30
67B	BENTAZON	4.00 E	1.00 LB/AC	MP												
67C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP												
58	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100	0	100	100	100	38
			LSD(05):		12	13	13	10	18	16	19	8	15	19	17	7

Table 16: Soybean Postemergence (continued)

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURTY SILT LOAM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.6 O.M.: 3.5%
DATE PLANTED: MAY 7 DATE TREATED: PPI & PRE: MAY 7
VARIETY: WILLIAMS CR: MAY 17
ITR & MP: JUNE 5
3TR & POD: JUNE 11, LLP: JUNE 22, EP = 0-2", MP = 2-4", LLP = 5-8".

Table 17: Soybean Relay Cropping in Standing Wheat

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 20-----								WHT	SOY
					GRAS	HRLE	CRIN	GIEI	RRPW	CLLJ	COKE	PESW	6-26 YLD	10-3 YLD
1	PENDIMETHALIN	4.00 E	1.00 LB/AC	JT	48	52	0	55	82	98	25	65	29	35
2	PENDIMETHALIN	4.00 E	1.50 LB/AC	JT	58	52	0	58	52	90	20	90	32	32
3	PENDIMETHALIN	4.00 E	2.00 LB/AC	JT	85	60	0	85	60	98	10	92	32	31
4A	PENDIMETHALIN	4.00 E	1.00 LB/AC	JT	30	62	5	30	42	100	85	92	23	34
4B	METRIBUZIN 1	4.00 F	.38 LB/AC	JT										
5A	PENDIMETHALIN	4.00 E	1.50 LB/AC	JT	90	70	0	90	72	95	12	92	32	31
5B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP										
6A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	30	70	0	30	45	100	75	98	0	40
6B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE										
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE										
6D	SURFACTANT (X-77)	.50 WA	.25 %	PRE										
7A	PENDIMETHALIN	4.00 E	1.00 LB/AC	POW	30	78	8	50	88	98	80	65	58	23
7B	METRIBUZIN 1	4.00 F	.38 LB/AC	POW										
7C	PARAQUAT	2.00 E	.25 LB/AC	POW										
7D	SURFACTANT (X-77)	.50 WA	.50 %	POW										
8A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	30	65	0	30	40	100	80	92	0	36
8B	LINURON	4.00 L	1.00 LB/AC	PRE										
8C	PARAQUAT	2.00 E	.25 LB/AC	PRE										
8D	SURFACTANT (X-77)	.50 WA	.50 %	PRE										
9A	PENDIMETHALIN	4.00 E	1.00 LB/AC	POW	48	85	0	70	90	100	100	80	57	30
9B	LINURON	4.00 L	1.00 LB/AC	POW										
9C	PARAQUAT	2.00 E	.25 LB/AC	POW										
9D	SURFACTANT (X-77)	.50 WA	.50 %	POW										
10	ORYZALIN	4.00 AS	1.50 LB/AC	JT	72	92	0	72	95	98	95	100	23	46
11	ORYZALIN	4.00 AS	1.50 LB/AC	EH	85	75	0	85	92	100	55	100	20	41
12	ORYZALIN	4.00 AS	2.50 LB/AC	EH	42	60	0	42	95	88	0	75	29	24
13A	ORYZALIN	4.00 AS	1.50 LB/AC	JT	65	60	0	68	100	60	22	68	26	35
13B	LV-4	4.00 E	.75 LB/AC	JT										
14A	ORYZALIN	4.00 AS	1.50 LB/AC	JT	92	82	0	92	98	98	70	98	20	39
14B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP										
15	EL-5219	3.00 EC	.94 LB/AC	JNT	45	60	0	45	75	98	38	62	32	34
16A	BAS 9052	1.53 EC	.75 LB/AC	MP	98	60	0	98	98	34	55	95	34	34
16B	BENTAZON	4.00 E	.75 LB/AC	MP										
16C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP										

60

Table 17: Soybean Relay Cropping in Standing Wheat (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 20								WHT	SOY
					GRAS	BRLE	CRIN	GIFI	RRPW	CJLJ	CRW	PESW	YLD	YLD
17A	BAS 9052	1.53 EC	.75 LB/AC	MP	95	62	0	95	95	35	78	85	25	37
17B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP										
18A	CGA-82725	2.10 EC	1.00 LB/AC	MP	60	52	0	60	78	70	25	40	34	29
18B	BENTAZON	4.00 E	.75 LB/AC	MP										
18C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP										
LSD(05):					34	17	NS	35	40	28	38	35	9	6

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

DATE PLANTED: MAY 13

VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM

PH: 6.3 U.M.: 4.3%

DATE TREATED: JT: APRIL 15, EB: MA

PRE: MAY 13, MP: JUN

POW: JUNE 26

Table 18: Soybean No-till in Wheat Stubble

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	ERLE	CRIM	YENS	PESW	BLYS	
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	97	47	10	73	33	97	28
1B	LINURON	4.00 L	.75 LB/AC	PRE							
1C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
1D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	97	63	0	73	30	100	28
2B	LINURON	75.00 DF	.75 LB/AC	PRE							
2C	PARAQUAT	2.00 F	.25 LB/AC	PRE							
2D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	57	47	7	47	60	93	25
3B	LINURON	4.00 L	.75 LB/AC	PRE							
3C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
4A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	100	77	0	40	100	100	23
4B	LINURON	4.00 L	1.00 LB/AC	PRE							
4C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE							
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	93	77	7	33	83	90	30
5B	LINURON	4.00 L	1.00 LB/AC	PRE							
5C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
6A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	97	67	3	20	80	100	29
6B	LINURON	75.00 DF	.75 LB/AC	PRE							
6C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
7A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	3	33	100	90	28
7B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE							
7C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	93	77	0	47	97	90	26
8B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE							
8C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
9A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	93	67	0	67	87	87	30
9B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE							
9C	PARAQUAT	2.00 E	.50 LB/AC	PRE							
9D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	73	0	23	87	97	23
10B	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
11A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	100	73	0	40	83	100	29
11B	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE							
12A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	100	77	0	40	90	97	25
12B	METRIBUZIN 1 DP 2	50.00 WP	.50 LB/AC	PRE							
12C	GLYPHOSATE	4.00 F	1.50 LB/AC	PRE							

Table 18: Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	BRLE	CRIN	YFMS	PESW	BLVS	
13A	ALACHLOR	4.00 F	1.00 LB/AC	PRE	83	70	10	13	97	97	18
13B	BROMOXNYL 1	2.00 E	.50 LB/AC	PRE							
13C	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
14A	ALACHLOR	4.00 E	1.00 LB/AC	PRE	90	77	7	17	97	100	25
14B	BROMOXNYL 1	2.00 E	.50 LB/AC	PRE							
14C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
14D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
15A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	87	0	27	97	97	25
15B	LINURON	4.00 L	1.00 LB/AC	PRE							
15C	BROMOXNYL 1	2.00 E	.50 LB/AC	PRE							
15D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	60	13	53	80	93	23
16B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
16C	ACIFLUORFEN	2.00 E	.50 LB/AC	MP							
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	97	70	3	63	100	73	22
17B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
17C	ACIFLUORFEN	2.00 E	.50 LB/AC	MP							
17D	2,4-DB	2.00 E	.03 LB/AC	MP							
18A	BIFENOX	4.00 F	2.00 LB/AC	PRE	80	57	0	47	67	100	29
18B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
18C	PARAQUAT	2.00 F	.25 LB/AC	PRE							
18D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
19A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	60	7	60	43	73	20
19B	OXYFLUORFEN	2.00 E	.25 LB/AC	PRE							
19C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
19D	TRITON AG 98 SURFACT	.00 WA	1.00 %	PRE							
20A	OXYFLUORFEN	2.00 F	.50 LB/AC	PRE	100	70	0	47	67	97	42
20B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
20C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
20D	TRITON AG 98 SURFACT	.00 WA	.50 %	PRE							
21A	OXYFLUORFEN	2.00 F	.50 LB/AC	PRE	93	63	20	160	63	90	41
21B	METOLACHLOR	8.00 E	2.50 LB/AC	PRE							
21C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
21D	SURFACTANT (Y-77)	.50 WA	.50 %	PRE							
22A	OXYFLUORFEN	2.00 F	.50 LB/AC	PRE	93	87	0	40	87	100	31
22B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
22C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							

Table 18: Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	BRLE	CRIN	YENS	PESW	BLYS	
23A	OXYFLUORFEN	2.00 F	.50 LB/AC	PRE	100	73	10	23	57	97	26
23B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE							
23C	PARAQUAT	2.00 F	.25 LB/AC	PRE							
23D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
24A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	100	60	7	40	63	97	24
24B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
24C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE							
25	MON 9001	3.83 F	3.11 LB/AC	PRE	97	53	0	17	60	83	24
26	MON 9001	3.83 E	3.83 LB/AC	PRE	100	47	3	40	53	93	29
27	MON 9001	3.83 E	4.79 LB/AC	PRE	93	77	0	27	77	100	25
29A	MON 9001	3.83 E	4.00 LB/AC	PRE	97	73	0	43	97	67	42
28B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE							
29A	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	100	87	10	30	83	100	21
29B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE							
29C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
30A	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	97	67	0	77	100	77	26
30B	METOLACHLOR	8.00 E	2.00 LB/AC	PRE							
30C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
31A	CHLORAMBEN	2.00 F	2.00 LB/AC	PRE	100	83	7	7	83	100	24
31B	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE							
32A	CHLORAMBEN	2.00 E	.25 LB/AC	PRE	100	83	0	37	90	90	25
32B	LINURON	4.00 L	1.00 LB/AC	PRE							
32C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE							
33A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	93	70	0	53	97	93	27
33B	LINURON	4.00 L	1.00 LB/AC	PRE							
33C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
33D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
34A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	100	67	0	50	53	87	23
34B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
34C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
34D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
35A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	97	93	0	23	100	100	23
35B	LINURON	4.00 L	1.00 LB/AC	PRE							
35C	BROMOXNYL 1	2.00 E	.50 LB/AC	PRE							
35D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							

Table 18: Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	BRLE	CRIN	YENS	PESW	RLYS	
36A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	77	93	7	43	100	100	25
36B	LINURON	4.00 L	1.00 LB/AC	PRE							
36C	BROMOXNYL 1	2.00 F	.50 LB/AC	PRE							
36D	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
37A	BAS 9052	1.53 EC	.75 LB/AC	MP	100	40	13	70	93	73	18
37B	BENTAZON	4.00 E	.75 LB/AC	MP							
37C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
38A	BAS 9052	1.53 EC	.75 LB/AC	MP	100	37	37	73	57	70	13
38B	BENTAZON	4.00 E	.75 LB/AC	MP							
38C	2,4-DB	2.00 F	.03 LB/AC	MP							
38D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
39A	BAS 9052	1.53 EC	.75 LB/AC	MP	97	43	43	80	97	83	17
39B	BENTAZON	4.00 E	.75 LB/AC	MP							
39C	2,4-DB	2.00 E	.06 LB/AC	MP							
39D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
40A	PARAQUAT	2.00 F	.25 LB/AC	PRE	100	40	20	87	87	53	22
40B	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
40C	BAS 9052	1.53 EC	.50 LB/AC	MP							
40D	BENTAZON	4.00 E	.75 LB/AC	MP							
40E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
41A	BAS 9052	1.53 EC	.75 LB/AC	PRE	100	13	53	80	53	70	12
41B	CROP OIL	.00 AD	1.00 QT/AC	PRE							
41C	BAS 9052	1.53 EC	.50 LB/AC	MP							
41D	BENTAZON	4.00 E	.75 LB/AC	MP							
41E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
42A	METOLACHLOR	8.00 F	2.00 LB/AC	PRE	100	67	7	60	87	97	24
42B	GLYPHOSATE	4.00 F	1.50 LB/AC	PRE							
43A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	87	70	0	77	93	87	25
43B	GLYPHOSATE	4.00 F	1.50 LB/AC	PRE							
44A	METOLACHLOR	8.00 F	2.00 LB/AC	PRE	100	63	3	50	67	80	26
44B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE							
44C	GLYPHOSATE	4.00 F	1.50 LB/AC	PRE							
45A	METOLACHLOR	8.00 F	2.50 LB/AC	PRE	100	50	7	63	77	67	23
45B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE							
45C	GLYPHOSATE	4.00 F	1.50 LB/AC	PRE							
46A	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE	97	63	0	70	93	70	26
46B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
46C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							

Table 18: Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	SOLE	CRIN	YENS	PESW	BLVS	
47A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	100	40	3	60	57	43	25
47B	PARAQUAT	2.00 E	.25 LB/AC	PRF							
47C	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
48A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	93	67	13	67	87	87	26
48B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
48C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
48D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
49A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	97	60	10	37	70	70	22
49B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE							
49C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
49D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
50A	LINURON	4.00 L	.75 LB/AC	PRE	87	70	0	50	87	93	27
50B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
50C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
51A	LINURON	4.00 L	1.00 LB/AC	PRE	90	40	7	70	30	100	23
51B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
51C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
52A	LINURON	4.00 L	1.00 LB/AC	PRE	97	87	0	13	100	100	29
52B	BROMOXYNIL 1	2.00 E	.50 LB/AC	PRE							
52C	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	PRE							
53A	BIFENOX	4.00 F	2.00 LB/AC	PRE	100	40	3	80	33	73	22
53B	METOLACHLOR	8.00 E	2.50 LB/AC	PRE							
53C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
53D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
54A	BIFENOX	4.00 F	2.00 LB/AC	PRE	97	23	30	53	10	93	13
54B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE							
54C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
54D	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
55A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	100	43	23	33	30	67	18
55B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
55C	SURFACTANT (X-77)	.50 WA	.50 %	PRF							
56A	EL 5219	3.00 EC	3.00 LB/AC	PRE	100	57	27	53	27	87	17
56B	PARAQUAT	2.00 E	1.00 LB/AC	PRE							
56C	SURFACTANT (X-77)	.50 WA	.25 %	PRE							
57A	PPG-844	2.00 E	.50 LB/AC	PRE	97	83	7	37	93	90	25
57B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
57C	SURFACTANT (X-77)	.50 WA	.25 %	PRE							

Table 18: Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	ARLE	CRIN	YENS	PESW	BLNS	
58A	PPG-844	2.00 F	.50 LB/AC	PRE	90	73	0	70	97	100	25
58B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
58C	CROP OIL	.00 AD	1.00 QT/AC	PRE							
59A	ALACHLOR	4.00 F	.50 LB/AC	PRE	90	87	0	40	93	100	28
59B	LINURON	4.00 L	1.00 LB/AC	PRE							
59C	HOE 661	1.67 F	.50 LB/AC	PRE							
60A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	97	93	0	60	100	100	32
60B	LINURON	4.00 L	1.00 LB/AC	PRE							
60C	HOE 661	1.67 F	.75 LB/AC	PRE							
61A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	100	93	3	43	100	97	24
61B	LINURON	4.00 L	1.00 LB/AC	PRE							
61C	HOE 661	1.67 F	1.00 LB/AC	PRE							
62A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	100	90	0	57	97	93	32
62B	LINURON	4.00 L	1.00 LB/AC	PRE							
62C	HOE 661	1.67 E	.50 LB/AC	PRE							
62D	AMMONIUM SULFATE	4.00 E	2.00 LB/AC	PRE							
63A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	83	0	77	100	100	25
63B	LINURON	4.00 L	1.00 LB/AC	PRE							
63C	HOE 661	1.67 E	.75 LB/AC	PRE							
63D	AMMONIUM SULFATE	4.00 F	2.00 LB/AC	PRE							
64A	PENDIMETHALIN	4.00 F	1.00 LB/AC	PRE	97	57	0	60	73	50	25
64B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
64C	PARAQUAT	2.00 F	.25 LB/AC	PRE							
64D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
65A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	97	77	0	53	83	90	30
65B	LINURON	4.00 L	1.00 LB/AC	PRE							
65C	PARAQUAT	2.00 E	.25 LB/AC	PRE							
65D	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
66A	CGA-82725	2.10 EC	.38 LB/AC	MP	97	40	47	63	50	93	13
66B	RENTAZON	4.00 E	.75 LB/AC	MP							
66C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
67A	CGA-82725	2.10 EC	.50 LB/AC	MP	93	23	10	63	70	57	20
67B	RENTAZON	4.00 E	.75 LB/AC	MP							
67C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
68A	RO 13-8895	3.00 E	.38 LB/AC	MP	100	30	60	67	53	87	14
68B	RENTAZON	4.00 E	.75 LB/AC	MP							
68C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							

Table 18: Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 27-----						11-2 YLD
					GRAS	ERLE	CRIM	YENS	PESW	RLNS	
69A	RO 13-8895	3.00 F	.50 LB/AC	MP	100	17	33	80	47	57	15
69B	BENTAZON	4.00 E	.75 LB/AC	MP							
69C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
70A	FLUAZIFOP BUTYL	4.00 F	.50 LB/AC	PRE	100	30	0	23	33	67	16
70B	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
70C	FLUAZIFOP BUTYL	4.00 E	.25 LB/AC	MP							
70D	SURFACTANT (X-77)	.50 WA	.50 %	MP							
71A	LINURON	4.00 L	1.00 LB/AC	PRE	100	60	3	60	53	100	30
71B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
71C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
71D	FLUAZIFOP BUTYL	4.00 E	.25 LB/AC	MP							
71E	SURFACTANT (X-77)	.50 WA	.50 %	MP							
72A	LINURON	4.00 L	1.00 LB/AC	PRE	100	73	0	60	70	97	25
72B	PARAQUAT	2.00 E	.25 LB/AC	PRE							
72C	SURFACTANT (X-77)	.50 WA	.50 %	PRE							
72D	FLUAZIFOP BUTYL	4.00 E	.50 LB/AC	MP							
72E	SURFACTANT (X-77)	.50 WA	.50 %	MP							
LSD(05):					13	29	21	33	36	28	12

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

DATE PLANTED: JUNE 19

VARIETY: WILLIAMS

MP = 2-4".

