

Herbicide Evaluation Trials—1980

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TABLE OF CONTENTS

	Page
TABLE 1: Abbreviations for the Headings	1
TABLE 2: Abbreviations for Application Methods	2
TABLE 3: Techniques Used in Herbicide Trials	3
TABLE 4: Herbicides Used In Weed Control Studies 1980	4
TABLE 5: 1980 Climatological Data	7
TABLE 6: Corn Preemergence	14
TABLE 7: Corn Preplant Incorporation	18
TABLE 8: Corn Postemergence	22
TABLE 9: Corn No-till in Killed Fescue Sod	25
TABLE 10: Corn No-till in Stalkland	28
TABLE 11: Corn Yellow Nutsedge	34
TABLE 12: Soybean Preemergence	37
TABLE 13: Soybean Preplant Incorporation	41
TABLE 14: Soybean Postemergence	46
TABLE 15: Soybean Postemergence Supplement	50
TABLE 16: Soybean Yellow Nutsedge	52
TABLE 17: Soybean Black Nightshade Preemergence	55
TABLE 18: Soybean Black Nightshade Preplant Incorporated and Postemergence	57
TABLE 19: Soybean No-till in Wheat Stubble	60
TABLE 20: Soybean Variety Response to Metribuzin	66
TABLE 21: Burley Tobacco	68
TABLE 22: Species Screening Study	72
TABLE 23: Corn Grass Post Cultivation	75
TABLE 24: Soybean Broadleaf Weeds Postemergence I	77
TABLE 25: Soybean Broadleaf Weeds Postemergence II	81

TABLE 26:	Soybean Diphenyl Ether Preplant Incorporation Study (Shallow)	82
TABLE 27:	Soybean Diphenyl Ether Preplant Incorporation Study (2-3 Inches)	84
TABLE 28:	Soybean Postemergence Grass	85
TABLE 29:	Dowco 356 Corn Postemergence	88
TABLE 30:	Soybean Protectant Study Tracy Preplant Incorporated	91
TABLE 31:	Soybean Protectant Study Williams Preplant Incorporated	93
TABLE 32:	Soybean Protectant Study Tracy Preemergence	95
TABLE 33:	Soybean Protectant Study Williams Preemergence	99
TABLE 34:	Corn Vine Study	103
TABLE 35:	Weed Control in Transplanted Peppers	107
TABLE 36:	Corn Conventional Tillage in Johnsongrass—Princeton	108
TABLE 37:	No-Till Soybean in Wheat Stubble—Princeton	110
TABLE 38:	Soybean Johnsongrass—Princeton	113
TABLE 39:	Soybean Johnsongrass Postemergence—Princeton	116
TABLE 40:	Soybeans—30" Row Postemergence Johnsongrass Control—Princeton	118
TABLE 41:	Soybeans—10" Row Postemergence Johnsongrass Control—Princeton	120
TABLE 42:	Johnsongrass Control in Double Crop Soybeans—Princeton	121
TABLE 43:	Cocklebur Postemergence—Princeton	123
TABLE 44:	Cocklebur Control Programs of Soybeans—Princeton	127
TABLE 45:	Returnable Form For Yields And Additional Information	129

TABLE 1.—Abbreviations for the Headings

BLNS	Nightshade, Black
BRLE	Broadleaf
CLMW	Climbing Milkweed
COCB	Cocklebur, Common
COLQ	Lambsquarters, Common
CRIN	% Crop Injury
GIFT	Foxtail, Giant
GRAS	Grass
ILMG	Morningglory, Ivyleaf
JIWE	Jimsonweed
JOGR	Johnsongrass
LACG	Crabgrass, Large
POP	Plants/Acre x 100
PRSI	Sida, Prickly
SOKI	% Sod Kill
SWMG	Morningglory, Small White
TAMG	Morningglory, Tall
VELE	Velvetleaf
WHAS	White Heath Aster
YENS	Nutsedge, Yellow
YLD	Yield (Bu/Ac)

TABLE 2.—Abbreviations of the Application Methods

CR	Cracking Stage	
COE	Cotyledon Expanded Soybean or Weed	
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	Mid Postemergence	Crop Stage And Weed Size Are Defined For Each Experiment
PD, POD	Postemergence Directed	
POT	Post Transplant	
PPI	Preplant Incorporated	
PRE	Preemergence	
PRT	Pre Transplant	
POE	Postemergence	
PWH	Pre Wheat Harvest	
SPK	Spike	
+3D	Three Days After 1st Application	
+2W	Two Weeks After 1st Application	
+3W	Three Weeks After 1st Application	
4LF	Four Leaf Stage Of Crop	
1WK	One Week Before Planting	
2WK	Two Weeks Before Planting	
3WK	Three Weeks Before Planting	
4WK	Four Weeks Before Planting	
10W	Ten Weeks Before Planting	
SAE	Selective Application Equipment	

TABLE 3.—Techniques Used in Herbicide Trials

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

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

TABLE 4.—Herbicides Used in Weed Control Studies - 1980

<u>CHEMICAL (Generic) NAME</u>	<u>TRADE NAME</u>
Acifluorfen	Blazer
Alachlor	Lasso
Ametryn	Evik
ARD 54	ARD 54
ARD 1675	ARD 1675
ARD 1680	ARD 1680
ARD 1714	ARD 1714
Atrazine	AAtrex
AXF 1124	AXF 1124
AXF 1125	AXF 1125
BAS 9052	BAS 9052
Benazolin	BTS 7903
Benefin	Balan
Bentazon	Basagran
Bifenox	Modown
Bromoxynyl	AXF 1045
Butylate + R-25788	Sutan+
Butylate + R-33865	Sutan Pkg mix + R-33865
CGA-82725	CGA-82725
Chloramben	Amiben
Chlorpropham	Furloe
CP 55097	CP 55097
Crop Oil (Concentrate)	Crop Oil (Concentrate)
Cyanazine	Bladex
Dicamba	Banvel
Diethatyl	Antor
Dinoseb	Premerge, Dow General
Diphenamid	Enide
DPX 6573	DPX 6573
EL 171	Brake
EL 5219	EL 5219
EPTC	Eptam
EPTC + R-25788	Eradicane
EPTC + R-33865	Eradicane Pkg mix + R-33865

TABLE 4.—Herbicides Used in Weed Control Studies - 1980 (continued)

EPTC + R-33865 + R-29148 Pkg mix	Eptam + R-33865 + R-29148 Pkg mix
Ethalfluralin	Sonalan
Ethofumesate	Nortron
Fluchloralin	Basalin
Glyphosate	Roundup
HOE 23408	Hoelon
Isopropalin	Paarlan
KK-80	KK-80
KY 99	KY 0-999 unavailable
Linuron	Lorox
M-3972	Dowco 290
M-4127	Dowco 356
MBR 22359	MBR 22359
Mefluidide	Vistar
Metolachlor	Dual
Metolachlor + Atrazine	Bicep, Dual + Atrazine
Metribuzin	Sencor ¹ , Lexone ²
MO 70077	MO 70077
Mobil 10108	MC 10108
Mobil 10978	Tackle
Mobil 13384	MC 13384
Mobil 14831	MC 14831
MON 8001	MON 8001
NANPA/DN	Dyanap
Napropamide	Devrinol
Napropamide Pkg mix with Pebulate	Devrinol Pkg mix with Tillam
Naptalam	Alanap L
NC 8438	Nortron
NC 20484	NC 20484
NC 23804	NC 23804
NC 24649	NC 24649
Oil Concentrate	Oil Concentrate
Oryzalin	Surflan
Oxyfluorfen	Goal
Paraquat	Paraquat CL
PC-671	PC-671

TABLE 4.—Herbicides Used in Weed Control Studies - 1980 (continued)

Pebulate	Tillam
Pendimuthalin	Prowl
PPG 225	PPG 225
PPG 844	PPG 844
Profluralin	Tolban
R-23758	R-23758
RH 0043	RH 0043
RH 0265	RH 0265
RH 8817	RH 8817
RH 9859	RH 9859
RO 13-8895	RO 13-8895
RO-NEET	RO-NEET
SD 49818	SD 49818
SD 58525	SD 58525
Simazine	Princep
SN 80786	SN 80786
UBI/S-734	UBI/S-734
Surfactant	WK
Surfactant	X-77
Trifluralin	Treflan
Vernolate	Vernam
Vernolate Pkg mix	Surpass + Pkg mix
Vernolate + R-25788	Surpass
Vernolate + R-33865	Vernam Pkg mix + R-33865
2,4-D Amine	2,4-D Amine
2,4-DB	Butyrac 200
2,4-D Ester	Esteron 99

TABLE 5.—1980 Climatological Data

Spindletop Farm
Fayette County, Kentucky

MAY	AIR TEMP.		PRECIP.	SOIL TEMPERATURE				RELATIVE HUMIDITY		
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		MAX	MIN	
				MAX	MIN	MAX	MIN			
1	67	39	0	70	64	58	47	97	44	
2	69	42	0	68	61	59	49	97	42	
3	73	51	0	78	72	64	52	92	36	
4	80	48	0	86	79	67	52	95	33	
5	81	53	0	85	70	68	54	82	37	
6	76	55	0	82	70	67	54	82	50	
7	68	51	0	77	55	63	52	81	43	
8	58	36	0	73	46	61	49	97	48	
9	63	33	0	78		61	46	100	40	
10	70	42	0	67		62	49	82	42	

11	77	66	0	76		62	54	82	56	
12	78	69	0	79		67	58	81	54	
13	81	66	0	88		69	59	77	52	
14	62	51	0.01	72		69	58	90	59	
15	69	38	0	78		65	51	100	46	
16	64	51	0.13			62	54	95	53	
17	62	50	1.35			58	55	95	90	
18	61	58	0.02			66	56	93	55	
19	72	61	0.25			70	61	93	68	
20	74	55	0			68	58	94	53	

21	77	52	0			72	58	96	50	
22	77	56	0			68	58	94	52	
23	79	64	0.12			69	62	93	57	
24	79	59	0.02			69	61	92	68	
25	81	61	0			72	60	95	57	
26	74	56	0			70	59	87	38	
27	79	47	0			71	57	87	31	
28	85	52	0			74	58	86	39	
29	86	63	0			74	62	94	49	
30	80	65	0.02			74	64	92	65	
31	82	68	0.04			74	64	88	58	
TOTAL			1.96							

TABLE 5.—1980 Climatological Data (continued)

JUNE 1980

Spindletop Farm
Fayette County, Kentucky

DATE	AIR TEMP °F		PRECIP. INS.	SOIL TEMP.				RELATIVE HUMIDITY	
	MAX	MIN		2" BELOW BARE GROUND *		2" BELOW SOD		MAX	MIN
				MAX	MIN	MAX	MIN		
1	80	67	0.0			73	65	96	58
2	85	71	0.0			73	65	80	54
3	83	74	0.0			74	66	80	61
4	84	60	0.01			72	62	95	54
5	82	55	0.0			72	60	90	44
6	86	71	0.0			73	65	84	58
7	89	75	0.0			75	67	89	52
8	78	67	0.57			74	67	95	41
9	75	46	0.0			70	58	91	35
10	76	56	0.27			72	60	92	37

11	70	45	0.22			71	59	95	41
12	75	46	0.0			71	57	90	38
13	84	50	0.0			75	56	87	43
14	87	64	0.0			76	62	88	43
15	90	72	0.0			75	65	77	47
16	65	57	0.1			75	69	95	64
17	73	45	0.0			74	56	91	38
18	77	47	0.0			78	58	90	35
19	84	52	0.0			78	60	95	39
20	76	48	0.23			78	58	92	40

21	78	52	0.0			80	60	82	32
22	86	54	0.0			80	60	91	36
23	85	65	0.35			77	63	94	53
24	78	66	0.17			72	64	94	72
25	81	57	0.0			79	63	93	59
26	86	60	0.0			83	65	94	47
27	92	62	0.0			85	67	93	44
28	92	70	0.0			84	70	88	46
29	79	69	0.42			84	68	93	68
30	78	56	0.0			64	76	59	48

Total Precipitation - 2.34 inches

* 2" Below Bare Ground Soil Temperature Not Available

TABLE 5.—1980 Climatological Data (continued)

JULY 1980

Spindletop Farm
Fayette County, Kentucky

DATE	AIR TEMP °F		PRECIP. INS.	SOIL TEMP.				RELATIVE HUMIDITY	
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		MAX	MIN
				MAX	MIN	MAX	MIN		
1	86	53	0.0			84	65	98	49
2	95	70	0.0			84	70	83	41
3	81	65	3.1					93	67
4	89	67	1.15			80	66	94	65
5	90	71	0.21			80	67	92	60
6	86	69	0.0			84	69	94	56
7	87	58	0.0			84	66	94	42
8	94	74	0.0			86	71	85	51
9	93	69	0.81			85	69	96	54
10	90	69	0.5	87	74	83	72	96	60
11	90	72	0.0	91	72	86	72	94	45
12	94	66	0.0	95	70	85	71	93	53
13	86	71	0.0	95	75	85	73	92	62
14	91	66	0.0	98	70	87	71	95	38
15	94	71	0.0	99	75	87	72	91	53
16	98	77	0.0	100	76	89	73	90	46
17	91	76	0.01	97	78	87	74	93	40
18	89	62	0.0	98	72	87	69	95	43
19	95	66	0.0	100	73	89	70	95	40
20	96	76	0.0	100	78	88	75	87	42
21	91	75	0.0	98	78	86	72	85	47
22	78	66	1.31	98	62	94	68	94	86
23	81	63	0.07	85	68	82	68	94	46
24	81	60	0.0	85	66	83	66	93	48
25	87	62	0.0	90	67	86	68	93	49
26	86	63	0.0	91	70	84	68	94	51
27	83	68	0.5	90	72	82	70	95	65
28	79	66	0.17	82	71	77	70	94	64
29	83	62	0.0	85	68	80	67	93	52
30	90	66	0.0	87	70	82	69	91	48
31	93	71	0.0	90	72	82	70	91	53

Total Precipitation - 7.83 inches

TABLE 5.—1980 Climatological Data (continued)

AUGUST 1980

Spindletop Farm
Fayette County, Kentucky

DATE	AIR TEMP °F		PRECIP. INS.	SOIL TEMP.				RELATIVE HUMIDITY	
	MAX	MIN		2" BELOW BARE GROUND		2" BELOW SOD		MAX	MIN
				MAX	MIN	MAX	MIN		
1	89	72	0.06	90	74	82	71	90	50
2	92	76	0.0	90	72	81	70	92	50
3	83	70	0.64	87	72	80	67	97	65
4	84	74	0.0	84	73	78	70	88	70
5	87	72	0.02	83	71	78	69	90	65
6	92	68	0.32	88	71	82	68	94	57
7	92	70	0.0	90	74	85	71	96	53
8	92	74	0.0	90	75	86	73	92	51
9	93	75	0.0	96	75	85	73	94	48
10	94	73	0.0	97	76	85	73	95	47
11	91	72	0.0	98	76	84	72	96	43
12	84	68	0.59	86	73	83	76	93	50
13	87	65	0.0	92	68	84	68	95	41
14	86	68	0.0	90	72	84	68	90	50
15	78	72	0.44	90	74	79	70	94	86
16	75	69	TRACE	78	71	74	69	95	71
17	91	66	0.0	87	68	78	66	83	54
18	89	76	0.0	90	73	80	71	88	58
19	89	70	0.58	88	72	82	70	93	57
20	92	67	0.07	91	72	83	71	94	53
21	93	74	0.0	91	74	84	73	92	50
22	83	67	0.14	84	72	81	71	93	46
23	83	63	0.0	85	68	81	67	94	44
24	85	62	0.0	86	68	82	67	94	47
25	88	60	0.0	90	68	83	66	94	38
26	91	64	0.0	91	69	84	67	91	34
27	91	68	0.0	91	70	82	68	87	38
28	92	66	0.0	91	72	82	68	91	35
29	85	71	0.0	90	73	82	69	88	60
30	83	64	0.40	82	71	76	68	95	56
31	87	61	0.0	84	65	78	66	91	54

Total Precipitation - 3.26 inches

TABLE 5.—1980 Climatological Data (continued)

MAY 1980

Experimental Research Farm - Princeton, Kentucky
Caldwell County, Kentucky

DATE	AIR TEMP °F		PRECIP. INS.	MAX SOIL TEMP 4" BELOW SOD	% RELATIVE HUMIDITY MIN
	MIN	MAX			
1	50	70	0.0	61	46
2	40	72	0.0	60	48
3	46	74	0.0	61	38
4	48	80	0.0	62	34
5	50	82	0.0	62	42
6	48	82	0.0	62	32
7	48	70	0.0	61	44
8	38	64	0.0	62	38
9	34	69	0.0	62	30
10	44	78	0.0	61	48

11	57	80	0.0	63	36
12	54	80	0.13	65	60
13	58	84	0.01	68	60
14	47	82	0.90	66	50
15	43	73	0.0	66	40
16	54	73	0.62	65	50
17	64	70	0.06	66	100
18	57	79	0.03	67	58
19	62	74	0.17	68	60
20	54	74	0.0	70	50

21	54	78	0.0	70	50
22	64	76	0.18	70	70
23	62	76	1.20	68	64
24	60	76	0.12	69	72
25	58	81	0.0	70	54
26	62	82	0.0	72	30
27	53	84	0.0	72	38
28	55	87	0.0	72	48
29	60	87	0.0	72	64
30	68	82	0.56	74	64
31	67	80	0.10	72	70

Total Precipitation - 4.08 inches

TABLE 5.—1980 Climatological Data (continued)

JUNE 1980

Experimental Research Farm - Princeton, Kentucky
Caldwell County, Kentucky

DATE	AIR TEMP		PRECIP. INS.	MAX SOIL TEMP 4" BELOW SOD	% RELATIVE HUMIDITY MIN
	MIN	MAX			
1		85	0.02	73	52
2		88	0.0	74	60
3		89	0.0	75	62
4		88	0.0	75	60
5		91	0.0	76	58
6		91	0.0	76	60
7		92	0.0	78	50
8		88	0.0	76	56
9		80	0.0	75	32
10		84	0.0	75	32

11		81	0.0	74	30
12		80	0.0	73	34
13		88	0.0	76	38
14		92	0.0	76	42
15		92	0.0	76	42
16		91	0.0	74	50
17		78	0.0	74	44
18		82	0.0	75	44
19		88	0.0	76	42
20		87	0.0	76	36

21		84	0.0	75	32
22		89	0.0	76	48
23		88	0.31	76	60
24		85	0.42	78	62
25		88	0.0	79	56
26		90	0.0	80	48
27		94	0.0	82	44
28		97	0.0	82	44
29		94	2.67	77	46
30		85	0.0	77	50

Total Precipitation - 3.42 inches

TABLE 5.—1980 Climatological Data (continued)

JULY 1980

Experimental Research Farm - Princeton, Kentucky
Caldwell County, Kentucky

DATE	AIR TEMP.		PRECIP. INS.	MAX SOIL TEMP 4" BELOW SOD	% RELATIVE HUMIDITY MIN
	MIN	MAX			
1	65	91	0	78	50
2	77	96	0	81	70
3	68	96	1.45	82	70
4	72	91	0	78	72
5	75	94	0	82	68
6	75	93	0.19	85	60
7	69	95	0	83	60
8	66	99	0	84	60
9	76	98	0	84	60
10	79	97	0	82	70

11	76	98	0	84	60
12	78	98	0.06	84	46
13	74	95	0	84	62
14	67	97	0	84	38
15	64	102	0	84	40
16	75	101	0	85	50
17	78	100	0	84	38
18	64	95	0	84	40
19	63	100	0	84	38
20	75	95	0	84	44

21	72	94	TRACE	84	44
22	68	83	1.16	84	60
23	65	84	0.10	84	50
24	59	84	0	84	50
25	60	90	0	84	40
26	64	99	0	84	50
27	69	88	0.18	83	46
28	65	85	0.02	83	44
29	60	90	0	85	60
30	66	94	0	84	40
31	70	98	0	85	50

Total Precipitation - 3.16 inches

TABLE 5.—1980 Climatological Data (continued)

AUGUST 1980

Experimental Research Farm - Princeton, Kentucky
Caldwell County, Kentucky

DATE	AIR TEMP.		PRECIP. INS.	MAX SOIL TEMP 4" BELOW SOD	% RELATIVE HUMIDITY MIN
	MIN	MAX			
1	75	98	0	85	42
2	75	95	0	85	60
3	74	93	0	85	60
4	63	93	0	84	70
5	64	85	1.40	84	70
6	70	94	0.10	85	68
7	72	97	0	84	60
8	72	99	0	84	46
9	71	98	0	84	40
10	74	97	0	84	44

11	74	98	0	84	48
12	68	98	0	83	32
13	63	94	0	83	42
14	65	94	0.10	83	60
15	72	92	0.03	82	64
16	72	95	0	82	46
17	72	96	0	81	44
18	73	97	0	84	42
19	73	98	0	84	50
20	73	100	0	84	38

21	70	99	0	84	40
22	**	97	0	84	42
23	56	88	0	84	38
24	60	91	0	82	32
25	61	94	0	82	40
26	63	95	0	82	28
27	68	95	0	82	34
28	69	95	0	82	38
29	70	93	0.30	82	46
30	68	93	0	84	42
31	70	95	0	83	42

Total Precipitation - 1.93 inches

TABLE 6.—Corn Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24, 1980-----						
					GRAS	BRLE	CRIN	GIFT	COLQ	VELE	TAMG
1	ATRAZINE	4.00 L	2.00 LB/AC	PRE	75	95	0	78	90	90	90
2	ATRAZINE	90.00 WDG	2.00 LB/AC	PRE	80	98	0	78	92	95	95
3A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	95	92	0	95	98	90	88
3B	SIMAZINE	4.00 L	2.00 LB/AC	PRE							
4A	ATRAZINE	90.00 WDG	1.50 LB/AC	PRE	95	98	0	95	95	92	92
4B	SIMAZINE	90.00 WDG	1.60 LB/AC	PRE							
5	CYANAZINE	4.00 L	3.00 LB/AC	PRE	95	88	0	95	92	80	85
6A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	98	85	0	98	90	82	82
6B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	90	95	0	90	95	90	90
7B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
8A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	100	92	0	100	98	92	88
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
8C	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
9A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	100	92	0	100	95	92	88
9B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
9C	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
10A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	100	90	0	100	90	85	88
10B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
10C	METALACHLOR	8.00 E	2.00 LB/AC	PRE							
11A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	98	90	0	98	95	95	88
11B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
11C	METALACHLOR	8.00 E	2.00 LB/AC	PRE							
12A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	95	85	0	95	90	90	78
12B	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE							
13	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	100	88	0	100	95	88	85
14	METALACHLOR	8.00 E	2.50 LB/AC	PRE	92	58	0	95	82	45	35
15	METALACHLOR	8.00 E	3.00 LB/AC	PRE	95	48	0	95	60	38	50
16A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	92	0	100	95	88	88
16B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							

