

Herbicide Evaluation Trials-1978

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(not for publication)

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TABLE 1. Abbreviations for the Headings.

BRLE	Broadleaf
BUCU	Burcucumber
BLNS	Nightshade, Black
COCB	Cocklebur, Common
COLQ	Lambsquarters, Common
CRIN	% Crop Injury
GIFT	Foxtail, Giant
GRAS	Grass
JIWE	Jimsonweed
POP	Plants/Acre
RRPW	Pigweed, Redroot
SHCA	Shattercane
SOKI	% Sod Kill
VELE	Velvetleaf
YEFT	Foxtail, Yellow
YENS	Nutsedge, Yellow
YLD	Yield (Bu/Ac)

TABLE 2. Abbreviations for Application Methods.

EP	Early Postemergence, Crop Stage and Weed size Are Defined For Each Experiment
LBY	Layby, Application Made At Time Last Cultivation Would Occur
LP	Late Postemergence, Crop Stage and Weed Size Are Defined For Each Experiment
MP	Midpostemergence, Crop Stage and Weed Size Are Defined For Each Experiment
PD	Post Directed
POT	Posttransplant
PPI	Preplant Incorporated
PRE	Preemergence
PRT	Pretransplant
SPK	Spike
+5D	Five Days After 1st Post Application
+10	Ten Days After 1st Post Application
2LF	Two Leaf Stage of Crop
4LF	Four Leaf Stage of Crop
1WK	One Weed After Planting

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 broder row, except in no-till corn and soybeans.
APPLICATION:	Treatments were applied with a CO ₂ sprayer. Herbicides were incorporated with a power-driven rototiller.
RATING:	Weed control was rated on a scale of 0 to 100, with 0 representing no control and 100 representing total control. A rating of 70 is considered commercially acceptable. 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:	Maine Chance - Spindletop Farm ranged from 3.2 to 6.1%. Individual organic matter is listed on each experiment.
PH:	Maine Chance - Spindletop Farm ranged from 5.4 to 6.4. 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, Date planted and treated, Variety, and Stage of crop and weed growth when postemergence application were made.

TABLE 4. Herbicides Used in Weed Control Studies - 1977.

CHEMICAL	TRADE NAME
AC 260784	Combat
Alachlor	Lasso
Alachlor + Atrazine	Lasso + Atrazine pkg mix
Alachlor + Linuron	Lasso + Lorox pkg mix
Alachlor + Metribuzin	Lasso + Metribuzin pkg mix
Ametryne	Evik
Atrazine	Aatrex
BAS-9021	BAS-9021
Bay 0787	Bay 0787
Bay 4767	Bay 4767
Benefin	Balan
Bentazon	Basagran
Bifenox	Mowdown
Bromoxonyl	Bromoxonyl
Butylate + R-25788	Sutan +
Chloramiben	Amiben
Chlorbromuron	Chlorbromuron
Chlorxuron	Tenoran
Chloroprotham	Furloe
CP55097	CP-55907
Crop Oil	Crop Oil
Cyanazine	Bladex
Devrinol	Devrinol
Dicamba	Banvel
Diesel Oil	Diesel Oil
Dinitramine	Cobex
Dinitramine + USB-3153	Cobex + Rydex
Dinoseb	Premerge, DOW GENERAL
Diphenamid	Enide
DPX 4129	DPX-4129
EL-161	Sonalan
EPTC	Eptam
EPTC + R-25788	Eradicane
Fluchloralin	Basalin
FMC 39821	FMC 39821
FMC 39871	FMC 39871
FMC 39896	FMC 39876
Glyphosate	Roundup
GCP-6305	GCP 6305
GCP-4417	GCP-4417
H-22234	Antor
HOE-23408	Hoelon
HOE-23408+	HOE-23408+
Isopropalin	Paarlan
Ky. 0-99	Ky. 0-99 unavailable
Linuron	Lorox
M-4287	Dowco 295
MBR-12325	Vistar
MBR-8251	Destun
MBR-20510	MBR-20510

TABLE 4. Herbicides Used in Weed Control Studies - 1977 (cont.)

CHEMICAL (Generic) Name	TRADE NAME
Metolachlor	Dual
Metolachlor + Atrazine	Dual + Atrazine, Bicep
Metribuzin	Lexone ² , Sencor ¹
Mobil 10108	Mobil 10108
Mobil 10109	Mobil 10109
Mobil 10978	Mobil 10978
Naptalam + Dinoseb	Dyanap
Oil concentrate	Oil concentrate
Oryzalin	Surflan
Paraquat	Paraquat CL
Pebulate	Tillam
Pendimethalin	Prowl
Profluralin	Tolban
R-40244	R-40244
RE-19698	RE-19698
RE-24293	RE-24293
RH-2915	Goal
RH-9769	RH-9769
RH-6201	Blazer
RH-8817	RH-8817
SD-50093	SD-50093
Simazine	Princep
S-734	S-734
Surfactant	X-77
Surfactant	Triton AG98
Surfactant	Cittowett Plus
Trifluralin	Treflan
USB-3153	Rydex
VEL-5026	VEL-5026
Vernolate	Vernam
Vernolate + R-25788	Surpass
2,4-D amine	2,4-D amine
2,4-DB	Butyrac 200

TABLE 5.

CLIMATOLOGICAL DATA - MAYSpindletop Farm
Fayette County, Kentucky

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% at 2PM RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	63	37	0.00	65	48	68	56	32
2	60	32	0.00	67	44	61	53	36
3	61	37	0.00	64	46	60	54	32
4	58	44	1.10	59	52	58	55	98
5	58	50	Trace	59	54	58	57	55
6	65	41	0.00	73	50	64	55	42
7	54	47	0.19	59	49	60	58	92
8	69	53	1.00	69	52	63	58	94
9	70	56	Trace	70	51	67	61	34
10	70	46	0.00	71	58	68	60	32

11	76	49	0.00	76	59	70	60	34
12	71	59	0.27	68	61	67	64	76
13	66	52	1.12	65	56	65	61	78
14	54	44	0.46	56	53	62	59	96
15	56	45	0.14	60	56	61	59	72
16	56	49	0.09	61	55	61	59	90
17	68	50	0.07	72	52	67	59	50
18	75	46	0.00	78	56	69	60	40
19	82	52	0.00	81	60	73	62	28
20	81	55	0.00	74	62	72	65	42

21	80	58	0.00	77	65	73	66	46
22	77	48	0.00	66	60	68	59	48
23	82	61	0.27	81	68	75	67	62
24	78	64	0.49	80	69	75	69	70
25	79	61	0.00	88	69	77	70	54
26	83	57	0.00	83	67	78	70	38
27	85	57	0.00	84	66	79	70	34
28	86	62	0.00	86	70	80	71	45
29	85	66	0.00	85	72	78	75	56
30	82	67	0.00	82	72	77	74	60
31	83	60	0.00	85	68	79	71	38

TABLE 5 (cont.)

CLIMATOLOGICAL DATA June 1978
 Spindletop Farm
 Fayette County, Kentucky

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% at 2PM RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	88	61	0.00	88	70	81	72	36
2	83	64	0.00	81	72	81	75	54
3	77	64	0.00	80	70	78	74	45
4	77	59	0.34	79	64	76	69	38
5	81	60	0.00	71	67	73	70	52
6	80	60	Trace	77	70	75	72	44
7	78	65	0.74	80	71	76	72	60
8	83	68	0.19	82	74	81	74	58
9	80	56	Trace	97	70	78	74	45
10	81	52	0.00	87	66	77	70	35

11	85	63	0.00	88	70	78	72	48
12	75	65	0.33	87	75	78	75	55
13	73	54	0.00	82	59	77	71	35
14	71	47	0.00	83	64	76	68	40
15	74	52	0.00	86	67	76	69	32
16	85	64	0.00	86	72	76	72	50
17	86	70	0.00	90	75	79	72	46
18	88	68	0.00	91	75	80	74	48
19	80	65	0.82	85	72	80	75	56
20	85	61	0.00	86	69	81	75	50

21	82	67	0.00	84	75	82	76	55
22	78	58	0.00	84	72	81	74	35
23	79	56	0.00	82	71	80	73	32
24	84	58	0.00	86	71	81	73	32
25	90	64	0.00	87	75	81	75	44
26	92	68	0.00	88	77	83	77	42
27	93	75	0.00	91	79	85	77	40
28	93	74	0.00	93	80	90	81	30
29	93	65	0.00	93	80	90	79	40

30	92	68	0.00	95	80	86	79	45

Total Precipitation - 2.42 inches

TABLE 5 (cont.)

CLIMATOLOGICAL DATA July 1978
 Spindletop Farm
 Fayette County, Kentucky

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% at 2PM RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
	MAX	MIN		MAX	MIN	MAX	MIN	
1	72	64	0.21	92	80	83	77	55
2	80	65	0.00	87	77	82	76	54
3	86	64	0.19	85	77	81	77	
4	80	51	0.00	85	74	84	75	
5	81	57	0.00	87	72	81	73	52
6	89	56	0.00	93	76	83	74	54
7	92	57	0.00	92	78	83	77	50
8		66	0.28	91	78	84	77	48
9	88	68	0.00	91	79	83	78	80
10	90	66	0.00	91	78	83	77	55

11	89	60	0.00	88	73	82	76	42
12	79	51	0.00	91	70	81	71	36
13	82	62	0.47	91	71	82	72	95
14	87	64	0.04	88	71	83	71	75
15	76	64	0.31	80	75	80	77	100
16	83	57	0.00	87	72	82	74	50
17	83	55	0.00	102	86	85	71	35
18	86	56	0.00	102	83	87	72	28
19	92	63	0.00	99	80	85	75	38
20	93	72	0.00	97	81	86	78	42

21	93	73	0.00	97	81	86	80	48
22	93	73	0.00	100	79	87	79	38
23	94	74	0.00	98	79	86	80	44
24	91	66	0.25	86	79	84	80	72
25	85	66	0.78	89	75	84	77	66
26	89	70	0.00	93	76	87	78	50
27	87	69	0.00	92	76	88	79	48
28	86	65	0.00	94	78	84	77	36
29	90	63	0.00	90	76	83	77	38
30	89	68	0.71					75

31	83	66	1.60					70

Total Precipitation - 4.84 inches

TABLE 5 (cont.)

CLIMATOLOGICAL DATA August 1978
 Spindletop Farm
 Fayette County, Kentucky

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% at 2PM RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	84	57	0.00	83	75	91	72	50
2	88	65	0.00	85	77	94	74	45
3	87	68	0.04	84	80	91	77	78
4	81	62	0.00	83	77	91	75	55
5	78	64	0.32	79	76	81	74	100
6	81	67	0.49	81	77	87	74	85
7	82	68	0.00	81	78	86	76	68
8	83	60	0.00	82	75	91	75	50
9	81	69	0.00	81	78	87	75	78
10	85	67	0.00	83	77	94	74	50

11	83	66	0.24	82	78	88	75	75
12	81	66	0.81	81	77	86	75	90
13	84	65	0.00	80	74	93	76	65
14	86	65	0.45	84	76	89	79	58
15	87	68	0.02	84	78	93	76	62
16	87	72	Trace	82	80	87	76	86
17	88	70	0.00	87	79	91	77	48
18	86	67	0.89	84	78	92	75	65
19	89	73	0.00	88	79	93	77	60
20	89	58	0.03	90	76	84	78	54

21	77	54	0.00	83	74	91	66	50
22	82	64	0.00	83	75	94	71	45
23	87	57	0.00	83	75	91	73	55
24	88	71	0.00	83	78	91	76	55
25	91	69	1.72	81	79	100	79	55
26	86	68	0.09	84	79	95	75	58
27	88	68	0.03	84	79	93	76	52
28	87	70	0.00	85	80	92	77	54
29	86	67	0.47	80	79	82	75	95
30	76	66	1.95	79	77	82	74	84

31	72	64	0.50	78	68	73	69	100

Total Precipitation - 8.01 inches

TABLE 5 (cont.)

CLIMATOLOGICAL DATA September 1978
 Spindletop Farm
 Fayette County, Kentucky

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% at 2PM RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	77	56	0.00	80	74	87	66	46
2	81	55	0.00	80	73	91	60	48
3	80	52	0.00	79	75	90	66	52
4	80	57	0.00	79	72	88	68	52
5	80	54	0.00	79	69	91	65	48
6	86	56	0.00	80	74	93	67	46
7	85	60	0.00	80	70	93	74	48
8	86	61	0.00	81	76	94	74	48
9	87	60	0.00	81	75	96	74	44
10	87	61	0.00	81	77	95	76	44

11	85	65	0.00	80	74	93	77	54
12	84	66	0.00	79	76	91	76	60
13	83	66	0.12	80	76	90	76	80
14	82	69	0.04	79	77	82	75	72
15	82	87	0.01	81	77	91	79	40
16	82	67	0.00	80	77	87	74	68
17	87	68	0.00	81	77	93	74	55
18	88	73	0.00	81	78	93	76	50
19	90	71	0.00	84	78	97	76	48
20	91	76	0.00	85	77	97	76	44

21	97	70	0.07	82	78	93	77	50
22	77	58	0.17	79	74	79	67	90
23	69	49	0.00	75	70	77	60	65
24	73	61	0.00	76	73	77	70	78
25	74	48	0.00	76	70	81	62	44
26	77	46	0.00	76	68	85	58	32
27	78	56	0.00	75	70	84	67	50
28	76	53	0.00	75	70	84	65	38
29	75	43	0.00	74	65	83	59	46
30	76	59	0.44	7	70	81	66	52

Total Precipitation - 0.84 inches

TABLE 6. Corn Preemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 26, 1978-----							---OCT. 3---	
					GRAS	BRLE	CRIN	JIWE	VELE	COLQ	GIFT	YLD	PDP
1	ATRAZINE	4.00 L	2.00 LB/AC	PRE	85	100	0	100	100	100	90	91	24
2	ATRAZINE	90.00 WDG	2.00 LB/AC	PRE	92	100	0	100	100	100	100	69	24
3	SIMAZINE	4.00 L	2.00 LB/AC	PRE	100	90	0	100	72	100	100	82	24
4	CYANAZINE	4.00 L	3.00 LB/AC	PRE	95	80	0	82	60	100	95	47	24
5	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	62	0	80	32	65	100	33	24
6	METALACHLOR	6.00 E	2.50 LB/AC	PRE	100	62	0	90	12	82	100	32	24
7	PENDIMETHALIN	4.00 E	2.00 LB/AC	PRE	100	70	0	42	98	100	100	37	24
8A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	100	100	0	100	100	100	100	90	24
8B	SIMAZINE	4.00 L	2.00 LB/AC	PRE									
9A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	100	85	0	95	45	100	100	70	24
9B	CYANAZINE	4.00 L	2.00 LB/AC	PRE									
10A	ALACHLOR PKG MIX	2.50 L	2.21 LB/AC	PRE	100	95	0	100	95	100	100	71	23
10B	WITH ATRAZINE	1.50	1.33	PRE									
11A	ALACHLOR	4.00 E	2.21 LB/AC	PRE	100	100	0	100	100	100	100	80	24
11B	ATRAZINE	4.00 L	1.33 LB/AC	PRE									
12A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	98	0	100	98	100	100	79	24
12B	ATRAZINE	4.00 L	1.50 LB/AC	PRE									
13A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	90	100	0	100	100	100	92	89	23
13B	ATRAZINE	4.00 L	1.50 LB/AC	PRE									
14A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	98	88	0	82	95	100	98	53	23
14B	CYANAZINE	4.00 L	2.00 LB/AC	PRE									
15	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	100	95	0	100	100	100	92	67	24
16A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	85	0	78	95	100	100	49	24
16B	METRIBUZIN 1	50.00 WP	0.28 LB/AC	PRE									
17A	METRIBUZIN 1	50.00 WP	0.50 LB/AC	PRE	100	80	0	68	95	100	100	27	23
17B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
18A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	100	92	0	100	98	100	100	66	23
18B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE									
18C	ALACHLOR	4.00 E	2.00 LB/AC	PRE									