SOIL TYPE: MAURY SILT LOAM

P4: 6.3 O.M.: 2.9%

DATE TREATED: PRE: JUNE 19

MP: JULY 2

Table 19: Soybean Protectant Study

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6-19			-----7-10			-----9-30				
					GRAS	BRLE	CRIN	LACG	RRPW	GRAS	BRLE	CRIN	LACG	KRPW	YLD
1	METRIBUZIN	75.00 DF	.50 LB/AC	PRE	90	95	20	90	95	90	90	2	78	98	30
2	METRIBUZIN	75.00 DF	.75 LB/AC	PRE	98	98	5	98	100	95	90	0	95	100	33
3	METRIBUZIN	75.00 DF	1.50 LB/AC	PRE	100	100	78	100	100	95	98	40	95	100	26
4A	METRIBUZIN	75.00 DF	.50 LB/AC	PRE	90	90	5	90	92	85	80	0	82	90	33
4B	PC-671	.00 AD	1.00 QT/AC	PRE											
5A	METRIBUZIN	75.00 DF	.75 LB/AC	PRE	100	100	0	100	100	100	100	0	100	100	44
5B	PC-671	.00 AD	1.00 QT/AC	PRE											
6A	METRIBUZIN	75.00 DF	1.50 LB/AC	PRE	100	100	68	100	100	88	90	35	88	100	29
6B	PC-671	.00 AD	1.00 QT/AC	PRE											
7A	METRIBUZIN	75.00 DF	.50 LB/AC	PRE	90	98	2	90	100	80	90	0	80	98	31
7B	PC-671	.00 AD	2.00 QT/AC	PRE											
8A	METRIBUZIN	75.00 DF	.75 LB/AC	PRE	98	92	22	98	95	92	92	8	92	95	30
8B	PC-671	.00 AD	2.00 QT/AC	PRE											
9A	METRIBUZIN	75.00 DF	1.50 LB/AC	PRE	100	100	65	100	100	92	100	38	92	100	28
9B	PC-671	.00 AD	2.00 QT/AC	PRE											
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	8	100	100	95	95	0	95	100	34
10B	METRIBUZIN	75.00 DF	.50 LB/AC	PRE											
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	100	30	98	100	90	100	10	90	100	34
11B	METRIBUZIN	75.00 DF	.75 LB/AC	PRE											
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	55	100	98	95	95	25	95	98	29
12B	METRIBUZIN	75.00 DF	1.50 LB/AC	PRE											
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	22	100	98	98	95	5	98	98	33
13B	METRIBUZIN	75.00 DF	.50 LB/AC	PRE											
13C	PC-671	.00 AD	1.00 QT/AC	PRE											
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	35	100	100	92	95	15	92	100	28
14B	METRIBUZIN	75.00 DF	.75 LB/AC	PRE											
14C	PC-671	.00 AD	1.00 QT/AC	PRE											
15A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	98	78	100	98	98	98	52	98	98	22
15B	METRIBUZIN	75.00 DF	1.50 LB/AC	PRE											
15C	PC-671	.00 AD	1.00 QT/AC	PRE											
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	98	12	98	100	92	90	2	92	100	33
16B	METRIBUZIN	75.00 DF	.50 LB/AC	PRE											
16C	PC-671	.00 AD	2.00 QT/AC	PRE											

Table 19: Soybean Protectant Study (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6-10-----					-----7-10-----					9-30 YLD.
					GRAS	BRLE	CRIN	LACG	RRPW	GRAS	BRLE	CRIV	LACG	RRPW	
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	22	100	100	98	98	8	98	100	31
17B	METRIBUZIN	75.00 DF	.75 LB/AC	PRE											
17C	PC-671	.00 AD	2.00 QT/AC	PRE											
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	55	100	100	95	100	32	95	100	28
18B	METRIBUZIN	75.00 DF	1.50 LB/AC	PRE											
18C	PC-671	.00 AD	2.00 QT/AC	PRE											
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	98	10	100	98	98	95	0	98	98	33
19B	METRIBUZIN	75.00 DF	.50 LB/AC	PRE											
19C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE											
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	45	100	100	98	92	28	98	100	31
20B	METRIBUZIN	75.00 DF	1.00 LB/AC	PRE											
20C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE											
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	25	100	100	98	98	5	98	100	31
21B	KY 1	50.00 WP	.50 LB/AC	PRE											
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	100	38	95	100	92	98	12	92	100	32
22B	KY 1	50.00 WP	1.00 LB/AC	PRE											
23A	ALACHLOR	4.00 F	2.50 LB/AC	PRE	100	98	22	100	100	100	98	8	100	100	33
23B	KY 2	50.00 WP	.50 LB/AC	PRE											
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	20	100	100	95	98	0	95	98	32
24B	KY 2	50.00 WP	1.00 LB/AC	PRE											
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	95	5	100	100	98	95	0	98	100	34
25B	KY 3	50.00 WP	.50 LB/AC	PRE											
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	22	100	100	100	100	5	100	100	30
26B	KY 3	50.00 WP	1.00 LB/AC	PRE											
27A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	90	10	98	100	92	90	2	92	98	29
27B	KY 4	50.00 WP	.50 LB/AC	PRE											
28A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	32	100	100	100	100	8	100	100	33
28B	KY 4	50.00 WP	1.00 LB/AC	PRE											
29	CHECK (UNCULTIVATED)	.00 CK	.00		0	0	0	0	0	0	0	0	0	0	25
30	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100	0	100	100	35
			LSD(05):		5	7	23	5	4	10	8	20	10	5	8

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Table 19: Soybean Protectant Study (continued)

LOCATION: SPINDLETOP FARM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K SOIL TYPE: LANTON SILTY CLAY LO
DATE PLANTED: MAY 22 P+ 6.5 O.M.: 6.5%
VARIETY: WILLIAMS DATE TREATED: PRE: MAY 22

Table 20: Soybean Postemergence Time of Application

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23-----						-----AUGUST 11-----					
					CRIN	GRAS	BRLE	COLO	VELE	COCB	CRIN	GRAS	BRLE	COLO	VELE	COCB
1	MC 10978	2.00 S	.38 LB/AC	7AM	10	27	80	73	87	83	u	17	83	80	87	83
2	MC 10978	2.00 S	.50 LB/AC	7AM	10	17	93	93	97	100	u	17	93	90	93	100
3	MC 10978	2.00 S	.75 LB/AC	7AM	20	63	97	90	90	100	u	30	90	87	93	100
4	MC 10978	2.00 S	.38 LB/AC	11A	13	17	90	90	80	100	u	10	87	87	83	97
5	MC 10978	2.00 S	.50 LB/AC	11A	13	43	93	83	90	97	u	13	80	80	90	97
6	MC 10978	2.00 S	.75 LB/AC	11A	17	37	97	93	97	100	u	17	87	83	87	100
7	MC 10978	2.00 S	.38 LB/AC	2PM	10	33	87	87	83	97	u	23	80	67	80	97
8	MC 10978	2.00 S	.50 LB/AC	2PM	17	33	93	87	97	100	u	15	87	80	87	100
9	MC 10978	2.00 S	.75 LB/AC	2PM	20	53	97	87	97	97	u	33	87	83	90	97
10	MC 10978	2.00 S	.38 LB/AC	8PM	20	40	97	90	97	100	u	17	83	77	80	97
11	MC 10978	2.00 S	.50 LB/AC	8PM	27	70	97	87	97	100	u	57	87	80	90	100
12	MC 10978	2.00 S	.75 LB/AC	8PM	20	70	100	100	100	100	u	53	93	90	90	100
LSD(05):					NS	31	8	NS	NS	NS	NS	27	NS	NS	NS	NS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.1 O.M.: 3.0%
 DATE PLANTED: MAY 22 DATE TREATED: JUNE 11
 VARIETY: WILLIAMS

Table 21: Soybean Yellow Nutsedge

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22 --		---7-22 --		--8
					YENS	CRIN	YENS	CRIN	YLD
1	ALACHLOR	4.00 E	3.00 LB/AC	PRE	88	0	82	0	44
2	ALACHLOR	4.00 E	4.00 LB/AC	PRE	82	0	78	0	44
3	ALACHLOR	4.00 E	3.00 LB/AC	PPI	68	0	88	0	48
4	ALACHLOR	4.00 E	4.00 LB/AC	PPI	90	0	90	0	51
5	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	100	0	98	0	46
6	METOLACHLOR	8.00 E	3.00 LB/AC	PRE	98	0	92	0	44
7	METOLACHLOR	8.00 E	4.00 LB/AC	PRE	98	0	95	0	36
8	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	95	12	95	0	42
9	METOLACHLOR	8.00 E	3.00 LB/AC	PPI	98	0	95	0	42
10	METOLACHLOR	8.00 E	4.00 LB/AC	PPI	100	15	100	0	35
11	VERNOLATE	7.00 E	2.50 LB/AC	PPI	78	2	68	0	42
12A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	82	0	78	0	41
12B	WITH R-33865	1.00	.42	PPI					
13A	VERNOLATE PKG MIX	6.00 EC	3.00 LB/AC	PPI	78	0	68	0	42
13B	WITH R-33865	1.00	.50	PPI					
14	VERNOLATE	7.00 E	3.00 LB/AC	PPI	82	2	72	0	41
15A	BENTAZON	4.00 E	1.00 LB/AC	EP	68	0	55	0	43
15B	OJL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
16A	BENTAZON	4.00 E	.75 LB/AC	EP	85	2	85	0	46
16B	BENTAZON	4.00 E	.75 LB/AC	140					
17	MBR 22359	2.00 E	1.00 LB/AC	PRE	85	0	78	0	40
18	MBR 22359	2.00 E	1.50 LB/AC	PRE	82	2	80	0	42
19	MBR 22359	2.00 E	2.00 LB/AC	PRE	90	0	85	0	39
20	MBR 22359	2.00 E	3.00 LB/AC	PRE	92	0	88	0	44
21	MBR 22359	2.00 E	4.00 LB/AC	PRE	98	5	95	0	42
22A	MBR 22359	2.00 E	.50 LB/AC	MP	80	28	70	0	43
22B	SURFACTANT (X-77)	.50 WA	.50 %	MP					

Table 21: Soybean Yellow Nutsedge (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---6-22 --		---7-22 --		--8 YLD
					YENS	CRIN	YENS	CRIN	
23A	MBR 22359	2.00 E	1.00 LB/AC	MP	80	30	78	18	44
23B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
24A	MBR 22359	2.00 E	2.00 LB/AC	MP	80	50	72	45	34
24B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
25	MBR 23709	2.00 S	1.00 LB/AC	PRE	78	0	65	0	51
26	MBR 23709	2.00 S	1.50 LB/AC	PRE	82	0	80	0	45
27	MBR 23709	2.00 S	2.00 LB/AC	PRE	88	0	82	0	42
28	MBR 23709	2.00 S	3.00 LB/AC	PRE	95	0	92	0	47
29	MBR 23709	2.00 S	4.00 LB/AC	PRE	90	5	85	0	41
30A	MRR 23709	2.00 S	.50 LB/AC	MP	72	20	70	0	34
30B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
31A	MRR 23709	2.00 S	1.00 LB/AC	MP	75	28	75	5	46
31B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
32A	MRR 23709	2.00 S	2.00 LB/AC	MP	75	25	72	2	43
32B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
33A	MEFLUIDIDE	2.00 S	.06 LB/AC	MP	75	10	72	0	41
33B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
33C	BENTAZON	4.00 E	.38 LB/AC	30A					
33D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	30A					
34A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	70	10	68	0	37
34B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
34C	BENTAZON	4.00 E	.38 LB/AC	30A					
34D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	30A					
35A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	78	0	72	0	43
35B	BENTAZON	4.00 E	.75 LB/AC	MP					
35C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP					
36	RE 28236	4.00 E	2.00 LB/AC	PPT	82	0	75	0	41
37	RE 28236	4.00 E	3.00 LB/AC	PPI	85	2	75	0	37
38	RE 34800	4.00 E	2.00 LB/AC	PPT	68	2	60	0	34
39	RE 34800	4.00 E	3.00 LB/AC	PPI	85	10	72	0	38

Table 21: Soybean Yellow Nutsedge (continued)

TRT No.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22--		---7-22--		--8 YLD
					YEVS	GRIN	YEVS	GRIN	
40	RE 28236	4.00 E	2.00 LB/AC	PRE	82	0	80	0	36
41	RE 28236	4.00 E	3.00 LB/AC	PRE	90	0	85	0	41
42	RE 34800	4.00 E	2.00 LB/AC	PRE	72	0	60	0	37
43	RE 34800	4.00 E	3.00 LB/AC	PRE	72	0	60	0	41
44A	RE 28236	4.00 E	2.00 LB/AC	PPI	85	0	80	0	45
44B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE					
45	S-734	75.00 WP	.75 LB/AC	PPI	88	2	88	0	41
46	S-734	75.00 WP	1.00 LB/AC	PPI	95	2	92	0	43
47	S-734	75.00 WP	1.50 LB/AC	PPI	90	8	88	0	48
48	CHECK (CULTIVATED)	.00 CK	.00		100	0	98	0	52
LSD(05):					12	8	11	4	6

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.4 O.M.: 2.6%
 DATE PLANTED: MAY 5 DATE TREATED: PPI & PRE: MAY 5
 VARIETY: WILLIAMS EP: MAY 29
 MP: JUNE 5
 MP+30A: JUNE 8, EP+14D: JUNE 11, EP = 3LF, MP = 4-SLF.