14

TABLE 6.—Corn Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24, 1980-----						
					GRAS	BRLE	CRIN	GIFI	COLG	VELE	TAMG
17A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	92	78	0	95	90	58	82
17B	SIMAZINE	90.00 WDG	1.60 LB/AC	PRE							
18A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	78	0	98	90	68	80
18B	SIMAZINE	4.00 L	1.60 LB/AC	PRE							
19A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	95	80	0	95	85	70	80
19B	CYANAZINE	4.00 L	2.00 LB/AC	PRE							
20	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	50	0	98	80	55	30
21	ALACHLOR	4.00 E	3.00 LB/AC	PRE	100	65	0	100	88	58	52
22A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	90	0	95	92	92	85
22B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
22C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE							
23A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	60	0	92	92	88	38
23B	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE							
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	100	88	0	100	98	85	85
24B	CYANAZINE	4.00 L	2.00 LB/AC	PRE							
24C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE							
25A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	92	0	100	95	92	88
25B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
25C	METRIBUZIN 1	50.00 WP	.25 LB/AC	PRE							
26A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	98	90	0	98	90	82	90
26B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
27	CP 55097	8.00 EC	2.25 LB/AC	PRE	92	62	0	92	85	45	58
28A	CP 55097	8.00 EC	1.75 LB/AC	PRE	98	90	0	100	98	92	78
28B	ATRAZINE	4.00 L	1.40 LB/AC	PRE							
29A	CP 55097	8.00 EC	1.75 LB/AC	PRE	98	88	0	98	92	80	85
29B	CYANAZINE	4.00 L	2.00 LB/AC	PRE							
30A	M-4127	4.00 E	1.50 LB/AC	PRE	92	92	8	92	92	92	90
30B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
31	NC-23804	3.20 E	1.00 LB/AC	PRE	78	65	0	78	82	80	15
32	NC-23804	3.20 E	2.00 LB/AC	PRE	85	62	0	85	82	85	28

TABLE 6.—Corn Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24, 1980-----						
					GRAS	BRLE	CRIN	GIFT	COLQ	VELE	IAMG
33	NC-23804	3.20 E	3.00 LB/AC	PRE	98	75	0	98	90	90	25
34A	NC-23804	3.20 E	2.00 LB/AC	PRE	95	72	0	95	90	90	50
34B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
35	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	98	75	0	98	90	85	48
36	PENDIMETHALIN	4.00 E	2.00 LB/AC	PRE	92	80	0	92	90	90	60
37A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	100	92	0	100	95	92	90
37B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
37C	CYANAZINE	4.00 L	2.00 LB/AC	PRE							
38A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	98	92	0	98	100	98	95
38B	ATRAZINE	4.00 L	1.00 LB/AC	PRE							
38C	SIMAZINE	4.00 L	1.00 LB/AC	PRE							
39A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	100	92	5	100	98	92	92
39B	CYANAZINE	4.00 L	2.00 LB/AC	PRE							
39C	SIMAZINE	4.00 L	1.00 LB/AC	PRE							
40A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	95	90	0	98	95	90	90
40B	ATRAZINE	4.00 L	1.50 LB/AC	PRE							
41	PPG-844	2.00 E	.75 LB/AC	PRE	82	78	12	82	85	70	70
42	PPG-844	2.00 E	1.50 LB/AC	PRE	90	85	30	88	92	82	80
43	PPG-225	3.00 E	1.00 LB/AC	PRE	80	85	0	80	88	78	70
44	PPG-225	3.00 E	2.00 LB/AC	PRE	85	85	0	85	90	85	78
45	SN-80786	4.00 E	2.00 LB/AC	PRE	100	45	50	100	62	45	30
46	SN-80786	4.00 E	3.00 LB/AC	PRE	98	42	72	98	55	32	32
47	SIMAZINE	4.00 L	2.00 LB/AC	PRE	90	78	0	90	90	68	80
48	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100
				LSD(05):	8	12	6	8	14	14	17

TABLE 6.—Corn Preemergence (continued)

LOCATION: SPINDLETOP FARM
FERTILIZATION (LB/AC): 260 N,
DATE PLANTED: MAY 5, 1980
VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
60 P, 60 K PH: 6.7 O.M.: 3.4%
DATE TREATED: MAY 5, 1980 PRE

TABLE 7.—Corn Preplant Incorporation

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 1980-----					
					GRAS	BRLE	CRIN	GIFT	COLQ	VELE
1	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PPI	90	90	0	90	95	98
2A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	85	85	0	88	90	90
2B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
3A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	85	88	0	85	88	92
3B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
3C	ALACHLOR	4.00 E	2.00 LB/AC	PPI						
4A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	92	90	0	92	90	85
4B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
4C	ALACHLOR	4.00 E	2.00 LB/AC	PPI						
5A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	92	90	0	92	92	85
5B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
5C	METALACHLOR	8.00 E	2.00 LB/AC	PPI						
6A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	82	62	22	88	92	82
6B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
6C	METALACHLOR	8.00 E	2.00 LB/AC	PPI						
7A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	90	100	0	90	98	98
7B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
7C	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI						
8A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	92	100	0	92	98	98
8B	ATRAZINE	4.00 L	1.00 LB/AC	PPI						
8C	EPTC + R25788	6.70 E	4.00 LB/AC	PPI						
9	METALACHLOR	8.00 E	2.50 LB/AC	PPI	98	62	0	98	65	68
10	METALACHLOR	8.00 E	3.00 LB/AC	PPI	95	68	0	95	68	65
11	METALACHLOR	8.00 E	4.00 LB/AC	PPI	100	68	0	100	70	70
12A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	88	85	0	88	92	82
12B	ATRAZINE	4.00 L	1.60 LB/AC	PPI						
13A	METALACHLOR	8.00 E	3.00 LB/AC	PPI	90	85	0	90	85	78
13B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
14A	EPTC	6.00	4.00	PPI	85	80	0	85	78	78
14B	R-33865	.50	.66	PPI						
14C	R-29148	.25	.17	PPI						

TABLE 7.—Corn Preplant Incorporation (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 1980-----					
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE
15A	EPTC	6.00	6.00	PPI	90	88	0	90	82	85
15B	R-33865	.50	1.00	PPI						
15C	R-29148	.25	.25	PPI						
16A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	88	92	0	88	95	92
16B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
17A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	98	100	0	98	100	100
17B	WITH R-33865	.50	.33	PPI						
17C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
18A	EPTC PKG MIX	6.00 EC	6.00 LB/AC	PPI	92	98	0	92	95	95
18B	WITH R-33865	.50	.50	PPI						
18C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
19A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	90	100	0	92	98	98
19B	WITH R-33865	1.00	.67	PPI						
19C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
20A	EPTC PKG MIX	6.00 EC	6.00 LB/AC	PPI	95	100	0	95	100	100
20B	WITH R-33865	1.00	1.00	PPI						
20C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
21A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	98	90	0	95	92	92
21B	WITH R-33865	1.00	.67	PPI						
21C	CYANAZINE	4.00 L	2.00 LB/AC	PPI						
22A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	88	98	0	88	98	98
22B	VERNDLATE + R-25788	6.70 E	3.00 LB/AC	PPI						
22C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
23A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	90	98	0	92	95	95
23B	VERNDLATE + R-25788	6.70 E	3.00 LB/AC	PPI						
23C	ATRAZINE	4.00 L	1.60 LB/AC	PPI						
24A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	98	98	0	98	100	98
24B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI						
24C	ATRAZINE	4.00 L	1.60 LB/AC	PPI						
25	ALACHLOR	4.00 E	2.50 LB/AC	PPI	95	68	0	95	72	70
26	ALACHLOR	4.00 E	3.00 LB/AC	PPI	92	78	0	92	78	78
27	ALACHLOR	4.00 E	4.00 LB/AC	PPT	92	80	0	92	75	80

TABLE 7.—Corn Preplant Incorporation (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 1980-----					
					GRAS	BRLE	CRIN	GIFT	COLQ	VELE
28A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	92	92	0	92	92	88
28B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
29A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	92	95	0	92	95	88
29B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
30	CP 55097	8.00 EC	2.50 LB/AC	PPI	92	82	0	92	85	75
31	CP 55097	8.00 EC	3.00 LB/AC	PPI	98	90	0	98	88	88
32A	CP 55097	8.00 EC	2.00 LB/AC	PPI	98	92	0	98	92	90
32B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
33	CP 55097	8.00 EC	4.00 LB/AC	PPI	100	90	0	100	90	88
34A	CP 55097	8.00 EC	2.00 LB/AC	PPI	92	85	0	95	90	78
34B	CYANAZINE	4.00 L	2.25 LB/AC	PPI						
35A	CP 55097	8.00 EC	3.00 LB/AC	PPI	100	98	0	100	100	98
35B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
36A	VERNOLATE+ PKG MIX	6.00 EC	4.00 LB/AC	PPI	88	95	0	92	95	95
36B	WITH R-33865	.50	.33	PPI						
36C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
37A	VERNOLATE+ PKG MIX	6.00 EC	4.00 LB/AC	PPI	88	90	0	88	88	88
37B	WITH R-33865	1.00	.67	PPI						
37C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
38A	VERNOLATE PKG MIX	6.00 EC	6.00 LB/AC	PPI	92	100	8	90	92	95
38B	WITH R-33865	.50	.50	PPI						
38C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
39A	VERNOLATE+ PKG MIX	6.00 EC	6.00 LB/AC	PPI	90	100	0	90	95	95
39B	WITH R-33865	1.00	1.00	PPI						
39C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
40A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	90	95	0	90	95	92
40B	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
41A	BUTYLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	90	95	0	90	95	95
41B	WITH R-33865	.50	.33	PPI						
41C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
42A	BUTYLATE PKG MIX	6.00 EC	6.00 LB/AC	PPI	92	98	0	92	98	95
42B	WITH R-33865	.50	.50	PPI						
42C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						

TABLE 7.—Corn Preplant Incorporation (continued)

				-----JUNE 24 1980 -----						
<u>TRT NO.</u>	<u>HERBICIDE TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL METH</u>	<u>GRAS</u>	<u>BRLE</u>	<u>CRIN</u>	<u>GIFI</u>	<u>COLQ</u>	<u>VELE</u>
43A	BUTYLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	88	95	0	88	92	92
43B	WITH R-33865	1.00	.67	PPI						
43C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
44A	BUTYLATE PKG MIX	6.00 EC	6.00 LB/AC	PPI	90	95	0	90	92	88
44B	WITH R-33865	1.00	1.00	PPI						
44C	ATRAZINE	4.00 L	1.50 LB/AC	PPI						
45	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100
LSD(05):					5	11	NS	8	9	10

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.8 O.M.: 3.5%
 DATE PLANTED: MAY 6, 1980 DATE TREATED: MAY 6, 1980 PPI
 VARIETY: PIONEER 3369A

TABLE 8.—Corn Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 1980-----					
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE
1A	ATRAZINE	4.00 L	.75 LB/AC	PRE	75	92	0	75	90	90
1B	AMETRYNE	80.00 WP	1.00 LB/AC	PD						
2A	ATRAZINE	4.00 L	2.00 LB/AC	MP	58	90	0	58	90	90
2B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP						
3	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	28	82	0	25	82	82
4A	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	30	90	0	30	90	90
4B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	POD						
5A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	95	98	0	95	98	98
5B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
5C	METRIBUZIN 1	4.00 F	.50 LB/AC	POD						
6A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	95	98	0	95	98	95
6B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
6C	METRIBUZIN 1	4.00 F	.38 LB/AC	POD						
6D	2,4-D AMINE	4.00 E	.50 LB/AC	POD						
7A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	92	100	0	92	100	100
7B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
7C	METRIBUZIN 1	4.00 F	.50 LB/AC	POD						
7D	2,4-D AMINE	4.00 E	.50 LB/AC	POD						
8	CYANAZINE	80.00 WP	2.00 LB/AC	EP	78	92	0	78	92	92
9	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	45	75	0	45	75	75
10A	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	35	90	0	35	90	90
10B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	POD						
11A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	92	98	0	92	95	95
11B	ALACHLOR	4.00 E	2.00 LB/AC	PRE						
11C	METRIBUZIN 1	4.00 F	.38 LB/AC	POD						
12A	CYANAZINE	80.00 WP	3.00 LB/AC	EP	82	92	0	82	92	92
12B	SURFACTANT	.50 WA	.25 %	EP						
13A	ATRAZINE	4.00 L	1.00 LB/AC	EP	85	92	0	85	92	92
13B	CYANAZINE	80.00 WP	2.00 LB/AC	EP						
14A	ATRAZINE	4.00 L	1.00 LB/AC	EP	85	95	0	85	95	95
14B	CYANAZINE	80.00 WP	2.00 LB/AC	EP						
14C	SURFACTANT	.50 WA	.25 %	EP						

TABLE 8.—Corn Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 1980-----					
					GRAS	BRLE	CRIN	GIFT	COLQ	VELE
15A	CYANAZINE	80.00 WP	2.00 LB/AC	EP	82	95	0	82	95	95
15B	ATRAZINE	4.00 L	.50 LB/AC	EP						
15C	DICAMBA	4.00 S	.25 LB/AC	EP						
16A	CYANAZINE	80.00 WP	2.00 LB/AC	EP	88	92	0	88	92	92
16B	ATRAZINE	4.00 L	1.00 LB/AC	EP						
16C	DICAMBA	4.00 S	.50 LB/AC	EP						
17	DICAMBA	4.00 S	.50 LB/AC	EP	22	90	0	22	90	90
18A	DICAMBA	4.00 S	.25 LB/AC	EP	58	90	0	58	90	90
18B	2,4-D AMINE	4.00 E	.50 LB/AC	EP						
19A	DICAMBA	4.00 S	.25 LB/AC	LP	45	92	0	45	92	92
19B	2,4-D AMINE	4.00 E	.50 LB/AC	LP						
20	2,4-D AMINE	4.00 E	.50 LB/AC	EP	35	90	0	35	90	88
21A	METALACHLOR	8.00 E	2.00 LB/AC	EP	88	95	0	88	95	95
21B	ATRAZINE	4.00 L	1.60 LB/AC	EP						
21C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP						
22A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	MP	60	92	0	60	92	92
22B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP						
23	PENDIMETHALIN	4.00 E	1.50 LB/AC	4LF	60	92	0	60	92	92
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	100	0	92	100	100
24B	ATRAZINE	4.00 L	1.00 LB/AC	PRE						
24C	PENDIMETHALIN	4.00 E	1.50 LB/AC	LP						
24D	ATRAZINE	4.00 L	1.50 LB/AC	LP						
25	NC-23804	3.20 E	1.00 LB/AC	EP	65	68	20	65	88	88
26	NC-23804	3.20 E	2.00 LB/AC	EP	42	85	0	42	85	85
27A	BENAZOLIN	3.00 E	.25 LB/AC	MP	30	90	0	30	90	90
27B	ATRAZINE	4.00 L	1.00 LB/AC	MP						
28A	BENAZOLIN	3.00 E	.19 LB/AC	MP	25	82	0	25	82	82
28B	DICAMBA	4.00 S	.13 LB/AC	MP						
29A	ATRAZINE	4.00 L	.75 LB/AC	PRE	75	85	0	75	85	85
29B	PPG-225	3.00 E	.50 LB/AC	POD						

TABLE 8.—Corn Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24 1980-----					
					GRAS	BRLE	CRIN	GIEI	COLQ	VELE
30A	ATRAZINE	4.00 L	.75 LB/AC	PRE	62	90	0	62	88	85
30B	PPG-225	3.00 E	1.00 LB/AC	POD						
31A	ATRAZINE	4.00 L	.75 LB/AC	PRE	80	92	0	80	92	92
31B	PPG-225	3.00 E	2.00 LB/AC	POD						
32	AXF-1124	45.00 WP	1.50 LB/AC	MP	45	90	0	45	90	90
33	AXF-1124	45.00 WP	3.00 LB/AC	MP	80	92	0	80	92	92
34	AXF-1125	5.25 EC	1.50 LB/AC	MP	60	90	0	60	90	90
35	AXF-1125	5.25 EC	3.00 LB/AC	MP	82	92	0	80	90	90
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	95	0	90	95	95
36B	BROMOXNYL	2.00 E	.50 LB/AC	EP						
37A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	0	100	100	100
37B	BROMOXNYL	2.00 E	.50 LB/AC	EP						
37C	ATRAZINE	4.00 L	2.00 LB/AC	EP						
38	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100
			LSD(05):		32	13	NS	31	8	8

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 260 N,

60 P,

60 K

SOIL TYPE: MAURY SILT LOAM

PH: 6.8

O.M.: 3.4%

DATE PLANTED: MAY 6 1980

DATE TREATED: MAY 23 EP

VARIETY: PIONEER 3369A

MAY 29 MP

JUNE 5 LP

JUNE 5 PD,POD

TABLE 9.—Corn No-till in Killed Fescue Sod

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980-----					
					GRAS	BRLE	CRIN	SOKI	GIET	RRPW
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100	100	100
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE						
1C	SURFACTANT	.50 WA	.50 %	PRE						
2A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100	100	100
2B	ALACHLOR	4.00 E	2.50 LB/AC	PRE						
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
2D	SURFACTANT	.50 WA	.50 %	PRE						
3A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	100	0	100	100	100
3B	SIMAZINE	4.00 L	1.50 LB/AC	PRE						
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
3D	SURFACTANT	.50 WA	.50 %	PRE						
4A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	100	100	100
4B	ATRAZINE	4.00 L	1.60 LB/AC	PRE						
4C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
4D	SURFACTANT	.50 WA	.50 %	PRE						
5A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	85	100	100
5B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE						
5C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
5D	SURFACTANT	.50 WA	.50 %	PRE						
6A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	95	98	0	98	95	98
6B	ALACHLOR	4.00 E	2.50 LB/AC	PRE						
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
6D	SURFACTANT	.50 WA	.50 %	PRE						
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	100	100	100
7B	ATRAZINE	4.00 L	1.00 LB/AC	PRE						
7C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
7D	SURFACTANT	.50 WA	.25 %	PRE						
8A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	100	100	0	100	100	100
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE						
8C	PARAQUAT	2.00 E	.25 LB/AC	PRE						
8D	SURFACTANT	.50 WA	.25 %	PRE						
9A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	100	100	0	95	100	100
9B	PARAQUAT	2.00 E	.25 LB/AC	PRE						
9C	SURFACTANT	.50 WA	.25 %	PRE						
10A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	90	100	100
10B	SIMAZINE	4.00 L	1.60 LB/AC	PRE						
10C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE						

TABLE 9.—Corn No-till in Killed Fescue Sod (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980-----					
					GRAS	BRLE	CRIN	SOKI	GIFT	RRPW
11A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	75	100	100
11B	SIMAZINE	4.00 L	2.00 LB/AC	PRE						
11C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE						
12A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	95	100	0	85	95	100
12B	ATRAZINE	4.00 L	1.60 LB/AC	PRE						
12C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE						
13A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	90	100	100
13B	ATRAZINE	4.00 L	2.00 LB/AC	PRE						
13C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE						
14A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	90	100	100
14B	ATRAZINE	4.00 L	1.00 LB/AC	PRE						
14C	SIMAZINE	4.00 L	2.00 LB/AC	PRE						
14D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE						
15A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	100	100	0	88	100	100
15B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
15C	SIMAZINE	4.00 L	1.50 LB/AC	PRE						
15D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE						
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	0	80	100	100
16B	ATRAZINE	4.00 L	2.00 LB/AC	PRE						
16C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE						
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	100	0	90	100	100
17B	ATRAZINE	4.00 L	2.00 LB/AC	PRE						
17C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE						
18A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	100	100	0	88	100	100
18B	ALACHLOR	4.00 E	2.50 LB/AC	PRE						
18C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE						
19	MON 8001	3.83 E	3.83 LB/AC	PRE	95	100	0	42	95	100
20A	MON 8001	3.83 E	4.00 LB/AC	PRE	100	100	0	70	100	100
20B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
21A	MON 8001	3.83 E	5.00 LB/AC	PRE	100	100	0	90	100	100
21B	ATRAZINE	4.00 L	1.50 LB/AC	PRE						
22A	GLYPOSATE	1.48 E	1.48 LB/AC	PRE	90	98	0	90	90	98
22B	CP 55097	2.60 E	2.60 LB/AC	PRE						

TABLE 9.—Corn No-till in Killed Fescue Sod (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980-----					
					GRAS	BRLE	CRIN	SQKI	GIFI	RRPW
23A	GLYPOSATE	1.48 E	1.85 LB/AC PRE		100	100	0	95	100	100
23B	CP 55097	2.60 E	3.25 LB/AC PRE							
24A	GLYPOSATE	1.48 E	1.48 LB/AC PRE		100	100	0	95	100	100
24B	CP 55097	2.60 E	2.60 LB/AC PRE							
24C	ATRAZINE	4.00 L	1.50 LB/AC PRE							
LSD(05):					NS	NS	NS	10	NS	NS

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K
 DATE PLANTED: MAY 15 1980
 VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM
 PH: 6.4 O.M.: 4.0%
 DATE TREATED: MAY 15 1980 PRE

TABLE 10.—Corn No-till in Stalkland

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980 -----				
					GRAS	BRLE	CRIN	GIFI	RRPW
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	68	85	0	68	85
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE					
1C	SURFACTANT	.50 WA	.50 %	PRE					
2A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	82	95	0	82	95
2B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
2D	SURFACTANT	.50 WA	.50 %	PRE					
3A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	82	88	0	82	88
3B	SIMAZINE	4.00 L	1.50 LB/AC	PRE					
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
3D	SURFACTANT	.50 WA	.50 %	PRE					
4A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	78	92	0	78	92
4B	ATRAZINE	4.00 L	1.60 LB/AC	PRE					
4C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
4D	SURFACTANT	.50 WA	.50 %	PRE					
5A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	75	80	0	75	80
5B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE					
5C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
5D	SURFACTANT	.50 WA	.50 %	PRE					
6A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	80	75	0	80	75
6B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
6D	SURFACTANT	.50 WA	.50 %	PRE					
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	80	92	0	80	92
7B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
7C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
7D	SURFACTANT	.50 WA	.25 %	PRE					
8A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	82	90	0	82	90
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
8C	METALACHLOR	8.00 E	2.00 LB/AC	PRE					
8D	PARAQUAT	2.00 E	.25 LB/AC	PRE					
8E	SURFACTANT	.50 WA	.25 %	PRE					
9A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	80	88	0	80	88
9B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
9C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
9D	PARAQUAT	2.00 E	.25 LB/AC	PRE					
9E	SURFACTANT	.50 WA	.25 %	PRE					