TABLE 6. Corn Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 26, 1978-----							---OCT. 3---	
					GRAS	BRLS	CRIN	JIWE	VELE	COLQ	GIFI	YLD	POP
19	SD 50093	80.00 WP	3.00 LB/AC	PRE	95	95	0	98	95	100	95	72	24
20	SD 50093	4.00 L	3.00 LB/AC	PRE	92	98	0	100	98	100	95	83	24
21A	SD 50093	80.00 WP	2.00 LB/AC	PRE	100	95	0	100	95	100	100	70	24
21B	METALACHLOR	6.00 E	2.00 LB/AC	PPE									
22A	SD 50093	4.00 L	2.00 LB/AC	PRE	100	92	0	100	80	100	100	66	24
22B	MFTALACHLOR	6.00 E	2.00 LB/AC	PRE									
23A	SD 50093	80.00 WP	2.00 LB/AC	PRE	100	95	0	100	92	100	100	89	24
23B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
24A	SD 50093	4.00 L	2.00 LB/AC	PPE	100	92	0	100	95	100	100	73	24
24B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
25	R-40244	2.00 E	0.25 LB/AC	PRE	82	42	0	18	45	100	90	19	23
26	R-40244	2.00 E	0.50 LB/AC	PPE	95	72	0	60	90	100	92	41	23
27	R-40244	2.00 E	0.75 LB/AC	PRE	95	80	0	70	90	100	95	55	24
28	R-40244	2.00 E	1.00 LB/AC	PRE	100	90	0	92	98	100	100	69	23
29A	R-40244	2.00 E	0.50 LB/AC	PRE	100	98	0	100	100	100	100	68	24
29B	ATRAZINE	4.00 L	1.00 LB/AC	PRE									
30A	R-40244	2.00 E	0.75 LB/AC	PRE	100	100	0	100	100	100	100	85	25
30B	ATRAZINE	4.00 L	1.00 LB/AC	PRE									
31A	R-40244	2.00 E	0.25 LB/AC	PRE	80	60	0	46	52	80	80	32	19
31B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
32A	R-40244	2.00 E	0.50 LB/AC	PRE	100	85	0	90	95	100	100	35	23
32B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
33A	VEL 5026	50.00 WP	0.25 LB/AC	PRE	100	78	0	85	70	100	100	63	24
33B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
34A	VEL 5026	50.00 WP	0.38 LB/AC	PRE	100	90	0	100	92	100	100	67	24
34B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
35A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	100	92	0	98	98	100	100	51	24
35B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
36A	VEL 5026	50.00 WP	0.25 LB/AC	PRE	100	80	0	89	85	100	100	49	24
36B	METALACHLOR	6.00 E	2.00 LB/AC	PRE									

TABLE 7. Corn Preplant Incorporated.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 26, 1978 -----									---OCT. 2---	
					GRAS	BRLE	CRIN	GIEI	RRPW	VELE	COLQ	JIWE	YLD	POP	
1	ATRAZINE	90.00 WOG	2.00 LB/AC	PPI	78	100	0	70	100	100	100	100	86	23	
2	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	98	62	0	100	100	100	48	95	33	23	
3	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	98	65	0	100	100	92	45	100	33	24	
4A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	98	98	0	100	100	100	100	100	106	23	
4B	ATRAZINE	4.00 L	1.00 LB/AC	PPI											
5A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	95	95	0	98	100	98	100	100	105	23	
5B	SIMAZINE	4.00 L	1.00 LB/AC	PPI											
6	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	15	0	100	100	100	10	100	12	24	
7A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	98	0	100	100	100	100	98	87	24	
7B	ATRAZINE	4.00 L	1.00 LB/AC	PPI											
8	METALACHLOR	6.00 E	2.50 LB/AC	PPI	95	32	0	100	100	92	42	98	21	23	
9A	METALACHLOR	6.00 E	2.00 LB/AC	PPI	95	88	0	100	95	78	98	92	59	23	
9B	CYANAZINE	4.00 L	2.00 LB/AC	PPI											
10A	METALACHLOR	6.00 E	2.00 LB/AC	PPI	95	98	0	98	100	100	100	100	88	23	
10B	ATRAZINE	4.00 L	1.60 LB/AC	PPI											
11	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PPI	98	92	0	98	100	95	100	100	95	24	
12A	R-40244	2.00 E	0.13 LB/AC	PPI	95	68	0	100	100	98	60	98	39	24	
12B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI											
13A	R-40244	2.00 E	0.25 LB/AC	PPI	90	80	0	100	98	100	78	92	50	24	
13B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI											
14A	R-40244	2.00 E	0.50 LB/AC	PPI	95	88	0	98	100	90	88	92	66	24	
14B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI											
15A	R-40244	2.00 E	0.13 LB/AC	PPI	92	20	0	100	100	100	15	98	14	24	
15B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI											
16A	R-40244	2.00 E	0.25 LB/AC	PPI	100	52	0	100	100	98	35	98	21	24	
16B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI											
17A	R-40244	2.00 E	0.50 LB/AC	PPI	100	80	0	100	100	98	85	95	62	24	
17B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI											
18	AC 260784	4.00 E	3.50 LB/AC	PPI	92	10	0	100	92	72	10	90	10	24	

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TABLE 7. Corn Preplant Incorporated (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 26, 1978-----										---OCT. 2---	
					GRAS	BRLE	CRIN	GIEI	BBPW	VELE	COLQ	JIME	YLD	PDP		
19	AC 260784	4.00 E	4.00 LB/AC	PPI	90	10	0	100	98	92	10	90	9	23		
20A	AC 260784	4.00 E	3.50 LB/AC	PPI	65	100	0	62	100	100	100	98	37	24		
20B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
21A	AC 260784	4.00 E	4.00 LB/AC	PPI	85	92	0	95	100	92	100	100	88	23		
21B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
22A	AC 260784	4.00 E	3.50 LB/AC	PPI	88	78	0	95	68	88	95	95	70	24		
22B	CYANAZINE	4.00 L	2.00 LB/AC	PPI												
23A	AC 260784	4.00 E	4.00 LB/AC	PPI	85	80	0	90	62	82	95	90	77	24		
23B	CYANAZINE	4.00 L	2.00 LB/AC	PPI												
24A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	90	95	0	95	100	95	100	100	96	23		
24B	ATRAZINE	4.00 L	1.50 LB/AC	PPI												
25A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	92	98	0	100	100	98	100	100	102	24		
25B	ATRAZINE	4.00 L	1.60 LB/AC	PPI												
26A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PPI	92	92	0	92	100	95	100	100	96	24		
26B	WITH ATRAZINE	1.50	1.50	PPI												
27A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	95	98	0	100	100	100	100	100	104	24		
27B	ATRAZINE	4.00 L	1.60 LB/AC	PPI												
28A	CYANAZINE	4.00 L	3.00 LB/AC	PPI	80	92	0	80	95	95	100	95	62	23		
28B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI												
29A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	98	95	0	95	95	98	100	98	81	23		
29B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI												
30A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	98	95	0	100	100	100	100	95	91	24		
30B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI												
31A	DICAMBA	4.00 S	0.50 LB/AC	PPI	95	58	0	100	100	98	45	100	25	23		
31B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI												
32	SD 50093	80.00 WP	2.50 LB/AC	PPI	70	98	0	62	100	98	100	100	82	23		
33	SD 50093	80.00 WP	3.00 LB/AC	PPI	68	95	0	85	100	95	100	100	96	24		
34	SD 50093	4.00 L	2.50 LB/AC	PPI	62	90	0	60	100	92	100	98	80	24		
35	SD 50093	4.00 L	3.00 LB/AC	PPI	78	98	0	85	98	98	100	100	93	24		
36A	SD 50093	80.00 WP	2.00 LB/AC	PPI	100	95	0	98	100	98	100	100	107	24		
36B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI												

TABLE 7. Corn Preplant Incorporated (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 26, 1978 -----								---OCT. 2---	
					GRAS	BBLE	CPIN	GIEI	RRPW	VELE	COLQ	JIWE	YLD	POP
37A	SD 50093	4.00 L	2.00 LB/AC	PPI	98	92	0	100	90	93	100	100	98	24
37B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI										
38A	SD 50093	80.00 WP	2.00 LB/AC	PPI	95	100	0	98	100	100	100	100	112	24
38B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI										
39A	SD 50093	4.00 L	2.00 LB/AC	PPI	90	92	0	98	100	95	100	100	93	24
39B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI										
40	CP 55097	5.00 E	2.00 LB/AC	PPI	100	52	0	100	100	92	35	98	13	18
41	CP 55097	5.00 E	2.25 LB/AC	PPI	100	55	0	100	100	92	30	100	22	24
42	CP 55097	5.00 E	2.50 LB/AC	PPI	100	72	0	100	100	94	42	96	34	24
43	CP 55097	5.00 E	3.00 LB/AC	PPI	100	88	0	100	100	83	80	98	25	24
44A	CP 55097	5.00 E	2.00 LB/AC	PPI	92	90	0	100	100	88	100	100	102	23
44B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
45A	CP 55097	5.00 E	2.50 LB/AC	PPI	95	90	0	95	100	95	100	100	91	24
45B	ATRAZINE	4.00 L	1.50 LB/AC	PPI										
46A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	98	5	100	100	95	92	100	84	24
46B	VEL 5026	50.00 WP	0.50 LB/AC	SPK										
47A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	92	0	100	100	100	98	100	86	23
47B	VEL 5026	50.00 WP	0.50 LB/AC	MP5										
48A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	85	0	100	100	90	70	100	83	24
48B	VEL 5026	50.00 WP	0.50 LB/AC	PGD										
49A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	0	100	100	100	92	100	87	24
49B	VEL 5026	50.00 WP	1.00 LB/AC	PGD										
50	SD 50093	80.00 WP	3.00 LB/AC	EP	62	90	0	78	100	90	85	100	46	23
51	SD 50093	4.00 L	3.00 LB/AC	EP	68	100	0	78	100	100	100	100	86	24
52	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100	100	90	24
				LSD(05):	12	13	NS	11	10	13	16	6	20	NS

TABLE 7. Corn Preplant Incorporated (cont.)

LOCATION: SPINDLETOP FARM	SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 260 N, 60 P, 60 K	PH: 6.9 C.M.: 3.6%
DATE PLANTED: MAY 11, 1978	DATE TREATED: MAY 11, 1978 PPI
VARIETY: PIONEER 3369A	MAY 22, 1978 SPIKE
	JUNE 2, 1978 EP MP5

TABLE 8. Corn Postemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEH	-----JUNE 27, 1978-----							--OCT. 4--	
					GRAS	BRLE	CRIN	GIEI	BBPW	COLO	VELE	YLD_	POP_
1A	ATRAZINE	4.00 L	0.75 LB/AC	PRE	80	100	0	88	100	100	100	62	20
1B	AMETRYNE	80.00 WP	1.00 LB/AC	PD									
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	100	0	100	100	100	100	74	20
2B	ATRAZINE	4.00 L	2.00 LB/AC	EP									
2C	CROP OIL	0.0 AD	4.00 QT/AC	EP									
3	2,4-D AMINE	4.00 E	0.50 LB/AC	EP	25	85	0	85	95	98	98	46	19
4	DICAMBA	4.00 S	0.50 LB/AC	PRE	20	10	0	98	10	95	80	6	19
5A	BENTAZON	4.00 E	0.50 LB/AC	EP	15	15	0	92	10	72	82	15	21
5B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP									
6	BENTAZON	4.00 E	0.75 LB/AC	EP	15	10	0	92	22	32	100	10	20
7	BENTAZON	4.00 E	1.00 LB/AC	EP	10	15	0	70	28	15	95	19	20
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	78	0	100	100	65	68	47	20
8B	BENTAZON	4.00 E	0.50 LB/AC	EP									
9A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	82	0	100	98	90	95	71	20
9B	BENTAZON	4.00 E	0.50 LB/AC	EP									
9C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP									
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	85	0	100	100	82	78	47	15
10B	BENTAZON	4.00 E	0.75 LB/AC	EP									
11A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	88	0	100	100	90	80	60	20
11B	BENTAZON	4.00 E	0.75 LB/AC	EP									
11C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP									
12A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	85	0	100	100	85	88	80	20
12B	BENTAZON	4.00 E	1.00 LB/AC	EP									
13A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	0	98	100	90	92	74	20
13B	BENTAZON	4.00 E	1.00 LB/AC	EP									
13C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP									
14A	BENTAZON	4.00 E	0.50 LB/AC	EP	32	90	0	82	98	100	100	40	19
14B	ATRAZINE	4.00 L	0.75 LB/AC	EP									
14C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP									
15A	BENTAZON	4.00 E	0.75 LB/AC	EP	32	95	0	82	98	100	100	68	21
15B	ATRAZINE	4.00 L	0.75 LB/AC	EP									
15C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP									

TABLE 8. Corn Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1978-----								--OCT. 4 --	
					GRAS	BRLE	CRIN	GIEI	RRPW	COLQ	VELE	YLD	POP	
16A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	0	100	100	100	100	74	20	
16B	DICAMBA	4.00 S	0.50 LB/AC	SPK										
17A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	95	0	100	100	98	100	40	15	
17B	DICAMBA	4.00 S	0.50 LB/AC	MP										
18A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	90	0	100	100	95	100	78	21	
18B	DICAMBA	4.00 S	0.50 LB/AC	POD										
19A	ALACHLOR	4.00 F	2.00 LB/AC	PRE	100	90	0	100	100	92	95	70	20	
19B	DICAMBA	4.00 S	0.25 LB/AC	POD										
20A	PENDIMETHALIN	4.00 E	1.50 LB/AC	3LF	90	100	0	98	98	100	100	77	20	
20B	CYANAZINE	80.00 WP	2.00 LB/AC	3LF										
21A	PENDIMETHALIN	4.00 E	2.00 LB/AC	3LF	40	88	0	88	100	100	100	57	19	
21B	BENTAZON	4.00 E	0.75 LB/AC	3LF										
22A	PENDIMETHALIN	4.00 E	1.50 LB/AC	3LF	90	100	0	95	100	100	100	77	20	
22B	ATRAZINE	4.00 L	1.60 LB/AC	3LF										
23	SD 50093	80.00 WP	2.00 LB/AC	EP	28	82	0	90	98	95	78	24	20	
24	SD 50093	4.00 L	2.00 LB/AC	EP	50	80	0	90	80	100	98	46	20	
25	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100	78	20	
LSD(05):					20	8	NS	13	13	22	18	20	NS	

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LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 10, 1978
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.8 C.M.: 3.4%
 DATE TREATED: MAY 10, 1978 PRE
 MAY 22, 1978 SPIKE
 MAY 25, 1978 3LF
 JUNE 2, 1978 EP
 JUNE 14, 1978 MP POD

TABLE 9. Corn No-Till in Killed Fescue Sod.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 26, 1978-----						---OCT. 1---	
					GPAS	BRLE	CRIN	SOKI	GIFI	RRPW	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	85	95	0	100	82	88	140	21
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
1C	SURFACTANT	0.0 WA	0.50 %	PRE								
2A	SIMAZINE	4.00 L	2.00 LB/AC	PRE	85	90	0	95	78	95	112	19
2B	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
2C	SURFACTANT	0.0 WA	0.50 %	PRE								
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	70	90	8	82	70	82	79	20
3B	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
3C	SURFACTANT	0.0 WA	0.50 %	PRE								
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	65	88	0	100	62	88	110	19
4B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
5A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	85	90	8	100	78	85	133	15
5B	SIMAZINE	4.00 L	1.50 LB/AC	PRE								
5C	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
5D	SURFACTANT	0.0 WA	0.50 %	PRE								
6A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	88	92	0	100	85	88	146	19
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
7A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	95	95	5	100	92	92	132	18
7B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE								
7C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
8A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	88	92	0	100	82	85	142	17
8B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
8C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
9A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	90	95	10	100	85	95	121	21
9B	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
9C	SURFACTANT	0.0 WA	0.50 %	PRE								
10A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	85	90	0	100	85	85	132	18
10B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
11A	METALACHLOR	6.00 E	2.00 LB/AC	PPE	90	95	0	100	90	92	124	22
11B	ATRAZINE	4.00 L	1.60 LB/AC	PRE								
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
11D	SURFACTANT	0.0 WA	0.50 %	PRE								
12A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	82	90	0	100	78	88	134	19
12B	ATRAZINE	4.00 L	1.20 LB/AC	PRE								
12C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								

