

Herbicide Evaluation Trials-1977

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TABLE 1. Abbreviations for the Headings.

BRLE	Broadleaf
COCB	Cocklebur, Common
COLQ	Lambsquarter, Common
CRIN	% Crop Injury
GIFT	Foxtail, Giant
GRAS	Grass
JIWE	Jimsonweed
RRPW	Pigweed, Redroot
SHCA	SHATTERCANE
SOKI	% Sod Kill
VELE	Velvetleaf
YEFT	Foxtail, Yellow
YENS	Nutsedge, Yellow

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
3DA	Three Days After Planting
2LF	Two Leaf Stage of Crop
4LF	Four Leaf Stage of Crop
1WK	One Week 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
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
Benefin	Balan
Bentazon	Basagran
Bifenox	Mowdown
Butam	Butam
Butylate + R-29148	Sutan + R-29148
Butylate + R-25788	Sutan +
CGA-24705	Dual
CGA-24705 + Atrazine	Dual + Atrazine pkg mix
Chloramiben	Amiben
Chlorbromuron	Chlorbromuron
Chloroxuron	Tenoran
Chloroprotham	Furloe
Crop Oil	Crop Oil
Cyanazine	Bladex
Devrinol	Devrinol
Dicamba	Banvel
Dicamba + 2,4-D	Weedmaster
Diesel Oil	Diesel Oil
Dinitramine	Cobex
Dinitramine + USB-3153	Cobex + Rydex
Diphenamid	Enide
DPX 2504-B	DPX 2504-B
DPX 2504-D	DPX 2504-D
DPX 326-E	DPX 326-E
DS 31547	DS 31547
EL-161	Sonalan
EL-171	EL-171
EPTC + R-25788	Eradicane
EPTC + R-29148	Eptam + R-29148
Fluchloralin	Basalin
Glyphosate	Roundup
GCP-5544	GCP-5544
H-22234	Antor
H-26910	H-26910
HOE-23408	HOE-23408
HOE-29152	HOE-29152
Isopropalin	Paarlan
Ky. 0-99	Ky. 0-99 unavailable
Linuron	Lorox
M-4127	Dowco 356
M-4287	Dowco 295
MBR-12325	Embark
MBR-8215	Destun

Chemical (Generic) Name	Trade Name
Metrbuzin	Lexone, Sencor
Mobil 10108	Mobil 10108
Naptalam + Dinoseb	Dyanap
NC-8438	NC-8438
Oryzalin	Surflan
Oxadiazon	Ronstar
Paraquat	Paraquat CL
Pebulate	Tillam
Pendimethalin	Prowl
Profluralin	Tolban
R-12001	R-12001
R-12001 + R-25788	R-12001 + R-25788
R-24191	R-24191
R-24315	R-24315
R-40244	R-40244
R-42722	R-42722
RE-19140	RE-19140
RE-19168	RE-19168
RE-19698	RE-19698
RE-19790	RE-19790
RE-20477	RE-20477
RH-2915	Goal
RH-3359	RH-3359
RH-6201	Blazer
RH-8817	RH-8817
SD-50093	SD-50093
Simazine	Princep
SN-533	SN-533
Surfactant	X-77
Trifluralin	Treflan
USB-3153	Rydex
VCS-438	Probe
VEL-4092	VEL-4092
VEL-5026	VEL-5026
Vernolate	Vernam
Vernolate + R-29148	Vernam + R-29148
Vernolate + R-25788	Surpass
2,4-D amine	2,4-D amine
2,4-DB	Butyrac 200

TABLE 5. Climatological Data.

May 1977

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% RELATIVE HUMIDITY
	MAX	MIN		2"BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	77	52	0.00					
2	77	60	0.00	82	61	71	63	63
3	71	60	0.01	73	63	73	65	99
4	76	63	0.02	80	65	73	65	82
5	81	62	0.66	82	68	73	66	75
6	81	63	0.00	81	67	74	69	72
7	78	59	0.23	81	68	73	70	90
8	71	45	0.00	82	60	75	68	46
9	70	36	0.00	79	50	73	64	46
10	60	32	0.00	80	43	73	61	46

11	69	36	0.00	84	68	74	63	36
12	74	41	0.00	85	71	74	61	35
13	78	51	0.00	89	72	74	65	49
14	79	55	0.00	86	69	74	66	51
15	83	53	0.00	95	65	77	65	49
16	87	52	0.00	95	66	77	70	36
17	86	61	0.00	95	73	78	70	43
18	85	65	0.00	97	73	79	72	45
19	88	64	0.00	97	72	79	71	48
20	89	61	0.00	101	73	81	73	32

21	88	63	0.00	98	73	80	73	44
22	86	64	0.00	93	75	78	73	66
23	85	60	Trace	96	73	80	73	47
24	84	57	0.00	98	75	81	71	48
25	79	65	0.00	88	74	77	72	74
26	85	62	0.00	99	70	82	73	35
27	87	56	0.00	97	73	81	73	36
28	87	58	Trace	98	73	82	73	48
29	87	62	0.72	96	72	80	71	100
30	87	61	0.13	93	68	82	71	55

31	88	67	0.00	97	72	82	74	48

Total 1.77

Location: Spindletop Farm, Fayette County, Kentucky

June 1977

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	83	62	0.00	93	70	79	73	38
2	79	57	0.00	93	69	78	71	45
3	78	53	0.00	98	67	80	70	32
4	86	51	0.00	101	65	81	68	27
5	84	59	0.00	97	70	80	69	48
6	84	65	0.28	88	73	80	73	45
7	69	45	0.00	75	62	73	67	34
8	70	48	0.04	84	66	77	66	50
9	80	51	0.40	82	60	80	65	30
10	75	41	0.00	90	55	78	63	35

11	82	52	0.00	93	64	81	68	42
12	87	58	0.00	100	72	82	73	48
13	88	68	0.04	97	75	81	78	52
14	82	66	0.02	87	75	80	73	78
15	83	61	0.00	91	74	80	74	65
16	88	62	Trace	96	72	82	73	48
17	82	66	0.20	93	75	83	74	65
18	88	68	Trace	90	73	81	74	60
19	87	65	0.61	87	72	80	73	75
20	80	64	0.09	85	70	81	72	70

21	81	57	0.00	91	67	82	72	45
22	78	59	0.25	77	68	73	72	95
23	80	61	Trace	87	68	80	71	70
24	81	67	0.64	80	72	77	75	98
25	80	69	0.07	83	73	78	74	80
26	87	69	Trace	90	73	82	75	75
27	85	69	0.06	87	74	82	76	70
28	85	67	1.40	87	73	81	76	100
29	81	68	0.03	88	73	84	75	46
30	87	61	0.10	85	69	81	74	85

Total 4.23

Location: Maine Chance - Spindletop Farm

July 1977

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	87	64	0.64	87	73	82	75	55
2	81	57	0.00	87	66	83	73	40
3	83	56	0.00	94	65	85	73	42
4	89	60	0.00	100	70	86	74	60
5	92	74	0.00	102	77	88	78	56
6	92	69	0.00	103	77	88	78	60
7	92	73	0.00	103	79	88	80	62
8	94	73	0.00	105	81	89	80	55
9	92	66	0.11	91	78	85	79	74
10	85	66	1.22	93	78	85	80	100
11	86	64	0.01	89	73	85	76	70
12	88	72	0.00	92	76	86	79	74
13	91	73	0.00	98	78	88	80	70
14	94	70	0.00	104	78	90	81	56
15	94	71	0.00	106	80	91	81	52
16	93	69	0.00	105	80	90	81	55
17	93	73	0.01	104	83	90	82	50
18	93	69	0.00	106	80	91	81	55
19	92	70	0.00	103	81	90	81	56
20	94	71	0.00	108	82	92	81	52
21	93	72	0.00	105	84	90	82	54
22	88	70	0.07	100	80	87	81	50
23	89	58	0.00	103	74	88	76	38
24	87	67	Trace	95	81	84	79	82
25	84	71	0.66	88	80	83	79	92
26	82	62	0.06	91	72	84	76	45
27	79	56	0.00	88	68	83	74	42
28	84	58	0.00	89	71	82	74	65
29	83	66	0.72	82	74	79	75	100
30	85	67	0.00	91	73	85	76	60
31	86	67	0.00	89	73	84	77	60

Total 3.50

Location: Maine Chance - Spindletop Farm

August 1977

DATE	AIR TEMP. °F		PRECIP. INS.	SOIL TEMP.				% RELATIVE HUMIDITY	
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD			
				MAX	MIN	MAX	MIN		
1	85	70	0.00	89	75	86	78	40	
2	83	54	0.00	92	68	84	73	44	
3	86	55	0.00	95	70	85	74	40	
4	88	65	0.00	94	74	85	76	55	
5	90	71	0.00	96	77	86	78	55	
6	92	72	0.00	97	79	86	79	52	
7	91	71	0.05	87	80	83	79	100	
8	90	69	1.45	88	76	82	78	100	
9	87	67	0.60	90	74	84	75	80	
10	87	70	0.17	86	75	83	78	100	

11	84	69	Trace	85	75	80	77	85	
12	84	68	0.58	82	75	80	78	100	
13	78	68	1.17	84	75	79	76	100	
14	80	68	0.82	83	75	79	77	95	
15	86	61	0.00	95	72	85	75	65	
16	87	69	0.00	90	77	84	79	72	
17	85	71	0.25	82	78	81	80	96	
18	76	56	0.00	88	69	81	74	46	
19	76	55	0.00	87	69	80	73	48	
20	79	52	0.00	87	66	80	72	45	

21	80	58	0.00	81	68	78	73	64	
22	74	61	0.10	88	71	80	74	60	
23	83	59	0.00	88	70	82	74	56	
24	80	64	0.98	85	72	80	74	82	
25	77	56	0.00	86	68	80	73	84	
26	85	61	0.00	87	70	81	74	75	
27	88	70	0.00	90	75	83	77	62	
28	88	71	0.00	90	75	84	78	62	
29	87	71	0.00	90	75	84	77	64	
30	86	67	1.17	89	75	82	76	70	

31	90	66	0.00	94	74	86	77	55	
			Total 7.29						

Location: Spindletop

September 1977

DATE	Air Temp. °F		PRECIP. INS.	SOIL TEMP.				% RELATIVE HUMIDITY
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		
				MAX	MIN	MAX	MIN	
1	91	68	0.00	95	74	87	79	54
2	89	62	0.00	93	76	81	79	64
3	87	67	0.00	92	76	87	79	76
4	87	63	0.00	91	73	84	78	70
5	85	69	0.43	87	76	82	79	100
6	84	68	0.00	87	74	83	78	75
7	81	68	0.00	83	75	81	78	95
8	82	63	0.00	88	71	83	76	62
9	84	68	0.00	87	71	82	76	50
10	82	65	0.01	85	72	80	76	40

11	74	47	0.00	84	62	78	71	40
12	77	50	0.00	78	63	74	71	58
13	79	66	0.01	77	68	75	72	85
14	76	62	0.27	71	71	73	73	100
15	83	61	Trace	82	68	77	71	70
16	82	65	0.53	79	71	77	73	80
17	82	60	0.00	85	69	80	73	70
18	83	65	0.00	84	70	79	73	66
19	81	65	0.13	78	72	77	75	94
20	73	52	0.00	75	65	75	72	72

21	73	53	0.00	79	64	76	69	50
22	77	49	0.00	82	62	77	69	52
23	81	59	0.00	81	66	76	70	50
24	80	67	0.00	75	71	74	73	74
25	75	63	0.00	75	69	74	71	95
26	78	64	0.72	80	69	76	71	40
27	76	58	0.53	77	64	74	70	76
28	73	45	0.00	76	58	73	67	50
29	72	46	0.00	76	57	71	66	48
30	72	49	0.00	75	58	71	66	85

Total 2.63

Location: Maine Chance - Spindletop Farm

TABLE 6. Corn Preemergence.

TRT NO.	HEPBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BRLE	CRIN	GIEI	RRPW	COLQ
1	ATRAZINE	4.00 L	2.00 LB/AC	PRE	42	68	0	42	65	62
2	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	25	25	0	25	18	25
3	SIMAZINE	4.00 L	2.00 LB/AC	PRE	48	10	0	48	10	10
4	CYANAZINE	4.00 L	3.00 LB/AC	PRE	45	10	0	45	10	10
5A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	60	45	0	60	45	45
5B	SIMAZINE	80.00 WP	2.00 LB/AC	PRE						
6A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	60	28	0	60	18	25
6B	SIMAZINE	80.00 WP	2.00 LB/AC	PRE						
7	ALACHLOR	4.00 E	2.50 LB/AC	PRE	55	10	0	55	10	10
8A	ALACHLOR	4.00 E	2.21 LB/AC	PRE	72	58	0	72	65	40
8B	ATRAZINE	4.00 L	1.33 LB/AC	PRE						
9A	ALACHLOR PKG MIX	2.50 L	2.21 LB/AC	PRE	70	15	0	70	20	15
9B	WITH ATRAZINE	1.50	1.33	PRE						
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	48	15	0	48	18	15
10B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE						
11A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	75	38	0	75	38	38
11B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
12	CGA 24705	8.00 E	2.50 LB/AC	PRE	45	10	0	45	10	10
13A	CGA 24705	8.00 E	2.00 LB/AC	PRE	52	22	0	52	22	20
13B	ATRAZINE	4.00 L	1.60 LB/AC	PRE						
14A	CGA 24705	8.00 E	2.00 LB/AC	PRE	50	10	0	50	22	10
14B	CYANAZINE	80.00 WP	2.00 LB/AC	PRE						
15A	CGA 24705	8.00 E	2.00 LB/AC	PRE	35	10	0	35	10	10
15B	CYANAZINE	4.00 L	2.00 LB/AC	PRE						
16A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PRE	62	75	0	62	75	75
16B	WITH ATRAZINE	2.00	1.60	PRE						
17	PENDIMETHALIN	4.00 E	2.00 LB/AC	PRE	55	65	0	55	72	65
18	PENDIMETHALIN	75.00 WP	2.00 LB/AC	PRE	62	58	0	62	58	58
19A	PENDIMETHALIN	75.00 WP	1.50 LB/AC	PRE	52	62	0	52	62	62
19B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						

TABLE 6. Corn Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BBLE	CRIN	GIET	RRPW	CCLQ
20A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	65	70	0	65	65	70
20B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
21A	PENDIMETHALIN	75.00 WP	1.50 LB/AC	PRE	70	48	0	70	48	48
21B	CYANAZINE	4.00 L	2.00 LB/AC	PRE						
22A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	65	30	0	65	30	30
22B	CYANAZINE	4.00 L	2.00 LB/AC	PRE						
23	SN 533	2.00 E	1.00 LB/AC	PRE	75	10	0	75	10	10
24	SN 533	2.00 E	2.00 LB/AC	PRE	32	10	0	32	10	10
25A	SN 533	2.00 E	1.00 LB/AC	PRE	50	12	0	50	18	12
25B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
26	SD 50093	80.00 WP	2.80 LB/AC	PRE	62	65	0	62	58	60
27A	SD 50093	80.00 WP	2.80 LB/AC	PRE	75	55	0	75	62	50
27B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
28	R-24191	35.00 WP	0.50 LB/AC	PRE	40	10	0	40	10	10
29	R-24191	35.00 WP	1.00 LB/AC	PRE	45	10	0	45	10	10
30	R-24191	35.00 WP	2.00 LB/AC	PRE	42	12	0	42	12	12
31	VEL 5026	50.00 WP	0.50 LB/AC	PRE	48	10	0	48	30	32
32	VEL 5026	50.00 WP	1.25 LB/AC	PRE	75	42	0	75	48	38
33A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	42	18	0	42	32	18
33B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
34	VEL 4092	3.00 E	0.50 LB/AC	PRE	30	70	0	30	70	58
35A	VEL 4092	3.00 E	0.50 LB/AC	PRE	75	50	0	75	52	50
35B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
36	DICAMBA	4.00 S	0.50 LB/AC	PRE	25	60	0	25	60	50
37A	DICAMBA	4.00 S	0.50 LB/AC	PRE	70	60	0	72	62	55
37B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
38A	DICAMBA	4.00 S	0.50 LB/AC	PRE	58	58	0	58	58	58
38B	CGA 24705	8.00 E	2.00 LB/AC	PRE						

TABLE 6. Corn Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BBLE	CRIN	GIET	RRPW	COLQ
39	BIFENOX	4.00 F	1.00 LB/AC	PRE	25	10	0	25	25	32
40	BIFENOX	4.00 F	1.50 LB/AC	PRE	35	15	0	35	15	15
41	BIFENOX	4.00 F	3.00 LB/AC	PRE	40	28	0	40	28	28
42A	BIFENOX	4.00 F	1.00 LB/AC	PRE	62	15	0	62	35	10
42B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
43A	BIFENOX	4.00 F	2.00 LB/AC	PRE	78	70	0	78	70	50
43B	ALACHLOR	4.00 E	4.00 LB/AC	PRE						
44A	BIFENOX	4.00 F	4.00 LB/AC	PRE	80	82	0	80	82	75
44B	ALACHLOR	4.00 E	8.00 LB/AC	PRE						
45A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	38	12	0	55	20	10
45B	CGA 24705	8.00 E	2.00 LB/AC	PRE						
46A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	65	38	0	65	38	28
46B	CGA 24705	8.00 E	4.00 LB/AC	PRE						
47A	BIFENOX	80.00 WP	4.80 LB/AC	PRE	78	45	0	78	45	40
47B	CGA 24705	8.00 E	8.00 LB/AC	PRE						
48	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100
				LSD(05):	29	24	--	28	26	28

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 9, 1977
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.8 O.M.: 3.4%
 DATE TREATED: MAY 9, 1977 (PRE)