TABLE 10.—Corn No-till in Stalkland (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980 -----				
					GRAS	BRLE	CRIN	GIFT	RRPW
10A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	82	92	0	82	92
10B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
10C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
10D	PARAQUAT	2.00 E	.25 LB/AC	PRE					
10E	SURFACTANT	.50 WA	.25 %	PRE					
11A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	70	82	0	70	82
11B	ATRAZINE	4.00 L	1.50 LB/AC	2WK					
11C	PARAQUAT	2.00 E	.25 LB/AC	2WK					
11D	SURFACTANT	.50 WA	.25 %	2WK					
12A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	78	90	0	78	90
12B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
12C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
12D	SURFACTANT	.50 WA	.25 %	PRE					
13A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	82	88	0	82	88
13B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
13C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
13D	SURFACTANT	.50 WA	.25 %	PRE					
14A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	82	92	0	82	92
14B	SIMAZINE	4.00 L	2.00 LB/AC	2WK					
14C	PARAQUAT	2.00 E	.25 LB/AC	2WK					
14D	SURFACTANT	.50 WA	.25 %	2WK					
15A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	85	90	0	85	90
15B	SIMAZINE	4.00 L	2.00 LB/AC	PRE					
15C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
15D	SURFACTANT	.50 WA	.25 %	PRE					
16A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	85	85	0	85	85
16B	SIMAZINE	4.00 L	2.00 LB/AC	PRE					
16C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
16D	SURFACTANT	.50 WA	.25 %	PRE					
17A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	70	78	0	70	78
17B	CYANAZINE	4.00 L	2.00 LB/AC	2WK					
17C	PARAQUAT	2.00 E	.25 LB/AC	2WK					
17D	SURFACTANT	.50 WA	.25 %	2WK					
18A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	72	82	0	72	82
18B	CYANAZINE	4.00 L	2.00 LB/AC	PRE					
18C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
18D	SURFACTANT	.50 WA	.50 %	PRE					

TABLE 10.—Corn No-till in Stalkland (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980 -----				
					GRAS	BRLE	CRIN	GIFT	RRPW
19A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	85	90	0	85	90
19B	CYANAZINE	4.00 L	2.00 LB/AC	PRE					
19C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
19D	SURFACTANT	.50 WA	.25 %	PRE					
20A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	88	90	0	88	90
20B	PARAQUAT	2.00 E	.25 LB/AC	PRE					
20C	SURFACTANT	.50 WA	.25 %	PRE					
21A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	82	88	0	82	88
21B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE					
21C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
22A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	82	92	0	82	92
22B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
22C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
23A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	82	92	0	82	92
23B	ATRAZINE	4.00 L	1.60 LB/AC	PRE					
23C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
24A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	85	90	0	85	90
24B	SIMAZINE	4.00 L	1.60 LB/AC	PRE					
24C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
25A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	85	92	0	85	92
25B	SIMAZINE	4.00 L	1.60 LB/AC	PRE					
25C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					
26A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	92	95	0	92	95
26B	SIMAZINE	4.00 L	2.00 LB/AC	PRE					
26C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					
27A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	78	88	0	78	88
27B	ATRAZINE	4.00 L	1.60 LB/AC	PRE					
27C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					
28A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	80	88	0	80	88
28B	ATRAZINE	4.00 L	2.00 LB/AC	PRE					
28C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					
29A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	90	95	0	90	95
29B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
29C	SIMAZINE	4.00 L	2.00 LB/AC	PRE					
29D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					

TABLE 10.—Corn No-till in Stalkland (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980 -----				
					GRAS	BRLE	CRIN	GIFT	RRPN
30A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	90	95	0	90	95
30B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
30C	SIMAZINE	4.00 L	1.50 LB/AC	PRE					
30D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					
31A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	78	78	0	78	78
31B	ALACHLOR	4.00 E	2.50 LB/AC	PRE					
31C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
32A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	80	90	0	80	90
32B	ATRAZINE	4.00 L	1.00 LB/AC	PRE					
32C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE					
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	98	0	90	98
33B	ATRAZINE	4.00 L	2.00 LB/AC	PRE					
33C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE					
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	95	0	90	95
34B	ATRAZINE	4.00 L	2.00 LB/AC	PRE					
34C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE					
35	MON 8001	3.83 E	3.83 LB/AC	PRE	72	85	0	72	85
36A	MON 8001	3.83 E	4.00 LB/AC	PRE	75	88	0	75	88
36B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
37A	MON 8001	3.83 E	5.00 LB/AC	PRE	85	88	0	85	88
37B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
38A	DICAMBA	4.00 S	.50 LB/AC	1WK	85	92	0	85	92
38B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
38C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
38D	PARAQUAT	2.00 E	.25 LB/AC	PRE					
38E	SURFACTANT	.50 WA	.50 %	PRE					
39A	DICAMBA	4.00 S	.25 LB/AC	1WK	90	100	0	90	100
39B	2,4-D AMINE	4.00 E	.75 LB/AC	1WK					
39C	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
39D	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
39E	PARAQUAT	2.00 E	.25 LB/AC	PRE					
40A	DICAMBA	4.00 S	.50 LB/AC	PRE	88	90	0	88	90
40B	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
40C	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
40D	PARAQUAT	2.00 E	.25 LB/AC	PRE					
40E	SURFACTANT	.50 WA	.50 %	PRE					

TABLE 10.—Corn No-till in Stalkland (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 16 1980-----				
					GRAS	BRLE	CRIN	GIFT	RRPN
41A	DICAMBA	4.00 S	.25 LB/AC	PRE	78	88	0	78	88
41B	2,4-D AMINE	4.00 E	.75 LB/AC	PRE					
41C	ATRAZINE	4.00 L	1.50 LB/AC	PRE					
41D	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
41E	PARAQUAT	2.00 E	.25 LB/AC	PRE					
42A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	82	92	0	82	92
42B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
42C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
42D	SURFACTANT	.50 WA	.50 %	PRE					
42E	DICAMBA	4.00 S	.50 LB/AC	LP					
43A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	80	90	0	80	90
43B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
43C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
43D	SURFACTANT	.50 WA	.50 %	PRE					
43E	DICAMBA	4.00 S	.25 LB/AC	MP					
44A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	85	98	0	85	98
44B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
44C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
44D	SURFACTANT	.50 WA	.50 %	PRE					
44E	2,4-D AMINE	4.00 E	.50 LB/AC	MP					
45A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	80	90	0	80	90
45B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
45C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
45D	SURFACTANT	.50 WA	.50 %	PRE					
45E	DICAMBA	4.00 S	.25 LB/AC	LP					
46A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	75	92	0	75	92
46B	ALACHLOR	4.00 E	2.00 LB/AC	PRE					
46C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
46D	SURFACTANT	.50 WA	.50 %	PRE					
46E	DICAMBA	4.00 S	.25 LB/AC	POD					
47A	GLYPOSATE	1.48 E	1.48 LB/AC	PRE	78	80	0	78	80
47B	CP 55097	2.60 E	2.60 LB/AC	PRE					
48A	GLYPOSATE	1.48 E	1.98 LB/AC	PRE	82	90	0	82	90
48B	CP 55097	2.60 E	3.25 LB/AC	PRE					
			LSD(05):		13	11	NS	13	11

TABLE 10.—Corn No-till in Stalkland (continued)

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 260 N, 60 P, 60 K PH: 6.3 O.M.: 5.0%
DATE PLANTED: MAY 15 1980 DATE TREATED: MAY 1 1980 2WK
VARIETY: PIONEER 3369A MAY 9 1980 1WK
MAY 15 1980 PRE

MAY 23 1980 SPK
MAY 29 1980 EP
JUNE 6 1980 MP
JUNE 9 1980 LP
JULY 1 1980 PQD

TABLE 11.—Corn Yellow Nutsedge

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEIH	JUNE 20 -- YENS	JULY 14 - CRIN	YENS	CRIN
1	CP 55097	8.00 EC	2.25 LB/AC	PRE	95	0	95	0
2	CP 55097	8.00 EC	2.50 LB/AC	PPT	100	0	98	0
3	CP 55097	8.00 EC	3.00 LB/AC	PPI	92	0	92	0
4	CP 55097	8.00 EC	4.00 LB/AC	PPI	100	0	100	0
5	METALACHLOR	8.00 E	2.50 LB/AC	PRE	92	0	90	0
6	METALACHLOR	8.00 E	3.00 LB/AC	PRE	95	0	95	0
7	METALACHLOR	8.00 E	2.50 LB/AC	PPI	95	0	95	0
8	METALACHLOR	8.00 E	3.00 LB/AC	PPI	98	0	98	0
9	METALACHLOR	8.00 E	4.00 LB/AC	PPI	100	0	100	0
10A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	92	0	92	0
10B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
11A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	98	0	98	0
11B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
12	ALACHLOR	4.00 E	3.00 LB/AC	PRE	92	0	90	0
13	ALACHLOR	4.00 E	3.00 LB/AC	PPI	92	0	90	0
14	ALACHLOR	4.00 E	4.00 LB/AC	PPI	95	0	95	0
15A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	95	0	95	0
15B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
16A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	98	0	98	0
16B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
17A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	98	0	98	0
17B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
18A	ALACHLOR	4.00 E	4.00 LB/AC	PPI	98	0	98	0
18B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
19A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	92	0	92	0
19B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				

TABLE 11.—Corn Yellow Nutsedge (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JUNE 20 --		JULY 14 -	
					YENS	CRIN	YENS	CRIN
20	NC 20484	4.00 E	.50 LB/AC	PRE	85	0	80	0
21	NC 20484	4.00 E	1.00 LB/AC	PRE	92	0	92	0
22	NC 20484	4.00 E	.50 LB/AC	PPI	88	0	85	0
23	NC 20484	4.00 E	1.00 LB/AC	PPI	85	0	92	0
24A	NC 20484	4.00 E	.50 LB/AC	PRE	88	0	82	0
24B	ATRAZINE	4.00 L	1.50 LB/AC	PRE				
25A	NC 20484	4.00 E	.50 LB/AC	PRE	90	0	85	0
25B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
26A	BENTAZON	4.00 E	.75 LB/AC	EP	75	0	75	0
26B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP				
27A	BENTAZON	4.00 E	.75 LB/AC	LP	80	0	82	0
27B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP				
28A	BENAZOLIN	3.00 E	.25 LB/AC	MP	65	0	62	0
28B	BENTAZON	4.00 E	.25 LB/AC	MP				
29A	BENAZOLIN	3.00 E	.38 LB/AC	MP	72	0	72	0
29B	BENTAZON	4.00 E	.25 LB/AC	MP				
30A	SN-80786	4.00 E	2.50 LB/AC	PPI	88	62	82	52
30B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
31A	SN-80786	4.00 E	3.00 LB/AC	PPI	92	62	90	52
31B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
32A	VERNOLATE + R-25788	6.70 E	4.00 LB/AC	PPI	95	0	95	0
32B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
33A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	92	0	88	0
33B	ATRAZINE	4.00 L	1.50 LB/AC	PPI				
34	CHECK (CULTIVATED)	.00 CK	.00		95	0	92	0
			LSD (05):		7	4	8	5

TABLE 11.—Corn Yellow Nutsedge (continued)

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 6 1980	DATE TREATED:	MAY 6 1980 PPI,PRE
VARIETY:	PIONEER 3369A		MAY 23 1980 EP
			MAY 29 1980 MP
JUNE 5 1980 LP			

TABLE 12.—Soybean Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----						
					GRAS	BRLE	CRIN	GIFT	CDCB	JIWE	IAMG
1	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE	85	65	2	85	65	68	65
2A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	70	68	0	70	70	65	62
2B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
3A	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE	85	72	0	85	72	58	65
3B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE							
4A	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	80	78	0	80	75	62	70
4B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE							
4C	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
5	METALACHLOR	8.00 E	2.50 LB/AC	PRE	88	68	0	88	52	75	65
6A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	95	75	0	95	75	82	65
6B	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE							
7A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	98	75	2	98	75	80	60
7B	LINURON	4.00 L	1.00 LB/AC	PRE							
8A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	98	82	8	98	68	90	82
8B	RH 0043	2.00 EC	1.00 LB/AC	PRE							
9A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	92	70	0	92	68	85	75
9B	RH-8817	2.00 E	.50 LB/AC	PRE							
10A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	92	78	10	92	72	82	82
10B	RH-8817	2.00 E	.62 LB/AC	PRE							
11A	BIFENOX	4.00 F	1.50 LB/AC	PRE	70	78	0	55	78	80	70
11B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
12A	BIFENOX	4.00 F	1.50 LB/AC	PRE	90	60	0	90	58	65	70
12B	METALACHLOR	8.00 E	2.00 LB/AC	PRE							
13	RH-8817	2.00 E	.75 LB/AC	PRE	65	75	5	68	72	85	80
14	RH-8817	2.00 E	.50 LB/AC	PRE	50	80	2	52	78	80	72
15	RH-8817	2.00 E	.62 LB/AC	PRE	58	68	0	60	68	75	78
16	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	42	72	5	45	78	80	62
17	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	65	70	0	65	70	82	58

TABLE 12.—Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----						
					GRAS	BRLE	CRIN	GIEI	COCB	JIWE	IAMG
18	LINURON	4.00 L	1.00 LB/AC	PRE	68	72	0	68	72	80	60
19	OXYFLUORFEN	2.00 E	.38 LB/AC	PRE	78	78	0	78	78	80	78
20A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	98	70	0	98	58	82	68
20B	RH-8817	2.00 E	.38 LB/AC	PRE							
21	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	68	0	90	68	78	50
22	ALACHLOR	4.00 E	3.00 LB/AC	PRE	92	62	0	92	65	70	50
23A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	95	72	0	98	75	82	50
23B	METRIBUZIN 1	4.00 F	.50 LB/AC	PRE							
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	72	0	95	75	82	55
24B	LINURON	4.00 L	1.00 LB/AC	PRE							
25A	ALACHLOR	4.00 E	1.00 LB/AC	PRE	88	75	0	88	70	72	62
25B	LINURON	4.00 L	.75 LB/AC	PRE							
25C	NANPA/DN	3.00 E	3.75 LB/AC	PRE							
26A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	95	88	22	90	85	88	85
26B	LINURON	4.00 L	1.50 LB/AC	PRE							
26C	NANPA/DN	3.00 E	7.50 LB/AC	PRE							
27A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	92	78	0	92	75	78	70
27B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
27C	NANPA/DN	3.00 E	3.00 LB/AC	PRE							
28A	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	52	75	0	55	72	72	68
28B	NANPA/DN	3.00 E	3.00 LB/AC	PRE							
29A	NANPA/DN	3.00 E	3.00 LB/AC	PRE	38	55	5	42	55	62	55
29B	LINURON	4.00 L	.50 LB/AC	PRE							
30A	NAPTALAM	2.00 EC	2.00 LB/AC	PRE	28	62	2	28	60	72	52
30B	LINURON	4.00 L	.50 LB/AC	PRE							
31A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	92	68	0	92	65	70	68
31B	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE							
31C	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE							
32A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	82	80	0	82	72	80	65
32B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							

TABLE 12.—Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980 -----						
					GRAS	BRLE	CRIN	GIFI	COCB	JINE	TAMG
33	DPX-6573	50.00 W	.75 LB/AC	PRE	50	55	0	52	55	60	42
34	DPX-6573	50.00 W	1.13 LB/AC	PRE	70	70	0	70	72	78	58
35	DPX-6573	50.00 W	1.50 LB/AC	PRE	72	75	0	72	72	80	55
36A	DPX-6573	50.00 W	1.13 LB/AC	PRE	92	78	0	92	75	82	55
36B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
37	M-4127	4.00 E	1.50 LB/AC	PRE	80	58	0	80	48	78	62
38A	M-4127	4.00 E	1.50 LB/AC	PRE	90	70	0	90	75	80	48
38B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
39A	M-4127	4.00 E	2.00 LB/AC	PRE	90	70	2	90	75	82	52
39B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
40A	M-4127	4.00 E	1.50 LB/AC	PRE	92	70	0	92	70	75	68
40B	LINURON	4.00 L	1.00 LB/AC	PRE							
41A	M-4127	4.00 E	2.00 LB/AC	PRE	95	75	0	92	72	80	65
41B	LINURON	4.00 L	1.00 LB/AC	PRE							
42A	M-4127	4.00 E	1.50 LB/AC	PRE	85	70	0	88	68	75	60
42B	DINOSEB	3.00 E	1.50 LB/AC	PRE							
43A	M-4127	4.00 E	2.00 LB/AC	PRE	85	62	0	85	52	78	58
43B	DINOSEB	3.00 E	1.50 LB/AC	PRE							
44	M-13384	3.50 EC	3.50 LB/AC	PRE	85	70	0	85	62	78	68
45	EL-5219	3.00 EC	.75 LB/AC	PRE	75	60	0	75	52	52	62
46	EL-5219	3.00 EC	.94 LB/AC	PRE	85	78	5	85	78	78	78
47A	EL-5219	3.00 EC	.94 LB/AC	PRE	75	72	0	78	68	75	50
47B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE							
48A	EL-5219	3.00 EC	.94 LB/AC	PRE	75	72	0	75	72	68	68
48B	LINURON	4.00 L	.75 LB/AC	PRE							
49A	ETHALFLURALIN	3.00 E	.75 LB/AC	PRE	82	80	0	82	88	80	60
49B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE							
50A	ETHALFLURALIN	3.00 E	1.00 LB/AC	PRE	90	78	0	90	75	82	60
50B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE							

TABLE 12.—Soybean Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----						
					GRAS	BRLE	CRIN	GIFT	COCB	JIWE	IAMG
51A	DIETHATYL	4.00 E	2.00 LB/AC	PRE	82	75	0	82	78	75	65
51B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
52	PPG-844	2.00 E	.50 LB/AC	PRE	8	60	5	8	58	62	60
53	PPG-844	2.00 E	.75 LB/AC	PRE	35	62	0	35	60	65	62
54A	PPG-844	2.00 E	.25 LB/AC	PRE	92	72	0	92	70	80	70
54B	METALACHLOR	8.00 E	2.00 LB/AC	PRE							
55A	PPG-844	2.00 E	.50 LB/AC	PRE	90	68	0	90	62	78	72
55B	METALACHLOR	8.00 E	2.00 LB/AC	PRE							
56	CP 55097	8.00 EC	2.25 LB/AC	PRE	95	80	28	95	80	88	72
57A	CP 55097	8.00 EC	1.75 LB/AC	PRE	92	72	5	92	80	90	55
57B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
58A	CP 55097	8.00 EC	1.75 LB/AC	PRE	92	78	0	92	80	88	65
58B	LINURON	4.00 L	.75 LB/AC	PRE							
59A	SN-80786	4.00 E	1.50 LB/AC	PRE	72	75	2	72	78	78	62
59B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
60A	SN-80786	4.00 E	2.50 LB/AC	PRE	85	72	12	85	75	78	58
60B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE							
61	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	65	78	0	65	78	80	62
62A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	92	82	0	92	90	90	65
62B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
63A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PRE	100	82	0	100	85	88	62
63B	METALACHLOR	8.00 E	2.00 LB/AC	PRE							
64	CHECK (CULTIVATED)	.00 CK	.00		82	88	0	85	85	88	90
			LSD(05):		15	14	6	16	16	15	18

40

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.6 O.M.: 3.5%
 DATE PLANTED: MAY 15, 1980 DATE TREATED: MAY 15, 1980 PRE
 VARIETY: WILLIAMS

TABLE 13.—Soybean Preplant Incorporation

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 2 1980								
					GRAS	BRLE	CRIN	GIFI	COCB	JINE	TAMG	COLQ	
1	ALACHLOR	4.00 E	2.50 LB/AC	PPI	90	52	0	90	62	70	48	40	
2	ALACHLOR	4.00 E	3.00 LB/AC	PPI	88	55	5	88	65	68	50	40	
3	METALACHLOR	8.00 E	2.50 LB/AC	PPI	95	50	0	90	58	60	35	38	
4	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	35	78	0	35	78	78	55	75	
5	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	88	58	2	88	50	68	68	88	
6	VERNDLATE	7.00 E	2.50 LB/AC	PPI	82	60	28	82	58	70	65	80	
7	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	90	58	10	90	55	50	58	75	
8	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	90	62	5	90	55	48	52	85	
9	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	85	62	0	85	60	60	58	70	
10A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	80	78	8	82	78	68	55	85	
10B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI									
11A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	88	78	5	88	78	75	60	88	
11B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI									
12A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	52	68	8	52	60	68	70	72	
12B	RH-8817	2.00 E	.75 LB/AC	PPI									
13A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	92	80	8	92	65	78	72	90	
13B	RH-8817	2.00 E	1.00 LB/AC	PPI									
14A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	88	80	18	88	70	80	72	90	
14B	RH-8817	2.00 E	1.50 LB/AC	PPI									
15A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	92	65	22	92	55	65	60	55	
15B	OXYFLUORFEN	2.00 E	.75 LB/AC	PPI									
16A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	85	75	22	88	58	80	72	82	
16B	OXYFLUORFEN	2.00 E	1.00 LB/AC	PPI									
17A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	92	68	8	92	58	62	62	88	
17B	METRIBUZIN 1	4.00 F	.25 LB/AC	PPI									
17C	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI									
18A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	90	72	0	90	70	68	70	88	
18B	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI									

TABLE 13.—Soybean Preplant Incorporation (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----							
					GRAS	BRLE	CRIN	GIFT	COCB	JINE	IAMG	COLQ
31A	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI	92	65	5	92	55	60	65	78
31B	PROFLURALIN	4.00 E	1.00 LB/AC	PPI								
32A	PROFLURALIN	4.00 E	1.00 LB/AC	PPI	92	65	8	92	52	50	65	85
32B	CHLORAMBEN	2.00 E	2.00 LB/AC	PRE								
33A	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI	90	78	0	90	75	70	68	88
33B	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI								
33C	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
34A	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI	90	75	18	90	62	58	65	80
34B	TRIFLURALIN	4.00 E	.75 LB/AC	PPI								
35	EL-5219	3.00 EC	.75 LB/AC	PPI	88	65	15	88	70	55	65	68
36	EL-5219	3.00 EC	.94 LB/AC	PPI	85	68	15	88	55	62	62	88
37A	EL-5219	3.00 EC	.94 LB/AC	PPI	85	80	20	85	75	72	60	92
37B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
38A	EL-5219	3.00 EC	.94 LB/AC	PPI	90	80	15	90	65	70	78	90
38B	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI								
38C	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
39	BIFENOX	80.00 WP	2.00 LB/AC	PPI	8	30	0	8	30	30	30	18
40A	BIFENOX	4.00 F	1.50 LB/AC	PPI	88	68	0	88	62	58	68	85
40B	TRIFLURALIN	4.00 E	.75 LB/AC	PPI								
41A	FLUCHLORALIN	4.00 E	.75 LB/AC	PPI	88	70	0	88	72	62	70	75
41B	METRIBUZIN 2	75.00 DF	.38 LB/AC	PPI								
42A	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	88	75	8	88	78	72	70	82
42B	METRIBUZIN 2	75.00 DF	.38 LB/AC	PPI								
43A	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	90	72	0	90	60	55	68	92
43B	LINURON	4.00 L	.75 LB/AC	PRE								
44A	FLUCHLORALIN	4.00 E	2.00 LB/AC	PPI	92	78	5	90	70	80	78	92
44B	LINURON	4.00 L	1.50 LB/AC	PRE								
45A	S-734	75.00 WP	.50 LB/AC	PPI	80	68	0	82	78	72	38	60
45B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI								
46A	S-734	75.00 WP	.75 LB/AC	PPI	88	60	0	88	72	68	42	40
46B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI								