TABLE 9. Corn No-Till in Killed Fescue Sod (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 26, 1978 -----						---OCT. 1---	
					GRAS	BRLE	CRIN	SQKI	GIFI	BRPW	YLD	POP
13A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	80	92	0	100	78	88	128	21
13B	CYANAZINE	4.00 L	2.00 LB/AC	PRE								
13C	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
13D	SURFACTANT	0.0 WA	0.50 %	PRE								
14A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	78	92	0	100	72	90	133	19
14B	CYANAZINE	4.00 L	2.00 LB/AC	PEE								
14C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
15A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	80	95	0	100	78	92	134	19
15B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE								
15C	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
15D	SURFACTANT	0.0 WA	0.50 %	PRE								
16A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	90	92	0	100	88	88	139	21
16B	SIMAZINE	4.00 L	1.60 LB/AC	PRE								
16C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
17A	R-40244	2.00 E	0.50 LB/AC	PRE	58	88	0	100	52	85	91	15
17B	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
17C	SURFACTANT	0.0 WA	0.50 %	PRE								
18A	R-40244	2.00 E	1.00 LB/AC	PRE	60	90	0	100	55	85	108	19
18B	PARAQUAT	2.00 E	0.25 LB/AC	PRE								
18C	SURFACTANT	0.0 WA	0.50 %	PRE								
19	R-40244	2.00 E	2.00 LB/AC	PRE	100	100	0	88	100	100	54	12
20A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	62	90	0	100	60	85	127	24
20B	ATRAZINE	4.00 L	1.60 LB/AC	2WK								
20C	PARAQUAT	2.00 E	0.25 LB/AC	2WK								
20D	SURFACTANT	0.0 WA	0.50 %	2WK								
21A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	62	90	0	100	55	82	127	20
21B	SIMAZINE	4.00 L	1.60 LB/AC	2WK								
21C	PARAQUAT	2.00 E	0.25 LB/AC	2WK								
21D	SURFACTANT	0.0 WA	0.50 %	2WK								
22A	PENDIMETHALIN	4.00 E	1.50 LB/AC	1WK	72	90	0	100	65	85	143	22
22B	ATRAZINE	4.00 L	1.60 LB/AC	1WK								
22C	PARAQUAT	2.00 E	0.25 LB/AC	1WK								
22D	SURFACTANT	0.0 WA	0.50 %	1WK								
23A	PENDIMETHALIN	4.00 E	1.50 LB/AC	POP	88	92	12	100	80	90	109	16
23B	ATRAZINE	4.00 L	1.60 LB/AC	POP								
23C	PARAQUAT	2.00 E	0.25 LB/AC	POP								
23D	SURFACTANT	0.0 WA	0.50 %	POP								

TABLE 10. Corn No-Till Stalkland.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1978 -----					--OCT. 9 --	
					GRAS	BRLE	CRIN	GIFI	RRPW	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	55	80	0	45	72	67	22
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
1C	SURFACTANT	0.0 WA	0.50 %	PRE							
2A	SIMAZINE	4.00 L	2.00 LB/AC	PRE	68	80	0	62	72	77	22
2B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
2C	SURFACTANT	0.0 WA	0.50 %	PRE							
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	50	58	0	45	50	53	22
3B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
3C	SURFACTANT	0.0 WA	0.50 %	PRE							
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	62	52	0	60	52	55	21
4B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
5A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	72	88	0	65	78	97	22
5B	SIMAZINE	4.00 L	1.50 LB/AC	PRE							
5C	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
5D	SURFACTANT	0.0 WA	0.50 %	PRE							
6A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	70	85	0	68	80	92	22
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
7A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	90	90	0	85	85	130	24
7B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE							
7C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
8A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	68	90	0	65	85	102	23
8B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
8C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
9A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	72	88	0	72	85	92	23
9B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
9C	SURFACTANT	0.0 WA	0.50 %	PRE							
10A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	72	90	0	230	82	93	23
10B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
11A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	70	82	0	70	78	80	23
11B	ATRAZINE	4.00 L	1.60 LB/AC	PRE							
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
11D	SURFACTANT	0.0 WA	0.50 %	PRE							
12A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	70	85	0	68	80	86	22
12B	ATRAZINE	4.00 L	1.20 LB/AC	PRE							
12C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							

TABLE 10. Corn No-Till Stalkland (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1978 -----					--OCT. 9 --	
					GRAS	BRLE	CRIN	GIFT	RRPW	YLD	POP
13A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	68	72	0	60	68	71	22
13B	CYANAZINE	4.00 L	2.00 LB/AC	PRE							
13C	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
13D	SURFACTANT	0.0 WA	0.50 %	PRE							
14A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	78	58	0	72	52	103	23
14B	CYANAZINE	4.00 L	2.00 LB/AC	PEE							
14C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
15A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	88	90	0	78	80	116	24
15B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE							
15C	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
15D	SURFACTANT	0.0 WA	0.50 %	PRE							
16A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	75	85	0	75	80	99	23
16B	SIMAZINE	4.00 L	1.60 LB/AC	PRE							
16C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
17A	R-40244	2.00 E	0.50 LB/AC	PRE	45	72	0	38	72	36	22
17B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
17C	SURFACTANT	0.0 WA	0.50 %	PRE							
18A	R-40244	2.00 E	1.00 LB/AC	PRE	65	82	0	58	72	74	21
18B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
18C	SUPFACTANT	0.0 WA	0.50 %	PRE							
19	R-40244	2.00 E	2.00 LB/AC	PRE	65	85	0	65	78	77	21
20A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	70	88	0	65	80	75	21
20B	ATRAZINE	4.00 L	1.60 LB/AC	2WK							
20C	PARAQUAT	2.00 E	0.25 LB/AC	2WK							
20D	SURFACTANT	0.0 WA	0.50 %	2WK							
21A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	72	75	0	68	75	99	23
21B	SIMAZINE	4.00 L	1.60 LB/AC	2WK							
21C	PARAQUAT	2.00 E	0.25 LB/AC	2WK							
21D	SURFACTANT	0.0 WA	0.50 %	2WK							
22A	PENDIMETHALIN	4.00 E	1.50 LB/AC	1WK	75	85	0	75	80	96	22
22B	ATRAZINE	4.00 L	1.60 LB/AC	1WK							
22C	PARAQUAT	2.00 E	0.25 LB/AC	1WK							
22D	SURFACTANT	0.0 WA	0.50 %	1WK							
23A	PENDIMETHALIN	4.00 E	1.50 LB/AC	POP	78	88	0	75	82	117	23
23B	ATRAZINE	4.00 L	1.60 LB/AC	POP							
23C	PARAQUAT	2.00 E	0.25 LB/AC	POP							
23D	SURFACTANT	0.0 WA	0.50 %	POP							

TABLE 11. Corn No-Till Stalkland Supplement

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1978 -----					--OCT. 5 --	
					GRAS	BRLE	CRIN	GIEI	RRPW	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	62	70	0	58	62	45	22
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
1C	SURFACTANT	0.0 WA	0.50 %	PRE							
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	48	32	0	42	25	58	23
2B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
3A	METALACHLOR	6.00 E	2.50 LB/AC	PRE	70	30	0	68	25	54	23
3B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
4A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	75	62	0	70	60	50	24
4B	ATRAZINE	4.00 L	1.60 LB/AC	PRE							
4C	PARAQUAT	2.00 E	0.25 LB/AC	PRE							
4D	SURFACTANT	0.0 WA	0.50 %	PRE							
5A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	78	78	0	78	72	66	24
5B	ATRAZINE	4.00 L	1.20 LB/AC	PRE							
5C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
6A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	70	68	0	70	65	55	25
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
7A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	75	80	0	75	78	89	24
7B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE							
7C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
8A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	72	75	0	70	72	76	25
8B	ALACHLOR	4.00 E	2.50 LB/AC	PRE							
8C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
9A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	72	78	0	72	78	50	24
9B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
9C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
10A	PENDIMETHALIN	4.00 E	1.50 LB/AC	1WK	70	68	0	65	62	62	23
10B	ATRAZINE	4.00 L	1.00 LB/AC	1WK							
10C	PARAQUAT	2.00 E	0.25 LB/AC	1WK							
10D	SURFACTANT	0.0 WA	0.50 %	1WK							
11A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	62	18	0	58	12	31	22
11B	PARAQUAT	2.00 E	0.25 LB/AC	2WK							
11C	SURFACTANT	0.0 WA	0.50 %	2WK							
12A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	70	85	0	68	78	59	24
12B	ATRAZINE	4.00 L	1.60 LB/AC	2WK							
12C	GLYPOSATE	4.00 E	2.00 LB/AC	2WK							

TABLE 11. Corn No-Till Stalkland Supplement (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1978-----					--OCT. 5--	
					GRAS	BBLE	CRIN	GIET	RRPW	YLD.	POP.
13A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	58	52	0	58	45	66	24
13B	SIMAZINE	4.00 L	1.60 LB/AC	2WK							
13C	GLYPOSATE	4.00 E	2.00 LB/AC	2WK							
14A	SD 50093	80.00 WP	3.00 LB/AC	PRE	70	72	0	62	68	79	24
14B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
15A	SD 50093	4.00 L	3.00 LB/AC	PRE	72	72	0	72	72	60	24
15B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
16A	CP 55097	5.00 E	1.50 LB/AC	PRE	70	58	0	70	60	73	23
16B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
17A	CP 55097	5.00 E	2.00 LB/AC	PRE	68	65	0	68	58	73	24
17B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
18A	CP 55097	5.00 E	2.25 LB/AC	PRE	82	48	0	80	48	63	25
18B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
19A	CP 55097	5.00 E	2.50 LB/AC	PRE	70	75	0	68	70	73	24
19B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
20A	CP 55097	5.00 E	3.00 LB/AC	PRE	82	72	0	78	70	64	24
20B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
21A	CP 55097	5.00 E	1.50 LB/AC	PRE	65	65	0	65	60	79	24
21B	ATRAZINE	4.00 L	1.60 LB/AC	PRE							
21C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
22A	CP 55097	5.00 E	2.00 LB/AC	PRE	75	75	0	72	72	67	24
22B	ATRAZINE	4.00 L	1.60 LB/AC	PRE							
22C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
23A	SD 50093	4.00 L	3.00 LB/AC	PRE	62	48	0	58	45	62	23
23B	METALACHLOR	6.00 E	2.00 LB/AC	PRE							
23C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
24A	SD 50093	4.00 L	3.00 LB/AC	PRE	68	80	0	62	75	64	23
24B	ALACHLOR	4.00 E	2.00 LB/AC	PPE							
24C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE							
			LSD(05):		NS	25	NS	NS	26	22	NS

TABLE 11. Corn No-Till Stalkland Supplement (cont.)

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 20, 1978	DATE TREATED:	MAY 1, 1978 2 WEEK
VARIETY:	PIONEER 3369A		MAY 8, 1978 1 WEEK
			MAY 18, 1978 PRF

TABLE 12. Corn Yellow Nutsedge.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY 31 - YENS	---JUNE 2 CRIN	--OCT. 2 - YENS	POP.	YLD.	POP.
1A	EPTC + R-25788	6.70 E	4.00 LB/AC	PPI	82	0	72	0	85	23
1B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
2A	VERNOLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	0	75	0	72	22
2B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
3A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	0	88	0	84	22
3B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
4	BENTAZON	4.00 E	1.00 LB/AC	EP	82	8	82	0	58	21
5	BENTAZON	4.00 E	2.00 LB/AC	LP	88	5	80	5	63	20
6A	BENTAZON	4.00 E	0.75 LB/AC	EP	92	8	70	10	52	20
6B	BENTAZON	4.00 E	0.75 LB/AC	LP						
7A	ALACHLOR	4.00 E	3.10 LB/AC	PPI	88	0	80	0	86	23
7B	ATRAZINE	4.00 L	1.90 LB/AC	PPI						
8A	ALACHLOR PKG MIX	2.50 L	3.10 LB/AC	PPI	88	0	80	0	80	22
8B	WITH ATRAZINE	1.50	1.90	PPI						
9A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	92	0	85	0	81	22
9B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
10A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	95	0	85	0	73	22
10B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
11A	METALACHLOR	6.00 E	2.50 LB/AC	PRE	98	0	92	0	85	22
11B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
12A	METALACHLOR	6.00 F	3.00 LB/AC	PFE	100	0	100	0	76	22
12B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
13A	CP 55097	5.00 E	2.50 LB/AC	PRE	85	0	80	0	93	22
13B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
14A	CP 55097	5.00 E	3.00 LB/AC	PRE	90	0	80	0	68	20
14B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
15A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	85	0	70	0	85	21
15B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
16A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	88	0	82	0	80	22
16B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
17A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	88	0	78	0	87	22
17B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						

TABLE 12. Corn Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY 31 - YENS	---JUNE 2 CRIN	--OCT. 2 - YLD	POP		
18A	ALACHLOR	4.00 E	4.00 LB/AC	PPI	92	0	82	0	91	21
18B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
19A	METALACHLOR	6.00 E	1.50 LB/AC	PPI	92	0	82	0	101	23
19B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
20A	METALACHLOR	6.00 F	2.00 LB/AC	PPI	92	0	90	0	86	23
20B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
21A	METALACHLOR	6.00 E	2.25 LB/AC	PPI	100	0	95	0	83	21
21B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
22A	METALACHLOR	6.00 E	2.50 LB/AC	PPI	95	0	92	0	93	21
22B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
23A	METALACHLOR	6.00 E	3.00 LB/AC	PPI	100	0	95	0	84	21
23B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
24A	CP 55097	5.00 E	1.50 LB/AC	PPI	78	0	68	0	72	22
24B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
25A	CP 55097	5.00 E	2.00 LB/AC	PPI	85	0	75	0	74	21
25B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
26A	CP 55097	5.00 E	2.25 LB/AC	PPI	82	0	68	0	76	21
26B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
27A	CP 55097	5.00 E	2.50 LB/AC	PPI	92	0	82	0	91	23
27B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
28A	CP 55097	5.00 F	3.00 LB/AC	PPI	90	0	72	0	81	23
28B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
29A	DPX 4129	80.00 W	0.50 LB/AC	PRE	82	22	60	8	59	20
29B	ATRAZINE	4.00 L	2.00 LB/AC	PRE						
30	DPX 4129	80.00 W	0.25 LB/AC	PPI	82	25	70	8	67	20
31	DPX 4129	80.00 W	0.50 LB/AC	PPI	85	10	75	10	58	23
32	DPX 4129	80.00 W	1.00 LB/AC	PPI	75	25	68	18	38	21
33A	DPX 4129	80.00 W	0.25 LB/AC	PPI	78	8	65	5	56	22
33B	ATRAZINE	4.00 L	2.00 LB/AC	PPI						
34A	DPX 4129	80.00 W	0.50 LB/AC	PPI	90	32	80	15	56	21
34B	ATRAZINE	4.00 L	2.00 LB/AC	PPI						

TABLE 12. Corn Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY YENS	31 - CRIN	---JUNE 2 YENS	CRIN	--OCT. 2 YLD	POP
35	DPX 4129	80.00 W	0.13 LB/AC	P12	85	18	75	15	45	20
36A	DPX 4129	80.00 W	0.13 LB/AC	P12	88	12	85	15	46	21
36B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	P12						
37	DPX 4129	80.00 W	0.25 LB/AC	P12	85	22	80	15	27	20
38A	DPX 4129	80.00 W	0.25 LB/AC	P12	88	25	78	30	38	20
38B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	P12						
39	DPX 4129	80.00 W	0.50 LB/AC	P12	62	0	58	0	51	21
40A	DPX 4129	80.00 W	0.50 LB/AC	P12	88	18	82	12	43	21
40B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	P12						
41	DPX 4129	80.00 W	0.13 LB/AC	P18	72	28	72	12	47	21
42A	DPX 4129	80.00 W	0.13 LB/AC	P18	82	18	78	20	43	21
42B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	P18						
43	DPX 4129	80.00 W	0.25 LB/AC	P18	75	28	72	18	48	21
44A	DPX 4129	80.00 W	0.25 LB/AC	P18	80	55	75	38	33	22
44B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	P18						
45	DPX 4129	80.00 W	0.50 LB/AC	P18	72	40	68	30	40	21
46A	DPX 4129	80.00 W	0.50 LB/AC	P18	70	38	68	18	57	21
46B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	P18						
47A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	82	5	82	0	57	21
47B	DPX 4129	80.00 W	0.13 LB/AC	P12						
48A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	92	0	90	0	78	19
48B	DPX 4129	80.00 W	0.25 LB/AC	P12						
49A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	92	2	92	2	69	22
49B	DPX 4129	80.00 W	0.50 LB/AC	P12						
50A	DPX 4129	80.00 W	0.13 LB/AC	P12	88	32	80	28	22	20
50B	BENTAZON	4.00 E	0.50 LB/AC	P12						
51A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	78	12	80	10	70	21
51B	DPX 4129	80.00 W	0.13 LB/AC	P18						
52A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	75	10	72	5	72	23
52B	DPX 4129	80.00 W	0.25 LB/AC	P18						

TABLE 12. Corn Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY 31 - YENS	---JUNE 2 CRIN	--OCT. 2 - YENS	CRIN	YLD.	POP.
53A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	75	30	80	20	63	21
53B	DPX 4129	80.00 W	0.50 LB/AC	P18						
54	CHECK (CULTIVATED)	0.0 CK	0.0		100	0	100	0	74	23
				LSD(05):	11	19	16	17	29	NS

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 3, 1978
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.4 O.M.: 2.6%
 DATE TREATED: MAY 3, 1978 PPI PRE
 JUNE 5, 1978 EP P12
 JUNE 13, 1978 P18

TABLE 13. Corn Yellow Nutsedge Supplement.