TABLE 7. Corn Preplant Incorporated.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BRLE	CBIN	GIFT	PRPW	JIWE
1	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	90	40	0	90	62	18
2	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	90	62	0	90	68	40
3A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	92	65	0	92	72	60
3B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
4A	EPTC + R-25788	6.70 EW	3.00 LB/AC	PPI	90	75	0	90	75	65
4B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
5A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	95	85	0	95	85	80
5B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
6A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	92	90	0	92	90	82
6B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
7A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	95	85	0	95	85	68
7B	SIMAZINE	80.00 WP	2.00 LB/AC	PPI						
8A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	95	90	0	95	92	90
8B	SIMAZINE	80.00 WP	2.00 LB/AC	PPI						
9	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	30	0	90	42	18
10A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	92	75	0	92	75	65
10B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
11A	BUTYLATE + R-25788	6.70 EW	4.00 LB/AC	PPI	90	70	0	90	72	50
11B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
12A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	90	18	0	90	65	12
12B	BIFENOX	4.00 F	1.25 LB/AC	PPI						
13A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	90	58	0	90	70	45
13B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI						
14A	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	90	55	0	90	70	38
14B	CYANAZINE	4.00 L	2.00 LB/AC	PPI						
15	VERNOLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	18	0	90	35	10
16	CGA 24705	8.00 E	2.50 LB/AC	PPI	88	22	0	88	48	12
17A	CGA 24705	8.00 E	2.00 LB/AC	PPI	90	48	0	90	72	35
17B	CYANAZINE	4.00 L	2.00 LB/AC	PPI						
18A	CGA 24705	8.00 E	2.00 LB/AC	PPI	90	58	0	90	68	35
18B	ATRAZINE	4.00 L	1.60 LB/AC	PPI						

TABLE 7. Corn Preplant Incorporated (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BRLE	CRIN	GIFT	RPPW	JIWE
19A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PPI	90	75	0	90	78	72
19B	WITH ATRAZINE	2.00	1.60	PPI						
20A	SD 50093	80.00 WP	2.80 LB/AC	PPI	90	65	0	90	65	52
20B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI						
21A	SD 50093	80.00 WP	2.80 LB/AC	PPI	92	80	0	92	85	55
21B	EPTC + R25788	6.70 E	4.00 LB/AC	PPI						
22A	R-12001 + R-25788	6.70 E	4.00 LB/AC	PPI	90	65	0	90	75	50
22B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
23	R-12001 + R-25788	6.70 E	4.00 LB/AC	PPI	90	15	0	90	15	15
24	R-12001 + R-25788	6.70 E	6.00 LB/AC	PPI	88	28	0	88	48	28
25	R-12001	7.00 E	4.00 LB/AC	PPI	88	18	0	88	32	15
26	R-12001	7.00 E	6.00 LB/AC	PPI	90	35	0	90	52	22
27A	R-12001	7.00 E	4.00 LB/AC	PPI	90	68	0	90	70	58
27B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
28	R-24191	35.00 WP	2.00 LB/AC	PPI	85	35	0	85	38	25
29A	R-24191	35.00 WP	1.00 LB/AC	PPI	90	58	0	90	70	42
29B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI						
30A	R-24191	35.00 WP	1.00 LB/AC	PPI	90	48	0	90	58	25
30B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI						
31A	ALACHLOR PKG MIX	2.50 L	2.21 LB/AC	PPI	90	45	0	90	65	30
31B	WITH ATRAZINE	1.50	1.33	PPI						
32A	ALACHLOR	4.00 E	2.21 LB/AC	PPI	90	78	0	90	78	72
32B	ATRAZINE	4.00 L	1.33 LB/AC	PPI						
33	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100
LSD(05):					5	19	--	5	25	24

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 9, 1977 DATE TREATED: MAY 9, 1977 (PPI)
 VARIETY: PIONEER 3369A

TABLE 8. Corn Postemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BRLE	CRIN	GLET	ERPW	COLQ
1A	ATRAZINE	4.00 L	0.75 LB/AC	PRE	78	92	0	80	92	92
1B	AMETRYNE	80.00 WP	1.00 LB/AC	PD						
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	100	0	92	100	100
2B	ATRAZINE	4.00 L	2.00 LB/AC	EP						
2C	CROP OIL	0.0 AD	4.00 QT/AC	EP						
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	75	80	0	82	88	80
3B	BENTAZON	4.00 E	0.75 LB/AC	EP						
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	82	0	82	85	82
4B	BENTAZON	4.00 E	0.75 LB/AC	EP						
4C	CROP OIL	0.0 AD	4.00 QT/AC	EP						
5A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	98	82	0	98	82	62
5B	BENTAZON	4.00 E	0.75 LB/AC	EP						
6A	CGA 24705	8.00 E	2.00 LB/AC	PRE	75	70	0	78	80	45
6B	BENTAZON	4.00 E	0.75 LB/AC	EP						
7A	BENTAZON	4.00 E	0.75 LB/AC	EP	55	98	0	58	98	98
7B	ATRAZINE	4.00 L	0.50 LB/AC	EP						
8A	BENTAZON	4.00 E	0.75 LB/AC	EP	75	95	0	75	98	98
8B	ATRAZINE	4.00 L	0.75 LB/AC	EP						
9A	BENTAZON	4.00 E	0.75 LB/AC	EP	65	98	0	65	98	98
9B	ATRAZINE	4.00 L	1.00 LB/AC	EP						
10A	BENTAZON	4.00 E	0.75 LB/AC	EP	70	95	0	72	95	95
10B	ATRAZINE	4.00 L	0.50 LB/AC	EP						
10C	CROP OIL	0.0 AD	4.00 QT/AC	EP						
11A	BENTAZON	4.00 E	0.75 LB/AC	EP	72	98	0	85	98	98
11B	ATRAZINE	4.00 L	0.75 LB/AC	EP						
11C	CROP OIL	0.0 AD	4.00 QT/AC	EP						
12A	BENTAZON	4.00 E	0.75 LB/AC	EP	75	98	0	78	100	100
12B	ATRAZINE	4.00 L	1.00 LB/AC	EP						
12C	CROP OIL	0.0 AD	4.00 QT/AC	EP						
13A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	78	0	92	82	60
13B	DICAMBA	4.00 S	0.50 LB/AC	PRE						
14A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	98	0	90	98	98
14B	DICAMBA	4.00 S	0.50 LB/AC	EP						

TABLE 8. Corn Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----					
					GRAS	BRLE	CRIN	GIEI	RRPW	COLQ
15A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	92	95	0	92	95	95
15B	DICAMBA	4.00 S	0.25 LB/AC	LP						
16A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	98	0	92	98	98
16B	DICAMBA (1.25) + 2,4	3.75 E	0.75 LB/AC	LP						
17A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	92	98	0	92	98	98
17B	2,4-D AMINE	4.00 E	0.50 LB/AC	EP						
18A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	98	0	90	98	98
18B	VEL 4J92	3.00 E	0.25 LB/AC	EP						
19A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	100	0	92	100	100
19B	VEL 4J92	3.00 E	0.25 LB/AC	EP						
19C	2,4-D AMINE	4.00 E	0.50 LB/AC	EP						
20	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100
LSD(05):					14	9	--	16	9	12

LOCATION: SPINDLETOP FRAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 9, 1977
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.8 O.M.: 3.4%
 DATE TREATED: MAY 9, 1977 PRE&PPI
 JUNE 1, 1977 EP
 JUNE 7, 1977 LP

EP - WEEDS 2" TO 4" TALL
 LP - WEEDS 4" TO 6" TALL

TABLE 9. Corn Postemergence Supplement.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----				
					GRAS	BRLE	CBIN	GIEI	RRPW
1	2,4-D AMINE	4.00 E	0.50 LB/AC	EP	70	95	0	78	95
2	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	75	68	0	75	68
3	PENDIMETHALIN	4.00 E	1.50 LB/AC	2LF	72	62	0	75	62
4	PENDIMETHALIN	4.00 E	1.50 LB/AC	4LF	55	38	0	55	38
5A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	80	60	0	80	60
5B	CROP OIL	0.0 AD	1.00 QT/AC	SPK					
6A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2LF	75	72	0	75	72
6B	CROP OIL	0.0 AD	1.00 QT/AC	2LF					
7A	PENDIMETHALIN	4.00 E	1.50 LB/AC	4LF	58	48	0	58	48
7B	CROP OIL	0.0 AD	1.00 QT/AC	4LF					
8A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	85	88	0	85	88
8B	ATRAZINE	4.00 L	1.20 LB/AC	SPK					
9A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2LF	88	98	0	90	98
9B	ATRAZINE	4.00 L	1.20 LB/AC	2LF					
10A	PENDIMETHALIN	4.00 E	1.50 LB/AC	4LF	80	100	0	92	100
10B	ATRAZINE	4.00 L	1.20 LB/AC	4LF					
11	SN 533	2.00 E	1.00 LB/AC	EP	30	15	0	30	15
12	SN 533	2.00 E	2.00 LB/AC	EP	52	48	0	52	48
13	CYANAZINE	4.00 L	2.00 LB/AC	EP	62	58	0	62	58
14	CYANAZINE	80.00 WP	2.00 LB/AC	EP	70	68	0	72	68
15	2,4-D AMINE	4.00 E	1.50 LB/AC	3DA	18	18	0	18	18
16A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	92	0	80	92
16B	2,4-D AMINE	4.00 E	0.38 LB/AC	LP					
17	M-4127	4.00 E	0.75 LB/AC	EP	62	30	0	62	30
18	M-4127	4.00 E	1.00 LB/AC	EP	32	65	0	32	65
19	M-4127	4.00 E	1.50 LB/AC	EP	62	55	0	62	55
20A	M-4127	4.00 E	0.75 LB/AC	EP	90	98	0	92	98
20B	ATRAZINE	4.00 L	1.60 LB/AC	EP					

TABLE 9. Corn Postemergence Supplement (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 14, 1977-----				
					GRAS	BBLE	CRIN	QIEI	BRPW
21	M-4127	4.00 E	1.00 LB/AC	LP	58	42	0	58	42
22	M-4127	4.00 E	1.50 LB/AC	LP	70	52	0	72	52
23	M-4127	4.00 E	2.00 LB/AC	LP	62	50	0	62	50
24A	M-4127	4.00 E	1.00 LB/AC	LP	90	97	0	90	97
24B	ATRAZINE	4.00 L	1.60 LB/AC	LP					
25A	M-4127	4.00 E	1.50 LB/AC	LP	88	95	0	88	95
25B	ATRAZINE	4.00 L	1.60 LB/AC	LP					
26	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100
LSD(05):					19	22	--	19	22

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 9, 1977
 VARIETY: PIONEER 3369A

SOIL TYPE: LANTON SILT LOAM
 PH: 6.8 O.M.: 4.7%
 DATE TREATED: MAY 9, 1977 PPE
 MAY 12, 1977 3DA
 MAY 18, 1977 SPM
 MAY 20, 1977 2LF
 JUNE 1, 1977 EP, 4LF
 JUNE 7, 1977 LP

EP - WEEDS 2" TO 4" TALL
 LP - WEEDS 4" TO 6" TALL

TABLE 10. Corn No-Till in Killed Fescue Sod—Preemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	----JUNE 27, 1977----			
					GRAS	BBLE	CRIN	SQKI
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
1C	SURFACTANT	0.0 WA	0.50 %	PRE				
2A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	100	100	0	100
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	82	82	0	100
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	82	78	0	100
4B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE				
5A	SD 50093	80.00 WP	2.80 LB/AC	PRE	100	100	0	100
5B	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
5C	SURFACTANT	0.0 WA	0.50 %	PRE				
6A	SD 50093	80.00 WP	2.80 LB/AC	PRE	100	100	0	100
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE				
7A	SD 50093	80.00 WP	2.80 LB/AC	PRE	100	100	0	88
7B	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE				
8A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	100	100	0	100
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE				
8C	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE				
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	92	95	0	100
9B	ATRAZINE	4.00 L	1.60 LB/AC	PRE				
9C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
9D	SURFACTANT	0.0 WA	0.50 %	PRE				
10A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PRE	100	100	0	100
10B	WITH ATRAZINE	2.00	1.60	PRE				
10C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
10D	SURFACTANT	0.0 WA	0.50 %	PRE				
11A	CGA 24705	8.00 E	2.00 LB/AC	PRE	100	100	0	100
11B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE				
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
11D	SURFACTANT	0.0 WA	0.50 %	PRE				
12A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	100	0	100
12B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE				
12C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
12D	SURFACTANT	0.0 WA	0.50 %	PRE				

TABLE 10. Corn No-Till in Killed Fescue Sod—Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	----JUNE 27, 1977----			
					GRAS	BRLE	CRIN	SQKI
13A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	100	0	100
13B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE				
13C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE				
14A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100
14B	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
14C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE				
15A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100
15B	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
15C	DICAMBA	4.00 S	0.50 LB/AC	PRE				
15D	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
15E	SURFACTANT	0.0 WA	0.50 %	PRE				
16A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100
16B	DICAMBA	4.00 S	0.50 LB/AC	PRE				
16C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE				
16D	SURFACTANT	0.0 WA	0.50 %	PRE				
17A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	100	100	0	100
17B	ATRAZINE	4.00 L	1.00 LB/AC	PRE				
17C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
17D	SURFACTANT	0.0 WA	0.50 %	PRE				
18A	PENDIMETHALIN	4.00 E	1.50 LB/AC	1WK	100	100	0	100
18B	ATRAZINE	4.00 L	1.00 LB/AC	1WK				
18C	PAPAQUAT	2.00 E	0.25 LB/AC	1WK				
18D	SURFACTANT	0.0 WA	0.50 %	1WK				
19A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	100	100	8	100
19B	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
19C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
19D	SURFACTANT	0.0 WA	0.50 %	PRE				
20A	BUTYLATE PKG MIX	18.00 GR	4.00 LB/AC	PRE	100	100	0	100
20B	WITH ATRAZINE	6.00	1.33	PRE				
20C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
20D	SURFACTANT	0.0 WA	0.50 %	PRE				
21A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	100	100	0	100
21B	DICAMBA	4.00 S	0.50 LB/AC	PRE				
21C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
21D	SURFACTANT	0.0 WA	0.50 %	PRE				
22A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	100	100	78	100
22B	ALACHLOR	4.00 E	2.00 LB/AC	PRE				
22C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
22D	SURFACTANT	0.0 WA	0.50 %	PRE				

TABLE 10. Corn No-Till in Killed Fescue Sod—Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	----JUNE 27, 1977----			
					GRAS	BRLE	CRIN	SQKI
23A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	100	100	38	48
23B	CROP OIL	0.0 AD	4.00 QT/AC	PRE				
24A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	100	100	58	100
24B	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
24C	SURFACTANT	0.0 WA	0.50 %	PRE				
25A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	97	0	100
25B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE				
25C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
25D	SURFACTANT	0.0 WA	0.50 %	PRE				
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	100	8	100
26B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE				
26C	PARAQUAT	2.00 E	0.25 LB/AC	PRE				
26D	SURFACTANT	0.0 WA	0.50 %	PRE				
LSD(05):					8	6	15	6

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 260 N, 60 P, 60 K

DATE PLANTED: MAY 20, 1977

VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM

PH: 6.4 O.M.: 4.0%

DATE TREATED: MAY 18, 1977 (PRE)

MAY 25, 1977 (1WK)

TABLE 11. Corn No-Till Stalkland—Preemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1977-----				
					GRAS	BRLE	CRIN	YEET	RRPW
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	78	85	0	72	82
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
1C	SURFACTANT	0.0 WA	0.50 %	PRE					
2A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	90	90	0	90	90
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	75	65	0	75	65
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	78	65	0	72	60
4B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
5A	SD 50093	80.00 WP	2.80 LB/AC	PRE	88	88	0	88	85
5B	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
5C	SURFACTANT	0.0 WA	0.50 %	PRE					
6A	SD 50093	80.00 WP	2.80 LB/AC	PRE	88	82	0	85	80
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
7A	SD 50093	80.00 WP	2.80 LB/AC	PRE	88	88	0	88	85
7B	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE					
8A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	90	88	0	90	92
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
8C	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE					
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	80	85	0	75	82
9B	ATRAZINE	4.00 L	1.60 LB/AC	PRE					
9C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
9D	SURFACTANT	0.0 WA	0.50 %	PRE					
10A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PRE	85	90	0	85	82
10B	WITH ATRAZINE	2.00	1.60	PRE					
10C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
10D	SURFACTANT	0.0 WA	0.50 %	PRE					
11A	CGA 24705	8.00 E	2.00 LB/AC	PRE	90	85	0	90	85
11B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE					
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
11D	SURFACTANT	0.0 WA	0.50 %	PRE					
12A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	90	90	0	90	90
12B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE					
12C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
12D	SURFACTANT	0.0 WA	0.50 %	PRE					

TABLE 11. Corn No-Till Stalkland—Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1977-----				
					GRAS	BRLE	CRIN	YEET	RRPW
13A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	90	95	0	85	88
13B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE					
13C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
14A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	90	98	0	88	95
14B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
14C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
15A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	88	90	0	85	90
15B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
15C	DICAMBA	4.00 S	0.50 LB/AC	PRE					
15D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
15E	SURFACTANT	0.0 WA	0.50 %	PRE					
16A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	80	88	0	80	80
16B	DICAMBA	4.00 S	0.50 LB/AC	PRE					
16C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
16D	SURFACTANT	0.0 WA	0.50 %	PRE					
17A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	78	82	0	78	80
17B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
17C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
17D	SURFACTANT	0.0 WA	0.50 %	PRE					
18A	PENDIMETHALIN	4.00 E	1.50 LB/AC	1WK	82	90	20	78	85
18B	ATRAZINE	4.00 L	1.00 LB/AC	1WK					
18C	PARAQUAT	2.00 E	0.25 LB/AC	1WK					
18D	SURFACTANT	0.0 WA	0.50 %	1WK					
19A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	85	85	5	82	82
19B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
19C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
19D	SURFACTANT	0.0 WA	0.50 %	PRE					
20A	BUTYLATE PKG MIX	18.00 GR	4.00 LB/AC	PRE	90	85	0	85	88
20B	WITH ATRAZINE	6.00	1.33	PRE					
20C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
20D	SURFACTANT	0.0 WA	0.50 %	PRE					
21A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	90	88	0	88	88
21B	DICAMBA	4.00 S	0.50 LB/AC	PRE					
21C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
21D	SURFACTANT	0.0 WA	0.50 %						
22A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	82	80	20	82	78
22B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
22C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
22D	SURFACTANT	0.0 WA	0.50 %	PRE					