Table 22: Soybean Black Nightshade Preemergence & Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--6 GRIN	---7-9 BLNS	-- CRU	9-13 BYGR	10-2 YLD
1	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	77	0	87	43
2	ALACHLOR	4.00 E	3.00 LB/AC	PRE	0	93	3	87	40
3	ALACHLOR	4.00 E	4.00 LB/AC	PRE	7	93	0	87	42
4A	LINURON	75.00 DF	1.00 LB/AC	PRE	10	100	3	90	42
4B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
5A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	7	93	3	90	33
5B	LINURON	4.00 L	.75 LB/AC	PRE					
6A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	7	97	3	93	38
6B	LINURON	4.00 L	1.00 LB/AC	PRE					
7A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	17	90	3	77	34
7B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE					
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	10	93	13	80	31
8B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP					
9A	OXYFLUORFEN	2.00 E	.38 LB/AC	PRE	33	97	3	97	37
9B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	40	97	17	97	41
10B	OXYFLUORFEN	2.00 E	.38 LB/AC	PRE					
10C	ACIFLUORFEN	2.00 E	.50 LB/AC	MP					
11A	RH-8817	2.00 E	.50 LB/AC	PRE	37	87	10	83	39
11B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
12A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	30	100	13	90	43
12B	RH-8817	2.00 E	.50 LB/AC	PRE					
12C	ACIFLUORFEN	2.00 E	.50 LB/AC	MP					
13A	BIFENOX	4.00 F	1.50 LB/AC	PRE	13	77	7	80	35
13B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
14A	BIFENOX	4.00 F	2.00 LB/AC	PRE	30	83	7	87	39
14B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
15A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	10	93	13	83	39
15B	MC 10978	2.00 S	.50 LB/AC	MP					
16A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	3	90	13	90	40
16B	MC 10978	2.00 S	.50 LB/AC	MP					
16C	SURFACTANT (X-77)	.50 WA	.50 %	MP					

Table 22: Soybean Black Nightshade Preemergence & Postemergence
(continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEIH	--6 CRIN	---7-9 -- BLNS CRIN	9-13 BYGR	10-2 YLD	
17A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	3	100	10	93	40
17B	METRIBUZIN 2	4.00 L	.38 LB/AC	POD					
17C	2,4-DB	2.00 E	.20 LB/AC	POD					
17D	WK (SURFACTANT)	.00 WA	.25 %	POD					
18A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	7	87	10	83	39
18B	METRIBUZIN 2	4.00 L	.50 LB/AC	POD					
18C	2,4-DB	2.00 E	.20 LB/AC	POD					
18D	WK (SURFACTANT)	.00 WA	.25 %	POD					
19A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	0	90	3	93	39
19B	NANPA/DN	3.00 E	1.50 LB/AC	EP					
20A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	0	93	23	70	36
20B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
20C	ACIFLUORFEN	2.00 E	.25 LB/AC	3DA					
21A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	3	93	27	93	41
21B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
21C	MC 10978	2.00 S	.25 LB/AC	3DA					
21D	SURFACTANT (X-77)	.50 WA	.50 %	3DA					
22A	MEFLUIDIDE	2.00 S	.06 LB/AC	MP	0	80	7	73	40
22B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
22C	BENTAZON	4.00 E	.38 LB/AC	3DA					
22D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	3DA					
23A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	0	80	23	73	39
23B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
23C	BENTAZON	4.00 E	.38 LB/AC	3DA					
23D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	3DA					
24	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	3	93	7	93	42
25	METOLACHLOR	8.00 E	3.00 LB/AC	PRE	0	93	7	87	41
26	METOLACHLOR	8.00 E	4.00 LB/AC	PRE	10	93	3	93	42
27A	LINURON	75.00 DF	1.00 LB/AC	PRE	7	93	3	90	38
27B	METOLACHLOR	8.00 E	2.00 LB/AC	PRE					
28A	METOLACHLOR	8.00 E	3.00 LB/AC	PRE	7	93	3	90	33
28B	LINURON	4.00 L	.75 LB/AC	PRE					
29A	METOLACHLOR	8.00 E	3.00 LB/AC	PRE	13	97	3	97	35
29B	LINURON	4.00 L	1.00 LB/AC	PRE					

Table 22: Soybean Black Nightshade Preemergence & Postemergence
(continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--6 CRIN	---7-9 BLNS	-- CRIN	9-13 BYGR	10-2 YLD
30A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	7	97	10	97	37
30B	LINURON	4.00 L	.50 LB/AC	POD					
31A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	3	93	10	97	42
31B	LINURON	4.00 L	1.00 LB/AC	POD					
32A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	0	97	10	93	38
32B	LINURON	4.00 L	.50 LB/AC	POD					
32C	2,4-DB	2.00 E	.20 LB/AC	POD					
33A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	0	97	7	100	41
33B	LINURON	4.00 L	1.00 LB/AC	POD					
33C	2,4-DB	2.00 E	.20 LB/AC	POD					
34A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	7	93	7	87	39
34B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE					
35A	METOLACHLOR	8.00 E	3.00 LB/AC	PRE	10	93	7	90	42
35B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE					
36A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	0	97	10	90	37
36B	METRIBUZIN 1	4.00 F	.25 LB/AC	POD					
36C	2,4-DB	2.00 E	.20 LB/AC	POD					
36D	SURFACTANT (X-77)	.50 WA	.50 %	POD					
37A	METOLACHLOR	8.00 E	2.00 LB/AC	PRE	10	100	10	97	47
37B	METRIBUZIN 1	4.00 F	.50 LB/AC	POD					
37C	2,4-DB	2.00 E	.20 LB/AC	POD					
37D	SURFACTANT (X-77)	.50 WA	.50 %	POD					
38A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	10	93	7	87	39
38B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP					
39A	CHLORAMBEN	2.00 E	3.00 LB/AC	EP	0	83	13	77	40
39B	SURFACTANT (SURFEL)	.00 AD	1.00 QT/AC	EP					
40A	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE	13	93	10	87	42
40B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP					
41A	CHLORAMBEN	2.00 E	3.00 LB/AC	EP	3	90	0	83	42
41B	NANPA/DN	3.00 E	.25 LB/AC	EP					
42A	CHLORAMBEN	2.00 E	3.00 LB/AC	EP	3	93	7	90	38
42B	ACIFLUORFEN	2.00 E	.25 LB/AC	EP					
43A	BENTAZONE	4.00 E	.75 LB/AC	MP	3	80	17	77	40
43B	ACIFLUORFEN	2.00 E	.13 LB/AC	MP					

Table 22: Soybean Black Nightshade Preemergence & Postemergence
(continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	--6 CRIN	---7-9-- BLNS CRIN	9-13 BYGR	10-2 YLD	
44A	BENTAZON	4.00 E	.75 LB/AC	MP	3	83	10	77	
44B	ACIFLUORFEN	2.00 E	.25 LB/AC	MP				33	
45	BIFENOX	4.00 F	2.00 LB/AC	PRE	30	87	3	80	
46	ETHALFLURALIN	3.00 E	1.50 LB/AC	EP	0	80	7	70	
47A	ETHALFLURALIN	3.00 E	.75 LB/AC	PRE	10	77	3	70	
47B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE				35	
48A	ETHALFLURALIN	3.00 E	.94 LB/AC	PRE	17	63	3	70	
48B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE				36	
49A	ETHALFLURALIN	3.00 E	1.31 LB/AC	PRE	13	60	10	73	
49B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE				27	
50A	ETHALFLURALIN	3.00 E	.94 LB/AC	PRE	17	73	3	73	
50B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE				40	
50C	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE					
51	PPG-844	2.00 E	.20 LB/AC	EP	0	93	7	90	
52	PPG-844	2.00 E	.30 LB/AC	EP	0	90	10	90	
53	CHECK (CULTIVATED)	.00 CK	.00		0	93	5	82	
54	CHECK (CULTIVATED)	.00 CK	.00		*****	NO DATA FOUND	*****		
LSD(05):					11	9	8	13	8

LOCATION: SPINDLETOP FARM SOIL TYPE: MAJRY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.5 O.M.: 4.2%
 DATE PLANTED: MAY 8 DATE TREATED: PRE: MAY 8
 VARIETY: WILLIAMS EP: MAY 29
 MP: JUNE 26
 MP+30A: JUNE 29, POD: JUNE 30, EP 0-", MP = 2-4".

Table 23: Soybean Black Nightshade Preplant Incorporated

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METHOD	--5 CRIN	---7-8 BLWS CRIN	--9-13 BLWS	10-2 YLD.	
1	ALACHLOR	4.00 E	2.50 LB/AC	PPI	7	93	7	87	31
2	ALACHLOR	4.00 E	3.00 LB/AC	PPI	20	93	0	90	34
3	ALACHLOR	4.00 E	4.00 LB/AC	PPI	20	90	7	93	27
4A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	20	97	7	93	34
4B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP					
5	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	20	100	7	87	38
6	METOLACHLOR	8.00 E	3.00 LB/AC	PPI	20	100	3	90	42
7	METOLACHLOR	8.00 E	4.00 LB/AC	PPI	27	97	10	90	40
8A	METOLACHLOR	8.00 E	3.00 LB/AC	PPI	27	100	10	90	34
8B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP					
9A	METOLACHLOR	8.00 E	2.50 LB/AC	PPI	17	100	0	93	35
9B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI					
10A	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI	7	87	17	73	32
10B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP					
11A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	10	87	0	83	37
11B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI					
12A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	13	87	7	57	24
12B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI					
12C	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI					
13	ETHALFLURALIN	3.00 E	1.50 LB/AC	PPI	27	83	10	57	25
14A	ETHALFLURALIN	3.00 E	.75 LB/AC	PPI	17	80	10	63	28
14B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI					
15A	ETHALFLURALIN	3.00 E	.94 LB/AC	PPI	33	87	7	60	31
15B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI					
16A	ETHALFLURALIN	3.00 E	1.31 LB/AC	PPI	33	90	10	80	24
16B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI					
17A	ETHALFLURALIN	3.00 E	.94 LB/AC	PPI	20	83	7	77	22
17B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI					
17C	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI					
18	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	10	90	10	73	26

Table 24: Soybean Depth of Incorporation

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 7-----							
					GRAS	BRLE	CRIN	GIFI	COCB	VELE	IAMG	LIWE
1A	ALACHLOR	4.00 E	2.50 LB/AC	PP1	87	80	0	87	60	83	75	83
1B	BIFENOX	4.00 F	1.50 LB/AC	PP1								
2A	ALACHLOR	4.00 E	2.50 LB/AC	PP1	87	83	0	87	77	87	75	83
2B	BIFENOX	4.00 F	2.00 LB/AC	PP1								
3A	METOLACHLOR	8.00 E	2.50 LB/AC	PP1	90	67	0	90	60	60	65	83
3B	BIFENOX	4.00 F	1.50 LB/AC	PP1								
4A	METOLACHLOR	8.00 E	2.50 LB/AC	PP1	90	70	0	90	57	73	75	75
4B	BIFENOX	4.00 F	2.00 LB/AC	PP1								
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	83	0	90	77	90	80	83
5B	BIFENOX	4.00 F	1.50 LB/AC	PRE								
6A	METOLACHLOR	8.00 E	2.50 LB/AC	PRE	93	87	0	93	77	87	77	87
6B	BIFENOX	4.00 F	1.50 LB/AC	PRE								
7A	BIFENOX	4.00 F	1.50 LB/AC	PPI	80	63	0	80	50	75	67	63
7B	TRIFLURALIN	4.00 E	.75 LB/AC	PPI								
8A	BIFENOX	4.00 F	2.00 LB/AC	PPI	83	67	0	87	70	70	65	63
8B	TRIFLURALIN	4.00 E	.75 LB/AC	PPI								
9	MC 10108	2.00 EC	.50 LB/AC	PP1	73	73	0	73	73	77	67	73
10	MC 10108	2.00 EC	.75 LB/AC	PP1	80	80	0	80	77	77	70	77
11	MC 10108	2.00 EC	.75 LB/AC	PPI	80	77	0	80	70	80	80	83
12	MC 10108	2.00 EC	1.00 LB/AC	PPI	83	87	0	83	77	87	85	83
13A	MC 10108	2.00 EC	.75 LB/AC	PPI	83	80	0	83	73	83	75	77
13B	TRIFLURALIN	4.00 E	.75 LB/AC	PPI								
14A	MC 10108	2.00 EC	1.00 LB/AC	PPI	90	90	0	90	90	90	90	60
14B	TRIFLURALIN	4.00 E	.75 LB/AC	PPI								
15A	ALACHLOR	4.00 E	2.50 LB/AC	PP1	87	60	0	87	60	63	60	60
15B	MC 10108	2.00 EC	.50 LB/AC	PP1								
16A	ALACHLOR	4.00 E	2.50 LB/AC	PP1	87	57	3	87	53	57	55	67
16B	MC 10108	2.00 EC	.75 LB/AC	PP1								
17A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	80	70	0	77	80	80	67	77
17B	METIRIPUZIN 1	4.00 F	.38 LB/AC	PPI								

Table 24: Soybean Depth of Incorporation (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JULY 7-----							
					GRAS	RRLE	CRIN	GIFT	COCB	VELE	IAMG	JIWE
18A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	83	80	0	83	80	93	57	80
18B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI								
LSD(05):					9	15	NS	8	20	16	16	25

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 22
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: .0 O.M.: .0%
 DATE TREATED: PPI & PRE: MAY 22

Table 25: Burley Tobacco Regular Screen

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE PK-----				
					GLFI	48LE	CRIM	PRPM	COLQ
1	PEBULATE	6.00 EW	4.00 LB/AC	PPI	93	77	0	77	70
2	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI	93	83	0	87	87
3	BENEFIN	1.50 E	1.50 LB/AC	PPI	90	83	0	90	93
4	ISUPROPALIN	6.00 E	1.50 LB/AC	PPI	90	87	0	90	87
5	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	90	87	0	87	87
6	PENDIMETHALIN	50.00 DF	1.50 LB/AC	PPI	87	60	0	60	60
7	PENDIMETHALIN	4.00 E	3.00 LB/AC	PPI	100	83	0	97	97
8	PENDIMETHALIN	4.00 E	4.50 LB/AC	PPI	97	93	0	93	93
9	PENDIMETHALIN	4.00 E	1.50 LB/AC	PNT	90	87	0	93	93
10A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	97	93	0	93	90
10B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
11A	NAPROPAMIDE	50.00 WP	1.00 LB/AC	PPI	90	87	0	63	63
11B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
12	BENTA70N	4.00 E	1.00 LB/AC	MP	0	100	0	0	0
13A	BAS 9052	1.53 EC	.25 LB/AC	LBY	93	0	0	0	0
13B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LBY					
14A	BAS 9052	1.53 EC	.50 LB/AC	LBY	97	0	0	0	0
14B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LBY					
15A	BAS 9052	1.53 EC	.25 LB/AC	EP	90	0	0	0	0
15B	OIL CONCENTRATE	.00 AD	1.00 QT/AC						
16A	BAS 9052	1.53 EC	.50 LB/AC	EP	87	0	0	0	0
16B	OIL CONCENTRATE	.00 AD	1.00 QT/AC						
17A	BAS 9052	1.53 EC	.25 LB/AC	EP	37	0	0	0	0
17B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
17C	BAS 9052	1.53 EC	.25 LB/AC	LP					
17D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					
18A	BAS 9052	1.53 EC	.50 LB/AC	EP	90	0	0	0	0
18B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
18C	BAS 9052	1.53 EC	.50 LB/AC	LP					
18D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					

Table 25: Burley Tobacco Regular Screen (continued)

TRT	HERBICIDE	FORMULA	RATE	APPL. METH	-----JUNE 28-----				
					61FI	8PLE	CRIN	PRPN	COLQ
19A	RD 13-8895	3.00 E	.25 LB/AC	EP	83	0	0	0	0
19B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
20A	RD 13-8895	3.00 E	.50 LB/AC	EP	83	0	0	0	0
20B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
21A	RD 13-8895	3.00 E	.25 LB/AC	EP	90	0	0	0	0
21B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
21C	RD 13-8895	3.00 E	.25 LB/AC	LP					
21D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					
22A	RD 13-8895	3.00 E	.50 LB/AC	EP	90	0	0	0	0
22B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
22C	RD 13-8895	3.00 E	.50 LB/AC	LP					
22D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					
23A	CGA-82725	2.10 EC	.25 LB/AC	EP	90	0	0	0	0
23B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
24A	CGA-82725	2.10 EC	.50 LB/AC	EP	90	0	0	0	0
24B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
25A	CGA-82725	2.10 EC	.25 LB/AC	EP	90	0	0	0	0
25B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
25C	CGA-82725	2.10 EC	.25 LB/AC	LP					
25D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					
26A	CGA-82725	2.10 EC	.25 LB/AC	EP	90	0	0	0	0
26B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
26C	CGA-82725	2.10 EC	.50 LB/AC	LP					
26D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					
27A	CGA-82725	2.10 EC	.50 LB/AC	EP	83	0	0	0	0
27B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
27C	CGA-82725	2.10 EC	.50 LB/AC	LP					
27D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP					
28	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100
				LS(95):	7	17	NS	21	21

LOCATION: SPINDLETOP FARM SOIL TYPE: MAOPY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.3 U.M.: 2.9%
 DATE PLANTED: MAY 30 DATE TREATED: PPI & PRI: MAY 30
 VARIETY: KY 14 EP: JUNE 9
 MP: JUNE 18
 LP: JUNE 24, EP = 0-2", MP = 2-4", LP = 4-6".