Chemical	Rate	Time	6/30		7/17		Average Yield
			Crop Injury	Control	Crop Injury	Control	
1. DPX-4129	.25 lb/A	Emergence	.75	8.50	0	6.50	120.6
2. DPX-4129	.50 lb/A	Emergence	1.00	8.00	0	4.50	125.0
3. DPX-4129	.75 lb/A	Emergence	1.50	7.00	0	4.00	113.3
4. DPX-4129	1.00 lb/A	Emergence	2.25	7.75	1.00	4.75	102.5
5. DPX-4129	.25 lb/A	5 Day	0	6.50	0	5.25	125.6
6. DPX-4129	.50 lb/A	5 Day	1.00	8.00	.50	7.75	106.8
7. DPX-4129	.75 lb/A	5 Day	1.13	8.50	0	6.50	123.1
8. DPX-4129	1.00 lb/A	5 Day	2.75	7.00	0	2.75	108.5
9. DPX-4129	.25 lb/A	10 Day	0.25	5.00	0	5.00	129.6
10. DPX-4129	.50 lb/A	10 Day	1.50	4.50	0	4.75	128.6
11. DPX-4129	.75 lb/A	10 Day	3.00	4.25	0	4.25	104.6
12. DPX-4129	1.00 lb/A	10 Day	3.00	4.75	0	5.00	107.4
13. DPX-4129	.25 lb/A	15 Day	5.00	3.50	0.25	4.00	97.5
14. DPX-4129	.50 lb/A	15 Day	5.00	4.00	1.50	1.00	103.9
15. DPX-4129	.75 lb/A	15 Day	5.00	3.25	2.25	1.75	73.8
16. DPX-4129	1.00 lb/A	15 Day	5.50	3.00	2.75	5.00	71.4
17. DPX-4129	.25 lb/A	20 Day	-	-	3.25	1.75	95.1
18. DPX-4129	.50 lb/A	20 Day	-	-	5.00	0	77.7
19. DPX-4129	.75 lb/A	20 Day	-	-	5.75	2.75	78.5
20. DPX-4129	1.00 lb/A	20 Day	-	-	6.25	0.50	67.4
21. Weedy Check			0.25	2.75	0	0.50	121.3
22. Hand Weeded Check			0.25	9.00	0	10.00	122.5

Location: Spindletop Farm

Date Planted: May 27, 1978

Variety: Pioneer 3369 A

TABLE 14. Soybean Preemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978-----				
					GRAS	BRLE	CRIN	GIFT	CCCB
1	CHLORAMIBEN	2.00 E	3.00 LB/AC	PRE	42	48	0	35	40
2	H-22234	4.00 E	2.50 LB/AC	PRE	95	62	5	92	38
3	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	72	0	100	68
4	METALACHLOR	6.00 E	2.50 LB/AC	PRE	98	68	0	98	65
5	LINURON	50.00 WP	1.00 LB/AC	PRE	95	82	0	98	82
6	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE	90	80	0	85	90
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	80	0	100	98
7B	LINURON	4.00 L	1.00 LB/AC	PRE					
8A	ALACHLOR PKG MIX	2.90 L	2.60 LB/AC	PRE	100	85	5	100	95
8B	WITH LINURON	1.10	0.95	PRE					
9A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	82	0	100	95
9B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE					
10A	ALACHLOR	4.00 E	2.40 LB/AC	PRE	100	92	0	100	95
10B	METRIBUZIN 1 OR 2	50.00 WP	0.45 LB/AC	PRE					
11A	ALACHLOR PKG MIX	3.20 E	2.40 LB/AC	PRE	100	80	0	100	88
11B	WITH METRIBUZIN	0.60	0.45						
12A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	0	100	90
12B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
12C	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
13A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	90	0	100	92
13B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
13C	NAPTALAM	3.00 E	4.50 LB/AC	PRE					
14A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	82	12	100	90
14B	LINURON	4.00 L	0.75 LB/AC	PRE					
14C	NAPTALAM	3.00 E	4.50 LB/AC	PRE					
15A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	100	90	8	100	95
15B	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE					
16A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	100	82	0	100	75
16B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE					
17A	METALACHLOR	6.00 E	2.50 LB/AC	PRE	100	85	2	100	85
17B	LINURON	4.00 L	1.00 LB/AC	PRE					

TABLE 14. Soybean Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978-----				
					GRAS	BELE	CRIN	GIFT	COCB
18A	H-22234	4.00 E	2.00 LB/AC	PRE	100	85	10	100	98
18B	LINURON	50.00 WP	1.00 LB/AC	PRE					
19A	H-22234	4.00 E	2.00 LB/AC	PRE	100	82	0	100	85
19B	LINURON	4.00 L	1.00 LB/AC	PRE					
20A	H-22234	4.00 E	2.00 LB/AC	PRE	100	72	0	100	85
20B	METRIBUZIN 1	50.00 WP	0.50 LB/AC	PRE					
21A	H-22234	4.00 E	2.00 LB/AC	PRE	100	85	0	100	90
21B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE					
22A	H-22234	4.00 E	2.00 LB/AC	PRE	98	85	0	92	98
22B	METRIBUZIN 2	50.00 WP	0.50 LB/AC	PRE					
23A	H-22234	4.00 E	2.00 LB/AC	PRE	100	82	0	100	82
23B	DPX 2504-B	4.00 L	0.50 LB/AC	PRE					
24A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	98	82	10	100	92
24B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
25A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	98	90	0	98	95
25B	METALACHLOR	6.00 E	2.00 LB/AC	PRE					
26A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	98	90	0	100	95
26B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE					
27A	LINURON	4.00 L	1.00 LB/AC	PRE	100	78	0	100	78
27B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE					
28A	LINURON	75.00 DF	1.00 LB/AC	PRE	100	85	10	100	98
28B	METALACHLOR	6.00 E	2.00 LB/AC	PRE					
29	RH 9769	2.00 E	0.50 LB/AC	PRE	88	82	35	85	75
30	RH 9769	2.00 E	1.00 LB/AC	PRE	100	88	18	100	85
31	RH 9769	2.00 E	2.00 LB/AC	PRE	100	100	48	100	100
32	RH-8817	2.00 E	0.50 LB/AC	PRE	92	88	18	88	85
33	RH-8817	2.00 E	1.00 LB/AC	PRE	100	100	50	100	100
34	RH 2915	2.00 E	0.38 LB/AC	PRE	100	88	32	100	85
35	RH 2915	2.00 E	0.50 LB/AC	PRE	100	90	70	100	95

TABLE 14. Soybean Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978 -----				
					GRAS	BRLE	CRIN	GIFT	COCB
36A	RH 2915	2.00 E	0.38 LB/AC	PRE	100	90	58	100	95
36B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
37A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	100	90	52	100	88
37B	RH 2915	2.00 E	0.38 LB/AC	PRE					
38A	RH 2915	2.00 E	0.38 LB/AC	PRE	95	90	52	95	90
38B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE					
39	RH 6201	2.00 E	1.00 LB/AC	PRE	92	58	0	95	32
40	RH 6201	2.00 E	2.00 LB/AC	PRE	92	70	0	88	45
41A	CHLORAMIBEN	2.00 E	2.50 LB/AC	PRE	100	65	0	100	42
41B	METALACHLOR	6.00 E	2.50 LB/AC	PRE					
42A	CHLORAMIBEN	2.00 E	2.50 LB/AC	PRE	100	70	0	100	50
42B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
43A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE	90	82	0	80	75
43B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE					
44A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE	95	88	0	92	92
44B	METRIBUZIN 1	50.00 WP	0.50 LB/AC	PRE					
45	GCP 6305	4.00 E	2.00 LB/AC	PRE	100	42	8	100	32
46	GCP 6305	4.00 E	4.00 LB/AC	PRE	100	78	20	100	52
47	AC 260784	4.00 E	3.50 LB/AC	PRE	98	52	0	100	32
48	AC 260784	4.00 E	4.00 LB/AC	PRE	100	72	0	100	50
49A	AC 260784	4.00 E	3.50 LB/AC	PRE	98	82	5	100	85
49B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
50A	AC 260784	4.00 E	4.00 LB/AC	PRE	100	82	0	100	90
50B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
51A	AC 260784	4.00 E	3.50 LB/AC	PRE	100	82	5	100	98
51B	LINURON	75.00 DF	1.00 LB/AC	PRE					
52A	AC 260784	4.00 E	4.00 LB/AC	PRE	92	85	15	100	85
52B	LINURON	75.00 DF	1.00 LB/AC	PRE					
53A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	100	88	25	100	90
53B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					

TABLE 14. Soybean Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978-----				
					GRAS	BRLE	GRIN	GIFT	COCB
54A	CYANAZINE	4.00 L	4.00 LB/AC	PRE	100	100	72	100	100
54B	ALACHLOR	4.00 E	4.00 LB/AC	PRE					
55	BIFENOX	4.00 F	2.00 LB/AC	PRE	80	68	32	60	60
56	BIFENOX	80.00 WP	2.00 LB/AC	PRE	75	75	35	58	72
57A	BIFENOX	80.00 WP	2.00 LB/AC	PRE	98	82	28	98	70
57B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
58A	BIFENOX	80.00 WP	2.00 LB/AC	PRE	100	80	32	100	68
58B	METALACHLOR	6.00 E	2.00 LB/AC	PRE					
59A	BIFENOX	80.00 WP	2.00 LB/AC	PRE	80	80	40	72	68
59B	DRYZALIN	75.00 WP	1.00 LB/AC	PRE					
60A	DRYZALIN	4.00 AS	0.50 LB/AC	PRE	85	88	0	68	85
60B	SONALAN	3.00 E	0.25 LB/AC	PRE					
60C	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
61A	DRYZALIN	4.00 AS	0.38 LB/AC	PRE	92	82	0	85	72
61B	SONALAN	3.00 E	0.38 LB/AC	PRE					
61C	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
62A	DRYZALIN	4.00 AS	0.50 LB/AC	PRE	92	85	18	92	75
62B	SONALAN	3.00 E	0.50 LB/AC	PRE					
62C	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE					
63A	DRYZALIN	4.00 AS	0.75 LB/AC	PRE	98	88	0	95	90
63B	METRIBUZIN 1 OR 2	50.00 WP	0.38 LB/AC	PRE					
64	CP 55097	5.00 E	2.00 LB/AC	PRE	100	78	5	100	70
65	CP 55097	5.00 E	2.50 LB/AC	PRE	100	80	8	100	82
66	CP 55097	5.00 F	3.00 LB/AC	PRE	98	80	12	100	80
67A	CP 55097	5.00 E	2.50 LB/AC	PRE	98	85	12	100	100
67B	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE					
68A	CP 55097	5.00 E	2.50 LB/AC	PRE	100	90	22	100	100
68B	NAPTALAM	3.00 E	4.50 LB/AC	PRE					
69A	CP 55097	5.00 E	2.50 LB/AC	PRE	100	88	25	100	98
69B	LINURON	4.00 L	1.00 LB/AC	PRE					
70	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100
				LSD(05):	9	13	18	12	20

TABLE 14. Soybean Preemergence (cont.)

LOCATION: SPINDLETOP FARM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.7 O.M.: 3.6%
DATE PLANTED: MAY 26, 1978 DATE TREATED: MAY 26, 1978 PRE
VARIETY: WILLIAMS

TABLE 15. Soybean Preplant Incorporated.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 29, 1978-----									
					GRAS	BRLE	CRIN	GIEI	RRPW	JINE	COQB	VELE	COLQ	
1	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	98	38	0	85	88	15	15	48	88	
2	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	90	20	0	90	100	12	10	35	82	
3	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	98	30	0	98	100	10	10	78	62	
4	VERNOLATE	7.00 E	2.50 LB/AC	PPI	92	60	20	92	100	50	25	100	100	
5	DINITROMINE	2.00 E	0.50 LB/AC	PPI	85	45	0	75	100	10	18	32	100	
6	US3 3153	50.00 WP	0.50 LB/AC	PPI	92	30	0	78	100	12	15	48	80	
7	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PPI	75	70	0	55	100	45	30	100	100	
8	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	98	58	0	98	100	32	20	62	98	
9A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	98	82	5	100	100	88	68	100	100	
9B	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE										
10A	PENDIMETHALIN	4.00 E	1.25 LB/AC	PPI	98	68	30	98	100	40	30	100	100	
10B	VERNOLATE	7.00 E	2.00 LB/AC	PPI										
11A	PENDIMETHALIN	4.00 E	1.25 LB/AC	PPI	100	70	0	100	100	60	50	100	100	
11B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE										
12A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	98	72	0	100	100	60	62	100	100	
12B	METRIBUZIN 1 OR 2	50.00 WP	0.38 LB/AC	PPI										
13A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	100	75	0	100	100	82	78	100	100	
13B	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE										
14A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	98	82	0	95	95	60	60	100	100	
14B	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PPI										
15A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	98	68	0	98	100	20	48	50	100	
15B	LINURON	4.00 L	1.00 LB/AC	PRE										
16A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	95	62	8	92	92	55	28	85	92	
16B	RH 2915	2.00 E	0.50 LB/AC	PPI										
17A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	100	88	22	100	100	100	60	100	100	
17B	RH 2915	2.00 E	0.38 LB/AC	PRE										
18A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	98	78	0	98	100	68	78	100	100	
18B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PPI										
18C	METRIBUZIN 1	4.00 F	0.25 LB/AC	PRE										

TABLE 15. Soybean Preplant Incorporated (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 29, 1978-----								
					GRAS	BRLE	CRIN	GIEI	PRPW	JIWE	COCB	VELE	COLO
19A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	95	75	0	88	100	65	68	100	100
19B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PPI									
19C	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE									
20A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	98	82	12	98	100	85	80	95	100
20B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI									
20C	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE									
21A	CHLORAMIBEN	2.00 E	2.50 LB/AC	PPI	100	75	0	100	100	75	42	100	98
21B	METALACHLOR	6.00 E	2.50 LB/AC	PPI									
22A	CHLORAMIBEN	2.00 E	2.50 LB/AC	PPI	98	70	0	100	100	55	32	100	98
22B	ALACHLOR	4.00 E	2.50 LB/AC	PPI									
23A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI	92	85	0	88	100	75	78	100	100
23B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI									
24A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	95	58	0	95	100	22	28	82	100
24B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE									
25A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI	90	28	0	80	100	10	18	82	95
25B	PROFLURALIN	4.00 E	1.00 LB/AC	PPI									
26A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI	98	65	0	98	100	30	30	78	92
26B	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI									
27A	CHLORAMIBEN	2.00 E	1.50 LB/AC	PPI	92	45	0	98	100	22	45	78	78
27B	TRIFLURALIN	4.00 E	0.50 LB/AC	PPI									
27C	METRIBUZIN 1	4.00 F	0.25 LB/AC	PPI									
28A	CHLORAMIBEN	2.00 E	1.50 LB/AC	PPI	98	78	0	98	100	72	45	88	95
28B	ALACHLOR	4.00 E	2.00 LB/AC	PPI									
28C	METRIBUZIN 1	4.00 F	0.25 LB/AC	PPI									
29A	CHLORAMIBEN	2.00 E	1.50 LB/AC	PPI	100	78	0	100	100	30	52	100	100
29B	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI									
29C	METRIBUZIN 1	4.00 F	0.25 LB/AC	PPI									
30A	VERNOLATE	7.00 E	2.60 LB/AC	PPI	95	58	20	98	100	38	30	100	68
30B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI									
31A	VERNOLATE	7.00 E	2.00 LB/AC	PPI	100	48	5	100	100	18	10	100	95
31B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI									
32	AC 260784	4.00 E	3.50 LB/AC	PPI	95	15	0	88	90	12	25	35	10
33	AC 260784	4.00 E	4.00 LB/AC	PPI	98	10	0	90	65	15	12	75	25