TABLE 12. Corn Yellow Nutsedge.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	CRIN	YENS	CRIN
1	H-22234	4.00 E	3.00 LB/AC	PRE	15	0	25	0
2	CGA 24705	8.00 E	2.00 LB/AC	PRE	74	0	80	0
3	CGA 24705	8.00 E	3.00 LB/AC	PRE	81	0	91	0
4	ALACHLOR	4.00 E	3.00 LB/AC	PRE	85	0	74	0
5	H-26910	4.00 E	3.00 LB/AC	PRE	64	0	70	0
6	SN 533	2.00 E	2.00 LB/AC	PRE	21	1	75	0
7A	H-22234	4.00 E	3.00 LB/AC	PRE	30	1	32	0
7B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
8A	CGA 24705	8.00 E	2.00 LB/AC	PRE	71	1	81	0
8B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
9A	CGA 24705	8.00 E	3.00 LB/AC	PRE	86	0	92	0
9B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	82	0	69	0
10B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
11A	ALACHLOR	4.00 E	3.10 LB/AC	PRE	78	0	68	0
11B	ATRAZINE	4.00 L	1.90 LB/AC	PRE				
12A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PRE	68	0	51	0
12B	WITH ATRAZINE	1.50	1.50	PRE				
13A	ALACHLOR PKG MIX	2.50 L	3.10 LB/AC	PRE	66	0	61	0
13B	WITH ATRAZINE	1.50	1.90	PRE				
14A	H-26910	4.00 E	3.00 LB/AC	PRE	69	0	72	0
14B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
15	H-22234	4.00 E	3.00 LB/AC	PPI	65	0	52	0
16	CGA 24705	8.00 E	2.00 LB/AC	PPI	94	0	92	0
17	CGA 24705	8.00 E	3.00 LB/AC	PPI	93	0	95	0
18	ALACHLOR	4.00 E	3.00 LB/AC	PPI	92	0	89	0
19	H-26910	4.00 E	3.00 LB/AC	PPI	80	2	69	0
20	SN 533	2.00 E	2.00 LB/AC	PPI	62	0	71	0

TABLE 12. Corn Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	GRIN	YENS	GRIN
21A	H-22234	4.00 E	3.00 LB/AC	PPI	80	0	66	0
21B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
22A	CGA 24705	8.00 E	2.00 LB/AC	PPI	90	0	93	0
22B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
23A	CGA 24705	8.00 E	3.00 LB/AC	PPI	92	0	94	0
23B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
24A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	85	0	69	0
24B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
25A	ALACHLOR	4.00 E	3.10 LB/AC	PPI	89	0	79	0
25B	ATRAZINE	4.00 L	1.90 LB/AC	PPI				
26A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PPI	90	0	78	0
26B	WITH ATRAZINE	1.50	1.50	PPI				
27A	ALACHLOR PKG MIX	2.50 L	3.10 LB/AC	PPI	91	0	81	0
27B	WITH ATRAZINE	1.50	1.90	PPI				
28A	H-26910	4.00 E	3.00 LB/AC	PPI	86	2	84	0
28B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
29	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	94	0	95	0
30	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	96	1	90	0
31	EPTC + R25788	6.70 E	8.00 LB/AC	PPI	99	1	99	0
32	EPTC (6.7) + R-29148	6.70 L	4.00 LB/AC	PPI	96	0	94	0
33	EPTC (6.7) + P-29148	6.70 L	6.00 LB/AC	PPI	98	1	97	0
34	EPTC (6.7) + R-29148	6.70 L	8.00 LB/AC	PPI	98	1	98	0
35A	EPTC (6.7) + R-29148	6.70 L	4.00 LB/AC	PPI	97	1	96	0
35B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
36A	EPTC (6.7) + P-29148	6.70 L	6.00 LB/AC	PPI	98	0	99	0
36B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
37A	EPTC (6.7) + R-29148	6.70 L	8.00 LB/AC	PPI	97	0	98	0
37B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
38	VERNOLATE + R-25788	6.70 E	4.00 LB/AC	PPI	94	0	91	0

TABLE 12. Corn Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	CRIN	YENS	CRIN
39	VERNOLATE + R-25788	6.70 E	6.00 LB/AC	PPI	97	0	97	0
40	VERNOLATE + R-25788	6.70 E	8.00 LB/AC	PPI	98	0	99	0
41	VERNOLATE (6.7) + R-	6.70 L	4.00 LB/AC	PPI	96	0	92	0
42	VERNOLATE (6.7) + R-	6.70 L	6.00 LB/AC	PPI	96	0	96	0
43	VERNOLATE (6.7) + R-	6.70 L	8.00 LB/AC	PPI	97	0	97	0
44A	VERNOLATE (6.7) + R-	6.70 L	4.00 LB/AC	PPI	94	0	90	0
44B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
45A	VERNOLATE (6.7) + R-	6.70 L	6.00 LB/AC	PPI	97	0	98	0
45B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
46A	VERNOLATE (6.7) + R-	6.70 L	8.00 LB/AC	PPI	97	0	98	0
46B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
47	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	84	0	81	0
48	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	87	0	85	0
49	BUTYLATE + R-25788	6.70 E	8.00 LB/AC	PPI	90	0	91	0
50	BUTYLATE (6.7) + R-2	6.70 L	4.00 LB/AC	PPI	86	0	79	0
51	BUTYLATE (6.7) + R-2	6.70 L	6.00 LB/AC	PPI	92	0	94	0
52	BUTYLATE (6.7) + R-2	6.70 L	8.00 LB/AC	PPI	95	0	95	0
53A	BUTYLATE (6.7) + R-2	6.70 L	4.00 LB/AC	PPI	88	0	86	0
53B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
54A	BUTYLATE (6.7) + R-2	6.70 L	6.00 LB/AC	PPI	90	0	90	0
54B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
55A	BUTYLATE (6.7) + R-2	6.70 L	8.00 LB/AC	PPI	96	0	97	0
55B	ATRAZINE	4.00 L	1.00 LB/AC	PPI				
56	BENTAZON	4.00 E	1.00 LB/AC	EP	0	0	81	0
57	BENTAZON	4.00 E	2.00 LB/AC	LP	21	0	91	0
58A	BENTAZON	4.00 E	1.00 LB/AC	EP	0	0	91	0
58B	BENTAZON	4.00 E	1.00 LB/AC	LP				

TABLE 12. Corn Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	QRIN	YENS	QRIN
59A	BENTAZON	4.00 E	2.00 LB/AC	EP	0	0	91	0
59B	BENTAZON	4.00 E	2.00 LB/AC	LP				
60A	BENTAZON	4.00 E	1.00 LB/AC	EP	0	0	81	0
60B	2,4-D AMINE	4.00 E	1.00 LB/AC	EP				
61A	BENTAZON	4.00 E	1.00 LB/AC	EP	0	0	71	0
61B	DICAMBA	4.00 S	0.50 LB/AC	EP				
62	SN 533	2.00 E	2.00 LB/AC	EP	0	0	44	0
63	CHECK (UNCULTIVATED)	0.0 CK	0.0		0	0	0	0
64	CHECK (CULTIVATED)	0.0 CK	0.0		100	0	100	0
LSD(05):					17	NS	17	NS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.4 O.M.: 2.6%
 DATE PLANTED: MAY 2, 1977 DATE TREATED: MAY 2, 1977 PRE&PPI
 VARIETY: PIONEER 3369A MAY 23, 1977 EP
 JUNE 2, 1977 LP

TABLE 13. Soybean Preemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BRLE	CRIN	GIET	REPW	JIWE	COQB	COLO
1	CHLORAMIBEN	2.00 E	3.00 LB/AC	PRE	48	12	0	48	40	12	12	12
2	H-22234	4.00 E	2.50 LB/AC	PRE	90	10	0	90	80	10	10	10
3	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	10	0	90	75	12	12	12
4	LINURON	50.00 WP	1.00 LB/AC	PRE	70	10	0	68	40	10	10	10
5	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	60	10	0	60	20	10	10	10
6	CGA 24705	8.00 E	2.50 LB/AC	PRE	90	18	0	90	80	15	15	15
7A	CGA 24705	8.00 E	2.00 LB/AC	PRE	90	78	0	62	92	88	82	80
7B	RH 2915	2.00 E	0.38 LB/AC	PRE								
8A	CGA 24705	8.00 E	2.00 LB/AC	PRE	90	30	0	90	82	30	30	30
8B	LINURON	50.00 WP	1.00 LB/AC	PRE								
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	90	30	0	85	72	28	28	28
9B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE								
10A	CGA 24705	8.00 E	2.00 LB/AC	PRE	90	18	0	88	82	20	20	20
10B	CHLOROBROMURON	50.00 WP	1.50 LB/AC	PRE								
11A	CGA 24705	8.00 E	2.00 LB/AC	PRE	82	30	0	82	60	40	40	40
11B	NAPTALAM	3.00 E	4.50 LB/AC	PRE								
12A	H-22234	4.00 E	2.00 LB/AC	PRE	68	22	0	65	60	20	20	20
12B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
13A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	22	0	80	82	20	20	20
13B	LINURON	50.00 WP	0.76 LB/AC	PRE								
14A	ALACHLOR PKG MIX	2.90 L	2.00 LB/AC	PRE	75	18	0	50	32	20	20	25
14B	WITH LINURON	1.10	0.76	PRE								
15A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	18	0	80	65	18	18	18
15B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
16A	ALACHLOR PKG MIX	3.20 E	2.00 LB/AC	PRE	85	32	0	80	75	28	28	28
16B	WITH METRIBUZIN	0.60	0.38									
17A	RH 2915	2.00 E	0.38 LB/AC	PRE	85	85	20	85	90	85	80	80
17B	ALACHLOR	4.00 E	2.00 LB/AC	PRE								
18A	PENDIMETHALIN	4.00 E	0.75 LB/AC	PRE	62	28	0	65	78	30	30	30
18B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								

TABLE 13. Soybean Preemergence (cont.)

TRT NO.	HEPBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BRLE	CRIN	GIFT	RRPW	JIWE	COCB	COLQ
19A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	75	25	0	75	82	22	22	18
19B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE								
20A	PENDIMETHALIN	4.00 E	0.75 LB/AC	PRE	80	10	0	80	55	10	10	10
20B	LINURON	50.00 WP	0.75 LB/AC	PRE								
21A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	72	22	0	72	78	20	22	40
21B	LINURON	50.00 WP	1.00 LB/AC	PRE								
22	SN 533	2.00 E	2.00 LB/AC	PRE	82	10	0	68	55	10	10	10
23A	SN 533	2.00 E	1.00 LB/AC	PRE	88	18	0	88	72	12	12	12
23B	LINURON	50.00 WP	1.00 LB/AC	PRE								
24A	CHLORAMIBEN	2.00 E	3.00 LB/AC	PRE	90	18	0	90	45	15	15	15
24B	CGA 24705	8.00 E	2.00 LB/AC	PRE								
25A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE	82	15	0	82	65	12	12	12
25B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
26A	CHLORAMIBEN	2.00 E	1.50 LB/AC	PRE	90	18	0	90	72	15	15	15
26B	ALACHLOR	4.00 E	1.50 LB/AC	PRE								
26C	METRIBUZIN	50.00 WP	0.25 LB/AC	PRE								
27A	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE	85	15	0	85	80	15	15	15
27B	LINURON	50.00 WP	1.00 LB/AC	PRE								
28A	CHLORAMIBEN	2.00 E	3.00 LB/AC	PRE	80	12	10	62	58	12	12	12
28B	ALACHLOR	4.00 E	2.00 LB/AC	PRE								
29A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	85	10	0	70	70	10	10	10
29B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PRE								
30A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	60	10	0	62	72	10	10	10
30B	LINURON	50.00 WP	0.75 LB/AC	PRE								
31A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	40	10	0	40	42	10	10	10
31B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
32A	ORYZALIN	75.00 WP	1.00 LB/AC	PRE	62	15	0	58	58	12	12	12
32B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
33A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	75	70	5	75	85	78	65	65
33B	RH 2915	2.00 E	0.38 LB/AC	PRE								
34A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	85	12	0	62	35	12	12	12
34B	NAPTALAM	3.00 E	4.50 LB/AC	PRE								

TABLE 13. Soybean Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BELE	CRIN	GIEI	BRPW	JIWE	COQB	CCLQ
35	VCS 438	75.00 WP	1.00 LB/AC	PRE	40	10	0	40	25	10	10	10
36	VCS 438	75.00 WP	3.00 LB/AC	PRE	45	30	0	45	72	32	32	32
37A	VCS 438	75.00 WP	1.00 LB/AC	PRE	90	35	0	90	92	62	35	35
37B	ALACHLOR	4.00 E	2.00 LB/AC	PRE								
38A	VCS 438	75.00 WP	0.50 LB/AC	PRE	85	45	0	82	75	45	45	45
38B	ALACHLOR	4.00 E	2.00 LB/AC	PRE								
38C	METRIBUZIN	50.00 WP	0.25 LB/AC	PRE								
39	HOE 29152	3.00 E	0.25 LB/AC	PRE	55	10	0	55	20	10	10	10
40	HOE 29152	3.00 E	0.50 LB/AC	PRE	68	10	0	60	15	10	10	10
41	HOE 29152	3.00 E	1.00 LB/AC	PRE	80	12	0	60	50	12	12	12
42A	HOE 29152	3.00 E	0.25 LB/AC	PRE	62	10	0	62	10	10	10	10
42B	LINURON	50.00 WP	0.75 LB/AC	PRE								
43A	HOE 29152	3.00 E	0.50 LB/AC	PRE	40	10	0	40	25	10	10	10
43B	LINURON	50.00 WP	0.75 LB/AC	PRE								
44A	HOE 29152	3.00 E	1.00 LB/AC	PRE	90	10	0	90	55	10	10	10
44B	LINURON	50.00 WP	0.75 LB/AC	PRE								
45A	HOE 29152	3.00 E	0.25 LB/AC	PRE	82	10	0	82	70	10	10	10
45B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
46A	HOE 29152	3.00 E	0.50 LB/AC	PRE	72	18	0	72	70	18	18	18
46B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
47A	HOE 29152	3.00 E	1.00 LB/AC	PRE	75	10	0	62	58	10	30	10
47B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
48	R-24191	35.00 WP	1.00 LB/AC	PRE	78	10	0	78	42	10	10	10
49	R-24191	35.00 WP	2.00 LB/AC	PRE	85	40	0	85	72	55	55	55
50A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	90	62	0	95	95	68	60	60
50B	CGA 24705	8.00 E	2.00 LB/AC	PRE								
51A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	85	72	0	85	95	82	65	70
51B	CGA 24705	8.00 E	4.00 LB/AC	PRE								
52A	BIFENOX	4.00 F	1.00 LB/AC	PRE	88	62	0	92	100	65	62	68
52B	ALACHLOR	4.00 E	2.00 LB/AC	PRE								

TABLE 13. Soybean Preemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BRLE	CRIN	GIFT	RRPW	JIWE	COCB	CDLQ
53A	BIFENOX	4.00 F	2.00 LB/AC	PRE	90	60	0	90	75	68	50	62
53B	CGA 24705	8.00 E	2.00 LB/AC	PRE								
54	BUTAM	6.00 E	2.00 LB/AC	PRE	72	10	0	58	40	10	10	10
55	BUTAM	6.00 E	3.00 LB/AC	PRE	80	10	0	80	65	10	10	10
56A	BUTAM	6.00 E	2.00 LB/AC	PRE	48	10	0	48	40	10	10	10
56B	LINURON	50.00 WP	0.75 LB/AC	PRE								
57A	BUTAM	6.00 E	2.00 LB/AC	PRE	85	18	0	85	70	15	15	15
57B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
58	RH 3359	0.75 L	0.25 LB/AC	PRE	58	10	0	58	10	10	10	10
59	RH 3359	0.75 L	0.50 LB/AC	PRE	75	10	0	75	40	10	10	10
60	RH 3359	0.75 L	1.00 LB/AC	PRE	80	12	0	80	72	12	12	12
61	RH-8817	2.00 E	0.50 LB/AC	PRE	72	78	0	75	78	80	82	82
62	RH-8817	2.00 E	1.00 LB/AC	PRE	78	92	5	72	92	90	90	90
63	RH 2915	2.00 E	0.50 LB/AC	PRE	85	82	18	85	92	90	80	85
64	RH 6201	2.00 E	1.00 LB/AC	PRE	80	10	0	80	55	10	10	10
65	RH 6201	2.00 E	2.00 LB/AC	PRE	82	28	0	82	80	20	20	30
66	M-4127	4.00 E	1.00 LB/AC	PRE	80	10	0	65	55	10	10	10
67	M-4127	4.00 E	1.50 LB/AC	PRE	78	12	0	58	58	15	15	15
68A	M-4127	4.00 E	1.00 LB/AC	PRE	90	32	0	90	75	32	32	32
68B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
69A	M-4127	4.00 E	1.50 LB/AC	PRE	90	38	0	90	80	48	50	58
69B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
70A	NAPTALAM	3.00 E	3.00 LB/AC	PRE	85	38	0	85	82	60	35	32
70B	ALACHLOR	4.00 E	2.00 LB/AC	PRE								
70C	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
71A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	88	42	0	88	70	55	55	55
71B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
72	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100	100
			LSD(05):		20	13	4	25	26	13	14	15

TABLE 13. Soybean Preemergence (cont.)

LOCATION: SPINDLETOP FARM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K SOIL TYPE: MAURY SILT LOAM
DATE PLANTED: MAY 17, 1977 PH: 6.8 O.M.: 3.6%
VARIETY: CALLAND DATE TREATED: MAY 17, 1977 (PRE)

TABLE 14. Soybean Preemergence Supplement.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----					
					GRAS	BBLE	CRIN	GIEI	EROW	JIWE
1	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	58	30	0	58	42	30
2A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	90	75	0	90	88	65
2B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
3	DPX 3869	0.0 LM	2.50 QT/AC	PRE	78	68	0	78	78	68
4	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	65	30	0	65	75	22
5A	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	80	60	0	80	72	60
5B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
6A	DPX 2504-B	4.00 L	0.50 LB/AC	PRE	85	70	0	85	75	70
6B	CGA 24705	8.00 E	2.00 LB/AC	PRE						
7	DPX 2504-D	75.00 WP	0.50 LB/AC	PRE	80	60	0	80	65	48
8A	DPX 2504-D	75.00 WP	0.50 LB/AC	PRE	85	75	0	85	85	65
8B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
9A	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	82	78	0	85	82	78
9B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
9C	NAPTALAM	3.00 E	3.00 LB/AC	PRE						
10A	LINURON	50.00 WP	0.75 LB/AC	PRE	80	75	0	80	80	72
10B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
10C	NAPTALAM	3.00 E	3.00 LB/AC	PRE						
11	DPX 4240	0.0 LM	4.00 QT/AC	PRE	75	60	0	80	75	50
12	DPX 326-E	4.00 L	1.00 LB/AC	PRE	70	10	0	70	38	10
13A	DPX 326-E	4.00 L	1.00 LB/AC	PRE	80	15	0	80	42	15
13B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
14	DPX 326-D	75.00 WP	1.00 LB/AC	PRE	70	10	0	70	45	10
15A	DPX 326-D	75.00 WP	1.00 LB/AC	PRE	80	45	0	80	82	42
15B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
16	OXADIAZON	2.00 E	1.50 LB/AC	PRE	72	30	0	72	35	22
17A	OXADIAZON	2.00 E	1.00 LB/AC	PRE	90	70	0	90	78	70
17B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
18	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100
			LSD (.05):		10	17	--	11	21	19

TABLE 14. Soybean Preemergence Supplement (cont.)