Table 26: Burley Tobacco Normal Setting

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28-----					
					GIEI	BRLE	CRIN	PRPW	COLO	BLNS
1	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	92	88	0	100	100	82
2	PENDIMETHALIN	4.00 E	3.00 LB/AC	PPI	95	90	0	98	98	90
3	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	88	82	2	98	98	50
4	ISOPROPALIN	6.00 E	3.00 LB/AC	PPI	92	82	0	98	98	72
5	BENEFIN	1.50 E	1.50 LB/AC	PPI	90	80	2	95	95	65
6	BENEFIN	1.50 E	3.00 LB/AC	PPI	92	82	0	100	100	85
7	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI	90	78	0	95	95	32
8	DIPHENAMID	90.00 W	12.00 LB/AC	PPI	92	80	0	95	95	35
9	PEBULATE	6.00 EW	4.00 LB/AC	PPI	98	85	0	98	98	82
10	PEBULATE	6.00 E	8.00 LB/AC	PPI	98	90	0	98	95	85
11A	PEBULATE	6.00 E	4.00 LB/AC	PPI	92	85	0	98	98	62
11B	NAPROPAMIDE	50.00 WP	1.00 LB/AC	PPI						
12A	PEBULATE	6.00 E	8.00 LB/AC	PPI	98	88	0	100	100	58
12B	NAPROPAMIDE	50.00 WP	2.00 LB/AC	PPI						
13	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100
14	CHECK (CULTIVATED)	.00 CK	.00		*****	NO DATA FOUND	*****			
			LSD(05):		5	7	NS	NS	NS	55

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.3 O.M.: 2.9%
 DATE PLANTED: MAY 30 DATE TREATED: PPI: MAY 30
 VARIETY: KY 14

Table 27: Burley Tobacco in Furrow Subsoil

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 29 ----		
					GIFI	BRLE	CRIN
1	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	92	65	0
2	PENDIMETHALIN	4.00 E	3.00 LB/AC	PPI	98	90	0
3	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	88	62	0
4	ISOPROPALIN	6.00 E	3.00 LB/AC	PPI	95	80	0
5	BENEFIN	1.50 E	1.50 LB/AC	PPI	92	75	0
6	BENEFIN	1.50 E	3.00 LB/AC	PPI	95	75	0
7	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI	90	88	0
8	DIPHENAMID	90.00 W	12.00 LB/AC	PPI	98	95	0
9	PEBULATE	6.00 EW	4.00 LB/AC	PPI	92	78	0
10	PEBULATE	6.00 E	8.00 LB/AC	PPI	98	95	0
11A	PEBULATE	6.00 E	4.00 LB/AC	PPI	98	95	0
11B	NAPROPAMIDE	50.00 WP	1.00 LB/AC	PPI			
12A	PEBULATE	6.00 E	8.00 LB/AC	PPI	95	90	0
12B	NAPROPAMIDE	50.00 WP	2.00 LB/AC	PPI			
13	CHECK (CULTIVATED)	.00 CK	.00		100	100	0
14	CHECK (CULTIVATED)	.00 CK	.00		***** NO DATA FOUND *****		

LSD(05): 6 12 NS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.3 O.M.: 2.9%
 DATE PLANTED: MAY 30 DATE TREATED: PPI: MAY 30
 VARIETY: KY 14

Table 28: Dark Aired Tobacco Normal Setting

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28-----					
					GIFI	BRLE	CRIN	PPPM	COLQ	BLVS
1	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	95	85	0	100	100	72
2	PENDIMETHALIN	4.00 E	3.00 LB/AC	PPI	98	90	0	100	100	98
3	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	88	78	2	92	95	25
4	ISOPROPALIN	6.00 E	3.00 LB/AC	PPI	90	82	0	100	100	45
5	BENEFIN	1.50 E	1.50 LB/AC	PPI	90	78	0	100	100	52
6	BENEFIN	1.50 E	3.00 LB/AC	PPI	95	82	5	100	100	55
7	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI	95	80	0	100	100	0
8	DIPHENAMID	90.00 W	12.00 LB/AC	PPI	95	82	0	100	100	72
9	PEBULATE	6.00 EW	4.00 LB/AC	PPI	95	80	5	98	90	28
10	PEBULATE	6.00 E	8.00 LB/AC	PPI	92	80	0	98	98	32
11A	PEBULATE	6.00 E	4.00 LB/AC	PPI	95	78	0	100	100	12
11B	NAPROPAMIDE	50.00 WP	1.00 LB/AC	PPI						
12A	PEBULATE	6.00 E	8.00 LB/AC	PPI	95	88	0	100	100	45
12B	NAPROPAMIDE	50.00 WP	2.00 LB/AC	PPI						
13	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100
14	CHECK (CULTIVATED)	.00 CK	.00		***** NO DATA FOUND *****					

LSD(05): 7 8 4 NS NS 38

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K PH: 6.3 O.M.: 2.7%
 DATE PLANTED: MAY 30 DATE TREATED: PPT: MAY 30
 VARIETY: DARK AIRED

Table 29: Dark Aired Tobacco in Furrow Subsoil

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 29 -----			
					BIET	BRLE	CRUI	BLNS
1	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	90	72	0	55
2	PENDIMETHALIN	4.00 E	3.00 LB/AC	PPI	92	85	0	60
3	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	72	68	0	8
4	ISOPROPALIN	6.00 E	3.00 LB/AC	PPI	88	70	0	25
5	BENEFIN	1.50 E	1.50 LB/AC	PPI	85	70	0	30
6	BENEFIN	1.50 E	3.00 LB/AC	PPI	90	75	0	38
7	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI	88	82	0	0
8	DIPHENAMID	90.00 W	12.00 LB/AC	PPI	99	90	0	35
9	PEBULATE	6.00 EW	4.00 LB/AC	PPI	90	68	0	18
10	PEBULATE	6.00 E	8.00 LB/AC	PPI	98	85	0	15
11A	PEBULATE	6.00 E	4.00 LB/AC	PPI	95	90	0	12
11B	NAPROXAMIDE	50.00 WP	1.00 LB/AC	PPI				
12A	PEBULATE	6.00 E	8.00 LB/AC	PPI	95	92	0	60
12B	NAPROXAMIDE	50.00 WP	2.00 LB/AC	PPI				
13	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100
14	CHECK (CULTIVATED)	.00 CK	.00		***** NO DATA FOUND *****			
LSD(05):					7	9	NS	26

LOCATION: SPINDLETOP FARM SOIL TYPE: MAJRY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 60 P, 60 K P1: 6.3 U.M.: 2.9%
 DATE PLANTED: MAY 30 DATE TREATED: PPI: MAY 30
 VARIETY: DARK AIRED

Table 30: Species Screening Study

SPECIES SCREENING STUDY																								
TRT	CHEMICAL	FORM	RATE	METH	ALFALFA	OATS	SNAP BEANS	SOYBEANS	PEAS	FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	FIGWEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	GRAIN SORGHUM	SHATTERCANE	CORN	
1.	LASSO	4E	3.00 lb/A	PRE	70	75	0	0	85	100	100	90	80	20	100	0	100	100	6	5	65	90	0	
2.	AATREX	4L	3.00 lb/A	PRE	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	100	0	0	0
3.	SENCOR	4F	0.50 lb/A	PRE	100	100	90	0	70	90	100	90	100	100	100	20	100	100	100	80	25	25	25	
4.	TREFLAN	4E	0.75 lb/A	PPI	0	80	15	0	0	90	90	95	60	0	45	65	90	100	30	0	80	90	25	
5.	BASAGRAN + OIL CONCENTRATE	4E AD	1.00 lb/A 1.00 qt	MP MP	30	0	0	0	0	0	0	0	100	100	20	85	90	100	100	100	0	0	0	
6.	BLAZER	2E	0.50 lb/A	MP	60	30	50	0	70	90	90	90	65	90	100	90	100	100	90	90	100	95	30	
7.	R-40244	2E	0.25 lb/A	PRE	90	0	0	0	40	100	100	30	30	40	90	0	100	100	50	0	0	0	0	
8.	R-40244	2E	0.50 lb/A	PRE	100	30	30	10	15	100	100	85	65	15	90	75	100	100	75	50	10	30	10	
9.	R-40244	2E	1.00 lb/A	PRE	100	90	90	80	50	100	100	95	90	30	100	90	100	100	95	20	65	90	30	
10.	R-40244 + R-29148	2E	0.25 lb/A	PRE PRE	15	0	10	0	30	50	80	20	0	35	60	0	100	100	0	0	0	0	0	
11.	R-40244 + R-29148	2E	0.50 lb/A	PRE PRE	60	0	0	0	0	95	100	60	40	10	90	55	100	100	30	0	0	0	0	
12.	R-40244 + R-29148	2E	1.00 lb/A	PRE PRE	90	0	15	0	0	100	100	80	50	0	100	45	100	100	45	50	15	0	0	
13.	SD-96803	2EC	0.50 lb/A	PPI	0	80	20	0	30	85	90	50	30	25	15	0	70	80	20	0	15	15	0	
14.	SD-96803	2EC	1.00 lb/A	PPI	30	85	65	0	40	90	90	80	70	60	20	50	80	45	40	40	40	50	30	
15.	SD-96803	2EC	0.75 lb/A	PRE	0	40	0	0	0	100	100	100	30	20	40	20	100	70	50	20	15	50	20	

Table 30: Species Screening Study (continued)

SPECIES SCREENING STUDY					ALFALFA	OATS	SNAP BEANS	SOYBEANS	PEAS	FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	GRAIN SORGHUM	SHATTERCANE	CORN
TRT	CHEMICAL	FORM	RATE	METH																			
16.	SD-96803	2EC	1.50 lb/A	PRE	80	90	40	10	40	100	100	100	85	40	70	0	90	80	85	30	30	90	0
17.	HOE 661	1.67E	0.75 lb/A	MP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18.	HOE 661	1.67E	1.00 lb/A	MP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19.	HOE 661	1.67E	1.50 lb/A	MP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20.	HOE 661 + AMMONIUM SULFATE	1.67E	0.50 lb/A 2%	MP MP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21.	HOE 661 + AMMONIUM SULFATE	1.67E	0.75 lb/A 2%	MP MP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22.	NC 2915	1.67E	0.50 lb/A	PRE	100	70	100	70	100	100	100	50	100	100	100	0	60	100	100	20	20	0	0
23.	NC 2915	1.67E	1.00 lb/A	PRE	100	100	100	100	100	100	100	20	100	100	100	30	100	100	100	20	0	10	0
24.	NC 2915	1.67E	2.00 lb/A	PRE	100	100	100	100	100	100	100	100	95	100	100	65	80	95	100	95	60	50	70
25.	NC 23909	1.67E	4.00 lb/A	PRE	100	100	100	100	100	100	100	100	100	100	100	80	100	100	100	80	80	65	50
26.	POAST + OIL CONCENTRATE	1.53EC AD	0.40 lb/A 1 qt	MP MP	0	100	55	0	20	100	100	100	0	20	70	40	0	60	0	0	100	100	100
27.	FUSALIDE + X-77	4E AD	0.25 lb/A 0.50%	MP MP	20	100	20	0	0	100	100	100	0	40	65	0	0	0	0	0	100	100	100
28.	RO 13-8895 + OIL CONCENTRATE	3E AD	0.50 lb/A 1.00 qt	MP MP	0	100	20	0	0	100	100	100	0	30	70	30	0	0	0	0	100	100	100
29.	CGA 82725 + OIL CONCENTRATE	2.10EC AD	0.50 lb/A 1.00 qt	MP MP	0	100	0	0	20	100	100	100	0	0	95	0	0	0	20	0	100	100	100

Table 30: Species Screening Study (continued)

SPECIES SCREENING STUDY					ALFALFA	OATS	SNAP BEANS	SOYBEANS	PEAS	FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	GRAIN SORGHUM	SHATTERCANE	CORN
TRT	CHEMICAL	FORM	RATE	METH																			
30.	VISTAR + X-77	2S AD	0.25 lb/A 0.50%	MP MP	0	0	0	0	0	0	0	70	0	0	100	0	10	0	0	0	0	0	0
31.	AATREX	4L	3.00 lb/A	PRE CDA	100	100	100	100	100	100	100	20	100	100	100	100	100	100	100	100	40	0	0
32.	AATREX	4L	1.50 lb/A	PRE CDA	100	100	100	100	100	100	100	20	100	100	100	100	100	100	100	100	0	0	0
33.	METRIBUZIN	75DF	0.50 lb/A	PRE CDA	100	100	100	0	90	100	90	90	100	100	100	20	100	100	100	75	75	65	60
34.	METRIBUZIN	75DF	0.25 lb/A	PRE CDA	0	0	0	0	0	75	85	70	85	85	100	10	100	100	100	20	50	30	30
35.	BASAGRAN + OIL CONCENTRATE	4E AD	1.00 lb/A 1.00 qt	MP CDA MP CDA	40	0	0	0	0	0	0	0	100	100	75	95	100	100	100	100	25	0	10
36.	BASAGRAN + OIL CONCENTRATE	4E AD	0.50 lb/A 0.50 lb/A	MP CDA MP CDA	40	0	0	0	0	0	0	50	50	50	45	25	0	0	0	0	0	0	0
37.	BLAZER	2E	0.50 lb/A	MP CDA	100	70	70	20	55	40	100	50	70	80	100	90	100	100	100	100	100	90	50
38.	BLAZER	2E	0.25 lb/A	MP CDA	80	0	0	0	50	80	90	80	30	50	100	80	100	100	30	90	80	80	50
39.	DYANAP	3E	2.25 lb/A	MP CDA	80	30	30	30	50	0	0	0	80	80	100	60	100	100	30	90	30	30	30
40.	DYANAP	3E	1.25 lb/A	MP CDA	0	0	0	0	0	0	0	0	0	0	100	30	0	100	10	40	10	10	10

Table 31: Corn Grass Preemergence & Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6			-----6-9			-----6-25			-----8-19			---10-13	
					CRIN	GRAS	BRLE	CRIN	GRAS	BRLE	CRIN	GRAS	BRLE	CRIN	YLD	POP		
1	MBR 23709	2.00 S	1.00 LB/AC	PRE	0	0	0	0	62	5	5	55	5	8	129	19		
2	MBR 23709	2.00 S	1.50 LB/AC	PRE	0	0	0	0	65	20	2	65	18	2	129	19		
3	MBR 23709	2.00 S	2.00 LB/AC	PRE	12	0	0	0	75	12	5	78	12	5	131	19		
4	MBR 23709	2.00 S	3.00 LB/AC	PRE	30	0	0	0	82	22	5	82	12	2	115	16		
5	MBR 23709	2.00 S	4.00 LB/AC	PRE	32	0	0	0	92	20	15	88	15	8	120	17		
6A	MBR 23709	2.00 S	.50 LB/AC	EP	0	48	35	2	45	18	2	42	10	8	115	18		
6B	SURFACTANT (X-77)	.50 WA	.50 %	EP														
7A	MBR 23709	2.00 S	1.00 LB/AC	EP	0	48	45	22	60	25	5	58	20	8	120	19		
7B	SURFACTANT (X-77)	.50 WA	.50 %	EP														
8A	MBR 23709	2.00 S	2.00 LB/AC	EP	0	60	45	40	80	35	20	82	20	8	118	18		
8B	SURFACTANT (X-77)	.50 WA	.50 %	EP														
9A	MBR 23709	2.00 S	.50 LB/AC	LP	0	0	0	0	38	20	35	35	10	52	45	16		
9B	SURFACTANT (X-77)	.50 WA	.50 %	LP														
10A	MBR 23709	2.00 S	1.00 LB/AC	LP	0	0	0	0	35	15	45	40	0	70	19	15		
10B	SURFACTANT (X-77)	.50 WA	.50 %	LP														
11A	MBR 23709	2.00 S	2.00 LB/AC	LP	0	0	0	0	38	22	50	50	5	72	11	13		
11B	SURFACTANT (X-77)	.50 WA	.50 %	LP														
12A	M-4127	4.00 E	.33 LB/AC	EP	0	100	100	12	92	98	0	88	90	0	154	19		
12B	ATRAZINE	4.00 L	1.00 LB/AC	EP														
12C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	EP														
13A	M-4127	4.00 E	.50 LB/AC	EP	0	98	100	20	98	98	0	92	92	0	148	20		
13B	ATRAZINE	4.00 L	1.50 LB/AC	EP														
13C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	EP														
14A	M-4127	4.00 E	.75 LB/AC	EP	0	98	100	15	98	98	5	92	88	2	148	19		
14B	ATRAZINE	4.00 L	1.50 LB/AC	EP														
14C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	EP														
15A	M-4127	4.00 E	.33 LB/AC	MP	0	0	0	0	75	95	10	70	90	8	153	18		
15B	ATRAZINE	4.00 L	1.00 LB/AC	MP														
15C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP														
16A	M-4127	4.00 E	.50 LB/AC	MP	0	0	0	0	85	98	2	80	92	0	163	20		
16B	ATRAZINE	4.00 L	1.50 LB/AC	MP														
16C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP														

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Table 38: Corn Johnsongrass Preemergence & Postemergence
(continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--6			-----6-25			-----8-19			---10-13---		
					CRIN	GRAS	BRLE	CRIN	GRAS	BRLE	CRIN	GRAS	BRLE	CRIN	YLD	HDP
17A	M-4127	4.00 E	.75 LB/AC	MP	0	0	0	0	82	72	0	76	90	0	156	20
17B	ATRAZINE	4.00 L	1.50 LB/AC	MP												
17C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP												
18A	ATRAZINE	4.00 L	2.00 LB/AC	EP	0	82	100	0	70	95	0	70	90	0	148	19
18B	SUNSPRAY 11E	.00 AD	4.00 QT/AC	EP												
19A	ATRAZINE	4.00 L	2.00 LB/AC	MP	0	0	0	0	75	95	0	70	90	0	136	19
19B	SUNSPRAY 11E	.00 AD	4.00 QT/AC	MP												
20	CHECK (CULTIVATED)	.00 CK	.00		0	0	0	0	95	95	0	72	72	0	138	18
			LSD(05):		4	6	9	4	17	21	11	21	13	11	24	2

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LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.1 O.M.: 2.8%
 DATE PLANTED: MAY 21 DATE TREATED: PRE: MAY 21
 VARIETY: PIONEER 3369A EP: MAY 29
 MP: JUNE 7
 LP: JUNE 13, EP = 0-2", MP = 2-4", LP = 4-6".