TABLE 15. Soybean Preplant Incorporated (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 29, 1978-----									
					GRAS	BBLE	CRIN	GIEI	BBPW	JIWE	COCB	VELE	COLQ	
34A	AC 260784	4.00 E	4.00 LB/AC	PPI	92	78	0	85	100	48	42	82	100	
34B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PPI										
35	M-4287	6.00 E	2.00 LB/AC	PPI	92	10	0	98	55	10	10	10	35	
36	M-4287	6.00 E	3.00 LB/AC	PPI	55	32	0	78	98	28	35	35	52	
37A	M-4287	6.00 E	1.50 LB/AC	PPI	98	30	15	82	100	12	32	65	80	
37B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI										
38A	M-4287	6.00 E	2.00 LB/AC	PPI	95	25	12	88	82	15	12	28	82	
38B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI										
39	DINITROMINE+US33153	2.00 E	0.50 LB/AC	PPI	88	50	0	88	100	38	28	28	95	
40	DINITROMINE+US33153	2.00 E	0.75 LB/AC	PPI	92	70	8	95	100	28	18	68	98	
41A	DINITROMINE	2.00 E	0.25 LB/AC	PPI	90	55	0	88	100	30	28	40	78	
41B	US3 3153	50.00 WP	0.25 LB/AC	PPI										
42A	DINITROMINE	2.00 E	0.25 LB/AC	PPI	82	42	0	68	85	30	15	58	80	
42B	US3 3153	50.00 WP	0.50 LB/AC	PPI										
43A	DINITROMINE	2.00 E	0.38 LB/AC	PPI	100	60	0	100	68	35	18	70	70	
43B	US3 3153	50.00 WP	0.38 LB/AC	PPI										
44A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	95	55	12	98	100	25	35	62	75	
44B	US3 3153	50.00 WP	0.25 LB/AC	PPI										
45A	US3 3153	50.00 WP	0.50 LB/AC	PPI	92	65	5	90	95	42	52	100	98	
45B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI										
46A	US3 3153	50.00 WP	0.50 LB/AC	PPI	92	75	0	92	100	70	25	100	100	
46B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE										
47A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	88	80	5	80	82	55	58	100	100	
47B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI										
48A	DINITROMINE+US33153	2.00 E	0.50 LB/AC	PPI	90	78	0	85	100	65	45	100	100	
48B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE										
49A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	90	82	5	92	100	80	70	100	100	
49B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE										
50A	DINITROMINE+US33153	2.00 E	0.50 LB/AC	PPI	98	90	12	98	100	90	95	100	100	
50B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPI										

TABLE 16. Soybean Postemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978-----							
					GRAS	BRLE	CRIN	GIEI	JIWE	QOCB	VELE	COLQ
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	75	0	98	88	85	88	92
1B	BENTAZON	4.00 E	0.50 LB/AC	EP								
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	88	0	98	92	92	98	98
2B	BENTAZON	4.00 E	0.75 LB/AC	MP								
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	88	0	100	98	100	95	98
3B	BENTAZON	4.00 E	1.00 LB/AC	LP								
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	80	0	100	90	92	95	98
4B	BENTAZON	4.00 E	0.75 LB/AC	EP								
4C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP								
5A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	80	0	98	90	82	100	95
5B	BENTAZON	4.00 E	1.00 LB/AC	EP								
5C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP								
6A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	90	5	98	100	100	100	98
6B	BENTAZON	4.00 E	0.50 LB/AC	4TR								
6C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	4TR								
6D	BENTAZON	4.00 E	0.50 LB/AC	+5D								
6E	BENTAZON	4.00 E	0.50 LB/AC	+5D								
7A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	85	0	100	100	100	100	90
7B	BENTAZON	4.00 E	0.50 LB/AC	4TR								
7C	BENTAZON	4.00 E	0.50 LB/AC	+5D								
7D	BENTAZON	4.00 E	0.50 LB/AC	+5D								
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	75	0	100	100	100	100	72
8B	BENTAZON	4.00 E	0.75 LB/AC	4TR								
8C	BENTAZON	4.00 E	0.75 LB/AC	+5D								
9A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	90	0	98	100	100	98	100
9B	BENTAZON	4.00 E	0.75 LB/AC	4TR								
9C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	4TR								
9D	BENTAZON	4.00 E	0.75 LB/AC	+5D								
9E	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	+5D								
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	0	100	100	100	100	95
10B	BENTAZON	4.00 E	1.00 LB/AC	4TR								
10C	BENTAZON	4.00 E	1.00 LB/AC	+5D								
11A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	92	8	100	100	100	98	98
11B	BENTAZON	4.00 E	1.00 LB/AC	4TR								
11C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	4TR								
11D	BENTAZON	4.00 E	1.00 LB/AC	+5D								
11E	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	+5D								

TABLE 16. Soybean Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978-----								
					GRAS	BRLE	GRIN	GIEI	JIWE	COQB	VELE	COLQ	
12A	ALACHLOR	4.00 E	2.50 LB/AC	CR	98	85	30	100	90	88	98	95	
12B	DINOSB	3.00 E	2.25 LB/AC	CR									
12C	DINOSB	3.00 E	0.75 LB/AC	EP									
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	45	0	100	98	50	32	78	
13B	DINOSB	3.00 E	0.38 LB/AC	EP									
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	65	5	100	85	58	35	98	
14B	DINOSB	3.00 E	0.75 LB/AC	EP									
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	88	8	95	90	88	100	98	
15B	DINOSB	3.00 E	1.50 LB/AC	EP									
16A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	72	0	100	100	80	80	95	
16B	METRIBUZIN 1	4.00 F	0.25 LB/AC	POD									
17A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	78	0	100	100	85	85	92	
17B	METRIBUZIN 1	50.00 WP	0.25 LB/AC	POD									
18A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	80	2	100	100	85	95	98	
18B	METRIBUZIN 1 OR 2	50.00 WP	0.38 LB/AC	POD									
19A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	22	0	98	50	12	10	45	
19B	METRIBUZIN 1	4.00 F	0.38 LB/AC	POD									
20A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	78	92	0	100	100	95	95	100	
20B	METRIBUZIN 1	50.00 WP	0.38 LB/AC	POD									
20C	2,4-DB	2.00 E	0.25 LB/AC	POD									
21A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	90	5	100	98	95	90	100	
21B	METRIBUZIN 1	4.00 F	0.38 LB/AC	POD									
21C	2,4-DB	2.00 E	0.25 LB/AC	POD									
22A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	78	0	100	100	80	58	98	
22B	LINURON	4.00 L	0.50 LB/AC	POD									
22C	SURFACTANT	0.0 WA	0.50 %	POD									
23A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	88	0	100	95	92	90	100	
23B	LINURON	4.00 L	1.00 LB/AC	POD									
23C	SURFACTANT	0.0 WA	0.50 %	POD									
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	92	0	100	98	95	92	98	
24B	LINURON	4.00 L	0.50 LB/AC	POD									
24C	2,4-DB	2.00 E	0.25 LB/AC	POD									
24D	SURFACTANT	0.0 WA	0.50 %	POD									
25	RH-6201	2.00 LCS	0.50 LB/AC	MP	10	52	0	32	98	40	50	75	

TABLE 16. Soybean Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 28, 1978-----								
					GRAS	BRLE	CRIN	GIFI	JIWE	COCB	VELE	COLO	
26	RH-6201	2.00 LCS	0.50 LB/AC	LP	20	78	10	12	100	95	98	72	
27A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	58	0	100	100	30	15	98	
27B	RH-6201	2.00 LCS	0.25 LB/AC	MP									
28A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	68	5	100	98	50	22	100	
28B	RH-6201	2.00 LCS	0.38 LB/AC	MP									
29A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	88	0	100	100	95	65	100	
29B	RH-6201	2.00 LCS	0.50 LB/AC	LP									
30A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	80	85	0	78	98	92	100	98	
30B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PPI									
30C	METRIBUZIN 1	4.00 F	0.13 LB/AC	POD									
30D	2,4-DB	2.00 E	0.25 LB/AC	POD									
31A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	85	90	0	85	92	98	98	100	
31B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PPI									
31C	METRIBUZIN 1	4.00 F	0.25 LB/AC	POD									
31D	2,4-DB	2.00 E	0.25 LB/AC	POD									
32A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	90	90	0	85	92	98	100	100	
32B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PPI									
32C	METRIBUZIN 1	4.00 F	0.38 LB/AC	POD									
32D	2,4-DB	2.00 E	0.25 LB/AC	POD									
33A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	88	80	5	82	100	78	78	95	
33B	RH-6201	2.00 LCS	0.50 LB/AC	LP									
34A	USB 3153	50.00 WP	0.50 LB/AC	PPI	82	80	5	75	95	78	82	98	
34B	RH-6201	2.00 LCS	0.50 LB/AC	LP									
35A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	88	82	20	85	98	80	38	95	
35B	NAPTALAM	3.00 E	3.00 LB/AC	MP									
36A	USB 3153	50.00 WP	0.50 LB/AC	PPI	95	88	38	95	100	98	50	95	
36B	NAPTALAM	3.00 E	3.00 LB/AC	MP									
37A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	62	0	100	98	88	15	100	
37B	NAPTALAM	3.00 E	1.50 LB/AC	EP									
38A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	70	8	100	98	92	10	100	
38B	NAPTALAM	3.00 E	3.00 LB/AC	EP									
39A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	72	0	100	100	100	60	72	
39B	NAPTALAM	3.00 E	3.00 LB/AC	LP									

TABLE 16. Soybean Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEIH	-----JUNE 28, 1978 -----							
					GRAS	BBLE	CRIN	GIEI	JIWE	COQB	VELE	COLQ
40A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	75	0	100	100	98	28	95
40B	NAPTALAM	3.00 E	1.50 LB/AC	MP								
40C	NAPTALAM	3.00 F	1.50 LB/AC	10D								
41A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	85	10	100	98	90	90	98
41B	MBR-12325	2.00 S	0.13 LB/AC	LP								
41C	RH-6201	2.00 LCS	0.50 LB/AC	LP								
42	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100	100
				LSD(05):	12	13	10	11	10	21	25	13

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 22, 1978
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.7 O.M.: 3.6%
 DATE TREATED: MAY 22, 1978 PPI PRE
 MAY 30, 1978 CR
 JUNE 6, 1978 EP
 JUNE 9, 1978 MP
 JUNE 13, 1978 LP
 JUNE 14, 1978 PQD
 JUNE 16, 1978 4TR
 JUNE 21, 1978 +5D

TABLE 17. Soybean Postemergence Supplement.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 29, 1978-----						
					GRAS	BRLE	CRIN	GIEL	JIWE	COLQ	VELE
1A	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE	82	75	0	85	78	100	98
1B	HOE 23408	3.00 E	1.00 LB/AC	EP							
2A	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE	92	62	0	92	85	100	95
2B	HOE 23408+	2.36 E	1.00 LB/AC	EP							
3A	LINURON	75.00 DF	1.00 LB/AC	PRE	100	82	0	100	78	100	92
3B	HOE 23408+	2.36 E	1.00 LB/AC	EP							
4A	RH 2915	2.00 E	0.50 LB/AC	PRE	100	100	28	100	100	100	100
4B	HOE 23408+	2.36 E	1.00 LB/AC	EP							
5	HOE 23408+	2.36 E	1.00 LB/AC	EP	85	32	0	90	52	55	50
6	HOE 23408+	2.36 E	2.00 LB/AC	EP	68	10	0	75	70	55	78
7A	HOE 23408+	2.36 E	1.00 LB/AC	EP	82	58	0	80	65	78	82
7B	RH-6201	2.00 LCS	0.25 LB/AC	EP							
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	100	0	100	98	100	100
8B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE							
8C	NAPTALAM	3.00 E	3.00 LB/AC	MP							
9A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	98	0	100	98	100	100
9B	METRIBUZIN 1	4.00 F	0.38 LB/AC	PRE							
9C	NAPTALAM	3.00 E	1.50 LB/AC	MP							
9D	NAPTALAM	3.00 E	1.50 LB/AC	10D							
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	100	0	100	100	100	100
10B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE							
10C	NAPTALAM	3.00 E	1.50 LB/AC	MP							
11A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	100	0	100	100	100	100
11B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE							
11C	NAPTALAM	3.00 E	3.00 LB/AC	MP							
12A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	82	0	100	80	100	85
12B	BROMOXNYL	2.00 E	0.13 LB/AC	EP							
13A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	82	0	98	82	95	100
13B	BROMOXNYL	2.00 E	0.19 LB/AC	EP							
14A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	70	72	0	65	65	98	98
14B	BROMOXNYL	2.00 E	0.38 LB/AC	EP							
15A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	82	0	90	80	100	95
15B	BROMOXNYL	2.00 E	0.19 LB/AC	MP							

TABLE 17. Soybean Postemergence Supplement (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEIH	-----JUNE 29, 1978 -----							
					GRAS	BRLE	CRIN	GIEI	JIWE	COLQ	VELE	
16A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	82	0	90	75	100	100	
16B	BROMOXNYL	2.00 E	0.38 LB/AC	MP								
17A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	82	0	88	72	100	95	
17B	BROMOXNYL	2.00 E	0.38 LB/AC	LP								
18	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100	
			LSD(05):		21	23	3	NS	28	26	23	

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 26, 1978
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.7 O.M.: 3.6%
 DATE TREATED: MAY 26, 1978 PRE
 JUNE 9, 1978 EP
 JUNE 14, 1978 MP
 JUNE 23, 1978 LP
 JUNE 24, 1978 100

TABLE 18. Soybean No-Till in Wheat Stubble.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 17, 1978 -----					---AUG 8, 1978 -			11/6 YLD
					GRAS	BBLE	CRIN	GIEI	COLQ	GIEI	COLQ	CRIN	
1A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	47	90	0	47	90	33	90	0	19
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
1C	SURFACTANT	0.0 WA	0.50 %	PRE									
2A	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	23	87	0	23	87	20	80	0	21
2B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
2C	SURFACTANT	0.0 WA	0.50 %	PRE									
3A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	53	87	0	47	83	33	80	0	23
3B	ALACHLOR	4.00 E	2.50 LB/AC	PRE									
3C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
3D	SURFACTANT	0.0 WA	0.50 %	PRE									
4A	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	63	80	0	60	77	60	77	0	26
4B	ALACHLOR	4.00 E	2.50 LB/AC	PRE									
4C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
4D	SURFACTANT	0.0 WA	0.50 %	PRE									
5A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	40	90	0	30	90	23	83	0	21
5B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
6A	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	57	87	0	47	87	40	90	0	24
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
7A	METRIBUZIN 2	75.00 DF	0.50 LB/AC	PRE	70	73	0	67	73	60	70	0	31
7B	ALACHLOR	4.00 E	2.50 LB/AC	PRE									
7C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
8A	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	83	83	0	83	80	77	77	0	33
8B	ALACHLOR	4.00 E	2.50 LB/AC	PRE									
8C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
9A	LINURON	4.00 L	1.16 LB/AC	PRE	70	90	0	70	90	63	87	0	29
9B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
9C	SURFACTANT	0.0 WA	0.50 %	PRE									
10A	LINURON	4.00 L	0.80 LB/AC	PRE	77	90	0	70	90	67	87	0	31
10B	ALACHLOR	4.00 E	3.00 LB/AC	PRE									
10C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
10D	SURFACTANT	0.0 WA	0.50 %	PRE									
11A	LINURON	4.00 L	1.16 LB/AC	PRE	50	90	0	50	90	43	87	0	27
11B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
12A	LINURON	4.00 L	0.80 LB/AC	PRE	80	90	0	77	87	77	83	0	35
12B	ALACHLOR	4.00 E	3.00 LB/AC	PRE									
12C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									