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.8 O.M.: 3.6%
DATE PLANTED: MAY 18, 1977 DATE TREATED: MAY 18, 1977 (PRE)
VARIETY: CALLAND

TABLE 15. Soybean Preplant Incorporated Overlay.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----						
					GEAS	BRLE	CRIN	GIFT	RRPW	JIWE	CCCB
1	H-22234	4.00 E	3.00 LB/AC	PPI	88	18	0	88	85	18	18
2	FLUCLORALIN	4.00 E	1.00 LB/AC	PPI	82	10	0	82	80	10	10
3	DINITROMINE	2.00 E	0.50 LB/AC	PPI	85	18	0	82	88	18	18
4	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	88	18	0	88	90	20	20
5	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	88	15	0	88	80	15	15
6	VERNOLATE	7.00 E	2.50 LB/AC	PPI	88	12	0	88	80	12	12
7	VERNOLATE	6.70 EW	2.50 LB/AC	PPI	90	12	0	90	80	15	15
8	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI	78	50	0	75	85	32	32
9	USB 3153	50.00 WP	0.50 LB/AC	PPI	88	25	0	85	80	25	25
10	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	90	22	0	90	90	22	22
11A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	85	50	0	85	70	45	45
11B	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI							
12A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	90	38	0	90	90	38	38
12B	NAPTALAM	3.00 E	4.50 LB/AC	PRE							
13A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	90	12	0	90	88	10	10
13B	LINURON	50.00 WP	1.00 LB/AC	PRE							
14A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	82	32	0	80	85	32	32
14B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE							
15A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	90	25	0	90	90	22	22
15B	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI							
16	CHLORAMIBEN	2.00 E	3.00 LB/AC	PPI	88	10	0	85	80	10	10
17A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	90	12	0	90	85	15	15
17B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI							
18A	TRIFLURALIN	4.00 E	0.50 LB/AC	PPI	90	10	0	90	68	15	15
18B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI							
19A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	90	12	0	90	90	12	12
19B	CHLORAMIBEN	2.00 E	1.50 LB/AC	PPI							
20A	FLUCLORALIN	4.00 E	1.00 LB/AC	PPI	85	12	0	85	82	12	12
20B	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE							

TABLE 15. Soybean Preplant Incorporated Overlay (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----						
					GRAS	BRLE	CRIN	GIEI	RRPW	JIWE	COCB
21A	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	88	15	0	88	80	15	15
21B	CHLORPROPHAM	4.00 E	2.00 LB/AC	PPI							
22A	DPX 2504-B	4.00 L	0.38 LB/AC	PPI	88	15	0	88	88	15	15
22B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI							
23A	DPX 2504-D	75.00 WP	0.56 LB/AC	PPI	88	35	0	88	82	35	35
23B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI							
24A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	90	10	0	90	85	10	10
24B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI							
25A	SONALAN	3.00 E	0.75 LB/AC	PPI	85	18	0	85	85	20	20
25B	CHLORAMIBEN	2.00 E	1.50 LB/AC	PPI							
26A	SONALAN	3.00 E	0.75 LB/AC	PPI	90	18	0	90	80	18	18
26B	CHLORAMIBEN	2.00 E	2.00 LB/AC	PPI							
27A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	90	20	0	90	90	18	18
27B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE							
28A	SONALAN	3.00 E	0.75 LB/AC	PPI	80	10	0	80	90	10	10
28B	LINURON	50.00 WP	0.75 LB/AC	PRE							
29A	TRIFLURALIN	4.00 E	0.50 LB/AC	PPI	90	20	0	90	90	15	15
29B	ORYZALIN	4.00 AS	0.25 LB/AC	PPI							
29C	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI							
30A	TRIFLURALIN	4.00 E	0.38 LB/AC	PPI	90	40	0	90	85	30	35
30B	ORYZALIN	4.00 AS	0.50 LB/AC	PPI							
30C	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI							
31A	TRIFLURALIN	4.00 E	0.50 LB/AC	PPI	90	42	0	90	90	48	48
31B	METRIBUZIN	50.00 WP	0.25 LB/AC	PPI							
31C	NAPTALAM	3.00 E	3.00 LB/AC	PRE							
32A	TRIFLURALIN	4.00 E	0.50 LB/AC	PPI	80	30	0	80	85	30	30
32B	RH 2915	2.00 E	0.50 LB/AC	PPI							
33	RH 2915	2.00 E	0.50 LB/AC	PPI	80	15	0	80	85	10	10
34A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	85	28	0	85	90	28	28
34B	RH 2915	2.00 E	0.50 LB/AC	PPI							
35A	CGA 24705	8.00 E	2.00 LB/AC	PPI	88	45	0	85	80	45	45
35B	RH 2915	2.00 E	0.50 LB/AC	PPI							

TABLE 15. Soybean Preplant Incorporated Overlay (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----						
					GRAS	BRLE	CEIN	GIET	EEPW	JIWE	COCB
36A	CGA 24705	8.00 E	2.00 LB/AC	PRE	90	32	0	90	90	50	30
36B	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE							
37	H0E 29152	3.00 E	1.50 LB/AC	PRE	90	10	0	90	42	10	10
38	H0E 29152	3.00 E	3.00 LB/AC	PRE	90	10	0	90	68	10	10
39	H0E 29152	3.00 E	1.50 LB/AC	PPI	85	10	0	85	25	10	10
40	H0E 29152	3.00 E	3.00 LB/AC	PPI	85	10	0	85	42	10	10
41	H0E 29152	3.00 E	0.25 LB/AC	PPI	70	12	0	80	62	12	12
42	H0E 29152	3.00 E	0.50 LB/AC	PPI	88	10	0	88	10	10	10
43	H0E 29152	3.00 E	1.00 LB/AC	PPI	88	10	0	88	68	10	10
44A	H0E 29152	3.00 E	0.25 LB/AC	PPI	80	15	0	80	82	15	15
44B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI							
45A	H0E 29152	3.00 E	0.50 LB/AC	PPI	85	18	0	85	88	18	18
45B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI							
46A	H0E 29152	3.00 E	1.00 LB/AC	PPI	88	30	0	88	88	28	28
46B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI							
47A	H0E 29152	3.00 E	0.25 LB/AC	PPI	80	10	0	80	78	10	10
47B	LINURON	50.00 WP	0.75 LB/AC	PRE							
48A	H0E 29152	3.00 E	0.50 LB/AC	PPI	90	18	2	90	90	18	18
48B	LINURON	50.00 WP	0.75 LB/AC	PRE							
49A	H0E 29152	3.00 E	1.00 LB/AC	PPI	78	15	0	78	82	15	15
49B	LINURON	50.00 WP	0.75 LB/AC	PRE							
50A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	88	38	0	88	92	45	45
50B	RH 2915	2.00 E	0.50 LB/AC	PPI							
51A	DINITROMINE	2.00 E	0.38 LB/AC	PPI	90	45	0	88	75	48	48
51B	NAPTALAM	3.00 E	4.50 LB/AC	PRE							
52A	USB 3153	50.00 WP	0.38 LB/AC	PPI	88	38	0	88	85	35	35
52B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE							
53A	USB 3153	50.00 WP	0.38 LB/AC	PPI	90	20	0	90	80	18	18
53B	LINURON	50.00 WP	0.75 LB/AC	PRE							

TABLE 15. Soybean Preplant Incorporated Overlay (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----						
					GRAS	BRLE	CRIN	GIEI	BRPW	JIWE	CCCB
54A	USB 3153	50.00 WP	0.38 LB/AC	PPI	90	52	0	90	90	45	42
54B	NAPTALAM	3.00 E	4.50 LB/AC	PRE							
55	DINITROMINE (1.43) +	2.00 E	0.50 LB/AC	PPI	88	28	0	88	90	28	28
56A	DINITROMINE	2.00 E	0.25 LB/AC	PPI	88	22	0	88	88	22	22
56B	USB 3153	50.00 WP	0.25 LB/AC	PPI							
57A	DINITROMINE	2.00 E	0.25 LB/AC	PPI	90	25	0	90	85	20	20
57B	USB 3153	50.00 WP	0.25 LB/AC	PPI							
57C	METRIBUZIN	50.00 WP	0.25 LB/AC	PPI							
58A	VERNOLATE	7.00 E	2.00 LB/AC	PPI	90	10	0	90	78	10	10
58B	CHLORAMIBEN	2.00 E	1.50 LB/AC	PPI							
59A	VERNOLATE	7.00 E	2.50 LB/AC	PPI	90	35	15	90	90	28	28
59B	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI							
60A	ALACHLOR PKG MIX	3.20 E	2.00 LB/AC	PPI	85	32	0	85	88	30	30
60B	WITH METRIBUZIN	0.60	0.38								
61A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	85	22	0	85	82	22	22
61B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI							
62	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100
			LSD(05):		7	15	4	7	17	14	14

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 60 N,

60 P,

SOIL TYPE: MAURY SILT LOAM

PH: 6.8 O.M.: 3.6%

DATE PLANTED: MAY 17, 1977

DATE TREATED: MAY 17, 1977 (PPI)

VARIETY:

TABLE 16. Soybean Preplant Incorporated Overlay Supplement.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----					
					GRAS	BBLE	CRIN	GIEI	BRPW	JIWE
1	H-22234	4.00 E	2.00 LB/AC	PPI	80	32	0	80	35	32
2	H-22234	4.00 E	4.00 LB/AC	PPI	80	20	0	80	88	20
3A	H-22234	4.00 E	2.00 LB/AC	PPI	80	40	0	80	72	38
3B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI						
4A	H-22234	4.00 E	4.00 LB/AC	PPI	88	78	0	85	85	75
4B	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI						
5A	H-22234	4.00 E	2.00 LB/AC	PPI	80	58	0	80	68	68
5B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE						
6A	H-22234	4.00 E	2.00 LB/AC	PPI	80	10	0	80	28	10
6B	LINURON	50.00 WP	0.75 LB/AC	PRE						
7A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	80	15	0	80	15	15
7B	BIFENOX	80.00 WP	1.20 LB/AC	PPI						
8A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	80	15	0	80	28	12
8B	BIFENOX	80.00 WP	2.40 LB/AC	PPI						
9A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	80	10	0	80	80	10
9B	BIFENOX	4.00 F	1.00 LB/AC	PPI						
10A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	80	10	0	80	62	10
10B	BIFENOX	4.00 F	2.00 LB/AC	PPI						
11A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	80	30	0	80	55	22
11B	BIFENOX	4.00 F	4.00 LB/AC	PPI						
12A	BIFENOX	80.00 WP	1.20 LB/AC	PPI	80	20	0	80	80	42
12B	ALACHLOR	4.00 E	2.00 LB/AC	PPI						
13A	BIFENOX	4.00 F	1.00 LB/AC	PPI	72	20	0	80	50	18
13B	ALACHLOR	4.00 E	2.00 LB/AC	PPI						
14A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	80	10	0	80	28	10
14B	BIFENOX	80.00 WP	1.20 LB/AC	PP-						
15A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	72	18	0	72	62	18
15B	BIFENOX	80.00 WP	2.40 LB/AC	PPI						
16A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	80	10	0	80	62	10
16B	BIFENOX	4.00 F	1.00 LB/AC	PPI						
17A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	80	10	0	80	38	10
17B	BIFENOX	4.00 F	2.00 LB/AC	PPI						

TABLE 17. Soybean Postemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BRLE	CRIN	GIFT	RRPW	JIWE	COCB	COLQ
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	82	78	5	82	85	85	85	85
1B	BENTAZON	4.00 E	0.50 LB/AC	EP								
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	80	0	88	52	72	72	62
2B	BENTAZON	4.00 E	0.75 LB/AC	MP								
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	90	2	90	95	92	92	90
3B	BENTAZON	4.00 E	1.00 LB/AC	LP								
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	82	80	15	82	90	80	82	82
4B	BENTAZON	4.00 E	0.50 LB/AC	EP								
4C	CROP OIL	0.0 AD	1.00 QT/AC	EP								
5A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	85	80	0	85	88	90	90	60
5B	BENTAZON	4.00 E	0.75 LB/AC	MP								
5C	CROP OIL	0.0 AD	1.00 QT/AC	MP								
6A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	85	15	90	90	92	92	82
6B	BENTAZON	4.00 E	1.00 LB/AC	LP								
6C	CROP OIL	0.0 AD	1.00 QT/AC	LP								
7A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	85	80	15	85	90	88	88	72
7B	NAPTALAM	3.00 E	3.00 LB/AC	LP								
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	75	12	75	95	75	75	75
8B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE								
8C	NAPTALAM	3.00 E	3.00 LB/AC	LP								
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	85	75	15	85	90	72	72	58
9B	CHLOROXYURON	50.00 WP	1.50 LB/AC	EP								
10A	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	75	90	15	75	92	92	92	92
10B	NAPTALAM	3.00 E	3.00 LB/AC	LP								
11A	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	78	90	32	78	92	92	92	92
11B	NAPTALAM	3.00 E	4.50 LB/AC	LP								
12	BAS-9021	75.00 WP	1.00 LB/AC	EP	90	10	0	90	10	10	10	10
13	BAS-9021	75.00 WP	2.00 LB/AC	EP	90	10	0	90	10	10	10	10
14A	BAS-9021	75.00 WP	1.00 LB/AC	EP	90	10	0	90	10	10	10	10
14B	CROP OIL	0.0 AD	4.00 QT/AC	EP								
15A	BAS-9021	75.00 WP	2.00 LB/AC	EP	90	10	0	90	10	10	10	10
15B	CROP OIL	0.0 AD	4.00 QT/AC	EP								

TABLE 17. Soybean Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BRLE	GRIN	GIEI	BRPW	JIWE	COCB	COLQ
16A	BAS-9021	75.00 WP	2.00 LB/AC	EP	90	80	2	90	82	78	78	78
16B	BENTAZON	4.00 F	1.00 LB/AC	EP								
17A	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	78	85	12	78	90	90	90	90
17B	BENTAZON	4.00 F	1.50 LB/AC	LP								
18A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	85	85	2	85	88	80	80	80
18B	BENTAZON	4.00 E	0.75 LB/AC	EP								
19A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	82	85	32	82	98	90	90	90
19B	NAPTALAM	3.00 E	1.50 LB/AC	EP								
19C	2,4-DB	2.00 F	0.13 LB/AC	EP								
20A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	88	85	42	85	95	88	88	88
20B	NAPTALAM	3.00 E	1.50 LB/AC	MP								
20C	2,4-DB	2.00 E	0.25 LB/AC	MP								
21A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	80	90	38	82	95	90	90	90
21B	NAPTALAM	3.00 E	1.50 LB/AC	LP								
21C	2,4-DB	2.00 E	0.38 LB/AC	LP								
22A	TRIFLURALIN	4.00 E	0.50 LB/AC	PPI	82	78	10	85	100	88	85	82
22B	RH 6201	2.00 E	0.50 LB/AC	EP								
23A	DINITROMINE	2.00 E	0.50 LB/AC	PPI	85	82	10	82	72	85	85	85
23B	RH 6201	2.00 F	0.50 LB/AC	LP								
24A	MBR-12325	2.00 S	0.25 LB/AC	EP	90	55	52	90	85	55	55	58
24B	SURFACTANT	0.0 WA	0.50 %	EP								
25A	MBR-12325	2.00 S	0.25 LB/AC	EP	78	82	10	78	80	72	75	78
25B	BENTAZON	4.00 E	0.75 LB/AC	EP								
26A	MBR-12325	2.00 S	0.25 LB/AC	EP	85	75	25	85	78	78	80	80
26B	RH 6201	2.00 E	0.75 LB/AC	EP								
27A	MBR-12325	2.00 S	0.25 LB/AC	EP	82	82	0	82	92	82	82	82
27B	NAPTALAM	3.00 E	3.00 LB/AC	EP								
28A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	82	15	88	92	92	88	88
28B	METRIBUZIN	50.00 WP	0.38 LB/AC	POD								
29A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	88	10	88	98	92	92	92
29B	METRIBUZIN	4.00 F	0.38 LB/AC	POD								
30	RH 3359	0.75 L	0.06 LB/AC	LP	55	52	0	55	60	45	48	48

TABLE 17. Soybean Postemergence (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 17, 1977-----							
					GRAS	BRLE	CRIN	GIET	RRPW	JIWE	COCB	COLO
31	RH 3359	0.75 L	0.13 LB/AC	LP	28	80	2	28	88	88	88	88
32	RH 3359	0.75 L	0.25 LB/AC	LP	52	70	18	60	80	68	68	68
33	RH 6201	2.00 E	0.25 LB/AC	LP	60	82	0	60	88	88	88	52
34	PH 6201	2.00 E	0.50 LB/AC	LP	52	78	0	52	88	82	88	52
35	RH 6201	2.00 E	1.00 LB/AC	LP	65	82	10	62	88	88	88	82
36A	RH 6201	2.00 E	0.25 LB/AC	LP	48	75	10	48	90	78	75	75
36B	SURFACTANT	0.0 WA	0.50 %	LP								
37A	RH 6201	2.00 E	0.50 LB/AC	LP	70	90	20	70	90	90	90	90
37B	SURFACTANT	0.0 WA	0.50 %	LP								
38A	RH 6201	2.00 E	0.25 LB/AC	LP	72	82	18	72	90	90	90	90
38B	CROP OIL	0.0 AD	4.00 QT/AC	LP								
39A	RH 6201	2.00 E	0.50 LB/AC	LP	75	92	28	72	92	92	92	92
39B	CROP OIL	0.0 AD	4.00 QT/AC	LP								
40	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100	100	100	100
				LSD(05):	12	14	12	14	20	17	17	21

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 17, 1977
 VARIETY: CALLAND

SOIL TYPE: MAURY SILT LOAM
 PH: 6.8 O.M.: 3.6%
 DATE TREATED: MAY 17, 1977 PRE&PPI
 JUNE 2, 1977 EP
 JUNE 7, 1977 MP
 JUNE 10, 1977 LP