Table 32: Corn Preplant Incorporated & Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27 ---			-----AUGUST 20 -----				----10-13 -		
					GRAS	BRLE	CRIN	GRAS	BRLE	CRIN	PRSI	IAMG	YLD	POP
1A	R-25788	6.70 E	4.00 LB/AC	PPI	100	95	10	100	90	5	92	95	135	19
1B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
1C	PENDIMETHALIN	4.00 E	2.00 LB/AC	POT										
2A	R-25788	6.70 E	4.00 LB/AC	PPI	100	92	8	100	88	0	98	88	146	20
2B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
2C	PENDIMETHALIN	4.00 E	2.00 LB/AC	POS										
3A	R-25788	6.70 E	4.00 LB/AC	PPI	100	98	18	98	92	2	98	92	143	19
3B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
3C	PENDIMETHALIN	4.00 E	2.00 LB/AC	POE										
3D	ATRAZINE	4.00 L	1.50 LB/AC	POE										
4A	R-25788	6.70 E	4.00 LB/AC	PPI	100	98	12	100	95	0	98	95	140	20
4B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
4C	PENDIMETHALIN	4.00 E	2.00 LB/AC	POS										
4D	ATRAZINE	4.00 L	1.50 LB/AC	POS										
5A	R-25788	6.70 E	4.00 LB/AC	PPI	100	100	38	100	92	2	95	92	129	18
5B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
5C	PENDIMETHALIN	4.00 E	2.00 LB/AC	POT										
5D	CYANAZINE	80.00 WP	2.40 LB/AC	POT										
6A	R-25788	6.70 E	4.00 LB/AC	PPI	98	92	28	98	90	8	98	88	123	18
6B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
6C	PENDIMETHALIN	4.00 E	2.00 LB/AC	POS										
6D	CYANAZINE	80.00 WP	2.40 LB/AC	POS										
7A	R-25788	6.70 E	4.00 LB/AC	PPI	100	92	2	100	78	0	70	85	143	20
7B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
7C	TRIFLUPALIN	4.00 E	.75 LB/AC	POP										
8	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	20	60	0	55	62	137	18
LSD(05):					NS	NS	10	7	7	NS	9	14	14	NS

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LOCATION: SOUTH FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 21
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.0 O.M.: 2.7%
 DATE TREATED: PPI: MAY 21
 POS & POT: JUNE 9
 POE & POP: JUNE 9

Table 33: Corn Preplant Incorporated & Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23-----									---10-13---	
					GRAS	BRLE	CRIN	GIFI	RRPW	PRSI	PESW	IAMG	PURS	YLD	POP
1	SC 7829	25.00 WP	2.00 LB/AC	PPI	88	72	0	88	88	85	62	48	58	120	15
2	SC 7829	25.00 WP	3.00 LB/AC	PPI	90	70	0	90	90	78	50	52	60	127	17
3	SC 7829	25.00 WP	4.00 LB/AC	PPI	90	78	0	90	90	75	75	60	78	101	16
4	SC 8149	3.00 EC	2.00 LB/AC	PPI	78	60	0	80	80	72	52	40	42	136	30
5	SC 8149	3.00 EC	3.00 LB/AC	PPI	85	80	0	90	88	88	70	60	65	126	16
6	SC 8149	3.00 EC	4.00 LB/AC	PPI	89	78	0	88	88	88	72	48	65	125	16
7	SC 7829	25.00 WP	2.00 LB/AC	PES	22	28	0	22	38	38	15	15	22	102	16
8	SC 7829	25.00 WP	3.00 LB/AC	PES	32	22	0	35	25	25	20	18	25	114	17
9	SC 7829	25.00 WP	4.00 LB/AC	PES	48	28	0	50	38	28	32	22	28	116	17
10	SC 8149	3.00 EC	2.00 LB/AC	PES	28	25	0	32	38	28	20	20	20	102	16
11	SC 8149	3.00 EC	3.00 LB/AC	PES	30	25	0	35	28	30	20	8	25	103	16
12	SC 8149	3.00 EC	4.00 LB/AC	PES	40	35	0	45	35	42	40	22	25	114	16
13	R-25788	6.70 E	4.00 LB/AC	PPI	92	62	0	92	90	72	42	50	48	136	17
14	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	92	55	0	92	85	72	35	42	28	134	17
15	ALACHLOR	4.00 E	2.50 LB/AC	PPI	90	75	0	90	90	68	82	38	60	134	17
16	CHECK (CULTIVATED)	.00 CK	.00		60	80	0	72	88	78	82	75	85	142	16
LSD(05):					9	12	NS	8	16	16	22	22	24	NS	NS

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LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.1 O.M.: 2.8%
 DATE PLANTED: MAY 21 DATE TREATED: PPI & PRE: MAY 21
 VARIETY: PIONEER 3369A

Table 34: Soybean Grass Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2-----			-----AUG 20-----			11-4 YLD
					GIFI	BRLE	CRIN	GIFI	BRLE	CRIN	
1A	LINURON	4.00 L	.75 LB/AC	PRE	100	85	2	98	85	0	22
1B	DDACD 453	2.00 E	.03 LB/AC	MP							
1C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP							
2A	LINURON	4.00 L	.75 LB/AC	PRE	100	88	0	98	80	0	25
2B	DDACD 453	2.00 E	.06 LB/AC	MP							
2C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP							
3A	LINURON	4.00 L	.75 LB/AC	PRE	100	82	2	95	70	0	21
3B	DDACD 453	2.00 E	.13 LB/AC	MP							
3C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP							
4A	LINURON	4.00 L	.75 LB/AC	PRE	100	92	0	100	92	0	26
4B	DDACD 453	2.00 E	.25 LB/AC	MP							
4C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	MP							
5A	LINURON	4.00 L	.75 LB/AC	PRE	72	75	0	70	72	0	21
5B	DDACD 453	2.00 E	.06 LB/AC	LP							
5C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	LP							
6A	LINURON	4.00 L	.75 LB/AC	PRE	100	82	5	95	85	0	22
6B	DDACD 453	2.00 E	.13 LB/AC	LP							
6C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	LP							
7A	LINURON	4.00 L	.75 LB/AC	PRE	100	88	2	100	72	0	19
7B	DDACD 453	2.00 F	.25 LB/AC	LP							
7C	SUNSPRAY 11E	.00 AD	1.00 QT/AC	LP							
8A	LINURON	4.00 L	.75 LB/AC	PRE	100	80	0	100	88	0	22
8B	CGA-82725	2.10 EC	.25 LB/AC	LP							
8C	CROP OIL	.00 AD	1.00 QT/AC	LP							
9A	LINURON	4.00 L	.75 LB/AC	PRE	98	68	2	100	68	0	22
9B	CGA-82725	2.10 EC	.38 LB/AC	LP							
9C	CROP OIL	.00 AD	1.00 QT/AC	LP							
10A	LINURON	4.00 L	.75 LB/AC	PRE	100	72	0	98	65	0	24
10B	CGA-82725	2.10 EC	.50 LB/AC	LP							
10C	CROP OIL	.00 AD	1.00 QT/AC	LP							
11A	CGA-82725	2.10 EC	.25 LB/AC	LP	90	68	8	100	82	0	26
11B	RENTAZON	4.00 F	.75 LB/AC	LP							
11C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP							
12A	CGA-82725	2.10 EC	.50 LB/AC	LP	98	48	15	100	90	0	25
12B	RENTAZON	4.00 F	.75 LB/AC	LP							
12C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP							

Table 34: Soybean Grass Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2-----			-----AUG 20-----			11-4 YLD
					GIFI	BRLE	CRIN	GIFI	BRLE	CRIN	
13A	RAS 9052	1.53 EC	.10 LB/AC	MP	62	32	5	38	70	0	16
13B	BENTAZON	4.00 F	.75 LB/AC	MP							
13C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
14A	RAS 9052	1.53 EC	.30 LB/AC	MP	70	60	2	72	85	0	21
14B	BENTAZON	4.00 F	.75 LB/AC	MP							
14C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
15A	LINURON	4.00 L	.75 LB/AC	PRE	100	82	0	98	80	0	24
15B	RD 13-8895	3.00 E	.25 LB/AC	MP							
15C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
16A	LINURON	4.00 L	.75 LB/AC	PRE	100	92	10	100	88	0	25
16B	RD 13-8895	3.00 E	.50 LB/AC	MP							
16C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							
17A	LINURON	4.00 L	.75 LB/AC	PRE	75	92	5	65	85	0	24
17B	DICLOFOP METHYL	3.00 E	1.00 LB/AC	EP							
18A	LINURON	4.00 L	.75 LB/AC	PRE	98	95	10	98	82	0	19
18B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP							
18C	CROP OIL	.00 AD	1.00 QT/AC	MP							
19A	FLUAZIFOP BUTYL	4.00 F	.13 LB/AC	MP	55	2	0	52	5	0	12
19B	SURFACTANT (X-77)	.50 WA	.10 %	MP							
20A	FLUAZIFOP BUTYL	4.00 F	.25 LB/AC	MP	98	28	0	95	25	0	18
20B	SURFACTANT (X-77)	.50 WA	.10 %	MP							
21A	FLUAZIFOP BUTYL	4.00 F	.50 LB/AC	MP	98	22	0	95	18	0	20
21B	SURFACTANT (X-77)	.50 WA	.10 %	MP							
22	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	45	80	0	20
LSD(05):					14	24	8	16	30	NS	NS

LOCATION: SOUTH FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 22
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.1 O.M.: 2.8%
 DATE TREATED: PRE: MAY 22
 EP: MAY 29
 MP: JUNE 7

DOWNCO MP: JUNE 9, LP: JUNE 13, EP = 0-2", MP = 2-4", LP = 4-6".

Table 35: Soybean Postemergence Broadleaf

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9-----			-----JULY 2-----				-----AUGUST 13-----			
					COCB	VELE	CRIN	COCB	VELE	BRLE	CRIN	COCB	VELE	BRLE	CRIN
1	BENAZOLIN	28.00 WP	.25 LB/AC	EP	70	65	18	72	60	62	0	65	45	42	0
2	BENAZOLIN	28.00 WP	.38 LB/AC	EP	70	65	20	78	58	62	2	55	38	42	0
3	BENAZOLIN	28.00 WP	.50 LB/AC	EP	70	68	22	78	65	70	5	70	58	55	0
4	BENTAZON	4.00 E	.75 LB/AC	EP	92	92	8	90	92	90	0	80	82	80	0
5	BENAZOLIN	28.00 WP	.25 LB/AC	MP	0	0	0	40	32	40	0	52	35	40	0
6	BENAZOLIN	28.00 WP	.38 LB/AC	MP	0	0	0	68	52	58	0	75	52	48	0
7	BENAZOLIN	28.00 WP	.75 LB/AC	MP	0	0	0	85	80	78	2	88	80	78	0
8	BENTAZON	4.00 E	1.00 LB/AC	MP	0	0	0	98	100	95	0	95	92	88	0
9	ACIFLUORFEN	2.00 E	.50 LB/AC	MP	0	0	0	95	92	92	5	88	82	82	0
10A	BENAZOLIN	28.00 WP	.25 LB/AC	MP	0	0	0	55	50	50	2	50	40	38	0
10B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP											
11A	BENAZOLIN	28.00 WP	.38 LB/AC	MP	0	0	0	62	50	52	0	65	40	40	0
11B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP											
12A	BENAZOLIN	28.00 WP	.50 LB/AC	MP	0	0	0	68	68	55	2	68	58	52	0
12B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP											
13A	BENAZOLIN	28.00 WP	.25 LB/AC	MP	0	0	0	42	42	40	2	42	28	30	0
13B	SURFACTANT (X-77)	.50 WA	.25 %	MP											
14A	BENAZOLIN	28.00 WP	.38 LB/AC	MP	0	0	0	65	60	62	2	68	52	55	0
14B	SURFACTANT (X-77)	.50 WA	.25 %	MP											
15A	BENAZOLIN	28.00 WP	.50 LB/AC	MP	0	0	0	70	65	60	0	75	62	60	0
15B	SURFACTANT (X-77)	.50 WA	.25 %	MP											
16A	BENTAZON	4.00 E	.50 LB/AC	MP	0	0	0	95	95	95	0	90	90	88	0
16B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP											
17A	BENTAZON	4.00 E	.50 LB/AC	MP	0	0	0	95	92	90	0	90	90	85	0
17B	SURFACTANT (X-77)	.50 WA	.25 %	MP											
18A	ACTIFLUORFEN	2.00 E	.25 LB/AC	MP	0	0	0	90	85	90	2	85	75	80	0
18B	SURFACTANT (X-77)	.50 WA	.25 %	MP											
19A	BENTAZON	4.00 F	.50 LB/AC	MP	0	0	0	92	98	92	0	90	90	88	0
19B	ARD 1675	.00 WA	.10 %	MP											
19C	SURFACTANT (X-77)	.50 WA	.25 %	MP											

Table 35: Soybean Postemergence Broadleaf (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 -----			-----JULY 2 -----				-----AUGUST 13 -----			
					COCB	VELE	CRIN	COCB	VELE	BRLE	CRIN	COCB	VELE	BRLE	CRIN
20A	ACIFLUORFEN	2.00 E	.25 LB/AC	MP	0	0	0	92	90	90	2	88	72	80	0
20B	ARD 1675	.00 WA	.10 %	MP											
20C	SURFACTANT (X-77)	.50 WA	.25 %	MP											
21A	BENTAZON	4.00 E	.50 LB/AC	MP	0	0	0	95	95	92	0	88	90	85	0
21B	ARD 1635	.00 AD	.10 QT/AC	MP											
21C	SURFACTANT (X-77)	.50 WA	.25 %	MP											
22A	ACIFLUORFEN	2.00 E	.25 LB/AC	MP	0	0	0	92	92	90	0	88	88	88	0
22B	ARD 1635	.00 AD	.10 QT/AC	MP											
22C	SURFACTANT (X-77)	.50 WA	.25 %	MP											
				LSD(05):	5	5	3	14	16	14	NS	16	17	15	NS

LOCATION: SOUTH FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 21
 VARIETY: WILLIAMS
 EP = 0-2", MP = 2-4".

SOIL TYPE: MAURY SILT LOAM
 PH: 6.1 O.M.: 2.8%
 DATE TREATED: EP: JUNE 2
 MP: JUNE 9

Table 36: Soybean Preplant Incorporated & Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6		-----6/27				-----8/13				
					CRIN	CRIN	GRAS	BRLE	PESW	RRPW	CRIN	GRAS	BRLE	PESW	RRPW
1	SC 7829	25.00 WP	2.00 LB/AC	PPI	15	20	100	25	25	52	0	95	18	8	50
2	SC 7829	25.00 WP	3.00 LB/AC	PPI	15	20	100	50	55	75	0	95	22	32	58
3	SC 7829	25.00 WP	4.00 LB/AC	PPI	18	25	100	72	75	88	0	95	55	58	80
4	SC 8149	3.00 EC	2.00 LB/AC	PPI	15	18	95	22	38	65	0	92	20	8	50
5	SC 8149	3.00 EC	3.00 LB/AC	PPI	18	18	100	55	62	78	0	95	40	42	68
6	SC 8149	3.00 EC	4.00 LB/AC	PPI	22	30	100	65	55	88	0	92	45	50	62
7	SC 8149	3.00 EC	2.00 LB/AC	PES	0	0	30	2	0	10	0	42	5	2	12
8	SC 8149	3.00 EC	3.00 LB/AC	PES	2	2	42	2	0	2	2	78	5	0	5
9	SC 8149	3.00 EC	4.00 LB/AC	PES	0	0	68	5	5	8	0	62	12	8	10
10	SC 7829	25.00 WP	2.00 LB/AC	PES	0	0	32	2	0	22	0	58	2	0	32
11	SC 7829	25.00 WP	3.00 LB/AC	PES	0	0	52	2	2	2	0	55	8	2	18
12	SC 7829	25.00 WP	4.00 LB/AC	PES	0	2	52	0	0	0	0	58	8	5	5
13	VERNOLATE	7.00 E	3.00 LB/AC	PPI	18	18	98	35	18	82	0	92	20	22	65
14	ALACHLOR	4.00 E	3.00 LB/AC	PPI	5	2	95	52	52	65	0	100	40	35	38
15	ALACHLOR	4.00 E	3.00 LB/AC	PES	0	5	100	22	10	48	0	98	8	0	18
16	CHECK (CULTIVATED)	.00 CK	.00		0	0	100	100	100	100	0	88	60	65	72
				LSD(05):	11	9	22	17	26	25	NS	25	24	27	29

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LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: .0 U.M.: .0%
 DATE PLANTED: MAY 21 DATE TREATED: PPI & PES: MAY 21
 VARIETY: WILLIAMS