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TABLE 18. Soybean No-Till in Wheat Stubble (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 17, 1978 -----					---AUG 8, 1978 ---			11/6 YLD
					GRAS	RRLE	CRIN	GIFI	COLQ	GIFI	COLQ	CRIN	
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	93	13	80	93	80	90	10	26
13B	DINOSEB	5.00 E	2.50 LB/AC	PRE									
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	63	87	0	67	87	63	77	0	29
14B	DINOSEB	5.00 E	2.50 LB/AC	PRE									
14C	CROP OIL	0.0 AD	4.00 QT/AC	PPE									
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	70	90	0	67	90	60	90	0	26
15B	DINOSEB	5.00 E	2.50 LB/AC	PRE									
15C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	PPE									
16A	RH 2915	2.00 E	0.50 LB/AC	PRE	63	90	7	63	90	60	80	3	28
16B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
16C	TRITON AG 98 SURFACT	0.0 WA	0.50 %	PRE									
17A	RH 2915	2.00 E	0.50 LB/AC	PRE	73	90	7	73	90	70	83	0	30
17B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
17C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
17D	TRITON AG 98 SURFACT	0.0 WA	0.50 %	PRE									
18A	RH 2915	2.00 E	0.50 LB/AC	PRE	80	87	0	80	87	73	77	0	27
18B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE									
18C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
18D	TRITON AG 98 SURFACT	0.0 WA	0.50 %	PRE									
19A	RH 2915	2.00 E	0.50 LB/AC	PRE	53	87	0	47	83	47	70	0	28
19B	GLYPOSATE	4.00 E	1.00 LB/AC	PRE									
20A	RH 2915	2.00 E	0.50 LB/AC	PRE	83	77	0	80	73	83	60	0	27
20B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
20C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE									
21A	RH 2915	2.00 E	0.50 LB/AC	PRE	83	77	0	83	73	77	53	0	27
21B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE									
21C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE									
22A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	80	90	7	77	90	77	90	3	34
22B	LINURON	4.00 L	0.75 LB/AC	PRE									
22C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
22D	SURFACTANT	0.0 WA	0.50 %	PRE									
23A	METALACHLOR	6.00 E	2.00 LB/AC	PRE	70	93	0	60	90	50	87	0	28
23B	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE									
23C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
23D	SURFACTANT	0.0 WA	0.50 %	PRE									
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	73	87	0	70	87	70	80	0	30
24B	LINURON	4.00 L	0.75 LB/AC	PRE									
24C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
24D	SURFACTANT	0.0 WA	0.50 %	PRE									

TABLE 18. Soybean No-Till in Wheat Stubble (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 17, 1978 -----					---AUG 8, 1978 -			11/6 YLD.
					GRAS	BRLE	CRIN	GIFI	COLQ	GIFI	COLQ	CRIN	
25A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	73	83	0	63	83	57	83	0	30
25B	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE									
25C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
25D	SURFACTANT	0.0 WA	0.50 %	PRE									
26A	CHLORPROPHAM	4.00 E	3.00 LB/AC	PRE	77	90	0	73	90	63	87	0	26
26B	ALACHLOR	4.00 E	3.00 LB/AC	PRE									
26C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
26D	SURFACTANT	0.0 WA	0.50 %	PRE									
27A	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE	53	77	0	50	73	47	67	0	23
27B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
27C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
27D	SURFACTANT	0.0 WA	0.50 %	PRE									
28A	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE	60	90	0	60	90	57	87	0	23
28B	METALACHLOR	6.00 E	2.00 LB/AC	PRE									
28C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
28D	SURFACTANT	0.0 WA	0.50 %	PRE									
29A	CHLORPROPHAM	4.00 E	3.00 LB/AC	PRE	80	87	7	77	87	77	83	0	28
29B	METALACHLOR	6.00 E	3.00 LB/AC	PRE									
29C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
29D	SURFACTANT	0.0 WA	0.50 %	PRE									
30A	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE	70	87	0	70	87	67	50	0	25
30B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE									
30C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
30D	SURFACTANT	0.0 WA	0.50 %	PRE									
31A	CHLORPROPHAM	4.00 E	3.00 LB/AC	PRE	67	90	0	67	83	67	80	0	27
31B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE									
31C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
31D	SURFACTANT	0.0 WA	0.50 %	PRE									
32A	CP 55097	5.00 E	2.00 LB/AC	PRE	90	90	0	90	87	83	80	0	32
32B	LINURON	50.00 WP	1.00 LB/AC	PRE									
32C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
33A	CP 55097	5.00 E	2.50 LB/AC	PRE	87	90	7	87	87	73	83	3	28
33B	LINURON	50.00 WP	1.00 LB/AC	PRE									
33C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
34A	CP 55097	5.00 E	2.00 LB/AC	PRE	73	87	10	77	83	70	80	7	25
34B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
34C	SURFACTANT	0.0 WA	0.50 %	PRE									

TABLE 18. Soybean No-Till in Wheat Stubble (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 17, 1978 -----					---AUG 8, 1978 ---			11/6 YLD.
					GRAS	BRLE	CRIN	GIEI	COLQ	GIEI	COLQ	CRIN	
35A	CP 55097	5.00 E	2.00 LB/AC	PRE	47	80	0	40	73	30	67	0	21
35B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
36A	CP 55097	5.00 E	2.50 LB/AC	PRE	73	83	0	67	80	53	77	0	27
36B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
37A	CP 55097	5.00 E	3.00 LB/AC	PRE	70	83	0	70	83	73	77	0	25
37B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
38A	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE	67	90	0	53	90	47	87	0	30
38B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE									
38C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
38D	SURFACTANT	0.0 WA	0.50 %	PRE									
39A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	87	77	0	87	73	83	70	0	27
39B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE									
39C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
40A	DRYZALIN	75.00 WP	1.00 LB/AC	PRE	43	90	0	43	90	30	83	0	19
40B	NAPTALAM	3.00 E	4.50 LB/AC	PRE									
40C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
40D	SURFACTANT	0.0 WA	0.50 %	PRE									
41A	H-22234	4.00 E	2.00 LB/AC	PRE	70	90	0	70	87	67	80	0	29
41B	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE									
41C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
41D	SURFACTANT	0.0 WA	0.50 %	PRE									
42A	CP 55097	5.00 E	2.50 LB/AC	PRE	63	87	0	57	87	53	83	0	30
42B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PRE									
42C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
43A	CP 55097	5.00 E	2.50 LB/AC	PPE	67	80	0	67	77	63	67	0	23
43B	METRIBUZIN 1	4.00 F	0.50 LB/AC	PPE									
43C	PARAQUAT	2.00 E	0.25 LB/AC	PPE									
43D	SURFACTANT	0.0 WA	0.50 %	PRE									
44A	RH 9769	2.00 E	1.00 LB/AC	PRE	60	60	0	60	60	60	57	0	30
44B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
44C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
45A	RH 9769	2.00 E	1.00 LB/AC	PRE	90	87	0	90	87	90	87	0	30
45B	ALACHLOR	4.00 E	2.00 LB/AC	PRE									
45C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
45D	SURFACTANT	0.0 WA	0.50 %	PRE									
46A	BIFENOX	4.00 F	2.00 LB/AC	PRE	77	80	0	73	77	77	73	0	25
46B	METALACHLOR	6.00 E	2.00 LB/AC	PRE									
46C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
46D	SURFACTANT	0.0 WA	0.50 %	PRE									

TABLE 18. Soybean No-Till in Wheat Stubble (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 17, 1978 -----					---AUG 8, 1978 ---			11/6 YLD
					GRAS	BRLE	CRIN	GIEI	COLQ	GIEI	COLQ	CRIN	
47A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	77	80	0	73	80	70	73	0	31
47B	DPX 2504-B	4.00 L	0.50 LB/AC	PRE									
47C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
48A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	63	87	0	63	87	60	83	0	25
48B	DPX 2504-B	4.00 L	0.50 LB/AC	PRE									
48C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
48D	SURFACTANT	0.0 WA	0.50 %	PRE									
49A	RH 9769	2.00 E	1.00 LB/AC	PRE	67	93	0	67	93	67	87	0	28
49B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
49C	SURFACTANT	0.0 WA	0.50 %	PRE									
50A	RH 9769	2.00 E	1.00 LB/AC	PRE	77	87	0	77	87	80	80	0	32
50B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
51A	RH 2915	2.00 E	1.00 LB/AC	PRE	77	80	10	73	80	63	67	0	24
51B	METALACHLOR	6.00 E	2.00 LB/AC	PRE									
51C	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
51D	SURFACTANT	0.0 WA	0.50 %	PRE									
52A	RH 2915	2.00 E	1.00 LB/AC	PRE	93	77	17	93	73	93	67	3	27
52B	METALACHLOR	6.00 E	2.00 LB/AC	PRE									
52C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
53A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	70	90	0	70	87	63	80	0	24
53B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
53C	SURFACTANT	0.0 WA	0.50 %	PRE									
53D	NAPTALAM	3.00 E	3.00 LB/AC	MP									
54A	CP 55097	5.00 E	2.50 LB/AC	PRE	80	80	0	80	73	80	60	0	27
54B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
54C	NAPTALAM	3.00 E	3.00 LB/AC	MP									
55A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	73	0	80	73	80	67	0	31
55B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
55C	BENTAZON	4.00 E	0.75 LB/AC	MP									
56A	METALACHLOR	6.00 E	2.50 LB/AC	PRE	87	83	0	87	83	83	77	0	33
56B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
56C	BENTAZON	4.00 E	0.75 LB/AC	MP									
57A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	73	80	0	73	77	67	73	0	28
57B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
57C	BENTAZON	4.00 E	0.75 LB/AC	MP									
58A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	73	83	0	60	83	47	83	0	29
58B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE									
58C	RH-6201	2.00 LCS	0.50 LB/AC	MP									

TABLE 18. Soybean No-Till in Wheat Stubble (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 17, 1978 -----					---AUG 8, 1978 -			11/6 YLD
					GRAS	BRLE	CRIN	GIEI	COLQ	GIEI	COLQ	CRIN	
59A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	70	90	10	67	90	60	87	7	25
59B	PARAQUAT	2.00 E	0.25 LB/AC	PRE									
59C	SURFACTANT	0.0 WA	0.50 %	PRE									
59D	RH-6201	2.00 LCS	0.50 LB/AC	MP									
60A	DRYZALIN	4.00 AS	1.00 LB/AC	PRE	70	77	0	70	73	70	67	0	29
60B	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE									
60C	RH-6201	2.00 LCS	0.50 LB/AC	MP									
LSD(05):					25	13	NS	27	14	29	21	NS	7

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 60 N,

60 P,

60 K

SOIL TYPE: MAURY SILT LOAM

PH: 6.7 C.M.: 4.2%

DATE PLANTED: JUNE 13, 1978

DATE TREATED: JUNE 13, 1978 PRE

VARIETY: WILLIAMS

JULY 18, 1978 MP

TABLE 19. Soybean Yellow Nutsedge.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY 16 - YENS	16 - CRIN	---JULY 1 YENS	CRIN	YLD
1	ALACHLOR	4.00 E	3.00 LB/AC	PPI	32	0	62	0	29
2	METALACHLOR	6.00 E	3.00 LB/AC	PPI	100	0	92	0	25
3	CP 55097	5.00 E	2.50 LB/AC	PPI	78	0	65	0	28
4	CP 55097	5.00 E	3.00 LB/AC	PPI	85	5	78	0	24
5	BENTAZON	4.00 E	0.75 LB/AC	EP	58	0	42	0	22
6A	BENTAZON	4.00 E	0.75 LB/AC	EP	92	0	82	0	22
6B	BENTAZON	4.00 E	0.75 LB/AC	LP					
7	VERNOLATE	7.00 E	3.00 LB/AC	PPI	80	0	55	0	19
8A	ALACHLOR	4.00 E	2.80 LB/AC	PRE	72	0	52	0	26
8B	METRIBUZIN 1 OR 2	50.00 WP	0.52 LB/AC	PPE					
9A	ALACHLOR PKG MIX	3.20 E	2.80 LB/AC	PRE	75	0	58	0	26
9B	WITH METRIBUZIN	0.60	0.52						
10A	ALACHLOR PKG MIX	3.20 E	2.80 LB/AC	PPI	80	0	60	0	26
10B	WITH METRIBUZIN	0.60	0.52						
11A	ALACHLOR	4.00 E	2.80 LB/AC	PPI	80	0	68	12	27
11B	METRIBUZIN 1 OR 2	50.00 WP	0.52 LB/AC	PPI					
12A	CHLORAMIBEN	2.00 E	2.50 LB/AC	PPI	92	0	85	0	29
12B	METALACHLOR	6.00 E	2.50 LB/AC	PPI					
13A	CHLORAMIBEN	2.00 E	2.50 LB/AC	PPI	75	0	68	0	30
13B	ALACHLOR	4.00 E	2.50 LB/AC	PPI					
14	RE 19698	2.00 E	0.75 LB/AC	PRE	70	5	60	0	11
15	RE 19698	2.00 E	1.00 LB/AC	PRE	78	4	64	0	18
16	RF 19698	2.00 E	0.75 LB/AC	PPI	48	10	45	0	23
17	RE 19698	2.00 E	1.00 LB/AC	PPI	52	0	38	0	18
18	RE 24293	3.50 E	0.75 LB/AC	PRE	35	5	25	8	16
19	RE 24293	3.50 E	1.00 LB/AC	PRE	30	0	15	0	12
20	RE 24293	3.50 E	0.75 LB/AC	PPI	34	0	28	0	17

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TABLE 19. Soybean Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY 16 - YENS	---JULY 1 CBIN	YENS	CBIN	YLD
21	RE 24293	3.50 E	1.00 LB/AC	PPI	50	0	50	0	23
22A	M-4287	6.00 E	1.50 LB/AC	PPI	72	0	68	0	18
22B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI					
23A	M-4287	6.00 E	2.00 LB/AC	PPI	72	5	65	0	23
23B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI					
24A	M-4287	6.00 E	2.50 LB/AC	PPI	68	10	48	0	20
24B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI					
25A	S-734	50.00 W	1.50 LB/AC	PPI	90	0	90	0	25
25B	NAPTALAM	3.00 E	4.50 LB/AC	PFE					
26A	S-734	50.00 W	2.50 LB/AC	PPI	92	18	92	0	24
26B	NAPTALAM	3.00 E	4.50 LB/AC	PRE					
27	DPX 4129	80.00 W	0.50 LB/AC	PPI	78	20	62	5	17
28	DPX 4129	80.00 W	1.00 LB/AC	PPI	92	52	85	60	15
29A	DPX 4129	80.00 W	0.50 LB/AC	PPI	78	20	70	5	22
29B	DPX 2504-B	4.00 L	0.38 LB/AC	PPI					
29C	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI					
30	DPX 4129	80.00 W	0.13 LB/AC	3TR	70	90	80	88	12
31	DPX 4129	80.00 W	0.25 LB/AC	3TR	80	92	75	92	11
32	DPX 4129	80.00 W	0.25 LB/AC	6TR	38	75	45	85	5
33	DPX 4129	80.00 W	0.50 LB/AC	6TR	28	75	62	90	1
34A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	90	78	45	24
34B	DPX 2504-B	4.00 L	0.38 LB/AC	PRE					
34C	DPX 4129	80.00 W	0.13 LB/AC	3TR					
35A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	90	85	65	8
35B	DPX 2504-B	4.00 L	0.38 LB/AC	PRE					
35C	DPX 4129	80.00 W	0.25 LB/AC	3TR					
36A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	55	52	85	82	7
36B	BENTAZON	4.00 E	0.38 LB/AC	PRE					
36C	DPX 4129	80.00 W	0.25 LB/AC	6TR					
37A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	38	58	70	85	1
37B	DPX 2504-B	4.00 L	0.38 LB/AC	PRE					
37C	DPX 4129	80.00 W	0.50 LB/AC	6TR					