EP - WEEDS 2" TO 4" TALL
 MP - WEEDS 4" TO 6" TALL
 LP - WEEDS 6" TO 8" TALL

TABLE 18. Soybean No-Till in Wheat Stubble—Preemergence.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 8, 1977-----				
					GRAS	BRLE	CRIN	GIFE	CDLQ
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	93	87	0	83	77
1B	LINURON	50.00 WP	1.00 LB/AC	PRE					
1C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
1D	SURFACTANT	0.0 WA	0.50 %	PRE					
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	93	0	80	83
2B	LINURON	50.00 WP	0.76 LB/AC	PRE					
2C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
2D	SURFACTANT	0.0 WA	0.50 %	PRE					
3A	ALACHLOR PKG MIX	2.90 L	2.00 LB/AC	PRE	83	87	0	77	80
3B	WITH LINURON	1.10	0.76	PRE					
3C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
3D	SURFACTANT	0.0 WA	0.50 %	PRE					
4A	ALACHLOR	4.00 E	0.25 LB/AC	PRE	80	90	0	63	83
4B	LINURON	50.00 WP	1.00 LB/AC	PRE					
4C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
4D	SURFACTANT	0.0 WA	0.50 %	PRE					
5A	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE	80	83	0	77	77
5B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
5C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
5D	SURFACTANT	0.0 WA	0.50 %	PRE					
6A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	73	80	0	63	80
6B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE					
6C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
6D	SURFACTANT	0.0 WA	0.50 %	PRE					
7A	ALACHLOR PKG MIX	3.20 E	2.00 LB/AC	PRE	90	97	0	77	83
7B	WITH METRIBUZIN	0.60	0.38	PRE					
7C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
7D	SURFACTANT	0.0 WA	0.50 %	PRE					
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	80	0	73	73
8B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE					
8C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
8D	SURFACTANT	0.0 WA	0.50 %	PRE					
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	83	93	0	73	83
9B	LINURON	50.00 WP	1.00 LB/AC	PRE					
9C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
9D	SURFACTANT	0.0 WA	0.50 %	PRE					
10A	CGA 24705	8.00 E	2.50 LB/AC	PRE	83	90	0	77	80
10B	LINURON	50.00 WP	1.00 LB/AC	PRE					
10C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
10D	SURFACTANT	0.0 WA	0.50 %	PRE					

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

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 8, 1977-----				
					GRAS	BBLE	CRIN	GIFT	COLQ
11A	CGA 24705	8.00 E	2.00 LB/AC	PRE	93	77	0	83	70
11B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE					
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
11D	SURFACTANT	0.0 WA	0.50 %	PRE					
12A	CGA 24705	8.00 E	2.00 LB/AC	PRE	93	93	0	83	83
12B	CHLORBROMURON	50.00 WP	1.50 LB/AC	PRE					
12C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
12D	SURFACTANT	0.0 WA	0.50 %	PRE					
13A	CGA 24705	8.00 E	2.00 LB/AC	PRE	83	80	7	77	73
13B	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE					
13C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
13D	SURFACTANT	0.0 WA	0.50 %	PRE					
14A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	87	83	0	77	77
14B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE					
14C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
14D	SURFACTANT	0.0 WA	0.50 %	PRE					
15A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	80	87	0	77	80
15B	LINURON	50.00 WP	0.75 LB/AC	PRE					
15C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
15D	SURFACTANT	0.0 WA	0.50 %	PRE					
16A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	80	80	0	73	73
16B	LINURON	50.00 WP	0.50 LB/AC	PRE					
16C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
16D	SURFACTANT	0.0 WA	0.50 %	PRE					
17A	ORYZALIN	4.00 AS	0.50 LB/AC	PRE	90	80	0	80	67
17B	METRIBUZIN	50.00 WP	0.25 LB/AC	PRE					
17C	PARAQUAT	2.00 E	0.13 LB/AC	PRE					
17D	SURFACTANT	0.0 WA	0.50 %	PRE					
18A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	90	80	10	80	70
18B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE					
18C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
18D	SURFACTANT	0.0 WA	0.50 %	PRE					
19A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	93	90	0	83	77
19B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE					
19C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
19D	SURFACTANT	0.0 WA	0.50 %	PRE					
20A	ORYZALIN	4.00 AS	2.00 LB/AC	PRE	93	93	0	87	87
20B	METRIBUZIN	50.00 WP	1.00 LB/AC	PRE					
20C	PARAQUAT	2.00 E	0.50 LB/AC	PRE					
20D	SURFACTANT	0.0 WA	0.50 %	PRE					

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

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 8, 1977-----				
					GRAS	BRLE	CRIN	GLFI	COLQ
21A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	87	87	17	83	80
21B	LINURON	50.00 WP	0.50 LB/AC	PRE					
21C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
21D	SURFACTANT	0.0 WA	0.50 %	PRE					
22A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	53	73	17	37	70
22B	NAPTALAM	3.00 E	4.50 LB/AC	PRE					
22C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
22D	SURFACTANT	0.0 WA	0.50 %	PRE					
23A	ORYZALIN	75.00 WP	1.00 LB/AC	PRE	90	80	0	83	77
23B	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE					
23C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
23D	SURFACTANT	0.0 WA	0.50 %	PRE					
24A	SN 533	2.00 E	2.00 LB/AC	PRE	87	90	0	80	83
24B	LINURON	50.00 WP	1.00 LB/AC	PRE					
24C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
24D	SURFACTANT	0.0 WA	0.50 %	PRE					
25A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	70	80	0	63	77
25B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
25C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
25D	SURFACTANT	0.0 WA	0.50 %	PRE					
26A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	70	83	0	60	77
26B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
26C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
26D	SURFACTANT	0.0 WA	0.50 %	PRE					
27A	BIFENOX	80.00 WP	4.80 LB/AC	PRE	73	87	0	67	83
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	BIFENOX	80.00 WP	1.20 LB/AC	PRE	77	83	0	77	80
28B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
28C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
29A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	93	87	0	83	80
29B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
29C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
30A	BIFENOX	80.00 WP	4.80 LB/AC	PRE	70	87	0	57	80
30B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
30C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					

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

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 8, 1977-----				
					GRAS	BRLE	CRIN	GIEZ	COLQ
31A	BIFENOX	4.00 F	1.00 LB/AC	PRE	87	77	10	80	73
31B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
31C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
31D	SURFACTANT	0.0 WA	0.50 %	PRE					
32A	BIFENOX	4.00 F	2.00 LB/AC	PRE	80	93	7	70	83
32B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
32C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
32D	SURFACTANT	0.0 WA	0.50 %	PRE					
33A	BIFENOX	4.00 F	4.00 LB/AC	PRE	80	83	0	77	80
33B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
33C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
33D	SURFACTANT	0.0 WA	0.50 %	PRE					
34A	BIFENOX	4.00 F	1.00 LB/AC	PRE	70	87	7	63	80
34B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
34C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
35A	BIFENOX	4.00 F	2.00 LB/AC	PRE	90	83	0	87	83
35B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
35C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
36A	BIFENOX	4.00 F	4.00 LB/AC	PRE	93	90	0	87	83
36B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
36C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
37A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	80	87	0	77	83
37B	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE					
37C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
37D	SURFACTANT	0.0 WA	0.50 %	PRE					
38A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	83	83	0	80	83
38B	ORYZALIN	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	BIFENOX	80.00 WP	1.20 LB/AC	PRE	83	77	0	77	73
39B	CGA 24705	8.00 E	2.00 LB/AC	PRE					
39C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
39D	SURFACTANT	0.0 WA	0.50 %	PRE					
40A	RH 2915	2.00 E	0.38 LB/AC	PRE	70	77	7	57	67
40B	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
40C	SURFACTANT	0.0 WA	0.50 %	PRE					
41A	RH 2915	2.00 E	0.50 LB/AC	PRE	83	80	0	77	77
41B	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
41C	SURFACTANT	0.0 WA	0.50 %	PRE					

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

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 8, 1977-----				
					GRAS	BRLE	CRIN	GIEI	COLQ
42A	RH 2915	2.00 E	0.38 LB/AC	PRE	93	83	0	87	80
42B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
43A	RH 2915	2.00 E	0.38 LB/AC	PRE	87	80	0	77	73
43B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
43C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
43D	SURFACTANT	0.0 WA	0.50 %	PRE					
44A	H-22234	4.00 E	2.00 LB/AC	PRE	77	83	0	70	77
44B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE					
44C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
44D	SURFACTANT	0.0 WA	0.50 %	PRE					
45A	H-22234	4.00 E	2.00 LB/AC	PRE	83	83	0	77	77
45B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE					
45C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
46A	H-22234	4.00 E	2.00 LB/AC	PRE	90	93	0	80	83
46B	LINURON	50.00 WP	1.00 LB/AC	PRE					
46C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
46D	SURFACTANT	0.0 WA	0.50 %	PRE					
47A	H-22234	4.00 E	2.00 LB/AC	PRE	80	80	0	73	77
47B	LINURON	50.00 WP	1.00 LB/AC	PRE					
47C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
48A	H-26910	4.00 E	3.00 LB/AC	PRE	83	83	0	77	80
48B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE					
48C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
48D	SURFACTANT	0.0 WA	0.50 %	PRE					
49A	H-26910	4.00 E	3.00 LB/AC	PRE	90	90	0	80	80
49B	LINURON	50.00 WP	1.00 LB/AC	PRE					
49C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
49D	SURFACTANT	0.0 WA	0.50 %	PRE					
50A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	60	67	10	50	53
50B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
50C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
50D	SURFACTANT	0.0 WA	0.50 %	PRE					
51A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	70	87	23	67	80
51B	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE					
51C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
51D	SURFACTANT	0.0 WA	0.50 %	PRE					
52A	M-4127	4.00 E	1.50 LB/AC	PRE	87	87	0	77	80
52B	LINURON	50.00 WP	1.00 LB/AC	PRE					
52C	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
52D	SURFACTANT	0.0 WA	0.50 %	PRE					

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

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 8, 1977-----				
					GRAS	BRLE	CRIN	GIET	COLQ
53A	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	80	80	0	73	70
53B	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
53C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
53D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
53E	SURFACTANT	0.0 WA	0.50 %	PRE					
54A	LINURON	50.00 WP	0.50 LB/AC	PRE	73	90	7	67	83
54B	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
54C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
54D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
54E	SURFACTANT	0.0 WA	0.50 %	PRE					
55A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	60	83	0	43	73
55B	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
55C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
55D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
55E	SURFACTANT	0.0 WA	0.50 %	PRE					
56A	CHLOROBROMURON	50.00 WP	0.75 LB/AC	PRE	63	77	3	53	73
56B	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
56C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
56D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
56E	SURFACTANT	0.0 WA	0.50 %	PRE					
57A	LINURON	50.00 WP	0.38 LB/AC	PRE	80	70	7	73	63
57B	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
57C	ORYZALIN	4.00 AS	0.75 LB/AC	PRE					
57D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
57E	SURFACTANT	0.0 WA	0.50 %	PRE					
58A	METRIBUZIN	50.00 WP	0.25 LB/AC	PRE	83	87	0	73	77
58B	LINURON	50.00 WP	0.50 LB/AC	PRE					
58C	ORYZALIN	4.00 AS	0.75 LB/AC	PRE					
58D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
58E	SURFACTANT	0.0 WA	0.50 %	PRE					
59A	METRIBUZIN	50.00 WP	0.25 LB/AC	PRE	73	87	0	67	80
59B	VCS 438	75.00 WP	0.75 LB/AC	PRE					
59C	ORYZALIN	4.00 AS	0.75 LB/AC	PRE					
59D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
59E	SURFACTANT	0.0 WA	0.50 %	PRE					
60A	LINURON	50.00 WP	0.50 LB/AC	PRE	67	87	17	63	80
60B	NAPTALAM	3.00 E	3.00 LB/AC	PRE					
60C	ORYZALIN	4.00 AS	0.75 LB/AC	PRE					
60D	PARAQUAT	2.00 E	0.25 LB/AC	PRE					
60E	SURFACTANT	0.0 WA	0.50 %	PRE					
LSD (05) :					19	NS	10	22	NS

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

LOCATION: SPINDLETOP FARM
FERTILIZATION (LB/AC): 0 N, 0 P, 0 K SOIL TYPE: MAURY SILT LOAM
DATE PLANTED: JUNE 7, 1977 PH: 6.6 O.M.: 4.2%
VARIETY: CALLAND DATE TREATED: JUNE 7, 1977 (PRE)

TABLE 19. Soybean Yellow Nutsedge.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	CRIN	YENS	CRIN
1	ALACHLOR	4.00 E	2.00 LB/AC	PRE	58	8	22	8
2	ALACHLOR	4.00 E	4.00 LB/AC	PRE	76	0	62	0
3	CGA 24705	8.00 E	2.00 LB/AC	PRE	56	4	71	15
4	CGA 24705	8.00 E	4.00 LB/AC	PRE	82	4	92	2
5	SN 533	2.00 E	1.00 LB/AC	PRE	12	0	8	0
6	SN 533	2.00 E	2.00 LB/AC	PRE	30	0	45	8
7	HOE 29152	3.00 E	1.00 LB/AC	PRE	0	0	10	8
8A	HOE 29152	3.00 E	1.00 LB/AC	PRE	0	0	0	0
8B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE				
9A	HOE 29152	3.00 E	1.00 LB/AC	PRE	0	0	10	8
9B	LINURON	50.00 WP	0.75 LB/AC	PRE				
10A	ALACHLOR PKG MIX	2.90 L	2.90 LB/AC	PRE	69	0	36	0
10B	WITH LINURON	1.10	1.10	PRE				
11A	ALACHLOR	4.00 E	2.90 LB/AC	PRE	69	5	40	0
11B	LINURON	50.00 WP	1.10 LB/AC	PRE				
12	ALACHLOR	4.00 E	2.00 LB/AC	PPI	76	4	62	5
13	ALACHLOR	4.00 E	3.00 LB/AC	PPI	80	2	65	0
14	ALACHLOR	4.00 E	4.00 LB/AC	PPI	85	0	79	0
15	CGA 24705	8.00 E	2.00 LB/AC	PPI	86	0	85	10
16	CGA 24705	8.00 E	3.00 LB/AC	PPI	79	6	86	0
17	CGA 24705	8.00 E	4.00 LB/AC	PPI	89	9	94	12
18	SN 533	2.00 E	2.00 LB/AC	PPI	35	2	20	0
19	H-26910	4.00 E	3.00 LB/AC	PPI	70	8	74	8
20	H-22234	4.00 E	3.00 LB/AC	PPI	56	2	32	5
21	VERNOLATE	7.00 E	3.00 LB/AC	PPI	86	31	69	32
22	VERNOLATE	6.70 EW	3.00 LB/AC	PPI	86	24	58	15

TABLE 19. Soybean Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	CRIN	YENS	CRIN
23	M-4287	6.00 E	2.00 LB/AC	PPI	70	15	78	55
24	M-4287	6.00 E	4.00 LB/AC	PPI	84	16	88	38
25	R-24315	50.00 WP	2.00 LB/AC	PPI	15	0	12	0
26A	ALACHLOR PKG MIX	3.20 E	2.00 LB/AC	PPI	69	5	36	0
26B	WITH METRIBUZIN	0.60	0.38					
27A	ALACHLOR PKG MIX	3.20 E	2.40 LB/AC	PPI	84	2	69	0
27B	WITH METRIBUZIN	0.60	0.45					
28A	ALACHLOR PKG MIX	3.20 E	2.80 LB/AC	PPI	81	2	71	2
28B	WITH METRIBUZIN	0.60	0.52					
29A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	75	0	35	0
29B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI				
30A	ALACHLOR	4.00 E	2.40 LB/AC	PPI	79	5	60	0
30B	METRIBUZIN	50.00 WP	0.45 LB/AC	PPI				
31A	ALACHLOR	4.00 E	2.80 LB/AC	PPI	80	15	56	5
31B	METRIBUZIN	50.00 WP	0.52 LB/AC	PPI				
32A	CGA 24705	8.00 E	2.00 LB/AC	PPI	82	0	80	0
32B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE				
33A	CGA 24705	8.00 E	3.00 LB/AC	PPI	86	4	92	2
33B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI				
34A	CGA 24705	8.00 E	3.00 LB/AC	PPI	91	2	95	2
34B	CHLORAMIBEN	2.00 E	3.00 LB/AC	PPI				
35A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	79	1	62	0
35B	CHLORAMIBEN	2.00 E	3.00 LB/AC	PPI				
36A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	86	10	80	10
36B	VERNOLATE	7.00 E	2.00 LB/AC	PPI				
37A	ALACHLOR	4.00 E	2.00 LB/AC	PPI	92	38	85	30
37B	VERNOLATE	7.00 E	2.00 LB/AC	PPI				
37C	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI				
38A	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	80	18	36	8
38B	VERNOLATE	7.00 E	2.00 LB/AC	PPI				
38C	METRIBUZIN	50.00 WP	0.50 LB/AC	PPI				

TABLE 19. Soybean Yellow Nutsedge (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	MAY 27		JUNE 27	
					YENS	CRIN	YENS	CRIN
39A	H-26910	4.00 E	3.00 LB/AC	PPI	79	2	79	0
39B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI				
40A	H-22234	4.00 E	3.00 LB/AC	PPI	55	5	15	2
40B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI				
41A	M-4287	6.00 E	2.00 LB/AC	PPI	82	24	64	25
41B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI				
42A	M-4287	6.00 E	4.00 LB/AC	PPI	94	50	91	22
42B	METRIBUZIN	50.00 WP	0.38 LB/AC	PPI				
43A	DRYZALIN	75.00 WP	1.50 LB/AC	PRE	0	0	82	0
43B	BENTAZON	4.00 E	0.75 LB/AC	EP				
43C	BENTAZON	4.00 E	0.75 LB/AC	LP				
44A	DRYZALIN	75.00 WP	1.50 LB/AC	PRE	0	0	44	0
44B	BENTAZON	4.00 E	1.50 LB/AC	EP				
45	CHECK (UNCULTIVATED)	0.0 CK	0.0		2	2	60	12
46	CHECK (CULTIVATED)	0.0 CK	0.0		100	0	100	0
LSD(05):					13	15	24	16