TABLE 13.—Soybean Preplant Incorporation (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----							
					GRAS	BRLE	CRIN	GIFT	COC3	JINE	IAMG	COL3
47A	S-734	75.00 WP	1.00 LB/AC	PPI	88	70	8	88	82	72	40	50
47B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI								
48A	S-734	75.00 WP	.50 LB/AC	PPI	78	68	0	80	75	62	48	68
48B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI								
49A	S-734	75.00 WP	.75 LB/AC	PPI	85	72	5	85	70	68	52	75
49B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI								
50A	S-734	75.00 WP	1.00 LB/AC	PPI	88	68	12	88	75	65	40	72
50B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI								
51A	S-734	75.00 WP	1.50 LB/AC	PPI	88	68	35	92	75	68	45	68
51B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
52A	S-734	75.00 WP	1.50 LB/AC	PPI	88	70	28	88	70	75	32	78
52B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI								
53A	S-734	75.00 WP	.50 LB/AC	PPI	88	52	15	88	55	68	45	45
53B	OXYFLUORFEN	2.00 E	.50 LB/AC	PPI								
54A	S-734	75.00 WP	.75 LB/AC	PPI	90	65	5	90	70	70	55	58
54B	RH-8817	2.00 E	.50 LB/AC	PPI								
55A	S-734	75.00 WP	.50 LB/AC	PPI	92	68	2	92	70	62	65	70
55B	TRIFLURALIN	4.00 E	.50 LB/AC	PPI								
56A	S-734	75.00 WP	.25 LB/AC	PPI	85	60	8	85	62	48	55	78
56B	TRIFLURALIN	4.00 E	.50 LB/AC	PPI								
57A	BIFENOX	4.00 F	1.50 LB/AC	PPI	78	52	5	78	65	68	50	42
57B	DIETHATYL	4.00 E	2.00 LB/AC	PPI								
58A	SN-80786	4.00 E	2.00 LB/AC	PPI	75	75	0	75	78	65	58	75
58B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
59A	SN-80786	4.00 E	3.00 LB/AC	PPI	70	75	2	70	70	75	65	80
59B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
60	CP 55097	8.00 EC	2.50 LB/AC	PPI	92	75	55	92	72	85	52	80
61A	CP 55097	8.00 EC	2.00 LB/AC	PPI	92	80	52	92	78	78	50	82
61B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI								
62	M-13384	3.50 EC	4.00 LB/AC	PPI	85	70	2	85	70	72	52	55

TABLE 13.—Soybean Preplant Incorporation (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----							
					GRAS	BRLE	CRIN	GIFI	COCB	JINE	TA4G	COLQ
63A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	85	65	12	85	65	62	58	78
63B	WITH R-33865	1.00	.42	PPI								
64A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	82	62	2	82	52	62	65	75
64B	WITH R-33865	.50	.21	PPI								
65	VERNOLATE+ PKG MIX	6.00 EC	2.50 LB/AC	PPI	82	68	15	82	68	68	65	75
66A	METRIBUZIN 1	75.00 SPR	.50 LB/AC	PPI	90	80	0	90	78	68	72	85
66B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI								
67A	METRIBUZIN 1	4.00 F	.50 LB/AC	PPI	90	75	0	90	75	68	70	85
67B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI								
68	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100	100
			LSD(05):		9	14	14	9	20	18	22	18

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

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

PH: 3.5 O.M.: 6.6%

DATE PLANTED: MAY 15 1980

DATE TREATED: MAY 15 1980 PRE,PPI

VARIETY: WILLIAMS

TABLE 14.—Soybean Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980 -----						
					GRAS	BRLE	CRIN	GIFT	COLG	LINE	IAMB
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	85	72	8	85	82	50	52
1B	NANPA/DN	3.00 E	1.50 LB/AC	EP							
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	75	12	80	85	48	42
2B	NANPA/DN	3.00 E	2.25 LB/AC	EP							
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	95	48	5	92	35	50	50
3B	NANPA/DN	3.00 E	2.25 LB/AC	MP							
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	68	2	90	65	68	52
4B	NANPA/DN	3.00 E	3.00 LB/AC	MP							
5A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	85	82	0	85	88	80	50
5B	BENTAZON	4.00 E	.75 LB/AC	EP							
5C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP							
6A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	70	12	88	75	50	58
6B	NAPTALAM	2.00 EC	2.00 LB/AC	MP							
6C	ACIFLUORFEN	2.00 E	.25 LB/AC	MP							
7	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	12	88	8	12	88	88	85
8	ACIFLUORFEN	2.00 E	.75 LB/AC	EP	12	90	22	12	90	90	82
9A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	92	55	5	92	42	48	52
9B	R4-0265	2.00 E	.12 LB/AC	EP							
9C	SURFACTANT	.50 WA	.13 %	EP							
10A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	92	80	10	92	95	65	60
10B	ACIFLUORFEN	2.00 E	.38 LB/AC	EP							
11A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	88	75	22	88	80	68	65
11B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP							
12A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	95	85	12	95	90	75	75
12B	ACIFLUORFEN	2.00 E	.75 LB/AC	MP							
13	RH 0043	2.00 EC	.12 LB/AC	MP	10	25	72	10	20	22	28
14	RH-0265	2.00 E	.12 LB/AC	MP	30	20	38	30	20	20	35
15A	FLUCHLORALIN	4.00 E	1.00 LB/AC	PPI	80	88	0	80	95	80	72
15B	BENTAZON	4.00 E	.75 LB/AC	MP							
15C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP							

TABLE 14.—Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----						
					GRAS	BRLE	CRIN	GIFI	COLQ	JINE	IAMB
16A	BAS 9052	1.53 EC	.50 LB/AC	EP	90	78	5	90	75	75	30
16B	BENTAZON	4.00 E	.75 LB/AC	EP							
16C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP							
17A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	90	80	2	90	92	62	68
17B	CHLORPROPHAM	4.00 E	2.00 LB/AC	COE							
18A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	90	75	5	90	90	72	68
18B	CHLORPROPHAM 124	4.00 E	2.00 LB/AC	COE							
19A	BENAZOLIN	3.00 E	.13 LB/AC	MP	28	12	2	28	12	12	12
19B	BENTAZON	4.00 E	.25 LB/AC								
20A	HOE 23408	3.00 E	1.00 LB/AC	EP	75	88	25	75	90	80	65
20B	BENTAZON	4.00 E	.75 LB/AC	EP							
21A	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	80	78	15	80	92	82	45
21B	HOE 23408	3.00 E	1.00 LB/AC	EP							
22A	LINURON	4.00 L	1.00 LB/AC	PRE	82	82	10	82	90	80	52
22B	HOE 23408	3.00 E	1.00 LB/AC	EP							
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	88	82	8	88	92	75	60
23B	MC 10978	2.00 S	.25 LB/AC	EP							
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	82	8	92	90	68	50
24B	MC 10978	2.00 S	.50 LB/AC	EP							
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	82	15	92	95	75	65
25B	MC 10978	2.00 S	.25 LB/AC	EP							
25C	SURFACTANT	.50 WA	.25 %	EP							
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	88	80	15	88	92	78	75
26B	MC 10978	2.00 S	.50 LB/AC	EP							
26C	SURFACTANT	.50 WA	.25 %	EP							
27A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	88	80	22	88	90	70	70
27B	MC 10978	2.00 S	.25 LB/AC	EP							
27C	CROP OIL	.00 AD	1.00 QT/AC	EP							
28A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	80	25	90	88	75	78
28B	MC 10978	2.00 S	.50 LB/AC	EP							
28C	CROP OIL	.00 AD	1.00 QT/AC	EP							
29	CGA-82725	2.50 E	.75 LB/AC	EP	92	20	10	92	18	18	18

TABLE 14.—Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980 -----						
					GRAS	BRLE	CRIN	GIFT	COLQ	JINE	IAMG
30A	CGA-82725	2.50 E	.25 LB/AC	EP	92	90	8	92	90	90	70
30B	BENTAZON	4.00 E	.75 LB/AC	EP							
31A	CGA-82725	2.50 E	.50 LB/AC	EP	100	78	20	100	80	80	65
31B	BENTAZON	4.00 E	.75 LB/AC	EP							
32A	CGA-82725	2.50 E	.75 LB/AC	EP	95	62	12	95	55	65	60
32B	BENTAZON	4.00 E	.75 LB/AC	EP							
33A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	82	78	5	82	78	70	48
33B	PPG-844	2.00 E	.13 LB/AC	EP							
34A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	78	5	90	78	92	45
34B	PPG-844	2.00 E	.17 LB/AC	EP							
35A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	82	10	90	78	78	68
35B	PPG-844	2.00 E	.25 LB/AC	EP							
36A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	90	75	0	90	88	70	50
36B	M070077	4.00 L	.75 LB/AC	EP							
37A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	85	78	0	85	90	70	45
37B	M070077	4.00 L	1.00 LB/AC	EP							
38A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	82	0	88	90	72	48
38B	M070077	4.00 L	1.50 LB/AC	EP							
39A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	68	0	88	70	55	45
39B	M070077	4.00 L	.75 LB/AC	EP							
39C	SURFACTANT	.50 WA	.25 %	EP							
40A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	88	82	5	88	90	80	62
40B	M070077	4.00 L	1.00 LB/AC	EP							
40C	SURFACTANT	.50 WA	.25 %	EP							
41	AXF-1124	45.00 WP	1.50 LB/AC	MP	18	85	68	18	88	78	62
42	AXF-1124	45.00 WP	3.00 LB/AC	MP	15	92	98	15	92	92	88
43	AXF-1125	5.25 EC	1.50 LB/AC	MP	12	82	88	32	85	72	67
44	AXF-1125	5.25 EC	3.00 LB/AC	MP	22	82	100	22	88	78	85
45A	CHLDRAMBEN	2.00 E	3.00 LB/AC	EP	90	32	18	90	32	32	22
45B	HOE 23408	3.00 E	1.00 LB/AC	EP							

48

TABLE 14.—Soybean Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980 -----						
					GRAS	BRLE	CRIN	GIET	COLQ	JIWE	IAMG
46	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100	100	100	100
				LSD(05):	14	15	13	16	15	19	24

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

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

PH: 6.6 O.M.: 3.5%

DATE PLANTED: MAY 14 1980

DATE TREATED: MAY 14 1980 PPI, PRE

VARIETY: WILLIAMS

MAY 23 1980 CR, COE

MAY 30 1980 EP

JUNE 5 1980 MP

JUNE 9 1980 POD

TABLE 15.—Soybean Postemergence Supplement

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----						
					GRAS	BRLE	CRIN	GIET	COLO	VELE	IAMG
1A	NANPA/DN	3.00 E	2.25 LB/AC	LP	90	53	20	90	43	47	47
1B	ALACHLOR	4.00 E	2.00 LB/AC	PRE							
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	87	63	30	87	57	63	60
2B	NANPA/DN	3.00 E	3.00 LB/AC	LP							
3A	NANPA/DN	3.00 E	4.50 LB/AC	CR	87	83	0	87	93	77	43
3B	METALACHLOR	8.00 E	2.00 LB/AC	CR							
4	METRIBUZIN 2	75.00 DF	.38 LB/AC	POD	17	73	0	17	93	87	20
5	METRIBUZIN 2	75.00 DF	.50 LB/AC	POD	10	73	0	10	80	77	30
6	LINURON	4.00 L	.75 LB/AC	POD	13	83	0	13	90	87	50
7A	LINURON	4.00 L	.75 LB/AC	POD	17	90	7	17	90	90	90
7B	2,4-DB	2.00 E	.10 LB/AC	POD							
8A	ACIFLUORFEN	2.00 E	.38 LB/AC	EP	17	63	0	17	87	73	37
8B	BENTAZON	4.00 E	.25 LB/AC	EP							
9A	ACIFLUORFEN	2.00 E	.38 LB/AC	EP	17	60	7	17	63	60	20
9B	BENTAZON	4.00 E	.38 LB/AC	EP							
10A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	17	63	7	17	73	70	10
10B	BENTAZON	4.00 E	.25 LB/AC	EP							
11A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	53	77	13	53	90	77	60
11B	BENTAZON	4.00 E	.50 LB/AC	EP							
12A	DINoseb	3.00 E	.19 LB/AC	MP	7	10	0	7	10	10	10
12B	BENTAZON	4.00 E	.50 LB/AC	MP							
13A	DINoseb	3.00 E	.38 LB/AC	MP	3	3	0	3	3	3	3
13B	BENTAZON	4.00 E	.50 LB/AC	MP							
14A	DINoseb	3.00 E	.19 LB/AC	LP	0	0	0	0	0	0	0
14B	BENTAZON	4.00 E	.50 LB/AC	LP							
15A	DINoseb	3.00 E	.38 LB/AC	LP	7	17	0	17	17	17	17
15B	BENTAZON	4.00 E	.50 LB/AC	LP							
16A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	90	87	13	93	93	90	33
16B	METRIBUZIN 1	4.00 F	.50 LB/AC	POD							
16C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	POD							

TABLE 15.—Soybean Postemergence Supplement (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 2 1980-----						
					GRAS	BRLE	CRIN	GIFI	COLQ	VELE	TAMG
17A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	90	80	20	90	90	90	23
17B	METRIBUZIN 1	4.00 F	.50 LB/AC	POD							
17C	SURFACTANT	.50 WA	.25 %	POD							
18A	TRIFLURALIN	4.00 E	1.00 LB/AC	PPI	90	90	10	90	90	90	90
18B	METRIBUZIN 1	4.00 F	.50 LB/AC	POD							
18C	2,4-DB	2.00 E	.20 LB/AC	POD							
18D	SURFACTANT	.50 WA	.25 %	POD							
LSD(05):					16	13	15	16	14	15	30

LOCATION: SPINDLETOP FARM

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

DATE PLANTED: MAY 15 1980

VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM

PH: 6.6 O.M.: 3.5%

DATE TREATED: MAY 15 1980 PPI,PRE

MAY 23 1980 CR,EP

JUNE 9 1980 POD,LP

TABLE 16.—Soybean Yellow Nutsedge

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JUNE 20 - YENS	CRIN	JULY 14 - YENS	CRIN
1	DIETHATYL	4.00 E	3.00 LB/AC	PRE	78	0	72	0
2	DIETHATYL	4.00 E	3.00 LB/AC	PRE	72	0	65	0
3	DIETHATYL	4.00 E	3.00 LB/AC	PRE	68	0	60	0
4	DIETHATYL	4.00 E	3.00 LB/AC	PPI	80	0	75	0
5	DIETHATYL	4.00 E	3.00 LB/AC	PPI	80	0	72	0
6	DIETHATYL	4.00 E	3.00 LB/AC	PPI	75	2	68	2
7	ALACHLOR	4.00 E	3.00 LB/AC	PRE	88	0	82	0
8	ALACHLOR	4.00 E	4.00 LB/AC	PRE	90	2	90	0
9	ALACHLOR	4.00 E	3.00 LB/AC	PPI	88	0	85	0
10	ALACHLOR	4.00 E	4.00 LB/AC	PPI	90	8	82	5
11	METALACHLOR	8.00 E	2.50 LB/AC	PRE	95	5	95	2
12	METALACHLOR	8.00 E	3.00 LB/AC	PRE	95	0	95	0
13	METALACHLOR	8.00 E	4.00 LB/AC	PRE	100	5	98	5
14	METALACHLOR	8.00 E	2.50 LB/AC	PPI	100	15	98	12
15	METALACHLOR	8.00 E	3.00 LB/AC	PPI	100	8	100	5
16	METALACHLOR	8.00 E	4.00 LB/AC	PPI	100	8	100	8
17	CP 55097	8.00 EC	2.25 LB/AC	PRE	92	18	82	15
18	CP 55097	8.00 EC	2.50 LB/AC	PRE	88	15	82	12
19	CP 55097	8.00 EC	3.00 LB/AC	PPI	95	50	95	48
20	CP 55097	8.00 EC	2.50 LB/AC	PPI	90	38	82	30
21	S-734	75.00 WP	.50 LB/AC	PPI	90	8	85	2
22	S-734	75.00 WP	.75 LB/AC	PPI	95	5	90	0
23	S-734	75.00 WP	1.00 LB/AC	PPI	95	5	92	5

TABLE 16.—Soybean Yellow Nutsedge (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JUNE 20 -		JULY 14 -	
					YENS	CRIN	YENS	CRIN
24	S-734	75.00 WP	1.25 LB/AC	PPI	95	12	95	8
25	S-734	75.00 WP	1.50 LB/AC	PPI	88	15	85	12
26A	S-734	75.00 WP	.50 LB/AC	PPI	88	5	80	2
26B	BENTAZON	4.00 E	.75 LB/AC	EP				
26C	OIL CONCENTRATE	.00 AD	1.00 QT/AC					
27A	S-734	75.00 WP	.75 LB/AC	PPI	90	0	88	0
27B	BENTAZON	4.00 E	.75 LB/AC	EP				
27C	CHLORAMBEN	2.00 E	1.00 LB/AC					
28A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	100	10	98	10
28B	R4-8917	2.00 E	1.00 LB/AC	PPI				
29	MBR 22359	2.00 E	1.00 LB/AC	PRE	72	0	62	0
30	MBR 22359	2.00 E	2.00 LB/AC	PRE	90	0	85	0
31	MBR 22359	2.00 E	3.00 LB/AC	PRE	95	10	95	8
32A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	85	2	82	2
32B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
33A	ALACHLOR	4.00 E	4.00 LB/AC	PPI	90	8	85	8
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
34A	SN-80786	4.00 E	2.50 LB/AC	PPI	88	22	82	15
34B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI				
35A	SN-80786	4.00 E	3.50 LB/AC	PPI	90	30	90	22
35B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI				
36	VERNOLATE	7.00 E	2.50 LB/AC	PPI	82	18	72	12
37	VERNOLATE	7.00 E	3.00 LB/AC	PPI	90	22	82	15
38A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	82	10	78	10
38B	WITH R-33865	.50	.21	PPI				
39A	VERNOLATE PKG MIX	6.00 EC	3.00 LB/AC	PPI	90	15	88	10
39B	WITH R-33865	.50	.25	PPI				
40A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	88	10	80	8
40B	WITH R-33865	1.00	.42	PPI				

TABLE 16.—Soybean Yellow Nutsedge (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	JUNE 20 -		JULY 14 -	
					YENS	CRIN	YENS	CRIN
41A	VERNOLATE+ PKG MIX	6.00 EC	3.00 LB/AC	PPI	82	5	82	5
41B	WITH R-33865	1.00	3.00	PPI				
42	BENTAZON	4.00 E	.75 LB/AC	EP	72	0	70	0
43A	BENTAZON	4.00 E	.75 LB/AC	EP	85	0	78	0
43B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP				
44	CHECK (CULTIVATED)	.00 CK	.00		100	0	100	0
LSD(05):					8	12	10	10

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.4 O.M.: 2.6%
 DATE PLANTED: MAY 14 1980 DATE TREATED: MAY 14 1980 PRE,PPI
 VARIETY: WILLIAMS JUNE 5 1980 EP

TABLE 17.—Soybean Black Nightshade Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 16 - BLNS	CRIN
1A	NANPA/DN	3.00 E	4.50 LB/AC	CR	90	0
1B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE		
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	97	0
2B	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE		
3A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	100	0
3B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE		
4A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	97	3
4B	CHLORAMBEN	2.00 E	4.00 LB/AC	PRE		
5	ALACHLOR	4.00 E	2.50 LB/AC	PRE	97	0
6	ALACHLOR	4.00 E	3.00 LB/AC	PRE	97	0
7	ALACHLOR	4.00 E	4.00 LB/AC	PRE	100	0
8	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE	67	0
9	CHLORAMBEN	2.00 E	4.00 LB/AC	PRE	30	0
10A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	93	0
10B	METALACHLOR	8.00 E	2.50 LB/AC	PRE		
11A	METALACHLOR	8.00 E	3.00 LB/AC	PRE	97	0
11B	CHLORAMBEN	2.00 E	3.00 LB/AC	PRE		
12A	METALACHLOR	8.00 E	3.00 LB/AC	PRE	93	3
12B	CHLORAMBEN	2.00 E	4.00 LB/AC	PRE		
13	METALACHLOR	8.00 E	2.50 LB/AC	PRE	100	0
14	METALACHLOR	8.00 E	3.00 LB/AC	PRE	93	0
15	METALACHLOR	8.00 E	4.00 LB/AC	PRE	100	3
16A	ALACHLOR	4.00 E	2.00 LB/AC	COE	90	13
16B	CHLORPROPHAM	4.00 E	2.00 LB/AC	COE		
17A	CHLORPROPHAM	4.00 E	1.00 LB/AC	PRE	77	0
17B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE		
17C	CHLORPROPHAM	4.00 E	2.00 LB/AC	COE		
18A	CHLORPROPHAM	4.00 E	3.00 LB/AC	COE	87	3
18B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE		

TABLE 17.—Soybean Black Nightshade Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 16 - BLVS	- CRIN
19A	ALACHLOR	4.00 E	3.00	LB/AC PRE	100	0
19B	CHLORPROPHAM 124	4.00 E	2.00	LB/AC PRE		
20	KY 99	.00	4.00	PRE	13	0
21A	LINURON	4.00 L	1.00	LB/AC PRE	90	0
21B	ORYZALIN	4.00 AS	1.00	LB/AC PRE		
22A	METRIBUZIN 2	75.00 DF	.50	LB/AC PRE	83	0
22B	ORYZALIN	4.00 AS	1.00	LB/AC PRE		
23	CHECK (UNCULTIVATED)	.00 CK	.00		0	0
LSD(05):					13	6