TABLE 19. Soybean Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--MAY 16 -		---JULY 1		YLD.
					YENS	CRIN	YENS	CRIN	
38A	DPX 4129	80.00 W	0.13 LB/AC	3TR	65	90	78	72	12
38B	BENTAZON	4.00 E	0.50 LB/AC	3TR					
39A	DPX 4129	80.00 W	0.25 LB/AC	6TR	28	75	52	82	4
39B	BENTAZON	4.00 E	0.50 LB/AC	6TR					
40A	DPX 4129	80.00 W	0.13 LB/AC	3TR	70	90	68	70	14
40B	BENTAZON	4.00 E	0.50 LB/AC	3TR					
41A	DPX 4129	80.00 W	0.25 LB/AC	3TR	72	92	78	92	4
41B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	3TR					
42A	DPX 4129	80.00 W	0.25 LB/AC	6TR	35	72	52	90	1
42B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	6TR					
43A	DPX 4129	80.00 W	0.50 LB/AC	6TR	32	75	55	88	3
43B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	6TR					
44A	MBR-12325	2.00 S	0.13 LB/AC	EP	72	0	60	0	22
44B	BENTAZON	4.00 E	0.50 LB/AC	EP					
45A	MBR-12325	2.00 S	0.25 LB/AC	EP	82	5	75	0	21
45B	BENTAZON	4.00 E	0.75 LB/AC	EP					
46	CHECK (CULTIVATED)	0.0 CK	0.0		100	0	100	0	34
				LSD(05):	20	12	25	13	6

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LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 19, 1978
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.4 C.M.: 2.6%
 DATE TREATED: MAY 19, 1978 PPI PRE
 JUNE 5, 1978 EP
 JUNE 13, 1978 3TR LP
 JULY 3, 1978 6TR

HARVESTED OCT. 19, 1978

TABLE 20. Cocklebur.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--JUNE 9 --		--JULY 7 --	
					CRIN	COCB	CRIN	COCB
1	RH-8817	2.00 E	1.00 LB/AC	PRE	0	87	0	87
2	RH 9769	2.00 E	1.00 LB/AC	PRE	0	63	0	50
3	RH 9769	2.00 E	2.00 LB/AC	PRE	13	87	0	80
4	RH 6201	2.00 E	2.00 LB/AC	PRE	0	50	0	43
5	RH 2915	2.00 E	0.50 LB/AC	PRE	7	63	0	57
6	NAPTALAM	3.00 E	4.50 LB/AC	PRE	0	57	0	33
7	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE	0	23	0	0
8	RH 6201	2.00 E	0.25 LB/AC	EP	0	47	0	33
9	RH-6201	2.00 LCS	0.38 LB/AC	EP	0	57	0	60
10	RH 6201	2.00 E	0.50 LB/AC	EP	0	67	0	63
11	RH 6201	2.00 E	0.25 LB/AC	MP	0	50	0	27
12	RH-6201	2.00 LCS	0.38 LB/AC	MP	0	57	0	60
13	RH 6201	2.00 E	0.50 LB/AC	MP	0	70	0	70
14A	RH-6201	2.00 LCS	0.25 LB/AC	EP	0	40	0	33
14B	RH-6201	2.00 LCS	0.25 LB/AC	MP				
15A	RH-6201	2.00 LCS	0.38 LB/AC	EP	0	43	0	17
15B	RH-6201	2.00 LCS	0.38 LB/AC	MP				
16A	RH 6201	2.00 E	0.50 LB/AC	EP	0	83	0	83
16B	RH 6201	2.00 E	0.50 LB/AC	MP				
17	DINOSFB	3.00 E	0.38 LB/AC	EP	0	63	0	63
18	DINOSFB	3.00 E	0.75 LB/AC	EP	0	70	0	63
19	GCP 4417	4.00 E	1.00 LB/AC	EP	0	77	0	73
20	BENTAZON	4.00 E	0.75 LB/AC	EP	0	80	0	83
21A	BENTAZON	4.00 E	0.75 LB/AC	EP	0	87	0	90
21B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP				
22	BENTAZON	4.00 E	1.00 LB/AC	EP	0	87	0	90

TABLE 20. Cocklebur (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--JUNE 9 -		--JULY 7 -	
					CRIN	QQCB	CRIN	QQCB
23A	BENTAZON	4.00 E	0.75 LB/AC	LP	0	83	0	83
23B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	LP				
24A	BENTAZON	4.00 E	1.00 LB/AC	LP	0	83	0	83
24B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	LP				
25	BENTAZON	4.00 E	1.00 LB/AC	LP	0	87	0	83
26A	MBR-12325	2.00 S	0.25 LB/AC	EP	10	77	0	73
26B	BENTAZON	4.00 E	0.50 LB/AC	EP				
26C	SURFACTANT	0.0 WA	0.50 %					
27A	MBR-12325	2.00 S	0.25 LB/AC	EP	13	83	0	83
27B	BENTAZON	4.00 E	0.75 LB/AC	EP				
27C	SURFACTANT	0.0 WA	0.50 %					
28A	MBR-12325	2.00 S	0.25 LB/AC	LP	13	87	0	90
28B	BENTAZON	4.00 E	0.75 LB/AC	LP				
28C	SURFACTANT	0.0 WA	0.50 %	LP				
LSD(05):					4	16	NS	26

LOCATION: POULTRY FARM

FERTILIZATION (LB/AC): 60 N,

60 P, 60 K

SOIL TYPE: MAURY SILT LOAM

PH: 6.0 O.M.: 2.8%

DATE PLANTED: MAY 19, 1978

DATE TREATED: MAY 19, 1978 PRE

VARIETY: WILLIAMS

JUNE 9, 1978 EP

JUNE 13, 1978 MP

JUNE 16, 1978 LP

TABLE 21. Morning Glory.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--JUNE 9 --		--JULY 7 --	
					CRIN	ILMG	CRIN	ILMG
1	RH 2915	2.00 E	0.38 LB/AC	PRE	0	43	0	47
2	RH 2915	2.00 E	0.50 LB/AC	PRE	3	50	0	37
3	RH 6201	2.00 E	1.00 LB/AC	PRE	0	20	0	43
4	RH 6201	2.00 E	2.00 LB/AC	PRE	0	37	0	37
5	RH 9769	2.00 E	0.50 LB/AC	PRE	0	37	0	40
6	RH 9769	2.00 E	1.00 LB/AC	PRE	0	50	0	60
7	RH 9769	2.00 E	2.00 LB/AC	PRE	23	83	0	73
8	RH 9769	2.00 E	0.25 LB/AC	EP	0	40	0	37
9	RH-8817	2.00 E	1.00 LB/AC	PRE	13	70	0	57
10	DINOSEB	3.00 E	1.50 LB/AC	EP	10	70	0	73
11	RH 6201	2.00 E	0.25 LB/AC	EP	0	53	0	67
12	RH-6201	2.00 LCS	0.38 LB/AC	EP	0	53	0	63
13	RH 6201	2.00 E	0.50 LB/AC	EP	0	77	0	73
14	RH 9769	2.00 E	0.13 LB/AC	EP	0	40	0	47
15	RH-6201	2.00 LCS	0.38 LB/AC	LP	0	43	0	47
16	RH 6201	2.00 E	0.50 LB/AC	LP	0	43	0	67
17	GCP 4417	4.00 E	0.50 LB/AC	EP	0	53	0	67
18	GCP 4417	4.00 E	1.00 LB/AC	EP	0	73	0	70
19A	BENTAZON	4.00 E	0.50 LB/AC	EP	0	67	0	77
19B	BENTAZON	4.00 E	0.50 LB/AC	MP				
19C	BENTAZON	4.00 E	0.50 LB/AC	LP				
20A	BENTAZON	4.00 E	0.75 LB/AC	EP	0	70	0	63
20B	BENTAZON	4.00 E	0.75 LB/AC	LP				
21A	BENTAZON	4.00 E	1.00 LB/AC	EP	0	70	0	73
21B	BENTAZON	4.00 E	1.00 LB/AC	LP				
22A	BENTAZON	4.00 E	0.50 LB/AC	MP	0	37	0	33
22B	BENTAZON	4.00 E	0.50 LB/AC	EP				
223	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	MP				

TABLE 21. Morning Glory (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--JUNE 9 -		--JULY 7 -	
					CRIN	ILMG	CRIN	ILMG
23A	BENTAZON	4.00 E	0.75 LB/AC	MP	0	27	0	27
23B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	MP				
24A	BENTAZON	4.00 E	1.00 LB/AC	MP	0	47	0	57
24B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	MP				
25	BENTAZON	4.00 E	0.75 LB/AC	MP	0	37	0	53
26	BENTAZON	4.00 E	1.00 LB/AC	MP	0	57	0	53
27	S-734	50.00 W	2.00 LB/AC	PRE	0	20	0	17
28	BROMOXNYL	2.00 E	0.38 LB/AC	EP	10	67	0	67
			LSO(05):		9	18	NS	30

LOCATION: POULTRY FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 19, 1978
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.0 O.M.: 2.8%
 DATE TREATED: MAY 19, 1978 PRE
 JUNE 9, 1978 EP
 JUNE 13, 1978 MP
 JUNE 16, 1978 LP

TABLE 22. Velvetleaf.

	HERBICIDE	RATE	METHOD	CROP INJURY	CONTROL	CROP INJURY	CONTROL
1	Goal	.5	PRE	0	9	0	8.3
2	RH-6201 2 lcs	2	PRE	0	4	0	0.6
3	RH-9769	1	PRE	0	7.6	0	4.6
4	RH-9769	2	PRE	0	8.6	0	8.6
5	RH-8817	1	PRE	0	9	0	9.6
6	RH-6201 2 lcs	.5	EP	0	5.3	0	2.6
7	RH-6201 2 lcs	.5	LP	0	3.6	0	2
8	Dyanap	6 qt	PRE	0	1.6	0	0
9	RH-6201 2 lcs	.25 + .25	EP + LP	0	5.3	0	2
10	Dyanap	4 qt	EP	0	0.6	0	0
11	Dyanap	4 qt	LP	0	1	0	0.6
12	Modown	2	PRE	0	2.6	0	1
13	Premerge	4pt	EP	0	3.6	0	0.3
14	RH-9769	.125	EP	0	4.6	0	2
15	RH-9769	.25	EP	0	6.6	0	2.6
16	GCP-4417	1	EP (1-4")	0	5.3	0	1.6
17	DPX-4129	.5	LP (6-8T)	4	4	8	5
18	Metribuzin	.5	PRE	0	4	0	2
19	Basagran	.75 w/oil	EP	0	5.6	0	2.6
20	Basagran	1 w/oil	EP	0	6.6	0	4
21	Basagran	1.5 w/oil	EP	0	8	0	7
22	Basagran	.75	EP	0	5	0	2.6
23	Basagran	1	EP	0	6	0	2.6
24	Basagran	1.5	EP	0	7.6	0	6.3
25	RH-6201	.5 + .5	EP + LP	0	7.6	0	4.6
26	Basagran + Embark	.75 + .5	EP	0.6	5.6	0	3.3
27	Bromoxonyl	.1875	EP	0	2.6	0	0.3
28	Bromoxonyl	.375	LP	0	4.3	0	1.3

TABLE 23. Poultry Farm - Black Nightshade.

Herbicide	Rate	Method	6/27		7/20	
			Crop Injury	Control	Crop Injury	Control
1. Dyanap	2 qt	EP	0	8.0	0	8.6
2. Dyanap	4 qt	EP	0	7.3	0	8.0
3. Dyanap	2 qt	LP	0	4.6	0	4.0
4. Dyanap	4 qt	LP	0	6.0	0	7.6
5. Dyanap	2 + 2 qt	EP + LP	0	7.6	0	8.6
6. RH-6201 2LCS	1/4	EP	0	7.0	0	6.3
7. RH-6201 2LCS	3.4	EP	0	5.3	0	5.0
8. RH-6201 2LCS	1/2	EP	0	7.0	0	5.6
9. RH-6201 2LCS	1/4	LP	0	6.0	0	4.6
10. RH-6201 2LCS	3/8	LP	0	4.3	0	3.6
11. RH-6201 2LCS	1/2	LP	0	7.0	0	4.6
12. RH-9769	1/8	EP	0	4.3	0	1.6
13. RH-9769	1/4	EP	0	7.6	0	6.3
14. RH-9769	1/8	LP	0	3.0	0	1.3
15. RH-9769	1/4	LP	0.3	3.6	0	2.0
16. Premerge	1 pt	EP	0	4.6	0	4.3
17. Premerge	2 pt	EP	0	8.0	0	8.6
18. GCP-4417	1	EP	0	5.6	0	7.0
19. Basagran	3/4	EP	0	4.0	0	2.3
20. Basagran	1	EP	0	5.3	0	2.3
21. Basangran + Oil	3/4	EP	0	4.0	0	2.0
22. Basagran + Oil	3/4	LP	0	3.3	0	1.3
23. Basagran + Oil	1	LP	0	3.0	0	2.3
24. Basagran + Embark	3/4 + 1/2	EP	0	7.3	0	8.3
25. Bromoxonyl	3/8	EP	1.6	8.3	0	7.6
26. Mobil 11866	1/4	EP	0	6.0	0	4.6
27. Mobil 11866	1/2	EP	0.3	7.3	0	7.0

TABLE 24. Burcucumber.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--JUNF 9 -		--JULY 7 -	
					CRIN	BUQU	CRIN	BUQU
1	RH 2915	2.00 E	0.50 LB/AC	PRE	0	43	0	57
2	RH 6201	2.00 E	2.00 LB/AC	PRE	0	30	0	20
3	RH 9769	2.00 E	1.00 LB/AC	PRE	0	33	0	33
4	RH 9769	2.00 E	2.00 LB/AC	PRE	0	57	0	53
5	RH-8817	2.00 E	1.00 LB/AC	PRE	3	50	3	47
6	RH 6201	2.00 E	0.50 LB/AC	EP	0	37	0	20
7	RH 6201	2.00 E	0.50 LB/AC	LP	3	30	0	23
8	NAPTALAM	3.00 E	4.50 LB/AC	PRE	0	43	0	37
9A	RH-6201	2.00 LCS	0.25 LB/AC	EP	0	33	0	37
9B	RH-6201	2.00 LCS	0.25 LB/AC	MP				
10	NAPTALAM	3.00 E	3.00 LB/AC	EP	0	53	0	37
11	NAPTALAM	3.00 E	3.00 LB/AC	LP	3	47	0	43
12	BIFENOX	4.00 F	2.00 LB/AC	PRE	0	37	0	27
13	DINOSEB	3.00 E	1.50 LB/AC	EP	3	70	0	67
14	RH 9769	2.00 E	0.25 LB/AC	EP	0	53	0	57
15	RH 9769	2.00 E	0.13 LB/AC	EP	0	60	0	63
16	GCP 4417	4.00 E	1.00 LB/AC	EP	0	37	0	23
17	DPX 4129	80.00 W	0.50 LB/AC	6TR	40	10	73	0
18	METRIBUZIN 1 OR 2	50.00 WP	0.50 LB/AC	PRE	0	43	0	40
19A	BENTAZON	4.00 E	0.75 LB/AC	EP	0	70	0	67
19B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP				
20A	BENTAZON	4.00 E	1.00 LB/AC	EP	0	57	0	40
20B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP				
21A	BENTAZON	4.00 E	1.50 LB/AC	EP	0	53	0	63
21B	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	EP				
22	BENTAZON	4.00 E	0.75 LB/AC	EP	0	53	0	47