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 3, 1977
 VARIETY: CALLAND

SOIL TYPE: MAURY SILT LOAM
 PH: 6.4 O.M.: 2.6%
 DATE TREATED: MAY 3, 1977 PRE&PPI
 MAY 23, 1977 EP
 JUNE 2, 1977 LP

TABLE 20. Soybean Cocklebur.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	COCB	CRIN	COCB	CRIN
1	NAPTALAM	3.00 E	4.50 LB/AC	PRE	52	0	0	0
2	RH 3359	0.75 L	0.75 LB/AC	PRE	0	0	0	0
3	RH 3359	0.75 L	1.00 LB/AC	PRE	30	0	0	0
4	RH 6201	2.00 E	0.75 LB/AC	PRE	28	0	0	0
5	RH 6201	2.00 E	1.50 LB/AC	PRE	40	3	0	0
6	METRIBUZIN	4.00 F	0.50 LB/AC	PRE	30	0	0	0
7A	NAPTALAM	3.00 E	2.25 LB/AC	PRE	55	17	0	0
7B	LINURON	50.00 WP	0.50 LB/AC	PRE				
8A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	45	0	0	0
8B	LINURON	50.00 WP	1.00 LB/AC	PRE				
9A	NAPTALAM	3.00 E	2.25 LB/AC	PRE	37	7	0	0
9B	CHLORBROMURON	50.00 WP	1.00 LB/AC	PRE				
10A	NAPTALAM	3.00 E	2.25 LB/AC	PRE	18	3	0	0
10B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE				
11A	NAPTALAM	3.00 E	2.25 LB/AC	PRE	38	3	0	0
11B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE				
12A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	53	8	0	0
12B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE				
13	BENTAZON	4.00 E	0.75 LB/AC	MP	95	7	67	0
14	BENTAZON	4.00 E	1.50 LB/AC	MP	100	13	83	0
15	NAPTALAM	3.00 E	1.50 LB/AC	MP	67	30	43	3
16	NAPTALAM	3.00 E	2.25 LB/AC	MP	80	40	50	3
17	NAPTALAM	3.00 E	3.00 LB/AC	MP	77	47	57	0
18	RH 3359	0.75 L	0.25 LB/AC	MP	60	48	7	3
19	RH 3359	0.75 L	0.50 LB/AC	MP	72	52	0	0
20	RH 6201	2.00 E	0.25 LB/AC	MP	73	28	0	0
21	RH 6201	2.00 E	0.50 LB/AC	MP	78	30	7	0

TABLE 20. Soybean Cocklebur (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	CCCB	CRIN	CCCB	CRIN
22	RH 6201	2.00 E	0.75 LB/AC	MP	85	30	20	2
23A	MBF-12325	2.00 S	0.25 LB/AC	MP	68	53	10	0
23B	SURFACTANT	0.0 WA	0.50 %	MP				
24A	CHLOROXURON	50.00 WP	1.50 LB/AC	MP	90	40	37	0
24B	SURFACTANT	0.0 WA	0.50 %	MP				
25A	2,4-DB	2.00 E	0.20 LB/AC	MP	100	90	80	83
25B	LINURON	50.00 WP	0.50 LB/AC	MP				
26A	MBR-12325	2.00 S	0.25 LB/AC	MP	95	33	45	0
26B	BENTAZON	4.00 E	0.75 LB/AC	MP				
27A	MBR-12325	2.00 S	0.25 LB/AC	MP	90	57	23	0
27B	RH 6201	2.00 E	0.25 LB/AC	MP				
28A	MBR-12325	2.00 S	0.25 LB/AC	MP	97	77	70	3
28B	CHLOROXURON	50.00 WP	1.50 LB/AC	MP				
28C	SURFACTANT	0.0 WA	0.50 %	MP				
LSD(05):					33	13	23	4

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 3, 1977

DATE TREATED: MAY 3, 1977 PRE&PPI

VARIETY: WILLIAMS

MAY 27, 1977 EP

JUNE 3, 1977 MP

JUNE 17, 1977 LP

TABLE 21. Soybean Shattercane.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	SHCA
1	H-22234	4.00 E	3.00 LB/AC	PPI	0
2	CGA 24705	8.00 E	3.00 LB/AC	PPI	20
3	H-26910	4.00 E	3.00 LB/AC	PPI	17
4	HOE 29152	3.00 E	0.75 LB/AC	PPI	7
5	HOE 29152	3.00 E	1.50 LB/AC	PPI	53
6	ALACHLOR	4.00 E	3.00 LB/AC	PPI	47
7	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	85
8	TRIFLURALIN	4.00 E	0.75 LB/AC	PPI	42
9	HOE 29152	3.00 E	0.75 LB/AC	PRE	0
10	HOE 29152	3.00 E	1.50 LB/AC	PRE	47
11	RH 3359	0.75 L	0.50 LB/AC	PRE	0
12	RH 3359	0.75 L	1.00 LB/AC	PRE	0
13	RH 6201	2.00 E	0.75 LB/AC	PRE	10
14A	MBR-12325	2.00 S	0.50 LB/AC	LP	13
14B	SURFACTANT	0.0 WA	0.50 %	LP	
15	ORYZALIN	75.00 WP	1.00 LB/AC	PRE	27
16	HOE 29152	3.00 E	0.50 LB/AC	EP	98
17	HOE 29152	3.00 E	1.00 LB/AC	EP	100
18	RH 6201	2.00 E	0.50 LB/AC	EP	17
19	RH 6201	2.00 E	1.00 LB/AC	LP	60
20	BAS-9021	75.00 WP	1.50 LB/AC	MP	27
21	BAS-9021	75.00 WP	2.00 LB/AC	MP	43
22A	MBR-12325	2.00 S	0.25 LB/AC	MP	30
22B	SURFACTANT	0.0 WA	0.50 %	MP	
23	HOE 29152	3.00 E	0.50 LB/AC	MP	100

TABLE 21. Soybean Shattercane (cont.)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	SHCA
24	HOE 29152	3.00 E	1.00 LB/AC	MP	100
25	BAS-9021	75.00 WP	1.50 LB/AC	LP	93
26	MBR-12325	2.00 S	0.13 LB/AC	MP	100
27A	MBR-12325	2.00 S	0.25 LB/AC	LP	70
27B	SURFACTANT	0.0 WA	0.50 %	LP	
28A	MBR-12325	2.00 S	0.25 LB/AC	LP	100
28B	SURFACTANT	0.0 WA	0.50 %	LP	
28C	HOE 29152	3.00 E	0.50 LB/AC	LP	

LSD(05): 28

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 3, 1977 DATE TREATED: MAY 3, 1977 PRE&PPI
 VARIETY: WILLIAMS MAY 27, 1977 EP

TABLE 22. Burley Tobacco.

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1977-----				
					GRAS	BRLE	CRIN	RRPW	LACG
1	BENEFIN	1.50 E	1.50 LB/AC	PPI	90	58	0	70	65
2	PEBULATE	6.00 E	4.00 LB/AC	PPI	95	88	0	88	92
3	DIPHENAMID	50.00 WP	6.00 LB/AC	PRE	82	60	0	60	80
4	PEBULATE	6.00 EW	4.00 LB/AC	PPI	92	80	0	82	85
5A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	92	85	5	82	88
5B	DIPHENAMID	50.00 WP	6.00 LB/AC	PRT					
6A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	90	78	0	80	85
6B	PENDIMETHALIN	4.00 E	1.00 LB/AC	LBY					
7A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	92	95	12	92	90
7B	PENDIMETHALIN	4.00 E	1.00 LB/AC	LWK					
8A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	95	88	0	88	90
8B	BI FENDX	80.00 WP	1.50 LB/AC	PRT					
9	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	92	78	0	78	88
10A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	92	90	0	88	90
10B	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI					
11	MBR 8251	4.00 S	1.50 LB/AC	PRT	75	18	0	18	70
12A	MBR 8251	4.00 S	1.50 LB/AC	PRT	78	25	0	25	75
12B	MBR 8251	4.00 S	1.50 LB/AC	LBY					
13A	PEBULATE	6.00 EW	4.00 LB/AC	PPI	90	88	5	88	85
13B	MBR 8251	4.00 S	1.50 LB/AC	LBY					
14A	BENEFIN	1.50 E	1.50 LB/AC	PPI	88	68	0	70	75
14B	MBR 8251	4.00 S	1.50 LB/AC	LBY					
15A	PEBULATE	6.00 EW	4.00 LB/AC	PPI	92	80	0	82	82
15B	MBR 8251	4.00 S	1.50 LB/AC	PPI					
16	ORYZALIN	4.00 AS	0.75 LB/AC	PRT	80	28	0	28	75
17	ORYZALIN	75.00 WP	0.75 LB/AC	PRT	75	20	0	20	72
18	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	85	60	0	60	75
19A	DEVP INOL	2.00 E	1.00 LB/AC	POT	72	10	0	10	68
19B	MBR 8251	4.00 S	1.00 LB/AC	POT					

TABLE 22. Burley Tobacco (cont.)

TRT NO.	HERBIC IDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 27, 1977-----				
					GRAS	BRLE	CRIN	RRPW	LACG
20A	DEVRIKOL	2.00 E	1.00 LB/AC	POT	75	28	0	28	75
20B	MBR 8251	4.00 S	2.00 LB/AC	POT					
21	USB 3153	50.00 WP	0.25 LB/AC	PPI	80	60	0	60	75
22	USB 3153	50.00 WP	0.50 LB/AC	PPI	85	68	0	68	80
23	USB 3153	50.00 WP	1.00 LB/AC	PPI	88	68	8	70	78
24	NC 8438	1.50 E	2.00 LB/AC	PPI	75	38	0	38	72
25	NC 8438	1.50 E	4.00 LB/AC	PPI	90	75	0	72	88
26	NC 8438	1.50 E	2.00 LB/AC	PRT	70	10	0	10	68
27	NC 8438	1.50 E	4.00 LB/AC	PRT	85	52	0	52	78
28A	NC 8438	1.50 E	1.50 LB/AC	PPI	95	90	0	88	90
28B	DIPHENAMID	50.00 WP	3.00 LB/AC	PPI					
29	NC 8438	1.50 E	2.00 LB/AC	POT	70	20	0	15	68
30	NC 8438	1.50 E	4.00 LB/AC	POT	82	60	10	60	78
31A	NC 8438	1.50 E	1.50 LB/AC	POT	75	32	0	32	75
31B	DIPHENAMID	50.00 WP	2.50 LB/AC	POT					
32	BIFENOX	80.00 WP	1.60 LB/AC	PRE	75	40	5	52	70
33	BIFENOX	80.00 WP	3.20 LB/AC	PRT	75	82	5	80	75
34	BIFENOX	80.00 WP	6.40 LB/AC	PRT	88	92	15	82	85
35	BIFENOX	4.00 F	1.50 LB/AC	PRT	70	40	15	32	68
36	CHECK (CULTIVATED)	0.0 CK	0.0		100	100	0	100	100
LSD(05):					11	22	NS	22	12

LOCATION: SPINDLETOP SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 200 N, 0 P, 0 K PH: 6.5 O.M.: 4.3%
 DATE PLANTED: MAY 27, 1977 DATE TREATED: MAY 27, 1977 (PPI)
 VARIETY: KY 14 MAY 27, 1977 PRE&PRT
 MAY 27, 1977 (POT)
 JUNE 2, 1977 (1WK)
 JULY 2, 1977 (LBY)

TABLE 23. Herbicide Species Screening Study.

TRT	CHEMICAL	METH	FORMULA	RATE	PEANUTS	ALFALFA	OATS	SOYBEANS	PEAS	FOXTAILS	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN
1	HOE 29152	PRE	3.00 E	1.50	0	25	15	0	0	100	100	60	0	0	0	0	0	0	0	0	65	60	30
2	R-24191	PRE	35.00 W	1.00	20	60	0	0	0	5	5	0	30	0	20	25	15	35	25	0	0	5	0
3	R-42722	PRE	2.00 E	2.00	10	0	90	0	0	100	100	50	25	0	20	70	80	75	20	15	50	0	95
4	R-24315	PRE	50.00 W	2.00	0	0	50	0	10	40	85	35	0	0	35	70	15	70	0	0	0	0	25
5	DS-31547	PRE	2.00 E	2.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	DS-31547	PRE	2.00 E	4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	DS-31547	PRE	2.00 E	8.00	0	0	20	0	5	50	80	45	20	0	75	20	85	75	10	0	5	0	0
8	SN-533	PRE	2.00 E	2.00	0	0	5	0	0	100	100	95	0	0	35	0	70	25	25	5	15	0	5
9	GCP-5544	PRE	6.00 E	3.00	0	0	65	0	10	90	95	55	0	0	0	0	95	10	0	0	35	25	5
10	RH-3359	PRE	.75 E	1.00	0	0	0	0	5	20	15	15	0	10	25	15	95	60	0	0	0	0	0
11	RH-6201	PRE	2.00 E	2.00	0	80	10	0	0	95	95	100	25	0	95	20	70	70	20	0	50	25	0
12	EL-171	PRE	4.00 AS	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NC-8438	PRE	1.50 E	3.00	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0
14	MOBIL 10108	PRE	2.00 E	0.50	0	40	0	0	0	45	25	30	60	0	85	65	45	95	90	40	0	0	10
15	RE-20477	PRE	2.00 E	2.00	0	85	0	0	0	95	95	20	85	10	100	0	100	25	15	0	0	0	0
16	RE-19698	PRE	2.00 E	2.00	0	90	10	0	0	100	100	35	15	10	90	10	100	40	20	0	25	0	0
17	RE-19140	PRE	50.00 W	2.00	0	0	0	0	0	0	0	0	0	0	15	25	0	0	0	0	0	0	0
18	RE-19790	PRE	65.00 W	2.00	0	0	0	0	0	10	25	0	0	0	0	0	45	0	0	0	0	0	15
19	KY-93	PRE	3.50 E	2.00	0	70	0	0	0	45	85	60	15	0	25	0	95	10	15	0	0	0	15

TABLE 23. Herbicide Species Screening (cont.)

TRT	CHEMICAL	METH	FORMULA	RATE	PEANUTS	ALFALFA	OATS	SOYBEANS	PEAS	FOXTAILS	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN
20	KY-26	PRE	50.00 W	2.00	0	0	0	0	0	0	0	0	20	0	0	0	25	15	10	5	0	0	0
21	KY-43	PRE	50.00 W	2.00	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
22	KY-51	PRE	2.00 E	2.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
23	KY-25	PRE	3.00 E	2.00	0	0	0	0	10	85	100	50	0	5	50	0	90	25	25	0	50	0	10
24	KY-22	PRE	4.00 E	2.00	10	100	30	15	0	100	100	15	95	20	95	0	100	70	90	15	0	0	0
25	KY-21	PRE	1.50 E	2.00	15	45	25	0	0	90	95	15	0	0	20	0	15	10	5	0	0	0	0
26	HOE-29152	PPI	3.00 E	1.50	0	0	95	0	0	95	95	100	0	0	0	0	0	15	0	0	65	30	30
27	R-12001 + R-25788	PPI	6.70 E	6.00	0	35	100	35	0	100	100	100	15	10	10	0	15	45	50	25	85	20	30
28	R-24191	PPI	35.00 W	1.00	0	0	20	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0
29	R-24315	PPI	50.00 W	2.00	0	0	90	0	0	15	10	0	0	0	0	0	0	5	0	0	0	0	0
30	DS-31547	PPI	2.00 E	2.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	DS-31547	PPI	2.00 E	4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	DS-31547	PPI	2.00 E	8.00	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	5
33	SN-533	PPI	2.00 E	2.00	0	0	0	0	0	50	50	45	0	0	0	0	0	15	10	0	0	0	0
34	DOWCO-295	PPI	6.00 E	2.00	0	0	90	0	0	10	10	10	0	0	0	0	0	0	0	0	20	40	65
35	RE-19140	PPI	50.00 W	2.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	RE-19168	PPI	2.00 E	2.00	25	75	55	10	10	90	100	45	0	0	5	0	70	25	10	30	0	10	0
37	HOE-29152	POE	3.00 E	0.75	0	0	100	0	0	100	100	100	0	0	0	0	0	0	0	0	100	100	100
38	R-40244	POE	2.00 E	2.00	45	95	30	50	50	40	40	25	35	75	85	80	85	90	100	100	50	30	50

TABLE 23. Herbicide Species Screening (cont.)

TRT	CHEMICAL	METH	FORMULA	RATE	PEANUTS	ALFALFA	OATS	SOYBEANS	PEAS	FOXTAILS	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	COTTON	CUCUMBER	MORNINGGLORY	PIGWEEED	JIMSONWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN	
39	R-42722	POE	2.00 E	2.00	0	0	10	0	0	10	5	5	50	0	15	60	60	95	90	0	0	0	0	
40	DS-31547	POE	2.00 E	4.00	0	0	0	5	5	0	0	5	0	15	15	0	5	95	30	0	15	0	20	
41	SN-533	POE	2.00 E	2.00	0	0	0	0	0	0	0	0	0	10	0	0	0	35	5	5	10	0	0	
42	RH-3359	POE	0.75 E	0.50	0	50	20	10	20	0	0	5	45	30	95	40	80	100	70	80	30	20	25	
43	RH-6201	POE	2.00 E	0.50	0	35	5	0	5	15	15	25	40	55	60	95	90	100	95	100	85	50	45	
44	VEL-4092	POE	3.00 E	0.50	100	100	30	100	90	0	0	0	100	95	100	100	100	100	100	100	100	0	0	5

CROPS AND WEEDS

- | | |
|--------------------------|---------------------------------|
| 1. PEANUTS "Florunner" | 11. COTTON "Coker 310" |
| 2. ALFALFA "Vernal" | 12. CUCUMBER "Straight Eight" |
| 3. OATS "Otee" | 13. MORNINGGLORIES |
| 4. SNAPBEANS "Contender" | 14. PIGWEED, REDROOT |
| 5. SOYBEANS "Williams" | 15. JIMSONWEED |
| 6. PEAS "Blackeye" | 16. VELVETLEAF |
| 7. FOXTAIL, GIANT | 17. COCKLEBUR |
| 8. FALL PANICUM | 18. GRAIN SORGHUM "DeKalb C43Y" |
| 9. JOHNSONGRASS | 19. SHATTERCANE |
| 10. SPINY SIDA | 20. CORN "Pioneer 3369A" |

These plots were established on May 19, 1977 on a Lanton silty clay loam (O.M. = 6.5%) and did not receive any appreciable rainfall for 10 days. As a result, performance of most of the preemergence herbicide was poor due to the dry conditions. Ratings provided are the averages of two replications and consist of a visual estimate of control. Postemergence applications were made under essentially ideal conditions as reflected by degree of control. All ratings were made on July 5, 1977 (47 days after treatment).