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N,

60 P,

60 K

PH: 6.6 O.M.: 4.2%

DATE PLANTED: MAY 14, 1980

DATE TREATED: MAY 14, 1980 PRE

VARIETY: WILLIAMS

TABLE 18.—Soybean Black Nightshade Preplant Incorporated and Postemergence

TRT NO.	HERRICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 15 -	
					BLVS	CRIN
1	S-734	75.00 WP	1.00 LB/AC	PPI	83	3
2	S-734	75.00 WP	1.50 LB/AC	PPI	83	3
3	S-734	75.00 WP	2.00 LB/AC	PPI	90	0
4	VERNOLATE	7.00 E	3.00 LB/AC	PPI	47	17
5A	VERNOLATE	7.00 E	3.00 LB/AC	PPI	53	20
5B	CHLORAMBEN	2.00 E	4.00 LB/AC	PPI		
6A	VERNOLATE	7.00 E	3.00 LB/AC	PPI	63	27
6B	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI		
7A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	60	3
7B	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI		
7C	METRIBUZIN 1	75.00 DF	.38 LB/AC	PPI		
8A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	57	0
8B	CHLORAMBEN	2.00 E	2.00 LB/AC	PPI		
9A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	53	10
9B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI		
10A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	87	3
10B	CHLORAMBEN	2.00 E	2.50 LB/AC	PPI		
11A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	90	0
11B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI		
12A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	73	3
12B	CHLORAMBEN	2.00 E	4.00 LB/AC	PPI		
13	ALACHLOR	4.00 E	2.50 LB/AC	PPI	87	0
14	ALACHLOR	4.00 E	3.00 LB/AC	PPI	97	0
15	ALACHLOR	4.00 E	4.00 LB/AC	PPI	100	0
16	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI	33	0
17	CHLORAMBEN	2.00 E	4.00 LB/AC	PPI	60	0
18A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	87	3
18B	CHLORAMBEN	2.00 E	2.50 LB/AC	PPI		

57

TABLE 18.—Soybean Black Nightshade Preplant Incorporated and Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 15 -	
					BLNS	CRIN
19A	METALACHLOR	8.00 E	3.00 LB/AC	PPI	97	0
19B	CHLORAMBEN	2.00 E	3.00 LB/AC	PPI		
20A	METALACHLOR	8.00 E	3.00 LB/AC	PPI	93	7
20B	CHLORAMBEN	2.00 E	4.00 LB/AC	PPI		
21	METALACHLOR	8.00 E	2.50 LB/AC	PPI	97	0
22	METALACHLOR	8.00 E	3.00 LB/AC	PPI	93	3
23	METALACHLOR	8.00 E	4.00 LB/AC	PPI	93	13
24	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	53	0
25A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	60	0
25B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP		
25C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
26A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	43	0
26B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP		
26C	BENTAZON	4.00 E	.50 LB/AC	EP		
26D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
27A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	63	0
27B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP		
27C	NAPTALAM	2.00 EC	2.00 LB/AC	EP		
28A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	63	3
28B	CHLORAMBEN	2.00 E	3.00 LB/AC	EP		
28C	ACIFLUORFEN	2.00 E	.50 LB/AC	EP		
29A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	77	0
29B	CHLORPROPHAM	4.00 E	2.00 LB/AC	COE		
30A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	90	10
30B	CHLORPROPHAM	4.00 E	3.00 LB/AC	COE		
31A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	87	0
31B	CHLORPROPHAM 124	4.00 E	2.00 LB/AC	PPI		
32	KY 99	.00	4.00	PPI	43	7
33A	VERNDLATE	7.00 E	3.00 LB/AC	PPI	53	13
33B	NANPA/DN	3.00 E	1.50 LB/AC	EP		

58

TABLE 18.—Soybean Black Nightshade Preplant Incorporated and Postemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 15 -	
					RLNS	CRIN
34A	VERNOLATE	7.00 E	3.00 LB/AC	PPI	33	17
34B	BENTAZON	4.00 E	.75 LB/AC	EP		
34C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
35A	VERNDLATE	7.00 E	3.00 LB/AC	PPI	50	7
35B	ACIFLUORFEN	2.00 E	.50 LB/AC	EP		
36	SN-80786	4.00 E	2.50 LB/AC	PPI	73	13
37	SN-80786	4.00 E	3.50 LB/AC	PPI	67	10
38	CHECK (CULTIVATED)	.00 CK	.00		100	0
LSD(05):					18	11

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.6 O.M.: 4.2%
 DATE PLANTED: MAY 14, 1980 DATE TREATED: MAY 14, 1980 PPI
 VARIETY: WILLIAMS MAY 21, 1980 CR
 MAY 23, 1980 COE

TABLE 19.—Soybean No-till in Wheat Stubble

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25, 1980 -----					--JULY 25, 1980 --		
					GRAS	BRLE	CRIN	LACG	RRPW	LACG	RRPW	CRIN
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	83	83	0	83	83	77	80	0
1B	LINURON	4.00 L	.75 LB/AC	PRE								
1C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
1D	SURFACTANT	.50 WA	.50 %	PRE								
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	73	80	0	73	80	70	77	0
2B	LINURON	75.00 DF	.75 LB/AC	PRE								
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
2D	SURFACTANT	.50 WA	.25 %	PRE								
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	83	80	0	83	80	77	73	0
3B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE								
3C	PARAQUAT	2.00 E	.50 LB/AC	PRE								
3D	SURFACTANT	.50 WA	.25 %	PRE								
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	77	83	0	77	83	70	77	0
4B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE								
4C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
5A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	80	73	0	80	73	73	73	0
5B	PARAQUAT	2.00 E	.25 LB/AC	PRE								
5C	SURFACTANT	.50 WA	.25 %	PRE								
6A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	90	77	0	90	77	87	77	0
6B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE								
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
6D	SURFACTANT	.50 WA	.25 %	PRE								
7A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	50	73	20	50	73	40	63	0
7B	PARAQUAT	2.00 E	.25 LB/AC	PRE								
7C	SURFACTANT	.50 WA	.50 %	PRE								
8A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	93	90	20	93	90	90	87	0
8B	METALACHLOR	8.00 E	2.50 LB/AC	PRE								
8C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
8D	SURFACTANT	.50 WA	.50 %	PRE								
9A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	90	93	20	90	93	83	83	0
9B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE								
9C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
9D	SURFACTANT	.50 WA	.50 %	PRE								
10A	EL-5219	3.00 EC	.94 LB/AC	PRE	87	87	0	87	87	83	83	0
10B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE								
10C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
10D	SURFACTANT	.50 WA	.50 %	PRE								

TABLE 19.—Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25, 1980 -----					--JULY 25, 1980 --		
					GRAS	BRLF	CRIN	LACG	RRPN	LACG	RRPN	CRIN
11A	EL-5219	3.00 EC	1.13 LB/AC	PRE	90	83	0	90	83	83	73	0
11B	METRIBUZIN 1 OR 2	50.00 WP	.33 LB/AC	PRE								
11C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
11D	SURFACTANT	.50 WA	.25 %	PRE								
12A	ORYZALIN	75.00 WP	1.00 LB/AC	PRE	90	87	0	90	87	87	83	0
12B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE								
12C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
12D	SURFACTANT	.50 WA	.50 %	PRE								
13A	BIFENOX	4.00 F	1.00 LB/AC	PRE	70	77	0	70	77	63	70	0
13B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
13C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
13D	SURFACTANT	.50 WA	.25 %	PRE								
14A	BIFENOX	4.00 F	2.00 LB/AC	PRE	67	87	0	67	87	57	73	0
14B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
14C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
14D	SURFACTANT	.50 WA	.25 %	PRE								
15A	BIFENOX	4.00 F	1.00 LB/AC	PRE	80	80	0	80	80	73	77	0
15B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE								
15C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
15D	SURFACTANT	.50 WA	.25 %	PRE								
16A	BIFENOX	4.00 F	2.00 LB/AC	PRF	87	87	0	87	87	80	80	0
16B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE								
16C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
16D	SURFACTANT	.50 WA	.25 %	PRE								
17A	BENAZOLIN	3.00 E	.13 LB/AC	MP	57	70	0	57	70	53	70	0
17B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
17C	PARAQUAT	2.00 E	.13 LB/AC	PRE								
17D	SURFACTANT	.50 WA	.25 %	PRE								
18A	BENAZOLIN	3.00 E	.25 LB/AC	MP	70	67	0	70	67	60	63	0
18B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
18C	PARAQUAT	2.00 E	.13 LB/AC	PRF								
18D	SURFACTANT	.50 WA	.25 %	PRE								
19A	BENAZOLIN	3.00 E	.13 LB/AC	MP	53	67	0	53	67	50	63	0
19B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
19C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE								
20A	BENAZOLIN	3.00 E	.25 LB/AC	MP	53	80	0	53	80	50	80	0
20B	BENTAZON	4.00 E	.25 LB/AC									

TABLE 19.—Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25, 1980 -----					--JULY 25, 1980 --		
					GRAS	BRLE	CRIN	LACG	RRPW	LACG	RRPW	CRIN
21A	BENAZOLIN	3.00 E	.25 LB/AC	MP	60	80	0	60	80	53	80	0
21B	BENTAZON	4.00 E	.38 LB/AC	MP								
22A	BENAZOLIN	3.00 E	.25 LB/AC	MP	73	80	0	73	80	57	63	0
22B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
22C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE								
23A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	73	83	0	73	83	63	80	0
23B	LINURON	4.00 L	.75 LB/AC	PRE								
23C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	80	83	0	80	83	63	67	0
24B	LINURON	75.00 DF	.75 LB/AC	PRE								
24C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	70	70	0	70	70	57	60	0
25B	GLYPOSATE	4.00 E	1.00 LB/AC	PRE								
26A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	83	80	0	83	80	73	70	0
26B	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
27A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	77	80	0	80	80	63	70	0
27B	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
28A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	83	87	0	83	87	73	80	0
28B	LINURON	4.00 L	1.00 LB/AC	PRE								
28C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE								
29A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	83	0	80	83	73	80	0
29B	LINURON	4.00 L	1.00 LB/AC	PRE								
29C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
30A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	83	83	0	87	80	80	77	0
30B	LINURON	4.00 L	1.00 LB/AC	PRE								
30C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								
31A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	77	0	80	77	70	67	0
31B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE								
31C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE								
32A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	83	0	80	83	73	77	0
32B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE								
32C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	77	0	90	77	97	67	0
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE								
33C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE								

TABLE 19.—Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25, 1980 -----					--JULY 25, 1980 --		
					GRAS	BRIE	CRIN	LACG	RRPN	LACG	RRPN	CRIN
34	MON 8001	3.83 E	3.83 LB/AC	PRE	70	57	0	70	57	53	47	0
35A	MON 8001	3.83 E	4.00 LB/AC	PRE	87	80	0	87	80	80	67	0
35B	METRIBUZIN 1 DR 2	50.00 WP	.50 LB/AC	PRE								
36A	MON 8001	3.83 E	4.00 LB/AC	PRE	87	80	0	87	80	83	80	0
36B	LINURON	4.00 L	1.00 LB/AC	PRE								
37A	MON 8001	3.83 E	5.00 LB/AC	PRE	83	77	0	83	77	73	73	0
37B	METRIBUZIN 1 DR 2	50.00 WP	.50 LB/AC	PRE								
38A	MON 8001	3.83 E	5.00 LB/AC	PRE	93	93	0	93	93	90	90	0
38B	LINURON	4.00 L	1.00 LB/AC	PRE								
39A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	77	90	0	77	90	67	87	0
39B	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
40A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	93	90	0	93	90	93	90	0
40B	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE								
40C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
41A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	90	90	0	90	90	90	90	0
41B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE								
41C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
42A	BAS 9052	1.53 EC	.75 LB/AC	MP	90	83	0	90	83	83	83	0
42B	BENTAZON	4.00 E	.75 LB/AC	MP								
42C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
42D	PARAQUAT	2.00 E	.25 LB/AC	PRE								
42E	SURFACTANT	.50 WA	.25 %	PRE								
43A	BAS 9052	1.53 EC	.75 LB/AC	MP	93	90	0	93	90	93	90	0
43B	BENTAZON	4.00 E	.75 LB/AC	MP								
43C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
44A	BAS 9052	1.53 EC	1.00 LB/AC	MP	93	90	0	93	90	93	90	0
44B	BENTAZON	4.00 E	1.00 LB/AC	MP								
44C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								
45A	BAS 9052	1.53 EC	.75 LB/AC	PRE	90	80	0	90	80	83	80	0
45B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	PRE								
45C	BAS 9052	1.53 EC	.75 LB/AC	MP								
45D	BENTAZON	4.00 E	1.00 LB/AC	MP								
45E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP								

TABLE 19.—Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25, 1980 -----					--JULY 25, 1980 --		
					GRAS	BRLE	CRIN	LACG	RRPN	LACG	RRPN	CRIN
46A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	90	90	0	90	90	83	83	0
46B	LINURON	4.00 L	1.00 LB/AC	PRE								
46C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
46D	SURFACTANT	.50 WA	.25 %	PRE								
47A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	87	83	0	87	83	80	77	0
47B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
47C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
47D	SURFACTANT	.50 WA	.25 %	PRE								
48A	BROMOXNYL	2.00 E	.50 LB/AC	PRE	77	80	0	77	80	50	67	0
48B	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE								
48C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
48D	SURFACTANT	.50 WA	.25 %	PRE								
49A	BROMOXNYL	2.00 E	.50 LB/AC	PRE	63	70	0	63	70	63	67	0
49B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE								
49C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
49D	SURFACTANT	.50 WA	.25 %	PRE								
50A	BROMOXNYL	2.00 E	.50 LB/AC	PRE	83	83	0	83	83	73	77	0
50B	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE								
50C	LINURON	4.00 L	1.00 LB/AC	PRE								
51A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	87	90	0	87	90	83	80	0
51B	LINURON	4.00 L	1.00 LB/AC	PRE								
51C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE								
52A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	87	80	0	87	80	80	73	0
52B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE								
52C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
52D	SURFACTANT	.50 WA	.25 %	PRE								
53A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	90	83	0	90	83	80	80	0
53B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE								
53C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
53D	SURFACTANT	.50 WA	.25 %	PRE								
54A	LINURON	4.00 L	1.00 LB/AC	PRE	87	87	0	87	87	87	87	0
54B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE								
54C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
54D	SURFACTANT	.50 WA	.25 %	PRE								
55A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	77	83	0	77	83	70	77	0
55B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE								
55C	PC-671	.00 AD	1.00 QT/AC	PRE								

TABLE 19.—Soybean No-till in Wheat Stubble (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 25, 1980 -----					--JULY 25, 1980 --		
					GRAS	BRLE	CRIN	LACG	RRPW	LACG	RRPW	CRIN
56A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	83	90	0	83	90	77	80	0
56B	METRIBUZIN 1 OR 2	50.00 WP	.75 LB/AC	PRE								
56C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE								
56D	PARAQUAT	2.00 E	.25 LB/AC	PRE								
56E	SURFACTANT	.50 WA	.25 %	PRE								
57A		.00 CK	.00		0	0	0	0	0	0	0	0
57B		.00 CK	.00									
57C		.00 CK	.00									
57D		.00 CK	.00									
58A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	57	83	0	57	83	50	77	0
58B	PARAQUAT	2.00 E	.25 LB/AC	PRE								
58C	SURFACTANT	.50 WA	.25 %	PRE								
59A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	80	87	0	80	87	73	83	0
59B	ALACHLOR	4.00 E	2.50 LB/AC	PRE								
59C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
59D	SURFACTANT	.50 WA	.25 %	PRE								
60A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	90	87	0	90	87	90	80	0
60B	METALACHLOR	8.00 E	2.00 LB/AC	PRE								
60C	PARAQUAT	2.00 E	.25 LB/AC	PRE								
60D	SURFACTANT	.50 WA	.25 %	PRE								
LSD(.05):					18	15	NS	18	15	19	17	NS

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: JULY 3, 1980
 VARIETY: WILLIAMS

SOIL TYPE: MAURY SILT LOAM
 PH: 6.6 O.M.: 4.0%
 DATE TREATED: JULY 3, 1980 PRE
 JULY 15, 1980 MP

65

TABLE 20.—Soybean Variety Response to Metribuzin

Treatment	RATE (LB/A)	--- % Crop Injury, June 20, 1980 ---								
		Clark	Adams	Harosoy	Wayne	Bragg	Lee	Tracy	Govan	Amsoy 71
1. METRIBUZIN	0.38	15	20	18	30	20	10	12	22	12
2. METRIBUZIN	0.75	46	34	24	22	22	21	29	88	11
3. METRIBUZIN	1.50	61	95	81	67	71	66	90	100	60
4A. METRIBUZIN	0.75									
4B. PC-671	1 QT/A	10	30	20	2	28	22	38	65	10
5A. METRIBUZIN	0.75									
5B. PC-671	2 QT/A	20	37	45	30	15	6	35	95	35
6A. METRIBUZIN	0.75									
6B. ARD-54	1%	18	34	29	20	24	14	42	86	16
7. VERNOLATE	2.0	25	38	26	30	11	30	19	19	24
8. VERNOLATE	4.0	42	32	40	24	23	39	35	31	40
9. CHECK	--	0	0	0	0	0	0	0	0	0
AVERAGE OF METRIBUZIN TRTS		28	42	36	28	30	25	41	76	24

TABLE 20.—Soybean Variety Response to Metribuzin (continued)

-- Crop Stand (Plants/4 Ft) --

Treatment	RATE (LB/A)	York	Cutler 71	Forrest	Essex	Mitchell	Bedford	Union	Franklin	Average
1. METRIBUZIN	0.38	28	21	29	38	27	22	24	25	26
2. METRIBUZIN	0.75	25	19	28	29	24	22	36	22	23
3. METRIBUZIN	1.50	19	13	18	21	15	16	28	17	16
4A. METRIBUZIN	0.75									
4B. PC-671	1 QT/A	24	17	24	31	18	34	31	22	24
5A. METRIBUZIN	0.75									
5B. PC-671	2 QT/A	38	26	29	40	26	36	36	32	26
6A. METRIBUZIN	0.75									
6B. ARD054	1%	30	22	29	40	25	28	32	20	25
7. VERNOLATE	2.0	27	19	20	28	18	21	30	20	23
8. VERNOLATE	4.0	21	16	15	21	17	27	28	15	20
9. CHECK	--	22	22	28	38	19	17	25	24	25
AVERAGE OF METRIBUZIN TRTS		27	20	26	33	22	26	31	23	23

67

LOCATION: SPINDLETOP FARM
 FERTILIZATION (LB/A): 60 N,
 DATE PLANTED: MAY 22, 1980

60 P, 60 K

SOIL TYPE: MAURY SILT LOAM
 PH: 6.6 O.M.: 4%
 DATE TREATED: MAY 22, 1980

TABLE 21.—Burley Tobacco

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24, 1980 -----				
					GRAS	BRLE	CRIN	GIFT	RRPA
1	PEBULATE	6.00 E	4.00 LB/AC	PPI	80	83	0	80	83
2	DIPHENAMID	50.00 WP	6.00 LB/AC	PPI	77	77	0	77	77
3	BENEFIN	1.50 E	1.50 LB/AC	PPI	87	83	0	87	83
4	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI	73	87	0	73	87
5	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	83	93	0	83	93
6	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRT	80	87	0	80	87
7	NC-8438	1.50 EC	2.00 LB/AC	PPT	80	83	0	80	83
8	NC-8438	1.50 EC	4.00 LB/AC	PPI	90	97	13	90	97
9	METALACHLOR	8.00 E	1.50 LB/AC	POT	73	67	13	73	67
10	METALACHLOR	8.00 E	2.25 LB/AC	POT	87	77	10	87	77
11	METALACHLOR	8.00 E	3.00 LB/AC	POT	83	77	10	83	77
12	METALACHLOR	8.00 E	1.50 LB/AC	LBY	80	80	0	80	80
13	METALACHLOR	8.00 E	2.25 LB/AC	LBY	90	90	0	90	90
14	METALACHLOR	8.00 E	3.00 LB/AC	LBY	100	100	0	100	100
15	METALACHLOR	8.00 E	6.00 LB/AC	LBY	100	100	0	100	100
16A	METALACHLOR	8.00 E	1.50 LB/AC	POT	47	43	7	47	43
16B	DIPHENAMID	50.00 WP	4.00 LB/AC	POT					
17A	METALACHLOR	8.00 E	1.50 LB/AC	POT	67	67	10	67	67
17B	DIPHENAMID	50.00 WP	3.00 LB/AC	POT					
18A	METALACHLOR	8.00 E	3.00 LB/AC	POT	80	83	20	80	83
18B	DIPHENAMID	50.00 WP	3.00 LB/AC	POT					
19A	METALACHLOR	8.00 E	3.00 LB/AC	POT	83	90	20	83	90
19B	DIPHENAMID	50.00 WP	4.00 LB/AC	POT					
20A	METALACHLOR	8.00 E	1.50 LB/AC	POT	87	97	13	87	83
20B	DIPHENAMID	50.00 WP	2.00 LB/AC	POT					
20C	METALACHLOR	8.00 E	1.50 LB/AC	LBY					
20D	DIPHENAMID	50.00 WP	2.00 LB/AC	LBY					

TABLE 21.—Burley Tobacco (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 24, 1980 -----				
					GRAS	BRLE	CRIN	GIFI	RRPN
21A	METALACHLOR	8.00 E	2.00 LB/AC	POT	77	87	7	80	87
21B	DIPHENAMID	50.00 WP	2.00 LB/AC	POT					
21C	METALACHLOR	8.00 E	2.00 LB/AC	LBY					
21D	DIPHENAMID	50.00 WP	2.00 LB/AC	LBY					
22A	METALACHLOR	8.00 E	1.50 LB/AC	PPI	87	90	0	87	90
22B	BIFENOX	4.00 F	1.50 LB/AC	PPI					
23A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	83	87	7	83	87
23B	BIFENOX	4.00 F	1.50 LB/AC	PPI					
24A	NAPROPAMIDE PKG MIX	1.00 E	1.00 LB/AC	PPI	83	90	0	83	90
24B	WITH PEBULATE	4.00 E	4.00 LB/AC						
25A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	83	87	0	83	87
25B	NAPROPAMIDE	4.00 F	1.50 LB/AC	PPI					
26A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	83	90	0	83	90
26B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
27A	BIFENOX	4.00 F	2.00 LB/AC	PPI	83	90	0	83	90
27B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
28A	BIFENOX	4.00 F	4.00 LB/AC	PPI	77	90	0	77	90
28B	PEBULATE	6.00 E	4.00 LB/AC	PPI					
29A	BIFENOX	4.00 F	2.00 LB/AC	PPI	77	87	0	77	87
29B	ISOPROPALIN	6.00 E	1.50 LB/AC	PPI					
30A	BIFENOX	4.00 F	4.00 LB/AC	PPI	77	90	10	77	90
30B	ISOPROPALIN	6.00 E	1.50 LB/AC	PPT					
31A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI	87	93	0	87	93
31B	BIFENOX	4.00 F	2.00 LB/AC	PPI					
32A	BIFENOX	4.00 F	4.00 LB/AC	PPI	77	90	0	77	90
32B	PENDIMETHALIN	4.00 E	1.50 LB/AC	PPI					
33	SN-80786	4.00 E	1.00 LB/AC	POT	60	63	0	60	63
34	SN-80786	4.00 E	2.00 LB/AC	POT	83	83	7	83	83
35	BAS 9052	1.53 EC	.25 LB/AC	LBY	90	63	0	90	50
36	BAS 9052	1.53 EC	.50 LB/AC	LBY	100	100	0	97	73