Table 37: Corn Preplant Incorporated & Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 3 ----			--JULY 6 --	
					GIFI	RRPW	CRIN	GIFI	RRPW
1	SC 7829	25.00 WP	2.00 LB/AC	PPI	90	82	0	52	25
2	SC 7829	25.00 WP	3.00 LB/AC	PPI	85	78	0	45	70
3	SC 7829	25.00 WP	4.00 LB/AC	PPI	95	85	0	65	72
4	SC 8149	3.00 EC	2.00 LB/AC	PPI	82	80	0	45	100
5	SC 8149	3.00 EC	3.00 LB/AC	PPI	92	85	0	55	95
6	SC 8149	3.00 EC	4.00 LB/AC	PPI	85	75	0	55	72
7	SC 7829	25.00 WP	2.00 LB/AC	PES	20	42	0	25	42
8	SC 7829	25.00 WP	3.00 LB/AC	PES	35	45	0	22	22
9	SC 7829	25.00 WP	4.00 LB/AC	PES	50	50	0	38	70
10	SC 8149	3.00 EC	2.00 LB/AC	PES	60	68	0	25	22
11	SC 8149	3.00 EC	3.00 LB/AC	PES	38	42	0	20	45
12	SC 8149	3.00 EC	4.00 LB/AC	PES	68	55	0	48	95
13	R-25788	6.70 E	4.00 LB/AC	PPI	98	98	0	100	98
14	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	98	0	72	98
15	ALACHLOR	4.00 E	2.50 LB/AC	PPI	98	90	0	100	98
16	CHECK (CULTIVATED)	.00 CK	.00		100	100	100	100	100
LSD(05):					38	39	NS	52	49

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 148 N, 48 P, 48 K PH: 6.7 O.M.: 1.9%
 DATE PLANTED: MAY 4 DATE TREATED: PPI & PRE: MAY 4
 VARIETY: PIONEER 3369A

Table 38: Corn Johnsongrass Preemergence & Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	----6/3 --		----6/19 --		----7/4 --		----7/16 --	
					JOGR	CRIN	JOGR	CRIN	JOGR	CRIN	JOGR	CRIN
1	MBR 23713	50.00 WP	1.50 LB/AC	PRE	90	0	88	0	85	0	82	5
2	MBR 23713	50.00 WP	3.00 LB/AC	PRE	85	2	92	0	85	0	85	0
3A	MBR 23713	50.00 WP	1.00 LB/AC	EP	35	5	88	5	82	0	82	0
3B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
4A	MBR 23713	50.00 WP	2.00 LB/AC	EP	52	12	90	15	85	5	90	0
4B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
5A	MBR 23713	50.00 WP	1.00 LB/AC	LP	0	0	28	18	78	50	80	40
5B	SURFACTANT (X-77)	.50 WA	.50 %	LP								
6A	MBR 23713	50.00 WP	2.00 LB/AC	LP	0	0	45	50	90	80	82	78
6B	SURFACTANT (X-77)	.50 WA	.50 %	LP								
7	MBR 23709	2.00 S	1.50 LB/AC	PRE	75	0	68	0	60	0	70	0
8	MBR 23709	2.00 S	3.00 LB/AC	PRE	80	0	88	0	82	0	85	0
9	MBR 23709	2.00 S	4.00 LB/AC	PRE	92	5	95	0	90	0	90	0
10A	MBR 23709	2.00 S	.50 LB/AC	EP	15	5	62	0	65	0	70	0
10B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
11A	MBR 23709	2.00 S	1.00 LB/AC	EP	38	18	82	8	70	5	78	0
11B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
12A	MBR 23709	2.00 S	2.00 LB/AC	EP	40	35	90	22	88	8	88	0
12B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
13A	MBR 23709	2.00 S	.50 LB/AC	LP	0	0	15	10	55	38	60	18
13B	SURFACTANT (X-77)	.50 WA	.50 %	LP								
14A	MBR 23709	2.00 S	1.00 LB/AC	LP	0	0	35	30	82	42	75	38
14B	SURFACTANT (X-77)	.50 WA	.50 %	LP								
15A	MBR 23709	2.00 S	2.00 LB/AC	LP	0	0	35	38	85	58	88	70
15B	SURFACTANT (X-77)	.50 WA	.50 %	LP								
16A	MBR 23709	2.00 S	.50 LB/AC	POD	0	0	42	2	62	0	60	0
16B	SURFACTANT (X-77)	.50 WA	.50 %	POD								
17A	MBR 23709	2.00 S	1.00 LB/AC	POD	0	0	32	0	70	0	70	2
17B	SURFACTANT (X-77)	.50 WA	.50 %	POD								
18A	MBR 23709	2.00 S	2.00 LB/AC	POD	0	0	52	0	88	5	88	2
18B	SURFACTANT (X-77)	.50 WA	.50 %	POD								

TABLE 38: Corn Johnsongrass Preemergence & Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	----6/3 --		---6/19 --		----7/4 --		---7/16 --	
					JOGR	CRIN	JOGR	CRIN	JOGR	CRIN	JOGR	CRIN
19	CME 12750	5.59 SC	2.40 LB/AC	PRE	15	0	25	0	25	0	12	0
20	CME 12750	5.59 SC	3.00 LB/AC	PRE	0	0	0	0	0	0	0	0
21	CME 12750	5.59 SC	4.80 LB/AC	PRE	38	0	40	2	38	0	38	0
22	R-25788	6.70 E	6.00 LB/AC	PPI	60	0	50	0	40	0	62	0
23	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	40	0	28	0	38	0	38	0
24	CHECK (UNCULTIVATED)	.00 CK	.00		0	0	0	0	0	0	0	0
LSO(05):					33	6	33	13	27	7	25	8

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 148 N, 48 P, 48 K SOIL TYPE: CRIDER SILT LOAM
 DATE PLANTED: MAY 4 DATE TREATED: PPI: MAY 4 PH: 6.5 O.M.: 1.6%
 VARIETY: PIONEER 3369A PRE: MAY 5
 EP: MAY 28
 LP & POD: JUNE 11, EP = 2-3", LP = 5-6".

Table 39: Soybean Preplant Incorporated & Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH	-----JUNE 30 ----			YLD
					GIEI	COCB	PESW	
1	SC 7829	25.00 WP	2.00 LB/AC	PPI	100	30	75	37
2	SC 7829	25.00 WP	3.00 LB/AC	PPI	100	96	78	48
3	SC 7829	25.00 WP	4.00 LB/AC	PPI	100	70	95	42
4	SC 8149	3.00 EC	2.00 LB/AC	PPI	88	90	85	40
5	SC 8149	3.00 EC	3.00 LB/AC	PPI	75	90	78	44
6	SC 8149	3.00 EC	4.00 LB/AC	PPI	75	50	75	31
7	SC 8149	3.00 EC	2.00 LB/AC	PES	100	55	92	36
8	SC 8149	3.00 EC	3.00 LB/AC	PES	100	45	45	37
9	SC 8149	3.00 EC	4.00 LB/AC	PES	75	45	42	35
10	SC 7829	25.00 WP	2.00 LB/AC	PES	98	20	70	35
11	SC 7829	25.00 WP	3.00 LB/AC	PES	100	48	68	40
12	SC 7829	25.00 WP	4.00 LB/AC	PES	75	68	70	37
13	VERBOLATE	7.00 E	3.00 LB/AC	PPI	50	22	22	42
14	ALACHLOR	4.00 E	3.00 LB/AC	PPI	75	18	50	37
15	ALACHLOR	4.00 E	3.00 LB/AC	PES	100	55	100	43
16	CHECK (CULTIVATED)	.00 CK	.00		100	100	100	46

LSD(05): NS 54 NS

LOCATION: PRINCETON SOIL TYPE: CRIDER SILT LOAM
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K PH: 6.7 U.M.: 1.9%
 DATE PLANTED: MAY 23 DATE TREATED: PPI & PRE: MAY 23
 VARIETY: WILLIAMS

Table 40: Soybean Response to Postemergence Herbicides

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>8-23</u> <u>CRIN</u>	<u>10-2</u> <u>YLD</u>
1A	BENTAZON	4.00 E	1.00 LB/AC	VC	8	42
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	VC		
2A	BENTAZON	4.00 E	1.00 LB/AC	V2	10	39
2B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	V2		
3A	BENTAZON	4.00 E	1.00 LB/AC	V5	5	41
3B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	V5		
4A	BENTAZON	4.00 E	1.00 LB/AC	R1	0	39
4B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	R1		
5A	BENTAZON	4.00 E	1.00 LB/AC	R2	3	41
5B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	R2		
6A	BENTAZON	4.00 E	1.00 LB/AC	R3	0	36
6B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	R3		
7	ACIFLUORFEN	2.00 LCS	.50 LB/AC	VC	5	40
8	ACIFLUORFEN	2.00 LCS	.50 LB/AC	V2	0	34
9	ACIFLUORFEN	2.00 LCS	.50 LB/AC	V5	2	40
10	ACIFLUORFEN	2.00 LCS	.50 LB/AC	R1	0	39
11	ACIFLUORFEN	2.00 LCS	.50 LB/AC	R2	13	35
12	ACIFLUORFEN	2.00 LCS	.50 LB/AC	R3	10	37
13	NANPA/DN	3.00 E	3.00 LB/AC	VC	30	31
14	NANPA/DN	3.00 E	3.00 LB/AC	V2	25	34
15	NANPA/DN	3.00 E	3.00 LB/AC	V5	12	38
16	NANPA/DN	3.00 E	3.00 LB/AC	R1	8	33
17	NANPA/DN	3.00 E	3.00 LB/AC	R2	5	40
18	NANPA/DN	3.00 E	3.00 LB/AC	R3	8	38
19	DINOSEB	3.00 E	.75 LB/AC	VC	18	35
20	DINOSEB	3.00 E	.75 LB/AC	V2	25	36
21	DINOSEB	3.00 E	.75 LB/AC	V5	0	39

Table 40: Soybean Response to Postemergence Herbicides (continued)

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METHOD</u>	<u>8-23</u> <u>CRLY</u>	<u>10-2</u> <u>YLD</u>
22	DINoseb	3.00 E	.75 LB/AC	R1	0	40
23	DINoseb	3.00 E	.75 LB/AC	R2	5	36
24	DINoseb	3.00 E	.75 LB/AC	R3	10	35
25A	BENTAZON	4.00 E	1.00 LB/AC	VC	9	39
25B	2,4-DB	2.00 E	.06 LB/AC	VC		
26A	BENTAZON	4.00 E	1.00 LB/AC	V2	10	38
26B	2,4-DB	2.00 E	.06 LB/AC	V2		
27A	BENTAZON	4.00 E	1.00 LB/AC	V5	10	43
27B	2,4-DB	2.00 E	.06 LB/AC	V5		
28A	BENTAZON	4.00 E	1.00 LB/AC	P1	9	38
28B	2,4-DB	2.00 E	.06 LB/AC	P1		
29A	BENTAZON	4.00 E	1.00 LB/AC	R2	0	42
29B	2,4-DB	2.00 E	.06 LB/AC	R2		
30A	BENTAZON	4.00 E	1.00 LB/AC	R3	0	39
30B	2,4-DB	2.00 E	.06 LB/AC	R3		
31A	ACIFLUORFEN	2.00 LCS	.50 LB/AC	VC	22	35
31B	2,4-DB	2.00 E	.06 LB/AC	VC		
32A	ACIFLUORFEN	2.00 LCS	.50 LB/AC	V2	12	38
32B	2,4-DB	2.00 E	.06 LB/AC	V2		
33A	ACIFLUORFEN	2.00 LCS	.50 LB/AC	V5	3	36
33B	2,4-DB	2.00 E	.06 LB/AC	V5		
34A	ACIFLUORFEN	2.00 LCS	.50 LB/AC	R1	12	37
34B	2,4-DB	2.00 E	.06 LB/AC	R1		
35A	ACIFLUORFEN	2.00 LCS	.50 LB/AC	R2	12	42
35B	2,4-DB	2.00 E	.06 LB/AC	R2		
36A	ACIFLUORFEN	2.00 LCS	.50 LB/AC	R3	10	39
36B	2,4-DB	2.00 E	.06 LB/AC	R3		
37A	NAAPAZON	3.00 E	3.00 LB/AC	VC	35	28
37B	2,4-DB	2.00 E	.06 LB/AC	VC		
38A	NAAPAZON	3.00 E	3.00 LB/AC	V2	22	38
38B	2,4-DB	2.00 E	.06 LB/AC	V2		

Table 40: Soybean Response to Postemergence Herbicides (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	8-23 PRIN	10-2 YLD
39A	NANPA/DN	3.00 E	3.00 LB/AC	V5	8	38
39B	2,4-DB	2.00 E	.06 LB/AC	V5		
40A	NANPA/DN	3.00 E	3.00 LB/AC	R1	2	39
40B	2,4-DB	2.00 E	.06 LB/AC	R1		
41A	NANPA/DN	3.00 E	3.00 LB/AC	R2	12	36
41B	2,4-DB	2.00 E	.06 LB/AC	R2		
42A	NANPA/DN	3.00 E	3.00 LB/AC	R3	8	32
42B	2,4-DB	2.00 E	.06 LB/AC	R3		
43	CHECK (CULTIVATED)	.00 CK	.00		5	41
44	CHECK (CULTIVATED)	.00 CK	.00		*****	NO DATA FOUND *****

LSD(05): 11 6

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K
 DATE PLANTED: JUNE 18
 VARIETY: WILLIAMS
 SOIL TYPE: CRIDER SILT LOAM
 PH: 6.7 O.M.: 1.6%
 DATE TREATED: VC: JUNE 25
 V2: JULY 11
 V5: JULY 21
 R1: JULY 31

Table 41: Soybean Johnsongrass Control

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---7-17 --		----8-3 --		---8-23 --		--9	10-2
					JOGR	CRIN	JOGR	CRIN	JOGR	CRIN		
1	ALACHLOR	4.00 E	3.00 LB/AC	PPI	90	7	70	0	60	0	57	29
2	ALACHLOR	4.00 E	4.00 LB/AC	PPI	93	3	73	0	73	0	60	38
3	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	90	3	63	0	40	0	23	30
4	VERNOLATE	7.00 E	2.50 LB/AC	PPI	87	20	80	0	50	0	30	28
5A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	90	17	77	0	37	0	17	28
5B	WITH R-33865	1.00	.42	PPI								
6	VERNOLATE	7.00 E	4.00 LB/AC	PPI	97	30	70	3	67	0	27	32
7A	VERNOLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	93	20	87	0	77	0	90	32
7B	WITH R-33865	1.00	.67	PPI								
8	METOLACHLOR	8.00 E	3.00 LB/AC	PPI	87	10	67	0	57	0	53	28
9	METOLACHLOR	8.00 E	4.00 LB/AC	PPI	93	23	70	0	77	0	73	30
10	PENDIMETHALIN	4.00 E	2.00 LB/AC	PPI	93	10	73	0	57	0	37	37
11	S-734	75.00 WP	1.50 LB/AC	PPI	93	7	80	0	83	3	57	29
12A	FLUCHLORALIN	4.00 E	.75 LB/AC	PPI	93	3	90	0	100	0	100	30
12B	BAS 9052	1.53 EC	.30 LB/AC	MP								
12C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
13A	FLUCHLORALIN	4.00 E	.75 LB/AC	PPI	87	3	90	0	100	0	100	32
13B	BAS 9052	1.53 EC	.40 LB/AC	MP								
13C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
14A	FLUCHLORALIN	4.00 E	1.50 LB/AC	PPI	90	3	93	0	100	0	100	32
14B	BAS 9052	1.53 EC	.30 LB/AC	MP								
14C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
15A	FLUCHLORALIN	4.00 E	1.50 LB/AC	PPI	100	7	97	7	100	0	100	28
15B	BAS 9052	1.53 EC	.40 LB/AC	MP								
15C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
16	MBR 23709	2.00 S	1.50 LB/AC	PRE	87	7	73	0	40	0	47	25
17	MBR 23709	2.00 S	2.00 LB/AC	PRE	93	0	87	0	73	0	67	25
18	MBR 23709	2.00 S	3.00 LB/AC	PRE	97	3	80	0	87	0	70	32
19	MBR 23709	2.00 S	4.00 LB/AC	PRE	97	3	87	0	90	0	83	35