TABLE 24. RETURNABLE FORM FOR YIELDS AND ADDITIONAL INFORMATION.

CERTAIN CORN AND SOYBEAN PLOTS WILL BE YIELDED. IF YOU DESIRE THESE DATA OR OTHER DATA THAT WE MIGHT HELP YOU WITH, PLEASE RETURN THIS FORM. DATA WILL BE AVAILABLE AFTER JANUARY 1, 1978.

NAME _____

ADDRESS _____

PHONE _____

FIRM _____

TYPE OF DATA NEEDED

CORN YIELDS _____

SOYBEAN YIELDS _____

OTHER _____

MAKE REQUEST TO:

Charles H. Slack

N-106 Ag. Science North

University of Kentucky

Lexington, Kentucky 40506

Phone: (606) 257-2367

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TABLE 1 CORN PREEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
1	ATRAZINE	4.00 L	2.00 LB/AC	PRE	62	17900
2	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	57	17300
3	SIMAZINE	4.00 L	2.00 LB/AC	PRE	67	16700
4	CYANAZINE	4.00 L	3.00 LB/AC	PRE	43	17375
5A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	79	17800
5B	SIMAZINE	80.00 WP	2.00 LB/AC	PRE		
6A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	59	17150
6B	SIMAZINE	80.00 WP	2.00 LB/AC	PRE		
7	ALACHLOR	4.00 E	2.50 LB/AC	PRE	39	16900
8A	ALACHLOR	4.00 E	2.21 LB/AC	PRE	75	17575
8B	ATRAZINE	4.00 L	1.33 LB/AC	PRE		
9A	ALACHLOR PKG MIX	2.50 L	2.21 LB/AC	PRE	48	17425
9B	WITH ATRAZINE	1.50	1.33	PRE		
10A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	54	17175
10B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE		
11A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	67	17600
11B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
12	CGA 24705	8.00 E	2.50 LB/AC	PRE	46	17750
13A	CGA 24705	8.00 E	2.00 LB/AC	PRE	56	17050
13B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
14A	CGA 24705	8.00 E	2.00 LB/AC	PRE	22	16425
14B	CYANAZINE	80.00 WP	2.00 LB/AC	PRE		
15A	CGA 24705	8.00 E	2.00 LB/AC	PRE	62	17350
15B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
16A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PRE	89	17600
16B	WITH ATRAZINE	2.00	1.60	PRE		
17	PENDIMETHALIN	4.00 E	2.00 LB/AC	PRE	98	17725
18	PENDIMETHALIN	75.00 WP	2.00 LB/AC	PRE	82	17475
19A	PENDIMETHALIN	75.00 WP	1.50 LB/AC	PRE	83	17300
19B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 1 CORN PREEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
39	BIFENOX	4.00 F	1.00 LB/AC	PRE	40	17075
40	BIFENOX	4.00 F	1.50 LB/AC	PRE	46	16900
41	BIFENOX	4.00 F	3.00 LB/AC	PRE	62	17000
42A	BIFENOX	4.00 F	1.00 LB/AC	PRE	34	17475
42B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
43A	BIFENOX	4.00 F	2.00 LB/AC	PRE	75	18125
43B	ALACHLOR	4.00 F	4.00 LB/AC	PRE		
44A	BIFENOX	4.00 F	4.00 LB/AC	PRE	99	16825
44B	ALACHLOR	4.00 E	8.00 LB/AC	PRE		
45A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	28	16625
45B	CGA 24705	8.00 E	2.00 LB/AC	PRE		
46A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	89	17550
46B	CGA 24705	8.00 E	4.00 LB/AC	PRE		
47A	BIFENOX	80.00 WP	4.80 LB/AC	PRE	60	16750
47B	CGA 24705	8.00 E	8.00 LB/AC	PRE		
48	CHECK (CULTIVATED)	0.0 CK	0.0		114	16750
				LSD(05):	65	--

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 260 N,

60 P,

60 K

PH: 6.8

O.M.: 3.4%

DATE PLANTED: MAY 9, 1977

DATE TREATED: MAY 9, 1977 (PRE)

VARIETY: PIONEER 3369A

HARVESTED NOV 1, 1977

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 2 CORN PREPLANT INCORPORATED

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD	POP
1	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	98	17075
2	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	114	17575
3A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	105	13775
3B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
4A	EPTC + R-25788	6.70 EW	3.00 LB/AC	PPI	102	17475
4B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
5A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	116	16750
5B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
6A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	120	17350
6B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
7A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	96	17350
7B	SIMAZINE	80.00 WP	2.00 LB/AC	PPI		
8A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	116	17150
8B	SIMAZINE	80.00 WP	2.00 LB/AC	PPI		
9	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	16825
10A	BUTYLATE + R-25788	6.70 F	4.00 LB/AC	PPI	102	16650
10B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
11A	BUTYLATE + R-25788	6.70 EW	4.00 LB/AC	PPI	106	16775
11B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
12A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	86	17225
12B	RIFENOX	4.00 F	1.25 LB/AC	PPI		
13A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	96	17000
13B	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI		
14A	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	93	18050
14B	CYANAZINE	4.00 L	2.00 LB/AC	PPI		
15	VERNDLATE + R-25788	6.70 E	4.00 LB/AC	PPI	86	17625
16	CGA 24705	8.00 E	2.50 LB/AC	PPI	91	16625
17A	CGA 24705	8.00 E	2.00 LB/AC	PPI	82	17475
17B	CYANAZINE	4.00 L	2.00 LB/AC	PPI		
18A	CGA 24705	8.00 E	2.00 LB/AC	PPI	97	17775
18B	ATRAZINE	4.00 L	1.60 LB/AC	PPI		

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TABLE 2 CORN PREPLANT INCORPORATED

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD	POP
19A	CGA 24705 PKG MIX	2.50 L	2.00	LB/AC PPI	109	17725
19B	WITH ATRAZINE	2.00	1.60	PPI		
20A	SD 50093	80.00 WP	2.80	LB/AC PPI	95	16900
20B	BUTYLATE + R-25788	6.70 E	4.00	LB/AC PPI		
21A	SD 50093	80.00 WP	2.80	LB/AC PPI	104	17275
21B	EPTC + R25788	6.70 E	4.00	LB/AC PPI		
22A	R-12001 + R-25788	6.70 F	4.00	LB/AC PPI	106	16950
22B	ATRAZINE	4.00 L	1.00	LB/AC PPI		
23	R-12001 + R-25788	6.70 E	4.00	LB/AC PPI	84	16975
24	R-12001 + R-25788	6.70 E	6.00	LB/AC PPI	89	17750
25	R-12001	7.00 E	4.00	LB/AC PPI	86	17325
26	R-12001	7.00 E	6.00	LB/AC PPI	80	17350
27A	R-12001	7.00 E	4.00	LB/AC PPI	96	17025
27B	ATRAZINE	4.00 L	1.00	LB/AC PPI		
28	R-24191	35.00 WP	2.00	LB/AC PPI	101	17350
29A	R-24191	35.00 WP	1.00	LB/AC PPI	108	16375
29B	EPTC + R25788	6.70 E	3.00	LB/AC PPI		
30A	R-24191	35.00 WP	1.00	LB/AC PPI	87	17275
30B	BUTYLATE + R-25788	6.70 E	4.00	LB/AC PPI		
31A	ALACHLOR PKG MIX	2.50 L	2.21	LB/AC PPI	90	17250
31B	WITH ATRAZINE	1.50	1.33	PPI		
32A	ALACHLOR	4.00 E	2.21	LB/AC PPI	99	17100
32B	ATRAZINE	4.00 L	1.33	LB/AC PPI		
33	CHECK (CULTIVATED)	0.0 CK	0.0		110	17475

LSD(05): 33 --

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 260 N, 60 P, 60 K

PH: 6.9 O.M.: 3.6%

DATE PLANTED: MAY 9, 1977

DATE TREATED: MAY 9, 1977 (PPI)

VARIETY: PIONEER 3369A

HARVESTED NOV 2, 1977

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 3 CORN POSTEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
1A	ATRAZINE	4.00 L	0.75 LB/AC	PRE	103	16300
1B	AMETRYNE	80.00 WP	1.00 LB/AC	PD		
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	105	16925
2B	ATRAZINE	4.00 L	2.00 LB/AC	EP		
2C	CROP OIL	0.0 AD	4.00 QT/AC	EP		
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	99	16625
3B	BENTAZON	4.00 E	0.75 LB/AC	EP		
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	97	17175
4B	BENTAZON	4.00 E	0.75 LB/AC	EP		
4C	CROP OIL	0.0 AD	4.00 QT/AC	EP		
5A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	106	17700
5B	BENTAZON	4.00 E	0.75 LB/AC	EP		
6A	CGA 24705	8.00 E	2.00 LB/AC	PRE	79	17225
6B	BENTAZON	4.00 E	0.75 LB/AC	EP		
7A	BENTAZON	4.00 E	0.75 LB/AC	EP	112	17150
7B	ATRAZINE	4.00 L	0.50 LB/AC	EP		
8A	BENTAZON	4.00 E	0.75 LB/AC	EP	99	16900
8B	ATRAZINE	4.00 L	0.75 LB/AC	EP		
9A	BENTAZON	4.00 E	0.75 LB/AC	EP	112	17025
9B	ATRAZINE	4.00 L	1.00 LB/AC	EP		
10A	BENTAZON	4.00 E	0.75 LB/AC	EP	96	17650
10B	ATRAZINE	4.00 L	0.50 LB/AC	EP		
10C	CROP OIL	0.0 AD	4.00 QT/AC	EP		
11A	BENTAZON	4.00 E	0.75 LB/AC	EP	98	17425
11B	ATRAZINE	4.00 L	0.75 LB/AC	EP		
11C	CROP OIL	0.0 AD	4.00 QT/AC	EP		
12A	BENTAZON	4.00 E	0.75 LB/AC	EP	87	17375
12B	ATRAZINE	4.00 L	1.00 LB/AC	EP		
12C	CROP OIL	0.0 AD	4.00 QT/AC	EP		
13A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	85	17550
13B	DICAMBA	4.00 S	0.50 LB/AC	PRE		
14A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	108	17100
14B	DICAMBA	4.00 S	0.50 LB/AC	EP		

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TABLE 3 CORN POSTEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
15A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	99	16425
15B	DICAMBA	4.00 S	0.25 LB/AC	LP		
16A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	97	16900
16B	DICAMBA (1.25) + 2,4	3.75 E	0.75 LB/AC	LP		
17A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	101	16900
17B	2,4-D AMINE	4.00 E	0.50 LB/AC	EP		
18A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	17550
18B	VEL 4092	3.00 E	0.25 LB/AC	EP		
19A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	102	17075
19B	VEL 4092	3.00 E	0.25 LB/AC	EP		
19C	2,4-D AMINE	4.00 E	0.50 LB/AC	EP		
20	CHECK (CULTIVATED)	0.0 CK	0.0		112	16775

LSD(05): NS --

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 9, 1977
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.8 O.M.: 2.4%
 DATE TREATED: MAY 9, 1977 PRE&PPI
 JUNE 1, 1977 EP
 JUNE 7, 1977 LP

EP - WEEDS 2" TO 4" TALL
 LP - WEEDS 4" TO 6" TALL
 HARVESTED NOV 1, 1977

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 4 CORN POST SUPPLEMENT

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD	POP
21	M-4127	4.00 E	1.00 LB/AC	LP	109	17750
22	M-4127	4.00 E	1.50 LB/AC	LP	119	18400
23	M-4127	4.00 E	2.00 LB/AC	LP	122	18625
24A	M-4127	4.00 E	1.00 LB/AC	LP	125	18875
24B	ATRAZINE	4.00 L	1.60 LB/AC	LP		
25A	M-4127	4.00 E	1.50 LB/AC	LP	119	18125
25B	ATRAZINE	4.00 L	1.60 LB/AC	LP		
26	CHECK (CULTIVATED)	0.0 CK	0.0		139	19375
LSD(05):					28	--

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 260 N, 60 P, 60 K

DATE PLANTED: MAY 9, 1977

VARIETY: PIONEER 3369A

SOIL TYPE: LANTON SILT LOAM

PH: 6.8 O.M.: 4.7%

DATE TREATED: MAY 9, 1977 PRE

MAY 12, 1977 3DA

MAY 18, 1977 SPM

MAY 20, 1977 2LF

JUNE 1, 1977 EP, 4LF

JUNE 7, 1977 LP

EP - WEEDS 2" TO 4" TALL

LP - WEEDS 4" TO 6" TALL

HARVESTED OCT 10, 1977

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 5 NO-TILL CORN - KILLED FESCUE SOD

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	140	20575
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
1C	SURFACTANT	0.0 WA	0.50 %	PRE		
2A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	143	21450
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	122	20825
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	126	20100
4B	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE		
5A	SD 50093	80.00 WP	2.80 LB/AC	PRE	141	19500
5B	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
5C	SURFACTANT	0.0 WA	0.50 %	PRE		
6A	SD 50093	80.00 WP	2.80 LB/AC	PRE	141	18950
6B	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE		
7A	SD 50093	80.00 WP	2.80 LB/AC	PRE	110	19775
7B	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE		
8A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	147	19200
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
8C	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE		
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	131	20575
9B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
9C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
9D	SURFACTANT	0.0 WA	0.50 %	PRE		
10A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PRE	128	17350
10B	WITH ATRAZINE	2.00	1.60	PRE		
10C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
10D	SURFACTANT	0.0 WA	0.50 %	PRE		
11A	CGA 24705	8.00 E	2.00 LB/AC	PRE	133	19750
11B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE		
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
11D	SURFACTANT	0.0 WA	0.50 %	PRE		
12A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	134	18900
12B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE		
12C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
12D	SURFACTANT	0.0 WA	0.50 %	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 5 NO-TILL CORN - KILLED FESCUE SOD

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.	POP.
13A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	132	21800
13B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE		
13C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
14A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	141	16800
14B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
14C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
15A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	125	20450
15B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
15C	DICAMBA	4.00 S	0.50 LB/AC	PRE		
15D	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
15E	SURFACTANT	0.0 WA	0.50 %	PRE		
16A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	128	19800
16B	DICAMBA	4.00 S	0.50 LB/AC	PRE		
16C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
16D	SURFACTANT	0.0 WA	0.50 %	PRE		
17A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	131	19225
17B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
17C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
17D	SURFACTANT	0.0 WA	0.50 %	PRE		
18A	PENDIMETHALIN	4.00 E	1.50 LB/AC	1WK	123	20075
18B	ATRAZINE	4.00 L	1.00 LB/AC	1WK		
18C	PARAQUAT	2.00 E	0.25 LB/AC	1WK		
18D	SURFACTANT	0.0 WA	0.50 %	1WK		
19A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	117	21225
19B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
19C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
19D	SURFACTANT	0.0 WA	0.50 %	PRE		
20A	BUTYLATE PKG MIX	18.00 GR	4.00 LB/AC	PRE	132	19300
20B	WITH ATRAZINE	6.00	1.33	PRE		
20C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
20D	SURFACTANT	0.0 WA	0.50 %	PRE		
21A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	134	19075
21B	DICAMBA	4.00 S	0.50 LB/AC	PRE		
21C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
21D	SURFACTANT	0.0 WA	0.50 %			
22A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	79	18950
22B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
22C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
22D	SURFACTANT	0.0 WA	0.50 %	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 5 NO-TILL CORN - KILLED FESCUE SOD

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
23A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	62	17375
23P	CROP OIL	0.0 AD	4.00 QT/AC	PRE		
24A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	92	19475
24B	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
24C	SURFACTANT	0.0 WA	0.50 %	PRE		
25A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	109	21100
25B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE		
25C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
25D	SURFACTANT	0.0 WA	0.50 %	PRE		
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	113	19025
26B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE		
26C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
26D	SURFACTANT	0.0 WA	0.50 %	PRE		

LSD(05): 58 --

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 260 N,

60 P, 60 K

SOIL TYPE: MAURY SILT LOAM

DATE PLANTED: MAY 20, 1977

PH: 6.4 O.M.: 4.0%

VARIETY: PIONEER 3369A

DATE TREATED: MAY 18, 1977 (PRE)

MAY 25, 1977 (1WK)

HARVESTED OCT 13, 1977

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 6 NO-TILL CORN - STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	111	19900
1B	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
1C	SURFACTANT	0.0 WA	0.50 %	PRE		
2A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	91	17850
2B	PAPAQUAT	2.00 F	0.25 LB/AC	PRE		
2C	SURFACTANT	0.0 WA	0.50 %	PRE		
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	83	19650
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	97	18925
4B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
5A	SD 50093	80.00 WP	2.80 LB/AC	PRE	118	18575
5B	PAPAQUAT	2.00 F	0.25 LB/AC	PRE		
5C	SURFACTANT	0.0 WA	0.50 %	PRE		
6A	SD 50093	80.00 WP	2.80 LB/AC	PRE	105	19850
6B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
7A	SD 50093	80.00 WP	2.80 LB/AC	PRE	99	20725
7B	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE		
8A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	116	18675
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
8C	DIESEL OIL	0.0 AD	4.00 QT/AC	PRE		
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	99	20000
9B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
9C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE		
9D	SURFACTANT	0.0 WA	0.50 %	PRE		
10A	CGA 24705 PKG MIX	2.50 L	2.00 LB/AC	PRE	114	18950
10B	WITH ATRAZINE	2.00	1.60	PRE		
10C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE		
10D	SURFACTANT	0.0 WA	0.50 %	PRE		
11A	CGA 24705	8.00 E	2.00 LB/AC	PRE	111	19325
11B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE		
11C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE		
11D	SURFACTANT	0.0 WA	0.50 %	PRE		
12A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	111	18100
12B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE		
12C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE		
12D	SURFACTANT	0.0 WA	0.50 %	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 6 NO-TILL CORN - STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD	POP
13A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	113	19650
13B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE		
13C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
14A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	119	18375
14B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
14C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
15A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	118	19425
15B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
15C	DICAMBA	4.00 S	0.50 LB/AC	PRE		
15D	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
15E	SURFACTANT	0.0 WA	0.50 %	PRE		
16A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	102	18950
16B	DICAMBA	4.00 S	0.50 LB/AC	PRE		
16C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
16D	SURFACTANT	0.0 WA	0.50 %	PRE		
17A	PENDIMETHALIN	4.00 F	1.50 LB/AC	PRE	96	19150
17B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
17C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
17D	SURFACTANT	0.0 WA	0.50 %	PRE		
18A	PENDIMETHALIN	4.00 F	1.50 LB/AC	1WK	96	18950
18B	ATRAZINE	4.00 L	1.00 LB/AC	1WK		
18C	PARAQUAT	2.00 E	0.25 LB/AC	1WK		
18D	SURFACTANT	0.0 WA	0.50 %	1WK		
19A	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	97	18800
19B	ALACHLOR	4.00 F	2.50 LB/AC	PRE		
19C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
19D	SURFACTANT	0.0 WA	0.50 %	PRE		
20A	BUTYLATE PKG MIX	18.00 GR	4.00 LB/AC	PRE	114	19075
20B	WITH ATRAZINE	6.00	1.33	PRE		
20C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
20D	SURFACTANT	0.0 WA	0.50 %	PRE		
21A	SIMAZINE	80.00 WP	2.00 LB/AC	PRE	108	18450
21B	DICAMBA	4.00 S	0.50 LB/AC	PRE		
21C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
21D	SURFACTANT	0.0 WA	0.50 %			
22A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	100	19150
22B	ALACHLOR	4.00 F	2.00 LB/AC	PRE		
22C	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
22D	SURFACTANT	0.0 WA	0.50 %	PRE		