TABLE 21.—Burley Tobacco (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 24, 1980-----				
					GRAS	BRLE	CRIN	GIFI	RRPN
37A	BENEFIN	1.50 E	1.50 LB/AC	PPI	77	87	0	77	87
37B	ORYZALIN	4.00 AS	.50 LB/AC	LBV					
38A	BENEFIN	1.50 E	1.50 LB/AC	PPI	87	83	0	87	83
38B	ORYZALIN	4.00 AS	1.50 LB/AC	LBV					
39	NC 20484	4.00 E	1.00 LB/AC	PRE	57	67	7	57	67
40	NC 20484	4.00 E	2.00 LB/AC	PRE	57	53	0	57	53
41A	NC 20484	4.00 E	1.00 LB/AC	PRE	33	57	0	33	57
41B	DIPHENAMID	50.00 WP	6.00 LB/AC	PRE					
42A	S-734	75.00 WP	.50 LB/AC	PPI	73	87	3	73	87
42B	BIFENOX	4.00 F	1.50 LB/AC	PPI					
43A	S-734	75.00 WP	.75 LB/AC	PPI	80	87	0	80	87
43B	BIFENOX	4.00 F	1.50 LB/AC	PPI					
44A	S-734	75.00 WP	.50 LB/AC	PPI	87	90	0	87	90
44B	BENEFIN	1.50 E	1.50 LB/AC	PPI					
45A	S-734	75.00 WP	.75 LB/AC	PPI	67	87	0	67	87
45B	BIFENOX	4.00 F	1.00 LB/AC	PPI					
46A	S-734	75.00 WP	.50 LB/AC	PPI	83	77	0	83	77
46B	PEBULATE	6.00 E	1.50 LB/AC	PPI					
47A	S-734	75.00 WP	.75 LB/AC	PPI	87	87	0	87	87
47B	PEBULATE	6.00 E	1.00 LB/AC	PPI					
48	RD 13-8895	3.00 E	.12 LB/AC	EP	10	27	3	7	27
49	RD 13-8895	3.00 E	.25 LB/AC	EP	77	43	0	77	43
50	CHECK (UNCULTIVATED)	.00 CK	.00		100	100	0	100	100
			LSD(05):		19	23	14	19	23

70

TABLE 21.—Burley Tobacco (continued)

LOCATION:	SPINDLETOP FARM	SOIL TYPE:	MAURY SILT LOAM
FERTILIZATION (LB/AC):	260 N, 60 P, 60 K	PH:	6.6 O.M.: 4.2%
DATE PLANTED:	MAY 30, 1980	DATE TREATED:	MAY 30, 1980 PPI
VARIETY:	KY 14		MAY 30, 1980 PRT
			MAY 30, 1980 POT
JUNE 9, 1980	EP		
JULY 15, 1980	LBY		

TABLE 22.—Species Screening Study

TRT	CHEMICAL	METH	FORM	RATE	ALFALFA	OATS	SNAPBEANS	SOYBEANS	PEAS	GIANT FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	CUCUMBER	MORNINGGLORY	PIGWEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN
1.	SD 49818	PPI	2E	2.0	20	30	10	0	20	90	100	100	30	0	0	60	0	0	0	0	0
2.	SD 49818	PPI	2E	4.0	20	30	10	0	80	100	100	100	20	20	20	90	50	0	80	70	50
3.	SN 80786	PPI	4E	2.5	30	0	0	0	90	90	100	100	80	0	0	90	10	0	0	10	10
4.	RO-NEET	PPI	6E	4.0	90	90	10	30	30	90	100	100	50	100	30	10	60	0	60	60	0
5.	DEVRIKOL	PPI	4F	1.0	10	50	10	0	20	60	90	40	30	0	40	30	0	0	0	0	0
6.	R-23758	PPI	50W	1.0	10	40	20	0	30	90	90	30	40	50	40	50	0	20	0	0	0
7.	ATRAZINE	PRE	4L	2.0	100	10	30	20	40	70	90	0	100	100	20	100	50	0	0	0	0
8.	LASSO	PRE	4L	3.0	10	0	0	0	20	100	100	90	90	100	20	100	30	30	60	70	0
9.	SENCOR	PRE	4L	0.5	0	1	0	0	20	80	100	80	20	30	0	20	10	10	0	0	0
10.	SD 49818	PRE	2E	1.0	0	0	0	0	0	90	90	40	30	0	0	0	0	0	0	0	0
11.	SD 49818	PRE	2E	2.0	0	0	0	0	0	100	90	60	40	0	0	0	10	0	0	0	0
12.	RH 0043	PRE	2E	0.5	0	0	30	0	0	0	0	60	90	0	0	80	0	0	0	0	0
13.	RH 0043	PRE	2E	1.0	50	0	0	0	0	0	0	50	90	40	0	90	10	10	0	0	0
14.	RH 0043	PRE	2E	2.0	80	0	30	0	80	90	90	70	100	100	0	100	90	60	30	10	0
15.	RH 0265	PRE	2E	0.5	30	0	20	0	0	0	0	40	80	0	0	60	0	0	0	0	0
16.	RH 0265	PRE	2E	1.0	50	0	30	0	0	30	0	60	90	100	0	90	0	0	0	0	0
17.	RH 0265	PRE	2E	2.0	90	0	30	0	30	80	80	80	100	100	0	100	20	50	100	0	0
18.	RH 8817	PRE	2E	0.5	0	0	30	0	50	0	0	30	90	20	0	90	20	0	0	0	10
19.	SD 58525	PRE	50W	2.0	0	0	0	0	0	0	0	80	50	0	0	0	0	0	0	0	0
20.	SD 58525	PRE	50W	4.0	0	0	40	0	40	20	20	60	40	0	0	10	0	0	0	0	0
21.	NC 24649	PRE	50W	1.0	0	0	30	20	40	0	0	90	40	0	0	0	0	0	0	0	0
22.	NC 24649	PRE	50W	2.0	0	0	20	0	0	0	0	70	80	20	0	10	10	0	20	0	0
23.	MBR 22359	PRE	2E	3.0	10	0	30	0	40	70	30	60	20	0	0	10	0	0	0	40	0

TABLE 22.—Species Screening Study (continued)

TRT	CHEMICAL	METH	FORM	RATE	ALFALFA	OATS	SNAPBEANS	SOYBEANS	PEAS	GIANT FOXTAIL	FALL PANICUM	JOHNSONGRASS	SPINY SIDA	CUCUMBER	MORNINGGLORY	PIGWEEED	VELVETLEAF	COCKLEBUR	SORGHUM	SHATTERCANE	CORN
24.	SM 80786	PRE	2E	2.0	0	0	30	0	20	90	90	80	0	0	0	0	0	0	0	0	0
25.	NC 23804	PRE	2EC	1.0	0	0	30	20	30	20	20	50	30	30	0	20	70	20	0	0	0
26.	NC 23804	PRE	2EC	2.0	0	0	60	20	30	30	60	60	20	30	0	10	90	60	0	0	20
27.	NC 23804 + X-77	EP EP	2EC .5WA	1.0 .25%	10	0	90	30	30	20	20	80	20	100	90	10	90	60	0	0	20
28.	NC 23804 + X-77	EP EP	2EC .5WA	2.0 .25%	0	10	70	80	80	80	80	90	10	100	40	20	80	50	0	0	0
29.	RO-13-8995	EP	3E	.25	0	90	20	0	30	90	90	100	0	0	20	0	0	0	100	100	100
30.	KK-80 + WK SURFACTANT	EP (EP)	4E	1.0	0	90	0	0	0	100	100	100	0	0	0	0	0	0	100	100	100
31.	BAS 9052 + .1 CONC	EP EP	1.53EC 0 AD	0.5 1 qt	0	100	10	0	0	100	100	100	0	0	0	0	30	30	100	100	100
32.	BAS 9052 + OIL CONC	EP EP	1.53EC 0 AD	1.0 1 qt	0	100	20	0	20	100	100	100	0	0	0	0	0	10	100	100	100
33.	NC 24649 + X-77	EP EP	50W .5WA	1.0 .25%	0	0	90	20	40	70	70	80	30	100	0	10	60	30	0	10	10
34.	BASAGRAN + OIL CONC	EP EP	4E 0 AD	.75 1 qt	0	0	30	0	30	0	0	0	90	60	90	50	100	100	0	0	0
35.	BLAZER	EP	2S	0.5	0	0	30	0	30	50	40	40	10	100	70	80	10	50	20	20	0
36.	RH 0043	MP	2E	.06	0	0	0	0	30	20	20	40	90	100	0	100	90	30	0	0	0
37.	RH 0043	MP	2E	.12	0	0	20	0	20	30	30	50	100	100	0	90	80	40	0	10	30
38.	RH 0043	MP	2E	.25	0	0	20	0	30	20	20	80	90	100	70	100	100	100	0	0	40
39.	RH 0265	MP	2E	.06	0	0	20	0	0	0	0	80	90	100	80	100	20	20	0	30	10
40.	RH 0265	MP	2E	.12	0	0	40	20	40	10	10	30	90	100	70	90	30	90	0	0	0
41.	RH 0265	MP	2E	.25	90	0	30	10	30	30	30	40	90	100	90	100	90	90	0	0	0
42.	RH 9859	MP	2E	.03	0	10	10	0	70	0	0	0	60	50	0	10	10	80	0	0	60
43.	RH 9859	MP	2E	.06	0	0	10	0	70	0	0	0	50	80	0	50	70	90	0	0	0

67

TABLE 22.—Species Screening Study (continued)

CROPS AND WEEDS

1. Alfalfa "Vernal"	10. Cucumber "Straight Eight"
2. Oats "Compact"	11. Morningglory
3. Snapbeans "Contender"	12. Pigweed, Redroot
4. Soybeans "Williams"	13. Jimsonweed
5. Peas "Blackeye"	14. Velvetleaf
6. Foxtail, Giant	15. Cocklebur
7. Fall Panicum	16. Grain Sorghum "Frontier 4012R"
8. Johnsongrass	17. Shattercane
9. Spiny Sida	18. Corn "Pioneer 3369A"

LOCATION: Spindletop Farm
AREA TREATED: 990 sq. ft.
DATE TREATED: May 21, 1980 PRE, PPI
DATE TREATED: June 9, 1980 EP
DATE TREATED: June 9, 1980 MP
SOIL TYPE: Lanton Silty Clay Loam
PLOT SIZE: 7 1/2 x 66 ft.
O.M.: 6.5%
pH: 6.5
DATE PLANTED: May 21, 1980

TABLE 23.—Corn Grass Post Cultivation

LOCATION: SOUTH FARM
 VARIETY: PIONEER 3369A
 PLANTED: MAY 8, 1980
 CULTIVATION AND POE APPLICATIONS: JUNE 12, 1980
 EVALUATED: JULY 14, 1980
 SOIL TYPE: MAURY SILT LOAM

TRT NO	CHEMICAL	RATE (LB/AC)	METHOD	CHEMICAL	RATE (LB/AC)	METHOD AND TIME OF INCORPORATION	AVG % GIANT FOXTAIL CONTROL	AVG % CROP INJURY
1.	PENDIMETHALIN	1.5	PRE				58	0
2.	PENDIMETHALIN ATRAZINE	1.5 1.5	PRE PRE				73	0
3.	ALACHLOR ATRAZINE	2.5 1.5	PRE PRE	PENDIMETHALIN	1.5	POE INCORPORATION	92	0
4.	ALACHLOR ATRAZINE	2.5 1.5	PRE PRE	PENDIMETHALIN ATRAZINE	1.5 1.5	POE INCORPORATION	96	0
5.	ALACHLOR ATRAZINE	2.5 1.5	PRE PRE	PENDIMETHALIN	1.5	POE INCORPORATION AFTER CULTIVATION	96	0
6.	ALACHLOR ATRAZINE	2.5 1.5	PRE PRE	PENDIMETHALIN ATRAZINE	1.5 1.5	POE INCORPORATION AFTER CULTIVATION	97	0
7.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	TRIFLURALIN	0.75	POE INCORPORATION AFTER CULTIVATION	91	0
8.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	UBI-S734	0.75	POE INCORPORATION	90	0
9.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	UBI-S734	1.0	POE INCORPORATION	88	0

75

TABLE 23.—Corn Grass Post Cultivation (continued)

TRT NO	CHEMICAL	RATE (LB/AC)	METHOD	CHEMICAL	RATE (LB/AC)	METHOD AND TIME OF INCORPORATION	AVG % GIANT FOXTAIL CONTROL	AVG % CROP INJURY
10.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	UBI-S734	1.5	POE INCORPORATION	94	0
11.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	UBI-S734	0.75	POE; NO CULTIVATION	79	0
12.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	UBI-S734	1.00	POE; NO CULTIVATION	84	0
13.	BUTYLATE ATRAZINE	4.0 1.5	PPI PPI	UBI-S734	1.5	POE; NO CULTIVATION	84	0
14.	UNCULTIVATED CHECK	0					0	0

TABLE 24.—Soybean Broadleaf Weeds—Postemergence I

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23 1980-----			
					CRIV	BRLE	COCB	VELE
1	BENAZOLIN	3.00 E	.13 LB/AC	MP	0	25	27	40
2	BENAZOLIN	3.00 E	.25 LB/AC	MP	0	35	43	50
3	BENAZOLIN	3.00 E	.50 LB/AC	MP	5	45	48	48
4	BENTAZON	4.00 E	.38 LB/AC	MP	0	90	93	90
5	BENTAZON	4.00 E	.75 LB/AC	MP	0	98	100	98
6A	BENAZOLIN	3.00 E	.13 LB/AC	MP	0	70	90	93
6B	BENTAZON	4.00 E	.38 LB/AC	MP				
7A	BENAZOLIN	3.00 E	.13 LB/AC	MP	0	100	100	95
7B	BENTAZON	4.00 E	.75 LB/AC	MP				
8A	BENAZOLIN	3.00 E	.25 LB/AC	MP	2	92	98	83
8B	BENTAZON	4.00 E	.38 LB/AC	MP				
9A	BENAZOLIN	3.00 E	.25 LB/AC	MP	0	95	100	100
9B	BENTAZON	4.00 E	.75 LB/AC	MP				
10A	BENAZOLIN	3.00 E	.50 LB/AC	MP	0	88	93	90
10B	BENTAZON	4.00 E	.38 LB/AC	MP				
11A	BENAZOLIN	3.00 E	.50 LB/AC	MP	0	100	100	100
11B	BENTAZON	4.00 E	.75 LB/AC	MP				
12	ACIFLUORFEN	2.00 E	.25 LB/AC	MP	0	22	5	3
13	ACIFLUORFEN	2.00 E	.50 LB/AC	MP	2	20	25	18
14A	BENAZOLIN	3.00 E	.13 LB/AC	MP	0	30	32	37
14B	ACIFLUORFEN	2.00 E	.25 LB/AC	MP				
15A	BENAZOLIN	3.00 E	.13 LB/AC	MP	0	30	40	5
15B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP				
16A	BENAZOLIN	3.00 E	.25 LB/AC	MP	2	45	58	45
16B	ACIFLUORFEN	2.00 E	.25 LB/AC	MP				
17A	BENAZOLIN	3.00 E	.25 LB/AC	MP	2	52	90	67
17B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP				
18A	BENAZOLIN	3.00 E	.50 LB/AC	MP	2	52	60	62
18B	ACIFLUORFEN	2.00 E	.25 LB/AC	MP				

TABLE 24.—Soybean Broadleaf Weeds—Postemergence I (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23 1980-----			
					CRIV	BRLE	COCB	VELE
19A	BENAZOLIN	3.00 E	.50 LB/AC	MP	2	55	57	50
19B	ACIFLUORFEN	2.00 E	.50 LB/AC	MP				
20	BENAZOLIN	3.00 E	.13 LB/AC	LP	0	20	10	22
21	BENAZOLIN	3.00 E	.25 LB/AC	LP	0	18	10	22
22	BENAZOLIN	3.00 E	.50 LB/AC	LP	2	15	10	20
23	BENTAZON	4.00 E	.38 LB/AC	LP	0	12	13	15
24	BENTAZON	4.00 E	.75 LB/AC	LP	0	45	50	43
25A	BENAZOLIN	3.00 E	.13 LB/AC	LP	0	28	23	25
25B	BENTAZON	4.00 E	.38 LB/AC	LP				
26A	BENAZOLIN	3.00 E	.13 LB/AC	LP	0	38	53	40
26B	BENTAZON	4.00 E	.75 LB/AC	LP				
27A	BENAZOLIN	3.00 E	.25 LB/AC	LP	0	40	45	40
27B	BENTAZON	4.00 E	.38 LB/AC	LP				
28A	BENAZOLIN	3.00 E	.25 LB/AC	LP	0	40	58	43
28B	BENTAZON	4.00 E	.75 LB/AC	LP				
29A	BENAZOLIN	3.00 E	.50 LB/AC	LP	0	40	50	30
29B	BENTAZON	4.00 E	.38 LB/AC	LP				
30A	BENAZOLIN	3.00 E	.50 LB/AC	LP	0	60	85	57
30B	BENTAZON	4.00 E	.75 LB/AC	LP				
31	ACIFLUORFEN	2.00 E	.25 LB/AC	LP	10	18	12	17
32	ACIFLUORFEN	2.00 E	.50 LB/AC	LP	10	48	50	45
33A	BENAZOLIN	3.00 E	.13 LB/AC	LP	5	25	27	22
33B	ACIFLUORFEN	2.00 E	.25 LB/AC	LP				
34A	BENAZOLIN	3.00 E	.13 LB/AC	LP	5	50	45	27
34B	ACIFLUORFEN	2.00 E	.50 LB/AC	LP				
35A	BENAZOLIN	3.00 E	.25 LB/AC	LP	5	38	53	38
35B	ACIFLUORFEN	2.00 E	.25 LB/AC	LP				
36A	BENAZOLIN	3.00 E	.25 LB/AC	LP	5	50	58	45
36B	ACIFLUORFEN	2.00 E	.50 LB/AC	LP				

78

TABLE 24.—Soybean Broadleaf Weeds—Postemergence I (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	-----JUNE 23 1980 -----			
					CRIN	SRLE	COCB	VELE
37A	BENAZOLIN	3.00 E	.50 LB/AC LP		12	38	35	43
37B	ACIFLUORFEN	2.00 E	.25 LB/AC LP					
38A	BENAZOLIN	3.00 E	.50 LB/AC LP		10	55	68	57
38B	ACIFLUORFEN	2.00 E	.50 LB/AC LP					
39	NANPA/DN	3.00 E	1.00 LB/AC LP		8	10	15	7
40A	BENAZOLIN	3.00 E	.13 LB/AC LP		5	15	20	7
40B	NANPA/DN	3.00 E	1.00 LB/AC LP					
41A	BENAZOLIN	3.00 E	.25 LB/AC LP		2	22	32	30
41B	NANPA/DN	3.00 E	1.00 LB/AC LP					
42	DINOSB	3.00 E	.50 LB/AC LP		10	10	13	10
43	BENZOLIN ETHYL ESTER	83.00 EC	.25 LB/AC LP		2	18	15	15
44	BENZOLIN ETHYL ESTER	83.00 EC	.50 LB/AC LP		2	20	17	20
45A	BENZOLIN ETHYL ESTER	83.00 EC	.25 LB/AC LP		0	22	23	25
45B	BENTAZON	4.00 E	.38 LB/AC LP					
46A	BENZOLIN ETHYL ESTER	83.00 EC	.50 LB/AC LP		2	28	38	22
46B	BENTAZON	4.00 E	.38 LB/AC LP					
47	BENZOLIN ETHYL ESTER	28.00 WP	.25 LB/AC LP		0	15	8	20
48	BENZOLIN ETHYL ESTER	28.00 WP	.50 LB/AC LP		2	15	17	20
49A	BENZOLIN ETHYL ESTER	28.00 WP	.25 LB/AC LP		0	30	32	33
49B	BENTAZON	4.00 E	.38 LB/AC LP					
50A	BENZOLIN ETHYL ESTER	28.00 WP	.50 LB/AC LP		0	48	45	48
50B	BENTAZON	4.00 E	.38 LB/AC LP					
51A	BENAZOLIN	3.00 E	.13 LB/AC LP		12	12	12	12
51B	DINOSB	3.00 E	.50 LB/AC LP					
52A	BENAZOLIN	3.00 E	.25 LB/AC LP		10	25	22	25
52B	DINOSB	3.00 E	.50 LB/AC LP					
53	2,4-DB	2.00 E	.20 LB/AC LP		12	30	28	28
54A	BENAZOLIN	3.00 E	.25 LB/AC LP		10	28	35	20
54B	2,4-DB	2.00 E	.20 LB/AC LP					

TABLE 24.—Soybean Broadleaf Weeds—Postemergence I (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 23 1980 -----			
					CRIN	BRLE	COCB	VELE
55	CHECK (CULTIVATED)	.00 CK	.00		0	100	100	100
56	CHECK (UNCULTIVATED)	.00 CK	.00		0	2	0	2
				LSD(05):	6	23	25	19

LOCATION: SOUTH FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 7, 1980
 VARIETY: WILLIAMS
 SOIL TYPE: MAURY SILT LOAM
 PH: 6.0 O.M.: 2.8%
 DATE TREATED: JUNE 5, 1980 MP
 JUNE 10, 1980 LP
 JUNE 10 1980 LP
 MAY 7, 1980 LASSO OVERLAY