Table 41: Soybean Johnsongrass Control (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---7-17--		---8-3--		---8-23--		---9 YIELD	10-2 YIELD
					JOGR	CRIN	JOGR	CRIN	JOGR	CRIN		
20A	MBR 23709	2.00 S	1.00 LB/AC	EP	0	0	87	3	83	0	80	35
20B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
21A	MBR 23709	2.00 S	2.00 LB/AC	EP	0	0	90	13	87	0	87	30
21B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
22	MBR 22359	2.00 E	1.50 LB/AC	PRE	100	13	87	0	87	0	77	36
23	MBR 22359	2.00 E	2.00 LB/AC	PRE	100	27	93	0	93	0	70	32
24	MBR 22359	2.00 E	3.00 LB/AC	PRE	100	37	93	0	90	0	97	32
25	MBR 22359	2.00 E	4.00 LB/AC	PRE	67	23	100	7	100	3	100	40
26A	MBR 22359	2.00 E	1.00 LB/AC	EP	33	17	87	7	87	0	73	33
26B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
27A	MBR 22359	2.00 E	2.00 LB/AC	EP	20	0	93	7	97	10	93	30
27B	SURFACTANT (X-77)	.50 WA	.50 %	EP								
28A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	67	0	73	0	80	3	47	30
28B	MEFLUIDIDE	2.00 S	.25 LB/AC	MP								
28C	SURFACTANT (X-77)	.50 WA	.50 %	MP								
29A	RO 13-8895	3.00 E	.50 LB/AC	MP	7	0	90	0	100	0	100	33
29B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
30A	RO 13-8895	3.00 E	.75 LB/AC	MP	0	0	93	0	100	0	100	35
30B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
31A	FLUAZIFOP BUTYL	4.00 E	.13 LB/AC	MP	0	0	90	0	93	0	93	35
31B	SURFACTANT (X-77)	.50 WA	.10 %	MP								
32A	FLUAZIFOP BUTYL	4.00 E	.25 LB/AC	MP	0	0	90	0	100	0	97	30
32B	SURFACTANT (X-77)	.50 WA	.10 %	MP								
33A	FLUAZIFOP BUTYL	4.00 E	.50 LB/AC	MP	0	0	90	0	100	0	97	33
33B	SURFACTANT (X-77)	.50 WA	.10 %	MP								
34A	DPX 5184	.00	.25	EP	0	0	97	7	100	0	100	41
34B	WK (SURFACTANT)	.00 WA	.25 %	EP								
35A	DPX 5184	.00	.50	EP	0	0	93	0	97	0	93	26
35B	WK (SURFACTANT)	.00 WA	.25 %	EP								
36A	BAS 9052	1.53 EC	.30 LB/AC	MP	0	0	90	0	100	0	100	36
36B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								

Table 41: Soybean Johnsongrass Control (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---7-17 --		----8-3 --		---8-23 --		---9	10-2
					JOGR	CRIN	JOGR	CRIN	JOGR	CRIN	JOGR	YLD
37A	BAS 9052	1.53 EC	.40 LB/AC	MP	0	0	93	0	100	0	100	26
37B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
38A	BAS 9052	1.53 EC	.60 LB/AC	MP	0	0	93	0	100	0	100	39
38B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
39A	BAS 9052	1.53 EC	.40 LB/AC	MP	33	0	90	0	100	0	100	37
39B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
39C	BAS 9052	1.53 EC	.20 LB/AC	14D								
39D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	14D								
40A	BAS 9052	1.53 EC	.40 LB/AC	MP	0	0	93	0	100	0	100	38
40B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
40C	BAS 9052	1.53 EC	.40 LB/AC	14D								
40D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	14D								
41A	BAS 9052	1.53 EC	.20 LB/AC	MP	0	0	90	0	100	0	100	30
41B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
41C	BAS 9052	1.53 EC	.20 LB/AC	14D								
41D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	14D								
42A	BAS 9052	1.53 EC	.30 LB/AC	MP	0	0	90	0	100	0	100	32
42B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
42C	BAS 9052	1.53 EC	.30 LB/AC	14D								
42D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	14D								
43A	MEFLUIDIDE	2.00 S	.25 LB/AC	MP	0	0	53	0	30	10	3	24
43B	SURFACTANT (X-77)	.50 WA	.50 %	MP								
44A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	33	0	37	0	43	7	33	23
44B	SURFACTANT (X-77)	.50 WA	.50 %	MP								
44C	MEFLUIDIDE	2.00 S	.25 LB/AC	14D								
44D	SURFACTANT (X-77)	.50 WA	.50 %	14D								
45A	MEFLUIDIDE	2.00 S	.25 LB/AC	MP	0	0	53	0	77	13	53	27
45B	SURFACTANT (X-77)	.50 WA	.50 %	MP								
45C	MEFLUIDIDE	2.00 S	.13 LB/AC	14D								
45D	SURFACTANT (X-77)	.50 WA	.50 %	14D								
46A	CGA-82725	2.10 EC	.38 LB/AC	MP	0	0	90	0	100	0	97	39
46B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
47A	CGA-82725	2.10 EC	.50 LB/AC	MP	0	0	90	0	100	0	100	24
47B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
48A	CGA-82725	2.10 EC	.75 LB/AC	MP	0	0	90	0	100	0	97	32
48B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								

Table 41: Soybean Johnsongrass Control (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---7-17--		----8-3--		---8-23--		--9	10-2
					JOGR	CRIN	JOGR	CRIN	JOGR	CRIN	JOGR	YLD
49A	CGA-82725	2.10 EC	.38 LB/AC	MP	0	0	90	0	100	0	100	22
49B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
49C	CGA-82725	2.10 EC	.38 LB/AC	21D								
49D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	21D								
50A	CGA-82725	2.10 EC	.50 LB/AC	MP	0	0	97	0	100	0	100	32
50B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
50C	CGA-82725	2.10 EC	.25 LB/AC	21D								
50D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	21D								
51A	CGA-82725	2.10 EC	.50 LB/AC	MP	0	0	93	0	100	0	100	41
51B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
51C	CGA-82725	2.10 EC	.50 LB/AC	21D								
51D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	21D								
52A	CGA-82725	2.10 EC	.75 LB/AC	MP	0	0	93	0	100	0	100	36
52B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
52C	CGA-82725	2.10 EC	.75 LB/AC	21D								
52D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	21D								
LSD(05):					28	12	15	NS	26	4	35	NS

LOCATION: PRINCETON SOIL TYPE: CRIDER SILT LOAM
 FERTILIZATION (LB/AC): 48 N, 49 P, 49 K PH: 6.3 O.M.: 1.3%
 DATE PLANTED: JUNE 25 DATE TREATED: PPI & PRE: JUNE 25
 VARIETY: WILLIAMS EP: JULY 19
 MP: JULY 27
 MP+14D: AUG 10, EP = 0-4", MP = 8-12".

Table 42: Soybean No-till

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---3/17 --	
					GRAS	LACC
1A	PARAQUAT	2.00 E	.25 LB/AC	6WK	28	25
1B	SURFACTANT (X-77)	.50 WA	.25 %	6WK		
1C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
1D	LINURON	4.00 L	.75 LB/AC	PRE		
2A	PARAQUAT	2.00 E	.50 LB/AC	6WK	35	30
2B	SURFACTANT (X-77)	.50 WA	.25 %	6WK		
2C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
2D	LINURON	4.00 L	.75 LB/AC	PRE		
3A	GLYPHOSATE	4.00 E	.75 LB/AC	6WK	48	35
3B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
3C	LINURON	4.00 L	.75 LB/AC	PRE		
4A	GLYPHOSATE	4.00 E	1.00 LB/AC	6WK	8	22
4B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
4C	LINURON	4.00 L	.75 LB/AC	PRE		
5A	GLYPHOSATE	4.00 E	1.50 LB/AC	6WK	58	60
5B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
5C	LINURON	4.00 L	.75 LB/AC	PRE		
6A	CYANAZINE	4.00 L	3.00 LB/AC	6WK	60	75
6B	SURFACTANT (X-77)	.50 WA	.25 %	6WK		
6C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
7A	PARAQUAT	2.00 E	.50 LB/AC	6WK	58	62
7B	SURFACTANT (X-77)	.50 WA	.25 %	6WK		
7C	ORYZALIN	4.00 AS	2.00 LB/AC	6WK		
7D	LINURON	4.00 L	.75 LB/AC	PRE		
8A	PARAQUAT	2.00 E	.50 LB/AC	6WK	48	42
8B	SURFACTANT (X-77)	.50 WA	.25 %	6WK		
8C	PENDIMETHALIN	4.00 E	2.00 LB/AC	6WK		
8D	LINURON	4.00 L	.75 LB/AC	PRE		
9A	PARAQUAT	2.00 E	.50 LB/AC	6WK	70	70
9B	SURFACTANT (X-77)	.50 WA	.25 %	6WK		
9C	S-734	75.00 WP	2.00 LB/AC	6WK		
9D	LINURON	4.00 L	.75 LB/AC	PRE		
10A	ORYZALIN	4.00 AS	2.00 LB/AC	6WK	65	58
10B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
10C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
10D	LINURON	4.00 L	.75 LB/AC	PRE		
11A	PENDIMETHALIN	4.00 E	2.00 LB/AC	6WK	55	55
11B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
11C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
11D	LINURON	4.00 L	.75 LB/AC	PRE		

Table 42: Soybean No-till (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---R/17--	
					GRAS	LAGS
12A	S-734	75.00 WP	2.00 LB/AC	6WK	52	55
12B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
12C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
12D	LINURON	4.00 L	.75 LB/AC	PRE		
13A	PARAQUAT	2.00 E	.25 LB/AC	4WK	75	82
13B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
13C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
13D	LINURON	4.00 L	.75 LB/AC	PRE		
14A	PARAQUAT	2.00 E	.50 LB/AC	4WK	58	62
14B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
14C	LINURON	4.00 L	.75 LB/AC	PRE		
14D	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
15A	GLYPHOSATE	4.00 E	.75 LB/AC	4WK	75	80
15B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
15C	LINURON	4.00 L	.75 LB/AC	PRE		
16A	GLYPHOSATE	4.00 E	1.00 LB/AC	4WK	50	48
16B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
16C	LINURON	4.00 L	.75 LB/AC	PRE		
17A	GLYPHOSATE	4.00 E	1.50 LB/AC	4WK	68	60
17B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
17C	LINURON	4.00 L	.75 LB/AC	PRE		
18A	CYANAZINE	4.00 L	3.00 LB/AC	4WK	55	58
18B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
18C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
19A	CYANAZINE	4.00 L	2.00 LB/AC	4WK	55	68
19B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
19C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
20A	PARAQUAT	2.00 E	.50 LB/AC	4WK	58	50
20B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
20C	ORYZALIN	4.00 AS	2.00 LB/AC	4WK		
20D	LINURON	4.00 L	.75 LB/AC	PRE		
21A	PARAQUAT	2.00 E	.50 LB/AC	4WK	60	62
21B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
21C	PENDIMETHALIN	4.00 E	2.00 LB/AC	4WK		
21D	LINURON	4.00 L	.75 LB/AC	PRE		
22A	PARAQUAT	2.00 E	.50 LB/AC	4WK	60	55
22B	SURFACTANT (X-77)	.50 WA	.25 %	4WK		
22C	S-734	75.00 WP	1.50 LB/AC	4WK		
22D	LINURON	4.00 L	.75 LB/AC	PRE		

Table 42: Soybean No-till (continued)

TRT VU	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---8/17--	
					GRAS	LAGG
23A	ORYZALIN	4.00 AS	2.00 LB/AC	4WK	65	78
23B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
23C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
23D	LINURON	4.00 L	.75 LB/AC	PRE		
24A	PENDIMETHALIN	4.00 E	2.00 LB/AC	4WK	55	40
24B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
24C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
24D	LINURON	4.00 L	.75 LB/AC	PRE		
25A	S-734	75.00 WP	1.50 LB/AC	4WK	50	48
25B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
25C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
25D	LINURON	4.00 L	.75 LB/AC	PRE		
26A	DICAMBA	4.00 S	.50 LB/AC	4WK	28	22
26B	PARAQUAT	2.00 E	.25 LB/AC	PRE		
26C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
26D	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
26E	LINURON	4.00 L	.75 LB/AC	PRE		
27A	DICAMBA	4.00 S	.50 LB/AC	2WK	50	35
27B	PARAQUAT	2.00 E	.25 LB/AC	PRE		
27C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
27D	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
27E	LINURON	4.00 L	.75 LB/AC	PRE		
28A	PARAQUAT	2.00 E	.25 LB/AC	2WK	48	52
28B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
28C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
28D	LINURON	4.00 L	.75 LB/AC	PRE		
29A	PARAQUAT	2.00 E	.50 LB/AC	2WK	62	38
29B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
29C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
29D	LINURON	4.00 L	.75 LB/AC	PRE		
30A	GLYPHOSATE	4.00 E	.75 LB/AC	2WK	55	60
30B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
30C	LINURON	4.00 L	.75 LB/AC	PRE		
31A	GLYPHOSATE	4.00 E	1.00 LB/AC	2WK	45	48
31B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
31C	LINURON	4.00 L	.75 LB/AC	PRE		
32A	GLYPHOSATE	4.00 E	1.50 LB/AC	2WK	50	35
32B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
32C	LINURON	4.00 L	.75 LB/AC	PRE		

Table 42: Soybean No-till (continued)

<u>TRT</u>	<u>HERBICIDE</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u>	<u>---8/17 --</u>	
<u>NO.</u>	<u>TREATMENT</u>			<u>METH</u>	<u>GRAS</u>	<u>LACB</u>
33A	CYANAZINE	4.00 L	1.50 LB/AC	2WK	18	25
33B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
33C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
34A	CYANAZINE	4.00 L	2.00 LB/AC	2WK	22	40
34B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
34C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
35A	PARAQUAT	2.00 E	.50 LB/AC	2WK	68	72
35B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
35C	ORYZALIN	4.00 AS	1.50 LB/AC	2WK		
35D	LINURON	4.00 L	.75 LB/AC	PRE		
36A	PARAQUAT	2.00 E	.50 LB/AC	2WK	20	25
36B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
36C	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK		
36D	LINURON	4.00 L	.75 LB/AC	PRE		
37A	PARAQUAT	2.00 E	.50 LB/AC	2WK	65	65
37B	SURFACTANT (X-77)	.50 WA	.25 %	2WK		
37C	S-734	75.00 WP	1.25 LB/AC	2WK		
37D	LINURON	4.00 L	.75 LB/AC	PRE		
38A	ORYZALIN	4.00 AS	1.50 LB/AC	2WK	62	60
38B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
38C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
38D	LINURON	4.00 L	.75 LB/AC	PRE		
39A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	28	28
39B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
39C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
39D	LINURON	4.00 L	.75 LB/AC	PRE		
40A	S-734	75.00 WP	1.25 LB/AC	2WK	68	58
40B	PARAQUAT	2.00 E	.50 LB/AC	PRE		
40C	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
40D	LINURON	4.00 L	.75 LB/AC	PRE		
41A	PARAQUAT	2.00 E	.50 LB/AC	PRE	35	35
41B	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
41C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
41D	LINURON	4.00 L	.75 LB/AC	PRE		
42A	PARAQUAT	2.00 E	.50 LB/AC	PRE	58	42
42B	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
42C	ORYZALIN	4.00 AS	1.00 LB/AC	PRE		
42D	LINURON	4.00 L	.75 LB/AC	PRE		

Table 42: Soybean No-till (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEIN	---8/17 -- GRAS	LAGG
43A	PARAQUAT	2.00 E	.50 LB/AC	PRE	30	32
43B	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
43C	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE		
43D	LINURON	4.00 L	.75 LB/AC	PRE		
44A	PARAQUAT	2.00 E	.50 LB/AC	PRE	75	78
44B	SURFACTANT (X-77)	.50 WA	.25 %	PRE		
44C	S-734	75.00 WP	1.00 LB/AC	PRE		
44D	LINURON	4.00 L	.75 LB/AC	PRE		
45A	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	70	78
45B	LINURON	4.00 L	.75 LB/AC	PRE		
45C	ALACHLOR	4.00 E	2.50 LB/AC	PRE		

LSD(05): NS NS

LOCATION: PRINCETON
 FERTILIZATION (LB/AC):
 DATE PLANTED: JUNE 25
 VARIETY: WILLIAMS

SOIL TYPE: CRIDER SILT LOAM
 48 N, 48 P, 48 K PH: 6.2 U.M.: 1.9%
 DATE TREATED: 6WK: APRIL 15
 4WK: APRIL 29
 2WK: MAY 15

PRE: MAY 29

Table 43: Soybean Johnsongrass Control in No-till Double-Crop

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	8-5		10-2 YLD
					JDGR	CRIN	
1A	GLYPHOSATE	4.00 E	2.00 LB/AC	PWH	88	0	50
1B	ALACHLOR	4.00 E	4.00 LB/AC	PRE			
1C	LINURON	4.00 L	1.00 LB/AC	PRE			
1D	GLYPHOSATE	4.00 E	.00 LB/AC	LP			
2A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	75	8	42
2B	LINURON	4.00 L	1.00 LB/AC	PRE			
2C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
2D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
3A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	50	0	41
3B	LINURON	4.00 L	1.00 LB/AC	PRE			
3C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
3D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
4A	METOLACHLOR	8.00 E	3.00 LB/AC	PRF	50	2	38
4B	LINURON	4.00 L	1.00 LB/AC	PRF			
4C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
4D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
5A	METOLACHLOR	8.00 E	4.00 LB/AC	PRF	38	8	43
5B	LINURON	4.00 L	1.00 LB/AC	PRE			
5C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
5D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
6A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	55	2	36
6B	LINURON	4.00 L	1.00 LB/AC	PRE			
6C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
6D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
7A	PENDIMETHALIN	4.00 E	2.00 LB/AC	PRE	45	0	40
7B	LINURON	4.00 L	1.00 LB/AC	PRE			
7C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
7D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
8A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	50	0	40
8B	LINURON	4.00 L	1.00 LB/AC	PRE			
8C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
8D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
9A	ORYZALIN	4.00 AS	2.00 LB/AC	PRE	65	10	37
9B	LINURON	4.00 L	1.00 LB/AC	PRE			
9C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
9D	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	55	0	43
10B	LINURON	4.00 L	1.00 LB/AC	PRE			
10C	ORYZALIN	4.00 AS	1.00 LB/AC	PRE			
10D	GLYPHOSATE	4.00 E	2.00 LB/AC	PRF			
10E	GLYPHOSATE	4.00 E	.00 LB/AC	SAE			