TABLE 24. Burcucumber (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-- JUNE 9 --		-- JULY 7 --	
					CRIN	BUQU	CRIN	BUQU
23	BENTAZON	4.00 E	1.00 LB/AC	EP	0	63	0	60
24	BENTAZON	4.00 E	1.50 LB/AC	EP	0	77	0	73
25A	RH-6201	2.00 LCS	0.50 LB/AC	EP	0	47	0	33
25B	RH-6201	2.00 LCS	0.50 LB/AC	LP				
26A	BENTAZON	4.00 E	0.75 LB/AC	EP	20	63	0	60
26B	MBR-12325	2.00 S	0.50 LB/AC	EP				
27	BROMOXNYL	2.00 E	0.19 LB/AC	EP	0	60	0	63
28	BROMOXNYL	2.00 E	0.38 LB/AC	LP	0	13	0	7
LSD(05):					4	29	3	31

LOCATION: POULTRY FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.0 O.M.: 2.8%
 DATE PLANTED: MAY 19, 1978 DATE TREATED: MAY 19, 1978 PRE
 VARIETY: WILLIAMS JUNE 9, 1978 EP
 JUNE 16, 1978 LP

TABLE 25. Shattercane.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-- JUNE 9 --		-- JULY 7 --	
					CRIN	SHCA	CRIN	SHCA
1	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	0	50	0	47
2	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	0	57	0	40
3	BAY 0787	70.00 WP	1.00 LB/AC	PRE	0	53	0	50
4	METALACHLOR	6.00 E	3.00 LB/AC	PRE	0	53	0	50
5	METALACHLOR	6.00 E	3.00 LB/AC	PPI	0	70	0	70
6	ALACHLOR	4.00 E	2.00 LB/AC	PRE	0	53	0	40
7	ALACHLOR	4.00 E	3.00 LB/AC	PRE	0	60	0	57
8	ALACHLOR	4.00 E	3.00 LB/AC	PPI	0	50	0	33
9	CP 55097	5.00 E	2.00 LB/AC	PRE	0	67	0	67
10	CP 55097	5.00 E	3.00 LB/AC	PRE	0	70	0	60
11	BENTAZON	4.00 E	0.75 LB/AC	8PM	0	60	0	63
12	MBR-12325	2.00 S	0.25 LB/AC	EP	0	20	0	7
13	MBR-12325	2.00 S	0.50 LB/AC	EP	0	23	0	10
14A	MBR-12325	2.00 S	0.13 LB/AC	EP	0	17	0	17
14B	MBR-12325	2.00 S	0.13 LB/AC	LP				
15	BAS-9021	75.00 WP	1.50 LB/AC	LP	0	63	0	47
16	BAS-9021	75.00 WP	2.00 LB/AC	LP	3	63	0	70
17	BAS-9021	75.00 WP	2.00 LB/AC	MP	0	70	0	73
18	BAY 4767	70.00 W	4.00 LB/AC	EP	0	23	0	10
19	BAY 4767	70.00 W	6.00 LB/AC	EP	0	33	0	27
20	GCP 6305	4.00 E	2.00 LB/AC	PPI	0	60	0	67
21	GCP 6305	4.00 E	2.00 LB/AC	PRE	0	43	0	30
22	GCP 6305	4.00 E	2.00 LB/AC	EP	10	30	0	13
23	GCP 6305	4.00 E	4.00 LB/AC	PRE	0	67	0	70

TABLE 25. Shattercane (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	--JUNE 9 -		--JULY 7 -	
					CRIN	SHCA	CRIN	SHCA
24	AC 260784	4.00 E	4.00 LB/AC	PRE	0	53	0	20
25	GCP 6305	4.00 E	2.50 LB/AC	EP	0	30	0	23
LSD(05):					4	28	NS	34

LOCATION: POULTRY FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 19, 1978
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.0 O.M.: 2.8%
 DATE TREATED: MAY 19, 1978 PPI PRE
 JUNE 9, 1978 EP
 JUNE 13, 1978 MP
 JUNE 16, 1978 LP

TABLE 26. Burley Tobacco.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 7, 1978 -----				
					GRAS	BRLE	CRIN	LACC	RRPW
1	PEBULATE	6.00 E	4.00 LB/AC	PPI	87	83	0	87	80
2	PEBULATE	6.00 E	6.00 LB/AC	PPI	90	90	0	90	97
3	DIPHENAMID	90.00 W	4.00 LB/AC	PRE	77	70	0	80	67
4	DIPHENAMID	90.00 W	6.00 LB/AC	PRE	80	73	0	80	73
5	DIPHENAMID	50.00 WP	4.00 LB/AC	PRE	87	77	0	297	83
6	DIPHENAMID	50.00 WP	6.00 LB/AC	PRE	90	73	0	87	73
7	BENEFIN	1.50 E	1.50 LB/AC	PPI	90	90	0	97	97
8	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	83	87	0	77	83
9A	PEBULATE	6.00 EW	4.00 LB/AC	PPI	90	93	0	90	93
9B	MBR 8251	4.00 S	1.50 LB/AC	PPI					
10A	PEBULATE	6.00 E	3.00 LB/AC	PPI	87	87	0	87	97
10B	MBR 8251	4.00 S	1.00 LB/AC	PCT					
11A	PEBULATE	6.00 E	4.00 LB/AC	PPI	93	90	0	97	97
11B	MBR 8251	4.00 S	1.50 LB/AC	POT					
12A	PEBULATE	6.00 E	4.00 LB/AC	PPI	90	90	0	93	97
12B	DEVIRINOL	2.00 E	2.00 LB/AC	PPI					
13	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	93	90	0	90	90
14A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	90	93	0	90	93
14B	BIFENOX	4.00 F	2.00 LB/AC	PPI					
15A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	90	90	0	93	100
15B	PEBULATE	6.00 E	2.00 LB/AC	PPI					
16A	BIFENOX	80.00 WP	1.50 LB/AC	PPI	83	90	0	87	93
16B	BENEFIN	1.50 E	1.50 LB/AC	PPI					
17A	BIFENOX	80.00 WP	2.00 LB/AC	PPI	90	90	0	97	97
17B	BENEFIN	1.50 E	1.50 LB/AC	PPI					
18A	BIFENOX	4.00 F	1.50 LB/AC	PPI	90	90	0	90	87
18B	BENEFIN	1.50 E	1.50 LB/AC	PPI					
19A	BIFENOX	4.00 F	2.00 LB/AC	PPI	90	97	0	87	100
19B	BENEFIN	1.50 E	1.50 LB/AC	PPI					

TABLE 26. Burley Tobacco (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 7, 1978 -----				
					GRAS	BRLE	CRIN	LACS	RRPW
20A	BIFENOX	80.00 WP	1.50 LB/AC	PPI	83	87	0	83	90
20B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
21A	BIFENOX	80.00 WP	2.00 LB/AC	PPI	87	87	0	90	90
21B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
22A	BIFENOX	4.00 F	1.50 LB/AC	PPI	87	90	0	87	93
22B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
23A	BIFENOX	4.00 F	2.00 LB/AC	PPI	87	90	0	90	97
23B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
24A	BIFENOX	80.00 WP	1.50 LB/AC	PRE	90	90	0	93	93
24B	BENEF IN	1.50 E	1.50 LB/AC	PPI					
25A	BIFENOX	80.00 WP	1.50 LB/AC	PRE	87	90	0	83	90
25B	PEBULATE	6.00 E	1.50 LB/AC	PPI					
26A	BIFENOX	80.00 WP	1.50 LB/AC	PPI	90	90	0	87	93
26B	DIPHENAMID	90.00 W	6.00 LB/AC	PPI					
27A	BIFENOX	4.00 F	1.50 LB/AC	PPI	93	90	0	93	97
27B	DIPHENAMID	90.00 W	6.00 LB/AC	PPI					
28	FMC 39821	4.00 E	0.75 LB/AC	PPI	90	83	7	97	97
29	FMC 39871	4.00 E	0.50 LB/AC	PPI	90	90	0	97	93
30	FMC 39896	4.00 E	0.75 LB/AC	PPI	90	90	0	97	93
31	FMC 39821	4.00 E	0.75 LB/AC	POT	80	80	0	80	83
32	FMC 39871	4.00 E	0.50 LB/AC	POT	77	67	0	83	57
33	FMC 39896	4.00 E	0.75 LB/AC	POT	90	80	0	83	70
34	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100
LSD(05):					8	11	NS	NS	16

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 0 P, 0 K PH: 6.6 C.M.: 4.2%
 DATE PLANTED: JUNE 10, 1978 DATE TREATED: JUNE 9, 1978 PPI PRE
 VARIETY: KY 14

TABLE 27. Herbicide Species Screening Study.

TRT	SPECIES SCREENING STUDY				PEANUTS	ALFALFA	OATS	SNAPBEANS	SOYBEANS	PEAS	FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN "Pioneer 3369A"	CRANBEE
	CHEMICAL	METH	FORM	RATE																					
1	Atrazine	PRE	4L	2.00	60	100	100	100	85	80	100	65	50	100	95	100	100	100	100	95	55	0	0	0	100
2	FMC 39821	PRE	4EC	1.00	15	0	95	0	0	0	95	100	100	80	40	0	0	95	10	25	10	35	75	0	0
3	FMC 39871	PRE	4EC	1.00	10	30	90	55	45	25	100	100	95	85	20	70	25	90	70	75	25	70	95	75	15
4	FMC 39896	PRE	4EC	1.00	0	0	60	30	0	15	100	100	95	45	0	100	100	50	0	25	0	35	55	45	0
5	MON 097	PRE	5E	2.00	15	75	100	40	30	95	100	100	100	100	45	100	65	100	90	65	30	35	95	50	45
6	MON 097	PRE	5E	3.00	0	85	95	55	30	90	100	100	100	95	85	100	75	100	100	90	50	70	100	0	85
7	Combat	PRE	4EC	3.00	0	0	0	0	0	0	90	100	40	0	0	0	0	55	10	10	10	0	20	0	0
8	GCP 6305	PRE	4EC	2.00	0	25	0	0	0	15	85	100	70	25	0	45	5	90	10	10	10	35	65	0	0
9	Mobil 10108	PRE	2	0.50	15	95	0	85	35	50	75	80	80	95	70	100	80	100	85	90	50	25	35	0	100
10	Mobil 10109	PRE	80WP	0.50	10	10	0	0	0	0	15	0	75	35	0	40	0	10	10	25	10	0	0	0	90
11	S-734	PRE	50W	2.00	0	90	0	0	15	0	15	20	0	95	65	80	75	65	75	45	45	0	0	0	100
12	RH-9767	PRE	2E	0.50	10	15	85	0	0	0	100	100	100	85	45	10	10	80	65	50	0	95	100	100	0
13	Bay-0787	PRE	70WP	1.00	10	55	0	30	0	0	10	95	50	65	45	10	0	0	40	60	20	0	0	0	75
14	Bay-0787	PRE	70WP	0.50	0	0	0	0	0	0	0	0	0	40	0	0	0	0	25	25	0	0	0	0	0
15	MBR-20510	PRE	2EC	1.00	10	10	20	0	0	0	0	25	50	0	0	0	0	10	10	0	0	25	25	0	0
16	Lasso	PRE	4E	2.50	0	10	15	0	0	10	100	100	95	85	60	100	25	100	75	80	10	40	85	0	0
17	RE-19698	PRE	2EC	1.00	0	25	15	30	10	0	95	85	40	10	0	0	0	95	10	10	0	0	35	0	0
18	RE-19698	PRE	2EC	2.00	35	85	80	80	25	30	95	95	85	70	15	95	10	100	10	55	30	75	95	40	10
19	RE-19698	PRE	3EC	1.00	0	30	0	10	0	0	90	90	30	0	0	40	0	80	0	0	0	0	0	0	0

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TABLE 27. Herbicide Species Screening (cont.)

TRT	CHEMICAL	METH	FORM	RATE	PEANUTS	ALFALFA	OATS	SNAPBEANS	SOYBEANS	PEAS	FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN "Pioneer 3369A"	CRANBEE
20	RE-19698	PRE	3EC	2.00	10	75	75	75	10	20	95	95	90	50	45	80	0	100	0	55	50	70	90	60	0
21	KY 57	PRE	50W	1.00	0	70	45	0	0	0	95	95	90	65	15	20	0	90	25	85	0	45	70	0	0
22	KY 57	PRE	50W	2.00	0	100	70	30	0	0	100	100	100	90	20	70	0	100	60	70	0	80	80	30	0
23	KY 66	PRE	3E	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	KY 66	PRE	3E	2.00	0	30	0	0	0	0	30	0	0	70	0	90	80	100	30	90	0	0	0	0	0
25	KY 66	PRE	50W	1.00	0	60	50	0	0	0	90	100	90	90	60	30	0	80	20	60	0	0	80	0	0
26	KY 66	PRE	50W	2.00	0	100	90	30	0	0	95	100	100	90	50	90	20	100	80	80	30	60	90	80	20
27	KY 69	PRE	4E	1.00	0	0	30	30	0	0	90	90	70	0	0	90	20	20	20	30	0	0	20	0	0
28	KY 69	PRE	4E	2.00	0	0	50	0	0	0	100	100	100	70	0	100	0	100	80	60	0	0	90	0	0
29	KY 93	PRE	3.5E	1.00	0	0	0	0	0	0	90	80	0	0	0	0	0	80	0	0	0	0	0	0	0
30	KY 93	PRE	3.5E	2.00	30	50	20	0	0	0	90	90	70	50	0	70	0	90	20	15	20	30	70	0	0
31	KY 97	PRE	50W	1.00	60	30	0	0	0	0	0	0	0	0	20	55	0	20	10	15	0	0	0	0	0
32	KY 97	PRE	50W	2.00	0	0	0	20	0	0	75	60	10	90	20	10	90	85	80	90	60	0	20	0	0
33	GCP 6305	POST	4EC	2.00	0	25	20	60	30	70	0	25	55	80	90	100	50	70	70	65	50	0	0	0	0
34	GCP 6305	POST	4EC	0.50	20	25	0	20	15	20	0	30	20	0	0	90	0	0	30	20	0	0	0	0	15
35	GCP 4417	POST	25W	0.50	20	20	0	75	20	25	30	0	0	0	50	90	30	40	90	85	90	0	0	0	100
36	Mobil 10978	POST	2AS	0.50	20	75	0	0	20	25	20	0	0	0	0	100	20	30	100	20	80	20	25	0	95
37	DPX 4129	POST	80WP	0.50	50	20	0	70	85	90	0	0	0	30	60	55	80	100	95	95	20	0	0	0	95
38	RH-9769	POST	2E	0.50	30	90	40	60	55	60	80	0	50	90	85	95	70	100	95	95	100	50	45	30	100

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TABLE 27. Herbicide Species Screening (cont.)

TRT	CHEMICAL	METH	FORM	RATE	PEANUTS	ALFALFA	OATS	SNAPBEANS	SOYBEANS	PEAS	FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN "Pioneer 3369A"	CRANBEE
39	R 40244	POST	2E	2.00	90	100	100	95	100	95	95	100	100	100	100	95	100	100	100	95	95	60	45	50	100
40	Bay 4767	POST	7OWP	4.00	0	0	0	20	20	30	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0
41	MBR 20510	POST	2EC	1.00	20	20	0	35	30	60	75	80	80	0	0	20	30	0	50	20	0	85	90	0	0
42	Basagran	POST	4E	0.75	0	35	0	0	0	0	0	0	0	0	90	85	50	70	30	100	100	95	0	0	95

CROPS AND WEEDS

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|--------------------------|-------------------------------|
| 1. Peanuts "Florunner" | 12. Cucumber "Straight Eight" |
| 2. Alfalfa "Arc" | 13. Morningglory |
| 3. Oats "Compact" | 14. Pigweed, Redroot |
| 4. Snapbeans "Contendor" | 15. Jimsonweed |
| 5. Soybeans "Williams" | 16. Velvetleaf |
| 6. Peas "Blackeye" | 17. Cocklebur |
| 7. Foxtail, Giant | 18. Grain Sorghum "NK 266A" |
| 8. Fall Panicum | 19. Shattercane |
| 9. Johnsongrass | 20. Corn "Pioneer 3369A" |
| 10. Spiny Sida | 21. Cranbee |
| 11. Cotton "Coker 310" | |

Location: Spindletop Farm
 P.H.: 6.5 O.M.: 6.5%
 Date Planted: June 1, 1978

Soil Type: Lanton Silty Clay Loam
 Date Treated: June 2, 1978 PRE
 June 16, 1978 POST