TABLE 25.—Soybean Broadleaf Weeds—Postemergence II

SOYBEAN BROADLEAF WEEDS POE

TRT NO	HERBICIDE TREATMENT	FORMULA	RATE (LB/A)	APPL METH	June 23, 1980			
					BRLE	CI	CBUR	VLEAF
1	Dinoseb/Naptalam	3.00 E	2.25	MP	40	4	60	27
2	Dinoseb/Naptalam	3.00 E	3.0	MP	68	8	84	55
3	Dinoseb/Naptalam	3.00 E	2.25	LP	26	9	38	11
4A	Naptalam	2.00 EL	1.0	LP	25	15	35	22
4B	Acifluorfen	2.00 E	0.25	LP				
5	RH 0043	2.00 E	0.06	MP	42	2	42	25
6	RH 0043	2.00 E	0.12	MP	80	4	85	74
7	RH 0043	2.00 E	0.25	MP	90	5	100	92
8	RH 0265	2.00 E	0.06	MP	10	4	8	8
9	RH 0265	2.00 E	0.12	MP	60	5	52	55
10	RH 0265	2.00 E	0.25	MP	84	5	90	76
11A	MC 10108	2.00 S	0.25	MP	12	2	7	13
11B	X - 77	0.0 WA	0.25%	MP				
12A	MC 10108	2.00 S	0.50	MP	32	6	43	20
12B	X - 77	0.0 WA	0.25%	MP				
13A	MC 10108	2.00 S	0.75	MP	64	5	71	56
13B	X - 77	0.0 WA	0.25%	MP				
14A	Dinoseb	3.00 E	0.38	MP	91	0	91	92
14B	Bentazon	4.00 EC	0.5	MP				
15A	Dinoseb	3.00 E	0.19	MP	95	0	98	93
15B	Bentazon	4.00 EC	0.5	MP				
			LSD (.05)		26	6	29	30

Location: South Farm
 Soil Type: Maury Silt Loam
 Fertilization: 400 LB/A 16-16-16
 Date Planted: May 7, 1980
 Variety: Williams
 Date Treated: June 5, 1980 MP
 June 10, 1980 LP
 Overlay: 2.5 LB/A Alachlor Pre

TABLE 26.—Soybean Diphenyl Ether Preplant Incorporation Study (Shallow)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JUNE 23 - GRAS	BRLE
1	NAPROPAMIDE	4.00 F	.50 LB/AC	PPI	12	12
2	NAPROPAMIDE	4.00 F	1.00 LB/AC	PPI	20	0
3A	NAPROPAMIDE	4.00 F	.50 LB/AC	PPI	28	52
3B	METRIBUZIN 1	4.00 F	.38 LB/AC	PPI		
4A	RH-8817	2.00 E	.75 LB/AC	PPI	88	92
4B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
5A	RH-8817	2.00 E	1.00 LB/AC	PPI	92	92
5B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
6A	RH-8817	2.00 E	1.50 LB/AC	PPI	90	92
6B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
7A	OXYFLUORFEN	2.00 E	.75 LB/AC	PPI	90	88
7B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
8A	OXYFLUORFEN	2.00 E	1.00 LB/AC	PPI	92	92
8B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
9A	BIFENOX	4.00 F	1.50 LB/AC	PPI	80	85
9B	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
10A	BIFENOX	4.00 F	1.50 LB/AC	PPI	78	82
10B	DIETHATYL	4.00 E	2.00 LB/AC	PPI		
11A	BIFENOX	4.00 F	1.50 LB/AC	PPI	88	78
11B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
12A	BIFENOX	4.00 F	2.00 LB/AC	PPI	82	82
12B	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
13A	BIFENOX	4.00 F	2.00 LB/AC	PPI	85	75
13B	DIETHATYL	4.00 E	2.00 LB/AC	PPI		
14A	BIFENOX	4.00 F	2.00 LB/AC	PPI	88	80
14B	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
15	MC-14831	3.50 EC	3.50 LB/AC	PPI	85	82
16	M-13384	3.50 EC	3.50 LB/AC	PPI	82	85
17	MC 10108	2.00 EC	.38 LB/AC	PPI	55	52

TABLE 26.—Soybean Diphenyl Ether Preplant Incorporation Study (Shallow) (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JUNE 23 - GRAS	BRLE
18	MC 10108	2.00 EC	.50 LB/AC	PPI	65	72
19	MC 10108	2.00 EC	.75 LB/AC	PPI	72	82
20	MC 10108	2.00 EC	1.00 LB/AC	PPI	75	88
21A	MC 10108	2.00 EC	.38 LB/AC	PPI	75	80
21B	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
22A	MC 10108	2.00 EC	.50 LB/AC	PPI	88	90
22B	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
23A	MC 10108	2.00 EC	.75 LB/AC	PPI	82	88
23B	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
24A	MC 10108	2.00 EC	1.00 LB/AC	PPI	90	90
24B	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
25	MC-14831	3.50 EC	3.50 LB/AC	PRE	70	70
26	CHECK (UNCULTIVATED)	.00 CK	.00		0	0
			LSD(05):		18	16

88

LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.1 O.M.: 2.8%
 DATE PLANTED: MAY 8, 1980 DATE TREATED: MAY 8, 1980 PPI
 VARIETY: WILLIAMS MAY 8, 1980 PRE

TABLE 27.—Soybean Diphenyl Ether Preplant Incorporation Study (2-3 Inches)

TREATMENT	RATE (LB/A)	AVERAGE % GRASS CONTROL	AVERAGE % BROADLEAF CONTROL
1. BIFENOX TRIFLURALIN	1.50 0.75	87	83
2. BIFENOX	2.00	62	43
3. BIFENOX ALACHLOR	2.00 3.00	82	82
4. BIFENOX METOLACHLOR	2.00 3.00	94	82
5. MC 10108	0.50	37	38
6. MC 10108	0.75	73	83
7. MC 10108	1.00	75	80
8. MC 10108 TRIFLURALIN	0.50 0.75	87	82
9. MC 10108 TRIFLURALIN	0.75 0.75	90	90
10. MC 10108 TRIFLURALIN	1.00 0.75	92	90
11. CHECK	0.00	0	0

LOCATION: South Farm
 VARIETY: Williams
 DATE TREATED: May 8, 1980
 DATE PLANTED: May 8, 1980
 PLOT SIZE: 2 rows treated 38" apart 1 row untreated 6.33' x
 20' depth of incorporation: 2-3 inches.
 SOIL TYPES: Maury Silt Loam

TABLE 28.—Soybean Postemergence Grass

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 14-----		
					GRAS	ARLE	CRIN
1A	BAS 9052	1.53 EC	.10 LB/AC	EP	98	0	0
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP			
2A	BAS 9052	1.53 EC	.30 LB/AC	EP	98	0	1
2B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP			
3A	BAS 9052	1.53 EC	.50 LB/AC	EP	100	0	0
3B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP			
4A	BAS 9052	1.53 EC	.10 LB/AC	EP	85	2	0
4B	BENTAZON	4.00 E	.75 LB/AC	EP			
4C	OIL CONCENTRATE	.00 AD	1.00 QT/AC				
5A	BAS 9052	1.53 EC	.30 LB/AC	EP	98	0	0
5B	BENTAZON	4.00 E	.75 LB/AC	EP			
5C	OIL CONCENTRATE	.00 AD	1.00 QT/AC				
6A	BAS 9052	1.53 EC	.50 LB/AC	EP	100	2	0
6B	BENTAZON	4.00 E	.75 LB/AC	EP			
6C	OIL CONCENTRATE	.00 AD	1.00 QT/AC				
7A	BAS 9052	1.53 EC	.10 LB/AC	LP	98	0	0
7B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP			
8A	BAS 9052	1.53 EC	.30 LB/AC	LP	100	0	0
8B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP			
9A	BAS 9052	1.53 EC	.50 LB/AC	LP	98	0	0
9B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP			
10A	BAS 9052	1.53 EC	.30 LB/AC	LP	88	0	0
10B	BENTAZON	4.00 E	.75 LB/AC	LP			
10C	OIL CONCENTRATE	.00 AD	1.00 QT/AC				
11A	BAS 9052	1.53 EC	.50 LB/AC	LP	100	0	0
11B	BENTAZON	4.00 E	.75 LB/AC	LP			
11C	OIL CONCENTRATE	.00 AD	1.00 QT/AC				
12	CGA-82725	2.50 E	.25 LB/AC	EP	95	0	0
13	CGA-82725	2.50 E	.50 LB/AC	EP	100	0	0
14	CGA-82725	2.50 E	.75 LB/AC	EP	100	0	0
15A	CGA-82725	2.50 E	.25 LB/AC	EP	82	0	0
15B	BENTAZON	4.00 E	.75 LB/AC	EP			

85

TABLE 28.—Soybean Postemergence Grass (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JULY 14 ----		
					GRAS	BRLE	CRIN
16A	CGA-82725	2.50 E	.50 LB/AC	EP	100	0	0
16B	BENTAZON	4.00 E	.75 LB/AC	EP			
17A	CGA-82725	2.50 E	.75 LB/AC	EP	95	0	0
17B	BENTAZON	4.00 E	.75 LB/AC	EP			
18	RD 13-8895	3.00 E	.06 LB/AC	EP	0	0	0
19	RD 13-8895	3.00 E	.13 LB/AC	EP	72	0	0
20	RD 13-8895	3.00 E	.25 LB/AC	EP	95	0	0
21A	RD 13-8895	3.00 E	.13 LB/AC	EP	62	0	3
21B	ACIFLUORFEN	2.00 E	.25 LB/AC	EP			
22A	RD 13-8895	3.00 E	.13 LB/AC	EP	60	0	4
22B	ACIFLUORFEN	2.00 E	.75 LB/AC	EP			
23A	KK-80	4.00 E	.50 LB/AC	EP	100	0	0
23B	WK (SURFACTANT)	.00 WA	.25 %	EP			
24A	KK-80	4.00 E	.75 LB/AC	EP	100	0	0
24B	WK (SURFACTANT)	.00 WA	.25 %	EP			
25A	KK-80	4.00 E	1.00 LB/AC	EP	100	0	0
25B	WK (SURFACTANT)	.00 WA	.25 %	EP			
26A	KK-80	4.00 E	.50 LB/AC	EP	95	0	0
26B	SURFACTANT	.50 WA	.25 %	EP			
27A	KK-80	4.00 E	.75 LB/AC	EP	100	0	0
27B	SURFACTANT	.50 WA	.25 %	EP			
28A	KK-80	4.00 E	1.00 LB/AC	EP	100	0	0
28B	SURFACTANT	.50 WA	.25 %	EP			
29	KK-80	4.00 E	.75 LB/AC	EP	100	0	0
30A	KK-80	4.00 E	.75 LB/AC	EP	68	0	2
30B	ACIFLUORFEN	2.00 E	.50 LB/AC	EP			
31A	ACIFLUORFEN	2.00 E	.50 LB/AC	EP	75	2	26
31B	KK-80	4.00 E	.75 LB/AC	+3D			
32	BAS 9052	1.53 EC	.30 LB/AC	EP	100	0	0

TABLE 28.—Soybean Postemergence Grass (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL MEIH	-----JULY 14 ----		
					GRAS	BRLE	CRIN
33	BAS 9052	1.53 EC	.50 LB/AC	EP	100	0	0
34A	RO 13-8895	3.00 E	.13 LB/AC	EP	98	0	0
34B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP			
35A	RO 13-8895	3.00 E	.24 LB/AC	EP	100	0	0
35B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP			
36	KK-80	4.00 E	.75 LB/AC	EP	92	0	0
37	KK-80	4.00 E	1.00 LB/AC	EP	98	0	0
38	CHECK (UNCULTIVATED)	.00 CK	.00		0	0	0
LSD(05):					9	14	11

LOCATION: SOUTH 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 8, 1980 DATE TREATED: MAY 28, 1980 EP
 VARIETY: WILLIAMS MAY 31, 1980 +3D
 JUNE 3, 1980 CGA 82725 EP JUNE 5, 1980 LP

TABLE 29.—Dowco 356 Corn Postemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6/20		-----	7/14
					GRAS	BRLE	CRIN	GRAS
1	M-4127	4.00 E	1.50 LB/AC	EP	98	22	0	95
2	M-4127	4.00 E	1.50 LB/AC	MP	60	25	2	28
3	M-4127	4.00 E	1.50 LB/AC	LP	18	25	0	0
4A	M-4127	4.00 E	1.50 LB/AC	EP	100	85	0	98
4B	ATRAZINE	4.00 L	1.50 LB/AC	EP				
5A	M-4127	4.00 E	1.50 LB/AC	MP	95	92	0	95
5B	ATRAZINE	4.00 L	1.50 LB/AC	MP				
6A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	70	100	0	28
6B	PC-671	.00 AD	8.00 QT/AC	PPI				
7A	M-4127	4.00 E	1.25 LB/AC	EP	100	75	2	100
7B	ATRAZINE	4.00 L	1.50 LB/AC	EP				
8A	M-4127	4.00 E	1.25 LB/AC	MP	100	85	0	100
8B	ATRAZINE	4.00 L	1.50 LB/AC	MP				
9A	M-4127	4.00 E	1.25 LB/AC	LP	72	98	2	35
9B	ATRAZINE	4.00 L	1.50 LB/AC	LP				
10A	M-4127	4.00 E	1.00 LB/AC	EP	100	75	0	100
10B	ATRAZINE	4.00 L	1.50 LB/AC	EP				
11A	M-4127	4.00 E	1.00 LB/AC	MP	98	98	0	98
11B	ATRAZINE	4.00 L	1.50 LB/AC	MP				
12A	M-4127	4.00 E	1.00 LB/AC	LP	78	100	5	32
12B	ATRAZINE	4.00 L	1.50 LB/AC	LP				
13A	M-4127	4.00 E	1.50 LB/AC	EP	100	70	0	100
13B	ATRAZINE	4.00 L	1.00 LB/AC	EP				
14A	M-4127	4.00 E	1.50 LB/AC	MP	100	90	0	98
14B	ATRAZINE	4.00 L	1.00 LB/AC	MP				
15A	M-4127	4.00 E	1.50 LB/AC	LP	68	100	0	18
15B	ATRAZINE	4.00 L	1.00 LB/AC	LP				
16A	M-4127	4.00 E	1.50 LB/AC	EP	100	90	0	100
16B	ATRAZINE	4.00 L	.75 LB/AC	EP				

TABLE 29.—Dowco 356 Corn Postemergence (continued)

68

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----6/20		-----	7/14
					GRAS	BRLE	CRIN	GRAS
17A	M-4127	4.00 E	1.50 LB/AC	MP	95	88	0	95
17B	ATRAZINE	4.00 L	.75 LB/AC	MP				
18A	M-4127	4.00 E	1.50 LB/AC	LP	65	88	0	28
18B	ATRAZINE	4.00 L	.75 LB/AC	LP				
19A	M-4127	4.00 E	1.50 LB/AC	EP	100	95	10	100
19B	CYANAZINE	80.00 WP	1.50 LB/AC	EP				
20A	M-4127	4.00 E	1.50 LB/AC	MP	95	88	0	85
20B	CYANAZINE	80.00 WP	1.50 LB/AC	MP				
21A	M-4127	4.00 E	1.50 LB/AC	LP	38	100	22	10
21B	CYANAZINE	80.00 WP	1.50 LB/AC	LP				
22A	M-4127	4.00 E	1.50 LB/AC	EP	100	70	0	98
22B	2,4-D AMINE	4.00 E	.40 LB/AC	EP				
23A	M-4127	4.00 E	1.50 LB/AC	MP	80	98	5	38
23B	2,4-D AMINE	4.00 E	.40 LB/AC	MP				
24A	M-4127	4.00 E	1.50 LB/AC	LP	38	95	10	8
24B	2,4-D AMINE	4.00 E	.40 LB/AC	LP				
25A	ATRAZINE	4.00 L	2.00 LB/AC	EP	92	92	0	92
25B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP				
26A	ATRAZINE	4.00 L	2.00 LB/AC	MP	52	92	0	28
26B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP				
27A	ATRAZINE	4.00 L	2.00 LB/AC	LP	22	98	2	10
27B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP				
28	CYANAZINE	80.00 WP	2.00 LB/AC	EP	90	68	0	82
29	CYANAZINE	80.00 WP	2.00 LB/AC	MP	42	82	0	12
30	CYANAZINE	80.00 WP	2.00 LB/AC	LP	0	70	5	0
31A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	100	100	0	100
31B	ALACHLOR	4.00 E	2.00 LB/AC	PRE				
32	CHECK (CULTIVATED)	.00 CK	.00		100	100	0	100
33	CHECK (UNCULTIVATED)	.00 CK	.00		0	0	0	0
LSD(05):					23	34	7	23

TABLE 29.—Dowco 356 Corn Postemergence (continued)

LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 56.4 O.M.: 3.5%
DATE PLANTED: MAY 7 1980 DATE TREATED: MAY 12 197880 PRE
VARIETY: PIONEER 3369A MAY 21 1980 EP
MAY 28 1980 MP
JUNE 2 1980 LP
ADD 1 OZ/AC M-4168 + 1 PT/AC M-4489 TRTS 1/18

TABLE 30.—Soybean Protectant Study Tracy Preplant Incorporated

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					CRIN	GRAS	IAMG	PRSI
1A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	20	100	62	100
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
1C	PC-671	.00 AD	1.00 QT/AC	PPI				
2A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	38	98	72	100
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
2C	PC-671	.00 AD	1.00 QT/AC	PPI				
3A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	20	100	72	100
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
3C	PC-671	.00 AD	2.00 QT/AC	PPI				
4A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	52	100	65	100
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
4C	PC-671	.00 AD	2.00 QT/AC	PPI				
5A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	10	100	55	100
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
5C	PC-671	.00 AD	4.00 QT/AC	PPI				
6A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	80	100	60	100
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
6C	PC-671	.00 AD	4.00 QT/AC	PPI				
7A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	8	98	40	100
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
7C	PC-671	.00 AD	8.00 QT/AC	PPI				
8A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	58	100	62	100
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
8C	PC-671	.00 AD	8.00 QT/AC	PPI				
9A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	12	95	12	98
9B	PC-671	.00 AD	1.00 QT/AC	PPI				
10A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	50	100	35	100
10B	PC-671	.00 AD	1.00 QT/AC	PPI				
11A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	15	90	10	98
11B	PC-671	.00 AD	2.00 QT/AC	PPI				
12A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	48	100	50	100
12B	PC-671	.00 AD	2.00 QT/AC	PPI				
13A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	10	62	15	95
13B	PC-671	.00 AD	4.00 QT/AC	PPI				

TABLE 30.—Soybean Protectant Study Tracy Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					GRIN	GRAS	IAMG	PRSI
14A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	60	100	32	100
14B	PC-671	.00 AD	4.00 QT/AC	PPI				
15A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	8	95	18	100
15B	PC-671	.00 AD	8.00 QT/AC	PPI				
16A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	55	98	42	100
16B	PC-671	.00 AD	8.00 QT/AC	PPI				
17A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	18	100	58	98
17B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
18A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	72	100	78	100
18B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
19	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	10	90	12	98
20	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	40	100	58	100
21	CHECK (CULTIVATED)	.00 CK	.00		0	100	100	100
LSD(05):					30	12	29	NS

92

LOCATION: SOUTH 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 8 1980 DATE TREATED: MAY 8 1980 PPI
 VARIETY: TRACY

TABLE 31.—Soybean Protectant Study Williams Preplant Incorporated

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980-----			
					CRIN	GRAS	IAMG	PRSI
1A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	5	100	45	100
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
1C	PC-671	.00 AD	1.00 QT/AC	PPI				
2A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	18	100	85	100
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
2C	PC-671	.00 AD	1.00 QT/AC	PPI				
3A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	5	100	78	100
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
3C	PC-671	.00 AD	2.00 QT/AC	PPI				
4A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	28	100	48	100
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
4C	PC-671	.00 AD	2.00 QT/AC	PPI				
5A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	8	100	30	100
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
5C	PC-671	.00 AD	4.00 QT/AC	PPI				
6A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	28	100	45	100
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
6C	PC-671	.00 AD	4.00 QT/AC	PPI				
7A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	10	100	55	100
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
7C	PC-671	.00 AD	8.00 QT/AC	PPI				
8A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	30	100	78	100
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
8C	PC-671	.00 AD	8.00 QT/AC	PPI				
9A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	10	100	32	100
9B	PC-671	.00 AD	1.00 QT/AC	PPI				
10A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	38	100	32	100
10B	PC-671	.00 AD	1.00 QT/AC	PPI				
11A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	5	100	12	100
11B	PC-671	.00 AD	2.00 QT/AC	PPI				
12A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	32	100	28	100
12B	PC-671	.00 AD	2.00 QT/AC	PPI				
13A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	8	100	22	100
13B	PC-671	.00 AD	4.00 QT/AC	PPI				

TABLE 31.—Soybean Protectant Study Williams Preplant Incorporated (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					CRIN	GRAS	IAMG	PRSI
14A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	30	100	35	100
14B	PC-671	.00 AD	4.00 QT/AC	PPI				
15A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	5	100	18	100
15B	PC-671	.00 AD	8.00 QT/AC	PPI				
16A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	30	100	35	100
16B	PC-671	.00 AD	8.00 QT/AC	PPI				
17A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	0	100	45	100
17B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI				
18A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	20	100	60	100
18B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI				
19	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	8	100	35	100
20	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	22	100	58	100
21	CHECK (CULTIVATED)	.00 CK	.00		0	100	100	100
LSD(05):					15	NS	30	NS

94

LOCATION: SOUTH FARM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 DATE PLANTED: MAY 8 1980
 VARIETY: WILLIAMS
 SOIL TYPE: MAURY SILT LOAM
 PH: 6.0 O.M.: 2.8%
 DATE TREATED: MAY 8 1980 PPI

TABLE 32.—Soybean Protectant Study Tracy Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					GRIN	GRAS	IAMG	PRSI
1A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	30	100
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
1C	PC-671	.00 AD	1.00 QT/AC	PRE				
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	75	100	15	100
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
2C	PC-671	.00 AD	1.00 QT/AC	PRE				
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	100	25	100
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
3C	PC-671	.00 AD	2.00 QT/AC	PRE				
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	100	25	100
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
4C	PC-671	.00 AD	2.00 QT/AC	PRE				
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	12	100
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
5C	PC-671	.00 AD	4.00 QT/AC	PRE				
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	72	100	18	100
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
6C	PC-671	.00 AD	4.00 QT/AC	PRE				
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	15	100	15	100
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
7C	PC-671	.00 AD	8.00 QT/AC	PRE				
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	82	100	20	100
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
8C	PC-671	.00 AD	8.00 QT/AC	PRE				
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	20	100	15	100
9B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
9C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	60	100	30	100
10B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
10C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	12	100
11B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
11C	ARD 1675	.00 WA	1.00 %	PRE				
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	85	100	25	100
12B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
12C	ARD 1675	.00 WA	1.00 %	PRE				