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TABLE 6 NO-TILL CORN - STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.	POP.
23A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	94	19225
23B	CROP OIL	0.0 AD	4.00 QT/AC	PRE		
24A	VEL 5026	50.00 WP	0.50 LB/AC	PRE	93	18725
24B	PARAQUAT	2.00 E	0.25 LB/AC	PRE		
24C	SURFACTANT	0.0 WA	0.50 %	PRE		

LSD(05): 39 --

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.4 O.M.: 5.0%
 DATE PLANTED: MAY 20, 1977 DATE TREATED: MAY 18, 1977 (PRE)
 VARIETY: PIONEER 3369A MAY 25, 1977 (1WK)
 HARVESTED OCT 13, 1977

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1977

TABLE 7 CORN YELLOW NUTSEDGE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
1	H-22234	4.00 E	3.00 LB/AC	PRE	110	22225
2	CGA 24705	8.00 E	2.00 LB/AC	PRE	122	23575
3	CGA 24705	8.00 E	3.00 LB/AC	PRE	128	22175
4	ALACHLOR	4.00 E	3.00 LB/AC	PRE	115	23700
5	H-26910	4.00 E	3.00 LB/AC	PRE	122	21875
6	SN 533	2.00 E	2.00 LB/AC	PRE	114	21325
7A	H-22234	4.00 E	3.00 LB/AC	PRE	124	24050
7B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
8A	CGA 24705	8.00 E	2.00 LB/AC	PRE	130	23525
8B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
9A	CGA 24705	8.00 E	3.00 LB/AC	PRE	128	23350
9B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	126	21475
10B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
11A	ALACHLOR	4.00 E	3.10 LB/AC	PRE	131	23500
11B	ATRAZINE	4.00 L	1.90 LB/AC	PRE		
12A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PRE	136	22475
12B	WITH ATRAZINE	1.50	1.50	PRE		
13A	ALACHLOR PKG MIX	2.50 L	3.10 LB/AC	PRE	109	22500
13B	WITH ATRAZINE	1.50	1.90	PRE		
14A	H-26910	4.00 E	3.00 LB/AC	PRE	118	22500
14B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
15	H-22234	4.00 E	3.00 LB/AC	PPI	96	20800
16	CGA 24705	8.00 E	2.00 LB/AC	PPI	115	23500
17	CGA 24705	8.00 E	3.00 LB/AC	PPI	134	23200
18	ALACHLOR	4.00 E	3.00 LB/AC	PPI	122	22375
19	H-26910	4.00 E	3.00 LB/AC	PPI	137	22850
20	SN 533	2.00 E	2.00 LB/AC	PPI	113	21075

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TABLE 7 CORN YELLOW NUTSEDGE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
21A	H-22234	4.00 E	3.00 LB/AC	PPI	128	23100
21B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
22A	CGA 24705	8.00 E	2.00 LB/AC	PPI	129	22575
22B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
23A	CGA 24705	8.00 E	3.00 LB/AC	PPI	116	23225
23B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
24A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	136	21375
24B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
25A	ALACHLOR	4.00 E	3.10 LB/AC	PPI	132	23225
25B	ATRAZINE	4.00 L	1.90 LB/AC	PPI		
26A	ALACHLOR PKG MIX	2.50 L	2.50 LB/AC	PPI	135	23300
26B	WITH ATRAZINE	1.50	1.50	PPI		
27A	ALACHLOR PKG MIX	2.50 L	3.10 LB/AC	PPI	123	21725
27B	WITH ATRAZINE	1.50	1.90	PPI		
28A	H-26910	4.00 E	3.00 LB/AC	PPI	129	23175
28B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
29	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	137	22700
30	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	137	22400
31	EPTC + R25788	6.70 E	8.00 LB/AC	PPI	119	23625
32	EPTC (6.7) + R-29148	6.70 L	4.00 LB/AC	PPI	127	23775
33	EPTC (6.7) + R-29148	6.70 L	6.00 LB/AC	PPI	122	22850
34	EPTC (6.7) + R-29148	6.70 L	8.00 LB/AC	PPI	114	23325
35A	EPTC (6.7) + R-29148	6.70 L	4.00 LB/AC	PPI	137	22375
35B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
36A	EPTC (6.7) + R-29148	6.70 L	6.00 LB/AC	PPI	123	22975
36B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
37A	EPTC (6.7) + R-29148	6.70 L	8.00 LB/AC	PPI	122	23125
37B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
38	VERNOLATE + R-25788	6.70 E	4.00 LB/AC	PPI	113	21675

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TABLE 7 CORN YELLOW NUTSEDFE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD_	POP_
39	VERNOLATE + R-25788	6.70 E	6.00 LB/AC	PPI	132	21975
40	VERNOLATE + R-25788	6.70 F	8.00 LB/AC	PPI	126	21525
41	VERNOLATE (6.7) + R-	6.70 L	4.00 LB/AC	PPI	119	21975
42	VERNOLATE (6.7) + R-	6.70 L	6.00 LB/AC	PPI	130	21400
43	VERNOLATE (6.7) + R-	6.70 L	8.00 LB/AC	PPI	122	21450
44A	VERNOLATE (6.7) + R-	6.70 L	4.00 LB/AC	PPI	128	21425
44B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
45A	VERNOLATE (6.7) + R-	6.70 L	6.00 LB/AC	PPI	124	22900
45B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
46A	VERNOLATE (6.7) + R-	6.70 L	8.00 LB/AC	PPI	132	22450
46B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
47	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	129	24150
48	BUTYLATE + R-25788	6.70 F	6.00 LB/AC	PPI	126	23875
49	BUTYLATE + R-25788	6.70 F	8.00 LB/AC	PPI	130	21325
50	BUTYLATE (6.7) + R-2	6.70 L	4.00 LB/AC	PPI	127	21375
51	BUTYLATE (6.7) + R-2	6.70 L	6.00 LB/AC	PPI	131	23450
52	BUTYLATE (6.7) + R-2	6.70 L	8.00 LB/AC	PPI	119	21250
53A	BUTYLATE (6.7) + R-2	6.70 L	4.00 LB/AC	PPI	126	23300
53B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
54A	BUTYLATE (6.7) + R-2	6.70 L	6.00 LB/AC	PPI	129	22100
54B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
55A	BUTYLATE (6.7) + R-2	6.70 L	8.00 LB/AC	PPI	130	23575
55B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
56	BENTAZON	4.00 E	1.00 LB/AC	EP	113	22950
57	BENTAZON	4.00 E	2.00 LB/AC	LP	113	21200
58A	BENTAZON	4.00 E	1.00 LB/AC	EP	106	21850
58B	BENTAZON	4.00 E	1.00 LB/AC	LP		

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TABLE 7 CORN YELLOW NUTSEDGE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.	POP.
59A	BENTAZON	4.00 E	2.00 LB/AC	EP	119	23100
59B	BENTAZON	4.00 E	2.00 LB/AC	LP		
60A	BENTAZON	4.00 E	1.00 LB/AC	EP	120	22625
60B	2,4-D AMINE	4.00 E	1.00 LB/AC	EP		
61A	BENTAZON	4.00 E	1.00 LB/AC	EP	124	23500
61B	DICAMBA	4.00 S	0.50 LB/AC	EP		
62	SN 533	2.00 E	2.00 LB/AC	EP	108	21975
63	CHECK (UNCULTIVATED)	0.0 CK	0.0		78	21725
64	CHECK (CULTIVATED)	0.0 CK	0.0		118	22650
LSD(05):					29	--

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 260 N,

60 P,

60 K

SOIL TYPE: MAURY SILT LOAM

DATE PLANTED: MAY 2, 1977

DATE TREATED: MAY 2, 1977 PRE&PPI

VARIETY: PIONEER 3369A

PH: 6.4 O.M.: 2.69

MAY 23, 1977 EP

JUNE 2, 1977 LP

HARVESTED OCT 7, 1977

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TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	40
1B	LINURON	50.00 WP	1.00 LB/AC	PRE	
1C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
1D	SURFACTANT	0.0 WA	0.50 %	PRE	
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	38
2B	LINURON	50.00 WP	0.76 LB/AC	PRE	
2C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
2D	SURFACTANT	0.0 WA	0.50 %	PRE	
3A	ALACHLOR PKG MIX	2.90 L	2.00 LB/AC	PRE	34
3B	WITH LINURON	1.10	0.76	PRE	
3C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
3D	SURFACTANT	0.0 WA	0.50 %	PRE	
4A	ALACHLOR	4.00 E	0.25 LB/AC	PRE	39
4B	LINURON	50.00 WP	1.00 LB/AC	PRE	
4C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
4D	SURFACTANT	0.0 WA	0.50 %	PRE	
5A	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE	31
5B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
5C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
5D	SURFACTANT	0.0 WA	0.50 %	PRE	
6A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	32
6B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	
6C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
6D	SURFACTANT	0.0 WA	0.50 %	PRE	
7A	ALACHLOR PKG MIX	3.20 E	2.00 LB/AC	PRE	41
7B	WITH METRIBUZIN	0.60	0.38	PRE	
7C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
7D	SURFACTANT	0.0 WA	0.50 %	PRE	
8A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	42
8B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	
8C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
8D	SURFACTANT	0.0 WA	0.50 %	PRE	
9A	CGA 24705	8.00 E	2.00 LB/AC	PRE	34
9B	LINURON	50.00 WP	1.00 LB/AC	PRE	
9C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
9D	SURFACTANT	0.0 WA	0.50 %	PRE	
10A	CGA 24705	8.00 E	2.50 LB/AC	PRE	39
10B	LINURON	50.00 WP	1.00 LB/AC	PRE	
10C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
10D	SURFACTANT	0.0 WA	0.50 %	PRE	

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TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.
11A	CGA 24705	8.00 F	2.00 LB/AC	PRE	43
11B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	
11C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
11D	SURFACTANT	0.0 WA	0.50 %	PRE	
12A	CGA 24705	8.00 F	2.00 LB/AC	PRE	41
12B	CHLOROBROMURON	50.00 WP	1.50 LB/AC	PRE	
12C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
12D	SURFACTANT	0.0 WA	0.50 %	PRE	
13A	CGA 24705	8.00 F	2.00 LB/AC	PRE	32
13B	CHLORPROPHAM	4.00 F	2.00 LB/AC	PRE	
13C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
13D	SURFACTANT	0.0 WA	0.50 %	PRE	
14A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	42
14B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	
14C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
14D	SURFACTANT	0.0 WA	0.50 %	PRE	
15A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	32
15B	LINURON	50.00 WP	0.75 LB/AC	PRE	
15C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
15D	SURFACTANT	0.0 WA	0.50 %	PRE	
16A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	26
16B	LINURON	50.00 WP	0.50 LB/AC	PRE	
16C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
16D	SURFACTANT	0.0 WA	0.50 %	PRE	
17A	ORYZALIN	4.00 AS	0.50 LB/AC	PRE	30
17B	METRIBUZIN	50.00 WP	0.25 LB/AC	PRE	
17C	PARAQUAT	2.00 E	0.13 LB/AC	PRE	
17D	SURFACTANT	0.0 WA	0.50 %	PRE	
18A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	31
18B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	
18C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
18D	SURFACTANT	0.0 WA	0.50 %	PRE	
19A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	48
19B	METRIBUZIN	50.00 WP	0.50 LB/AC	PRE	
19C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
19D	SURFACTANT	0.0 WA	0.50 %	PRE	
20A	ORYZALIN	4.00 AS	2.00 LB/AC	PRE	44
20B	METRIBUZIN	50.00 WP	1.00 LB/AC	PRE	
20C	PARAQUAT	2.00 E	0.50 LB/AC	PRE	
20D	SURFACTANT	0.0 WA	0.50 %	PRE	

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TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.
21A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	41
21B	LINURON	50.00 WP	0.50 LB/AC	PRE	
21C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE	
21D	SURFACTANT	0.0 WA	0.50 %	PRE	
22A	ORYZALIN	4.00 AS	0.75 LB/AC	PRE	21
22B	NAPTALAM	3.00 E	4.50 LB/AC	PRE	
22C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE	
22D	SURFACTANT	0.0 WA	0.50 %	PRE	
23A	ORYZALIN	75.00 WP	1.00 LB/AC	PRE	34
23B	CHLORPROPHAM	4.00 E	2.00 LB/AC	PRE	
23C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
23D	SURFACTANT	0.0 WA	0.50 %	PRE	
24A	SN 533	2.00 E	2.00 LB/AC	PRE	39
24B	LINURON	50.00 WP	1.00 LB/AC	PRE	
24C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE	
24D	SURFACTANT	0.0 WA	0.50 %	PRE	
25A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	25
25B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
25C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
25D	SURFACTANT	0.0 WA	0.50 %	PRE	
26A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	31
26B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
26C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
26D	SURFACTANT	0.0 WA	0.50 %	PRE	
27A	BIFENOX	80.00 WP	4.80 LB/AC	PRE	30
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	BIFENOX	80.00 WP	1.20 LB/AC	PRE	45
28B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
28C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
29A	BIFENOX	80.00 WP	2.40 LB/AC	PRE	46
29B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
29C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
30A	BIFENOX	80.00 WP	4.80 LB/AC	PRE	39
30B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
30C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	

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TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD
31A	BIFENOX	4.00 F	1.00 LB/AC	PRE	29
31B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
31C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
31D	SURFACTANT	0.0 WA	0.50 %	PRE	
32A	BIFENOX	4.00 F	2.00 LB/AC	PRE	27
32B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
32C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
32D	SURFACTANT	0.0 WA	0.50 %	PRE	
33A	BIFENOX	4.00 F	4.00 LB/AC	PRE	37
33B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
33C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
33D	SURFACTANT	0.0 WA	0.50 %	PRE	
34A	BIFENOX	4.00 F	1.00 LB/AC	PRE	44
34B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
34C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
35A	BIFENOX	4.00 F	2.00 LB/AC	PRE	49
35B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
35C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
36A	BIFENOX	4.00 F	4.00 LB/AC	PRE	51
36B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
36C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
37A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	36
37B	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	
37C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
37D	SURFACTANT	0.0 WA	0.50 %	PRE	
38A	BIFENOX	80.00 WP	1.20 LB/AC	PRE	34
38B	ORYZALIN	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	BIFENOX	80.00 WP	1.20 LB/AC	PRE	26
39B	CGA 24705	8.00 E	2.00 LB/AC	PRE	
39C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
39D	SURFACTANT	0.0 WA	0.50 %	PRE	
40A	RH 2915	2.00 E	0.38 LB/AC	PRE	32
40B	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
40C	SURFACTANT	0.0 WA	0.50 %	PRE	
41A	RH 2915	2.00 E	0.50 LB/AC	PRE	40
41B	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
41C	SURFACTANT	0.0 WA	0.50 %	PRE	

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TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TPT NO.	HEP BICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD.
42A	PH 2915	2.00 E	0.38 LB/AC	PRE	51
42B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
43A	RH 2915	2.00 F	0.38 LB/AC	PRE	38
43B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
43C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
43D	SURFACTANT	0.0 WA	0.50 %	PRE	
44A	H-22234	4.00 E	2.00 LB/AC	PRE	29
44B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	
44C	PAPAQUAT	2.00 F	0.25 LB/AC	PRE	
44D	SURFACTANT	0.0 WA	0.50 %	PRE	
45A	H-22234	4.00 E	2.00 LB/AC	PRE	50
45B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	
45C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
46A	H-22234	4.00 E	2.00 LB/AC	PRE	30
46B	LINURON	50.00 WP	1.00 LB/AC	PRE	
46C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
46D	SURFACTANT	0.0 WA	0.50 %	PRE	
47A	H-22234	4.00 E	2.00 LB/AC	PRE	35
47B	LINURON	50.00 WP	1.00 LB/AC	PRE	
47C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
48A	H-26910	4.00 E	3.00 LB/AC	PRE	36
48B	METRIBUZIN	50.00 WP	0.38 LB/AC	PRE	
48C	PARAQUAT	2.00 F	0.25 LB/AC	PRE	
48D	SURFACTANT	0.0 WA	0.50 %	PRE	
49A	H-26910	4.00 E	3.00 LB/AC	PRE	37
49B	LINURON	50.00 WP	1.00 LB/AC	PRE	
49C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
49D	SURFACTANT	0.0 WA	0.50 %	PRE	
50A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	31
50B	ALACHLOR	4.00 E	2.00 LB/AC	PRE	
50C	PARAQUAT	2.00 F	0.25 LB/AC	PRE	
50D	SURFACTANT	0.0 WA	0.50 %	PRE	
51A	NAPTALAM	3.00 E	4.50 LB/AC	PRE	23
51B	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	
51C	PAPAQUAT	2.00 E	0.25 LB/AC	PRE	
51D	SURFACTANT	0.0 WA	0.50 %	PRE	
52A	M-4127	4.00 E	1.50 LB/AC	PRE	38
52B	LINURON	50.00 WP	1.00 LB/AC	PRE	
52C	PARAQUAT	2.00 E	0.25 LB/AC	PRE	
52D	SURFACTANT	0.0 WA	0.50 %	PRE	

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TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 0 N, 0 P, 0 K PH: 6.6 O.M.: 4.2%
DATE PLANTED: JUNE 7, 1977 DATE TREATED: JUNE 7, 1977 (PRE)
VARIETY: CALLAND
HARVESTED NOV 4, 1977