Table 43: Soybean Johnsongrass Control in No-till Double-Crop
(continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	----8-5--		10-2 YLD
					LOGS	CRIN	
11A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	100	0	47
11B	LINURON	4.00 L	1.00 LB/AC	PRE			
11C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
11D	BAS 9052	1.53 EC	.50 LB/AC	MP			
11E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP			
12A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	100	0	47
12B	LINURON	4.00 L	1.00 LB/AC	PRE			
12C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
12D	FLUAZIFOP BUTYL	4.00 E	.50 LB/AC	MP			
12E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP			
13A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	100	0	49
13B	LINURON	4.00 L	1.00 LB/AC	PRE			
13C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
13D	CGA-82725	2.10 EC	.50 LB/AC	MP			
13E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP			
14A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	100	0	44
14B	LINURON	4.00 L	1.00 LB/AC	PRE			
14C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
14D	RG 13-8395	3.00 E	.50 LB/AC	MP			
14E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	PRE			
15A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	58	0	42
15B	LINURON	4.00 L	1.00 LB/AC	PRE			
15C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE			
15D	MEFLUIDIDE	2.00 S	.25 LB/AC	MP			
15E	WK (SURFACTANT)	.00 WA	.25 %	MP			
16A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	100	0	45
16B	LINURON	4.00 L	1.00 LB/AC	PRE			
16C	PARAQUAT	2.00 E	.25 LB/AC	PRE			
16D	SURFACTANT (X-77)	.50 WA	.25 %	PRE			
16E	BAS 9052	1.53 EC	.50 LB/AC	MP			
16F	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP			
17	CHECK (CULTIVATED)	.00 CK	.00		0	0	36
				LSD(05):	25	NS	8

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K
 DATE PLANTED: JUNE 25
 VARIETY: WILLIAMS
 SOIL TYPE: CRIDER SILTY LOAM
 PH: 5.9
 O.M.: 1.6%
 DATE TREATED: PWT: JUNE 11
 PRE: JUNE 25
 MP: JULY 20

SAE: JULY 27, MP = 2-4", SAE = 10-18".

Table 44: Soybean Post Tolerance (Williams)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7-15 CRIN	10-2 YLD
1A	BENTAZON	4.00 E	.75 LB/AC	EP	0	57
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
2	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	0	58
3	2,4-DB	2.00 E	.03 LB/AC	EP	10	57
4	2,4-DB	2.00 E	.06 LB/AC	EP	23	49
5A	BAS 9052	1.53 EC	.50 LB/AC	EP	0	56
5B	OIL CONCENTRATE	.00 AD	1.00 QT/AC			
6A	BENTAZON	4.00 E	.75 LB/AC	EP	17	54
6B	2,4-DB	2.00 E	.03 LB/AC	EP		
7A	BENTAZON	4.00 E	.75 LB/AC	EP	10	53
7B	2,4-DB	2.00 E	.06 LB/AC	EP		
8A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	23	62
8B	2,4-DB	2.00 E	.03 LB/AC	EP		
9A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	30	53
9B	2,4-DB	2.00 E	.06 LB/AC	EP		
10	CHECK (CULTIVATED)	.00 CK	.00		0	52
				LSD(05):	7	45

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K
 DATE PLANTED: JUNE 12
 VARIETY: WILLIAMS
 EP = 0-2".
 SOIL TYPE: CRIDER SILT LOAM
 PH: 6.6 U.M.: 1.7%
 DATE TREATED: EP: JULY 7

Table 45: Soybean Post Tolerance (Union)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	7-15 CRIN	10-2 YLD.
1A	BENTAZON	4.00 E	.75 LB/AC	EP	10	58
1B	OIL CONCENTRATE	.00 AD	1.00 OI/AC	EP		
2	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	3	60
3	2,4-DB	2.00 E	.03 LB/AC	EP	23	50
4	2,4-DB	2.00 E	.06 LB/AC	EP	30	51
5A	BAS 9052	1.53 EC	.50 LB/AC	EP	3	56
5B	OIL CONCENTRATE	.00 AD	1.00 OI/AC			
6A	BENTAZON	4.00 E	.75 LB/AC	EP	20	60
6B	2,4-DB	2.00 E	.03 LB/AC	EP		
7A	BENTAZON	4.00 E	.75 LB/AC	EP	27	55
7B	2,4-DB	2.00 E	.06 LB/AC	EP		
8A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	30	56
8B	2,4-DB	2.00 E	.03 LB/AC	EP		
9A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	40	55
9B	2,4-DB	2.00 E	.06 LB/AC	EP		
10	CHECK (CULTIVATED)	.00 CK	.00		0	53
				LSO(05):	10	48

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K
 DATE PLANTED: JUNE 12
 VARIETY: UNION
 EP = 0-2".
 SOIL TYPE: CRIDER SILT LOAM
 PH: 5.6 OM: 1.7%
 DATE TREATED: EP: JULY 7

Table 46: Soybean Post Tolerance (Mitchell)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7-15 CRIN	10-2 YLD
1A	BENTAZON	4.00 E	.75 LB/AC	EP	13	53
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
2	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	10	56
3	2,4-DB	2.00 E	.03 LB/AC	EP	27	47
4	2,4-DB	2.00 E	.06 LB/AC	EP	37	56
5A	BAS 9052	1.53 EC	.50 LB/AC	EP	0	47
5B	OIL CONCENTRATE	.00 AD	1.00 QT/AC			
6A	BENTAZON	4.00 E	.75 LB/AC	EP	20	53
6B	2,4-DB	2.00 E	.03 LB/AC	EP		
7A	BENTAZON	4.00 E	.75 LB/AC	EP	27	51
7B	2,4-DB	2.00 E	.06 LB/AC	EP		
8A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	30	52
8B	2,4-DB	2.00 E	.03 LB/AC	EP		
9A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	43	49
9B	2,4-DB	2.00 E	.06 LB/AC	EP		
10	CHECK (CULTIVATED)	.00 CK	.00		0	49
LSD(05):					10	6

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K
 DATE PLANTED: JUNE 12
 VARIETY: MITCHELL
 EP = 0-2".

SOIL TYPE: CRIDER SILT LOAM
 PH: 6.6 O.M.: 1.7%
 DATE TREATED: EP: JULY 7

Table 47: Soybean Post Tolerance (Essex)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7-15 CRIV	10-2 YLD
1A	BENTAZON	4.00 E	.75 LB/AC	EP	7	56
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
2	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	10	53
3	2,4-DB	2.00 E	.03 LB/AC	EP	17	56
4	2,4-DB	2.00 E	.06 LB/AC	EP	23	52
5A	BAS 9052	1.53 EC	.50 LB/AC	EP	0	43
5B	OIL CONCENTRATE	.00 AD	1.00 QT/AC			
6A	BENTAZON	4.00 E	.75 LB/AC	EP	17	61
6B	2,4-DB	2.00 E	.03 LB/AC	EP		
7A	BENTAZON	4.00 E	.75 LB/AC	EP	27	57
7B	2,4-DB	2.00 E	.06 LB/AC	EP		
8A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	27	59
8B	2,4-DB	2.00 E	.03 LB/AC	EP		
9A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	37	53
9B	2,4-DB	2.00 E	.06 LB/AC	EP		
10	CHECK (CULTIVATED)	.00 CK	.00		0	51
				LSD(05):	10	NS

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K
 DATE PLANTED: JUNE 12
 VARIETY: ESSEX
 EP = 0-2".

SOIL TYPE: CRIDER SILT LOAM
 PH: 6.6 O.M.: 1.7%
 DATE TREATED: EP: JULY 7

Table 48: Soybean Post Tolerance (Forrest)

<u>TRT</u>	<u>HERBICIDE</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u>	<u>--7</u>
<u>NO.</u>	<u>TREATMENT</u>			<u>METHOD</u>	<u>CRLY</u>
1A	BENTAZON	4.00 E	.75 LB/AC	EP	19
1B	0IL CONCENTRATE	.00 AD	1.00 QT/AC	EP	
2	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	19
3	2,4-DB	2.00 E	.03 LB/AC	EP	27
4	2,4-DB	2.00 E	.06 LB/AC	EP	37
5A	BAS 9052	1.53 EC	.50 LB/AC	EP	0
5B	0IL CONCENTRATE	.00 AD	1.00 QT/AC		
6A	BENTAZON	4.00 E	.75 LB/AC	EP	23
6B	2,4-DB	2.00 E	.03 LB/AC	EP	
7A	BENTAZON	4.00 E	.75 LB/AC	EP	33
7B	2,4-DB	2.00 E	.06 LB/AC	EP	
8A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	33
8B	2,4-DB	2.00 E	.03 LB/AC	EP	
9A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	37
9B	2,4-DB	2.00 E	.06 LB/AC	EP	
10	CHECK (CULTIVATED)	.00 CK	.00		0
			LSD(05):		11

LOCATION: PRINCETON SOIL TYPE: CRIER SILT LOAM
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K PH: 6.6 O.M.: 1.7%
 DATE PLANTED: JUNE 12 DATE TREATED: EP: JULY 7
 VARIETY: FORREST
 EP = 0-2".

Table 49: Soybean Post Control of Cocklebur

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22 -- COCB	---7-7 -- CRIN	COCB	CRIN	10-2 YLD
1A	BENTAZON	4.00 E	.75 LB/AC	EP	75	10	72	2	37
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
2A	BENTAZON	4.00 E	1.00 LB/AC	MP	80	8	80	0	31
2B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP					
3	ACIFLUORFEN	2.00 E	.38 LB/AC	EP	65	12	62	5	34
4	ACIFLUORFEN	2.00 E	.50 LB/AC	MP	92	22	90	15	35
5A	ACIFLUORFEN	2.00 E	.38 LB/AC	EP	78	22	75	10	39
5B	BENTAZON	4.00 E	.50 LB/AC	EP					
6A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	82	15	82	8	39
6B	BENTAZON	4.00 E	.50 LB/AC	EP					
7A	ACIFLUORFEN	2.00 E	.75 LB/AC	EP	92	25	90	12	40
7B	BENTAZON	4.00 E	.25 LB/AC	EP					
8A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	70	35	72	15	36
8B	2,4-DB	2.00 E	.03 LB/AC	EP					
9A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	92	28	92	15	37
9B	2,4-DB	2.00 E	.06 LB/AC	EP					
10A	ACIFLUORFEN	2.00 E	.50 LB/AC	LLP	0	0	98	0	41
10B	2,4-DB	2.00 E	.03 LB/AC	LLP					
11A	ACIFLUORFEN	2.00 E	.50 LB/AC	LLP	0	10	92	5	38
11B	2,4-DB	2.00 E	.06 LB/AC	LLP					
12A	BENTAZON	4.00 E	.50 LB/AC	EP	52	28	55	12	37
12B	2,4-DB	2.00 E	.03 LB/AC	EP					
13A	BENTAZON	4.00 E	.50 LB/AC	EP	82	18	75	10	40
13B	2,4-DB	2.00 E	.06 LB/AC	EP					
14A	BENTAZON	4.00 E	.75 LB/AC	EP	68	22	62	8	38
14B	2,4-DB	2.00 E	.03 LB/AC	EP					
15A	BENTAZON	4.00 E	.75 LB/AC	EP	88	20	82	2	41
15B	2,4-DB	2.00 E	.06 LB/AC	EP					
16A	BENTAZON	4.00 E	.75 LB/AC	LLP	0	0	90	5	43
16B	2,4-DB	2.00 E	.03 LB/AC	LLP					
17A	BENTAZON	4.00 E	.75 LB/AC	LLP	0	0	95	2	45
17B	2,4-DB	2.00 E	.06 LB/AC	LLP					

Table 49: Soybean Post Control of Cocklebur (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---6-22--		----7-7--		10-2 YLD
					COCB	CRIN	COCB	CRIN	
18	MC 10978	2.00 S	.38 LB/AC	EP	58	8	85	0	41
19	MC 10978	2.00 S	.50 LB/AC	EP	92	18	92	5	38
20	MC 10978	2.00 S	.75 LB/AC	EP	95	10	95	2	38
21A	MC 10978	2.00 S	.38 LB/AC	EP	78	12	78	2	34
21B	SURFACTANT (X-77)	.50 WA	.25 %	EP					
22A	MC 10978	2.00 S	.50 LB/AC	EP	85	22	78	8	39
22B	SURFACTANT (X-77)	.50 WA	.25 %	EP					
23A	MC 10978	2.00 S	.75 LB/AC	EP	68	15	68	2	36
23B	SURFACTANT (X-77)	.50 WA	.25 %	EP					
24	BENAZOLIN	28.00 WP	.25 LB/AC	EP	30	22	55	5	35
25	BENAZOLIN	28.00 WP	.50 LB/AC	EP	90	40	85	20	49
26	BENAZOLIN	28.00 WP	.38 LB/AC	MP	40	22	42	10	41
27	BENAZOLIN	28.00 WP	.75 LB/AC	MP	50	20	72	8	40
28A	BENAZOLIN	28.00 WP	.38 LB/AC	MP	35	28	60	10	34
28B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP					
29A	BENAZOLIN	3.00 E	.38 LB/AC	MP	62	25	70	5	42
29B	SURFACTANT (X-77)	.50 WA	.50 %	MP					
30	RH-0265	2.00 E	.06 LB/AC	MP	60	2	58	2	38
31	RH-0265	2.00 E	.12 LB/AC	MP	52	5	60	0	34
32	RH-0265	2.00 E	.25 LB/AC	MP	90	8	88	0	41
33A	RH-0265	2.00 E	.06 LB/AC	MP	82	0	80	0	34
33B	TRITON AG 98 SURFACT	.00 WA	.13 %	MP					
34A	RH-0265	2.00 E	.12 LB/AC	MP	80	30	82	22	31
34B	TRITON AG 98 SURFACT	.00 WA	.13 %	MP					
35A	RH-0265	2.00 E	.25 LB/AC	MP	90	12	82	8	38
35B	TRITON AG 98 SURFACT	.00 WA	.13 %	MP					
36A	MEFLUTHIODE	2.00 S	.06 LB/AC	MP	0	0	100	0	37
36B	BENAZOLIN	4.00 E	.38 LB/AC	30					
36C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	30					

Table 49: Soybean Post Control of Cocklebur (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---6-22--		---7-7--		10-2 YLD
					COCB	CRIM	COCB	CRIM	
37A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	0	0	100	2	38
37B	BENTAZON	4.00 E	.38 LB/AC	3D					
37C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	3D					
38A	MEFLUIDIDE	2.00 S	.06 LB/AC	MP	0	5	100	2	41
38B	ACIFLUORFEN	2.00 E	.25 LB/AC	3D					
39A	MEFLUIDIDE	2.00 S	.13 LB/AC	MP	0	2	100	15	40
39B	ACIFLUORFEN	2.00 E	.25 LB/AC	3D					
40	NANPAZON	3.00 E	1.50 LB/AC	EP	62	20	42	5	33
41	NANPAZON	3.00 E	2.25 LB/AC	MP	82	18	80	8	38
42	NANPAZON	3.00 E	3.00 LB/AC	MP	90	32	90	15	42
43A	VERNOLATE	7.00 E	2.00 LB/AC	PPI	88	18	85	8	42
43B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP					
44A	VERNOLATE	7.00 E	2.00 LB/AC	PPI	85	0	85	0	35
44B	BENTAZON	4.00 E	.38 LB/AC	MP					
44C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP					
45A	VERNOLATE	7.00 E	3.00 LB/AC	PPI	78	18	82	8	36
45B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP					
46A	VERNOLATE	7.00 E	3.00 LB/AC	PPI	95	2	92	2	38
46B	BENTAZON	4.00 E	.38 LB/AC	MP					
46C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP					
LSD (05):					29	15	25	10	NS

LOCATION: PRINCETON SOIL TYPE: CRIDER SILT LOAM
 FERTILIZATION (LB/AC): 48 N, 48 P, 48 K P4: 7.0 U.M.: 1.6%
 DATE PLANTED: MAY 23 DATE TREATED: PPI: MAY 23
 VARIETY: WILLIAMS EP: JUNE 4
 MP: JUNE 12
 MP+3DA: JUNE 18, LLP: JUNE 24, EP = 0-2", MP = 2-4", LLP = 6-8".