TABLE 32.—Soybean Protectant Study Tracy Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					CRIN	GRAS	TAMG	PRSI
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	12	100	25	100
13B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
13C	ARD 1714	.00 WA	1.00 %	PRE				
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	78	100	20	100
14B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
14C	ARD 1714	.00 WA	1.00 %	PRE				
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	28	100
15B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
15C	ARD 1680	.00 WA	1.00 %	PRE				
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	65	100	40	100
16B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
16C	ARD 1680	.00 WA	1.00 %	PRE				
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	65	100
17B	EL-171	4.00 EC	.15 LB/AC	PRE				
17C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	68	100
18B	EL-171	4.00 EC	.30 LB/AC	PRE				
18C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	58	100
19B	EL-171	4.00 EC	.15 LB/AC	PRE				
19C	ARD 1675	.00 WA	1.00 %	PRE				
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	18	100	60	100
20B	EL-171	4.00 EC	.30 LB/AC	PRE				
20C	ARD 1675	.00 WA	1.00 %	PRE				
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	42	100
21B	EL-171	4.00 EC	.15 LB/AC	PRE				
21C	ARD 1714	.00 WA	1.00 %	PRE				
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	20	100	68	98
22B	EL-171	4.00 EC	.30 LB/AC	PRE				
22C	ARD 1714	.00 WA	1.00 %	PRE				
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	100	38	100
23B	EL-171	4.00 EC	.15 LB/AC	PRE				
23C	ARD 1680	.00 WA	1.00 %	PRE				
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	52	100
24B	EL-171	4.00 EC	.30 LB/AC	PRE				
24C	ARD 1680	.00 WA	1.00 %	PRE				

TABLE 32.—Soybean Protectant Study Tracy Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980-----			
					CRIN	GRAS	IAMG	PRSI
25A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	20	100	12	100
25B	PC-671	.00 AD	1.00 QT/AC	PRE				
26A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	70	100	18	100
26B	PC-671	.00 AD	1.00 QT/AC	PRE				
27A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	2	100	15	100
27B	PC-671	.00 AD	2.00 QT/AC	PRE				
28A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	48	100	22	100
28B	PC-671	.00 AD	2.00 QT/AC	PRE				
29A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	5	100	25	100
29B	PC-671	.00 AD	4.00 QT/AC	PRE				
30A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	65	100	22	100
30B	PC-671	.00 AD	4.00 QT/AC	PRE				
31A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	8	98	12	100
31B	PC-671	.00 AD	8.00 QT/AC	PRE				
32A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	75	100	20	100
32B	PC-671	.00 AD	8.00 QT/AC	PRE				
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	22	100	12	100
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	100	25	100
34B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
35A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	100	50	100
35B	EL-171	4.00 EC	.15 LB/AC	PRE				
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	18	100	78	98
36B	EL-171	4.00 EC	.30 LB/AC	PRE				
37	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	22	100	18	98
38	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	72	100	22	100
39	CHECK (CULTIVATED)	.00 CK	.00		0	100	100	100
			LSD (05):		19	NS	26	NS

TABLE 32.—Soybean Protectant Study Tracy Preemergence (continued)

LOCATION: SOUTH 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 8 1980 DATE TREATED: MAY 8 1980 PRE
VARIETY: TRACY

TABLE 33.—Soybean Protectant Study Williams Preemergence

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					CRIN	GRAS	IAMG	PRSI
1A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	100	25	90
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
1C	PC-671	.00 AD	1.00 QT/AC	PRE				
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	12	100	68	100
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
2C	PC-671	.00 AD	1.00 QT/AC	PRE				
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	100	65	100
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
3C	PC-671	.00 AD	2.00 QT/AC	PRE				
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	35	100
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
4C	PC-671	.00 AD	2.00 QT/AC	PRE				
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	100	35	100
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
5C	PC-671	.00 AD	4.00 QT/AC	PRE				
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	100	22	100
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
6C	PC-671	.00 AD	4.00 QT/AC	PRE				
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	100	25	100
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
7C	PC-671	.00 AD	8.00 QT/AC	PRE				
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	52	100
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
8C	PC-671	.00 AD	8.00 QT/AC	PRE				
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	100	25	100
9B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
9C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	100	58	100
10B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
10C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	100	45	100
11B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
11C	ARD 1675	.00 WA	1.00 %	PRE				
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	100	40	100
12B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
12C	ARD 1675	.00 WA	1.00 %	PRE				

TABLE 33.—Soybean Protectant Study Williams Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					CRIN	GRAS	TAMG	PRSI
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	100	45	100
13B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
13C	ARD 1714	.00 WA	1.00 %	PRE				
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	52	100
14B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
14C	ARD 1714	.00 WA	1.00 %	PRE				
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	52	100
15B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
15C	ARD 1680	.00 WA	1.00 %	PRE				
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	100	42	100
16B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
16C	ARD 1680	.00 WA	1.00 %	PRE				
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	58	98
17B	EL-171	4.00 EC	.15 LB/AC	PRE				
17C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	85	100
18B	EL-171	4.00 EC	.30 LB/AC	PRE				
18C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE				
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	30	100	82	100
19B	EL-171	4.00 EC	.15 LB/AC	PRE				
19C	ARD 1675	.00 WA	1.00 %	PRE				
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	28	100	90	100
20B	EL-171	4.00 EC	.30 LB/AC	PRE				
20C	ARD 1675	.00 WA	1.00 %	PRE				
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	15	100	62	100
21B	EL-171	4.00 EC	.15 LB/AC	PRE				
21C	ARD 1714	.00 WA	1.00 %	PRE				
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	15	100	65	100
22B	EL-171	4.00 EC	.30 LB/AC	PRE				
22C	ARD 1714	.00 WA	1.00 %	PRE				
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	2	100	55	100
23B	EL-171	4.00 EC	.15 LB/AC	PRE				
23C	ARD 1680	.00 WA	1.00 %	PRE				
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10	100	68	100
24B	EL-171	4.00 EC	.30 LB/AC	PRE				
24C	ARD 1680	.00 WA	1.00 %	PRE				

001

TABLE 33.—Soybean Protectant Study Williams Preemergence (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-----JUNE 9 1980 -----			
					CRIN	GRAS	IAMG	PRSI
25A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	0	95	28	98
25B	PC-671	.00 AD	1.00 QT/AC	PRE				
26A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	8	100	28	98
26B	PC-671	.00 AD	1.00 QT/AC	PRE				
27A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	0	100	22	98
27B	PC-671	.00 AD	2.00 QT/AC	PRE				
28A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	12	98	60	100
28B	PC-671	.00 AD	2.00 QT/AC	PRE				
29A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	0	100	25	98
29B	PC-671	.00 AD	4.00 QT/AC	PRE				
30A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	10	100	38	100
30B	PC-671	.00 AD	4.00 QT/AC	PRE				
31A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	0	100	28	98
31B	PC-671	.00 AD	8.00 QT/AC	PRE				
32A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	5	98	52	100
32B	PC-671	.00 AD	8.00 QT/AC	PRE				
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	0	100	55	100
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE				
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	25	100
34B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE				
35A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	5	100	58	98
35B	EL-171	4.00 EC	.15 LB/AC	PRE				
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	30	100	75	98
36B	EL-171	4.00 EC	.30 LB/AC	PRE				
37	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	0	95	48	92
38	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	5	100	28	100
39	CHECK (CULTIVATED)	.00 CK	.00		0	100	100	100
LSD(05):					5	2	32	5

101

TABLE 33.—Soybean Protectant Study Williams Preemergence (continued)

LOCATION: SOUTH 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 8 1980 DATE TREATED: MAY 8 1980 PRE
VARIETY: WILLIAMS

TABLE 34.—Com Vine Study

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---JULY 7 1980---		
					CRIN	SWMG	CLMW
1	DICAMBA	4.00 S	.50 LB/AC	PRE	0	32	25
2A	DICAMBA	4.00 S	.25 LB/AC	PRE	0	0	0
2B	2,4-D AMINE	4.00 E	.50 LB/AC	PRE			
3	2,4-D AMINE	4.00 E	.50 LB/AC	PRE	0	22	20
4	2,4-D ESTER	4.00 EP	1.00 LB/AC	PRE	0	12	0
5	ATRAZINE	4.00 L	1.50 LB/AC	PRE	0	15	0
6	M-3972	3.00 E	.19 LB/AC	PRE	0	0	0
7A	2,4-D ESTER	4.00 EP	1.00 LB/AC	PRE	0	0	0
7B	2,4-D ESTER	4.00 EP	.50 LB/AC	EP			
8A	2,4-D ESTER	4.00 EP	1.00 LB/AC	PRE	0	72	68
8B	2,4-D ESTER	4.00 EP	.50 LB/AC	EP			
8C	2,4-D ESTER	4.00 EP	.50 LB/AC	POD			
9	DICAMBA	4.00 S	.25 LB/AC	EP	0	25	0
10A	DICAMBA	4.00 S	.25 LB/AC	EP	0	12	0
10B	2,4-D AMINE	4.00 E	.25 LB/AC	EP			
11A	DICAMBA	4.00 S	.25 LB/AC	EP	0	15	0
11B	2,4-D AMINE	4.00 E	.50 LB/AC	EP			
12	2,4-D AMINE	4.00 E	.50 LB/AC	EP	0	8	0
13	M-3972	3.00 E	.18 LB/AC	EP	0	0	0
14A	M-3972	3.00 E	.09 LB/AC	EP	0	35	35
14B	2,4-D AMINE	4.00 E	.25 LB/AC	EP			
15A	M-3972	3.00 E	.18 LB/AC	EP	0	8	0
15B	2,4-D AMINE	4.00 E	.25 LB/AC	EP			
16	2,4-D ESTER	4.00 EP	.50 LB/AC	EP	0	8	0
17A	DICAMBA	4.00 S	.25 LB/AC	EP	2	92	75
17B	DICAMBA	4.00 S	.25 LB/AC	MP			
18A	DICAMBA	4.00 S	.25 LB/AC	EP	0	92	82
18B	2,4-D AMINE	4.00 E	.50 LB/AC	EP			
18C	DICAMBA	4.00 S	.25 LB/AC	MP			

TABLE 34.—Corn Vine Study (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---JULY 7 1980---		
					CRIV	SWMG	CLMW
19	DICAMBA	4.00 S	.25 LB/AC	MP	0	80	52
20A	DICAMBA	4.00 S	.25 LB/AC	MP	4	100	78
20B	2,4-D AMINE	4.00 E	.25 LB/AC	MP			
21	M-3972	3.00 E	.18 LB/AC	MP	0	28	5
22A	M-3972	3.00 E	.09 LB/AC	MP	1	85	62
22B	2,4-D AMINE	4.00 E	.25 LB/AC	MP			
23A	M-3972	3.00 E	.18 LB/AC	MP	0	95	58
23B	2,4-D AMINE	4.00 E	.25 LB/AC	MP			
24	2,4-D ESTER	4.00 EP	.50 LB/AC	MP	6	98	78
25A	DICAMBA	4.00 S	.25 LB/AC	POD	0	95	82
25B	2,4-D AMINE	4.00 E	.50 LB/AC	POD			
26	DICAMBA	4.00 S	.25 LB/AC	POD	0	88	60
27	2,4-D AMINE	4.00 E	.50 LB/AC	POD	0	92	58
28A	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	0	48	10
28B	SURFACTANT	.50 WA	.50 %	POD			
29A	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	0	90	40
29B	SURFACTANT	.50 WA	.50 %	POD			
30A	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	0	95	95
30B	2,4-D AMINE	4.00 E	.50 LB/AC	POD			
31A	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	0	98	68
31B	2,4-D AMINE	4.00 E	.50 LB/AC	POD			
32	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	0	85	32
33	BENAZOLIN	3.00 E	.25 LB/AC	MP	0	0	0
34	BENTAZON	4.00 E	.25 LB/AC	MP	0	10	0
35A	BENAZOLIN	3.00 E	.25 LB/AC	MP	0	25	20
35B	BENTAZON	4.00 E	.25 LB/AC				
36A	BENAZOLIN	3.00 E	.25 LB/AC	MP	1	90	70
36B	2,4-D AMINE	4.00 E	.25 LB/AC	MP			

TABLE 34.—Corn Vine Study (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---JULY 7 1980---		
					GRIN	SWMS	CLMW
37A	BENAZOLIN	3.00 E	.25 LB/AC	MP	0	78	42
37B	DICAMBA	4.00 S	.25 LB/AC	MP			
38A	BENAZOLIN	3.00 E	.25 LB/AC	MP	0	85	40
38B	ATRAZINE	4.00 L	1.00 LB/AC	MP			
LSD(05):					2	28	33

LOCATION: SOUTH FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 6 K

PH: 6.6 O.M.: 4.0%

DATE PLANTED: MAY 7 1980

DATE TREATED: MAY 7 1980 PRE

VARIETY: PIONEER 3369A

MAY 28 1980 EP

JUNE 13 1980 MP,POD

TABLE 35.—Weed Control in Transplanted Peppers

TRT NO.	HERBICIDE TREATMENT	FORMULA	Rate (LB/A)	APPL METH	July 7, 180	
					GRAS	BRLE
1	Pendimethalin	4.00 E	1.0	PRE	77	88
2	Pendimethalin	4.00 E	1.0	PPI	75	77
3A	Pendimethalin	4.00 E	1.0	PPI	73	85
3B	Napropamide	4.00 F	2.0	PPL		
4	Napropamide	4.00 F	1.00	PPI	50	38
5	Napropamide	4.00 F	2.0	PPI	60	53
6	Trifluralin	4.00 E	1.0	PPI	83	85
7A	Trifluralin	4.00 E	1.0	PPI	80	80
7B	Napropamide	4.00 F	2.0	PPI		
8A	Napropamide	4.00 F	2.0	PPI	80	77
8B	Diphenamid	50.00 WP	5.0	PPI		
9A	Napropamide	4.00 F	2.00	PPI	83	67
9B	Diphenamid	50.00 WP	3.0	PPI		
9C	Diphenamid	50.00 WP	3.0	POE		
10A	Napropamide	4.00 F	2.0	PPL	70	67
10B	DCPA	74.00 WP	9.0	PPI		
11A	Napropamide	4.00 F	2.0	PPI	73	78
11B	DCPA	75.00 WP	5.0	PPI		
11C	DCPA	75.00 WP	5.0	POE		

TABLE 35.—Weed Control in Transplanted Peppers (continued)

<u>TRT NO</u>	<u>HERBICIDE TREATMENT</u>	<u>FORMULA</u>	<u>RATE (LB/A)</u>	<u>APPL METH</u>	<u>-JULY 7, 1980- GRAS</u>	<u>BRLE</u>
12A	Alachlor	4.00 E	3.0	PPI	90	83
12B	Napropamide	4.00 F	2.0	PPI		
13A	Metolachlor	8.00 E	3.0	PPI	93	82
13B	Napropamide	8.00 F	2.0	PPI		
14A	Trifluralin	4.00 E	1.0	PPI	82	77
14B	Metribuzin	4.00 F	0.38	PPI		
15A	Trifluralin	4.00 E	1.0	PPI	83	83
15B	Metribuzin	4.00 F	0.5	PPI		
16A	Napropamide	4.00 F	2.0	PPI	98	53
16B	BAS 9052	1.53 E	0.5	POE		
17	Weedy Check	--	--	--	0	0
			LSD (.05)		18	26

Location: South Farm
 Soil Type: Maury Silt Loam
 Date Planted: May 31, 1980
 Date Treated: May 30, 1980 Pre, PPI
 June 27, 1980 POE
 BRLE: Purslane, Redroot Pigweed
 GRAS: Giant Foxtail

TABLE 36.—Corn Conventional Tillage in Johnsongrass—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	--3/6 --- Yield
1	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	59
2	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	60
3	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	80
4	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	63
5A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	65
5B	TRIFLURALIN	4.00 E	1.00 LB/AC	POE	
6A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	63
6B	TRIFLURALIN	4.00 E	1.00 LB/AC	POE	
7A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	70
7B	PENDIMETHALIN	4.00 E	1.00 LB/AC	POE	
8A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	90
8B	PENDIMETHALIN	4.00 E	1.00 LB/AC	POE	
9A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	77
9B	S-734	75.00 WP	.75 LB/AC	POE	
10A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	90
10B	S-734	75.00 WP	.75 LB/AC	POE	
11A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	92
11B	WITH R-33865	1.00	.67	PPI	
11C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
12A	EPTC PKG MIX	6.00 EC	6.00 LB/AC	PPI	88
12B	WITH R-33865	1.00	1.00	PPI	
12C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
13A	BUTYLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	25
13B	WITH R-33865	1.00	.67	PPI	
13C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
14A	BUTYLATE PKG MIX	6.00 EC	6.00 LB/AC	PPI	72
14B	WITH R-33865	1.00	1.00	PPI	
14C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
15A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	52
15B	PC-671	.00 AD	2.00 QT/AC	PPI	

108

TABLE 36.—Corn Conventional Tillage in Johnsongrass—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--8/6 --- YGR
16A	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	62
16B	PC-671	.00 AD	2.00 QT/AC	PPI	
17A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	70
17B	PC-671	.00 AD	2.00 QT/AC	PPI	
18A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	45
18B	PC-671	.00 AD	2.00 QT/AC	PPI	
19	VERNOLATE + R-25788	6.70 E	6.00 LB/AC	PPI	62
20A	VERNOLATE + R-25788	6.70 E	3.00 LB/AC	PPI	55
20B	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	
21A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	60
21B	VERNOLATE + R-25788	6.70 E	3.00 LB/AC	PPI	
22A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	70
22B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	
23A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	19
23B	CYANAZINE	4.00 L	4.00 LB/AC	PPI	
24A	EPTC + R25788	6.70 E	6.00 LB/AC	PPI	15
24B	CYANAZINE	4.00 L	4.00 LB/AC	PPI	
25	NC 20484	4.00 E	1.00 LB/AC	PPI	38
26	NC 20484	4.00 E	2.00 LB/AC	PPI	5
27	CHECK (UNCULTIVATED)	.00 CK	.00		0

601

LSD(05): 25

LOCATION: PRINCETON, KY

SOIL TYPE: CRIDER SILT LOAM

FERTILIZATION (LB/AC): 100 N, 60 P, 60 K

PH: 6.6 O.M.: 1.9%

DATE PLANTED: MAY 2, 1980

DATE TREATED: MAY 2, 1980 PPI

VARIETY: PIONEER 3369A

JUNE 11, 1980 POE

TABLE 37.—No-Till Soybean in Wheat Stubble—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---7/15 --		---8/5 --	
					LACS	WHAS	LACS	WHAS
1A	PARAQUAT	2.00 E	.50 LB/AC	4WK	5	62	0	55
1B	SURFACTANT	.50 WA	.25 %	4WK				
1C	LINURON	4.00 L	.75 LB/AC	PRE				
1D	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
2A	PARAQUAT	2.00 E	.50 LB/AC	4WK	50	65	0	0
2B	SURFACTANT	.50 WA	.25 %	2WK				
2C	LINURON	4.00 L	.75 LB/AC	PRE				
2D	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	25	35	0	0
3B	LINURON	50.00 WP	.75 LB/AC	PRE				
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE				
3D	SURFACTANT	.50 WA	.50 %	PRE				
4A	GLYPOSATE	4.00 E	2.00 LB/AC	4WK	28	100	2	92
4B	LINURON	4.00 L	.75 LB/AC	PRE				
4C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
5A	GLYPOSATE	4.00 E	.00 LB/AC	2WK	70	95	48	98
5B	LINURON	4.00 L	.75 LB/AC	PRE				
5C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
6A	GLYPOSATE	4.00 E	1.50 LB/AC	PRE	65	78	2	85
6B	LINURON	4.00 L	.75 LB/AC	PRE				
6C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
7A	CYANAZINE	4.00 L	3.00 LB/AC	4WK	63	100	63	70
7B	SURFACTANT	.50 WA	.25 %	4WK				
7C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
8A	CYANAZINE	4.00 L	2.00 LB/AC	4WK	68	95	65	100
8B	SURFACTANT	.50 WA	.25 %	4WK				
8C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
9A	CYANAZINE	4.00 L	2.00 LB/AC	2WK	70	85	10	100
9B	SURFACTANT	.50 WA	.25 %	2WK				
9C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
10A	CYANAZINE	4.00 L	1.50 LB/AC	2WK	75	85	75	100
10B	SURFACTANT	.50 WA	.25 %	2WK				
10C	ALACHLOR	4.00 E	2.50 LB/AC	PRE				
11A	PARAQUAT	2.00 E	.25 LB/AC	2WK	73	67	77	0
11B	SURFACTANT	.50 WA	.25 %	2WK				
11C	GRYZALIN	4.00 AS	1.50 LB/AC	2WK				

110

TABLE 37.—No-Till Soybean in Wheat Stubble—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---7/15 --		----8/5 --		
					LACG	WHAS	LACG	WHAS	
12A	PARAQUAT	2.00 E	.25 LB/AC	2WK	0	52	0	8	
12B	SURFACTANT	.50 WA	.25 %	2WK					
12C	S-734	75.00 WP	1.25 LB/AC	2WK					
13A	PARAQUAT	2.00 E	.25 LB/AC	2WK	57	37	70	0	
13B	SURFACTANT	.50 WA	.25 %	2WK					
13C	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK					
14A	LINURON	4.00 L	1.00 LB/AC	PRE	88	50	82	5	
14B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE					
14C	PARAQUAT	2.00 E	.25 LB/AC	PRE					
14D	SURFACTANT	.50 WA	.25 %	PRE					
15A	PARAQUAT	2.00 E	.25 LB/AC	PRE	88	65	82	5	
15B	SURFACTANT	.50 WA	.25 %	PRE					
15C	S-734	75.00 WP	1.00 LB/AC	PRE					
15D	LINURON	4.00 L	1.00 LB/AC	PRE					
III	16A	PARAQUAT	2.00 E	.25 LB/AC	PRE	85	25	80	10
	16B	SURFACTANT	.50 WA	.25 %	PRE				
	16C	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE				
	16D	LINURON	4.00 L	1.00 LB/AC	PRE				
17A	PARAQUAT	2.00 E	.50 LB/AC	PRE	68	90	18	95	
17B	SURFACTANT	.50 WA	.25 %	PRE					
17C	BAS 9052	1.53 EC	.50 LB/AC	EP					
17D	BENTAZON	4.00 E	1.00 LB/AC	EP					
17E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
18A	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE	70	95	8	100	
18B	BAS 9052	1.53 EC	.50 LB/AC	EP					
18C	BENTAZON	4.00 E	1.00 LB/AC	EP					
18D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
19A	BAS 9052	1.53 EC	.50 LB/AC	EP	22	65	28	8	
19B	BENTAZON	4.00 E	.75 LB/AC	EP					
19C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP					
20	CHECK (UNCULTIVATED)	.00 CK	.00		0	0	0	0	
				LSD(05):	19	16	19	20	

TABLE 37.—No-Till Soybean in Wheat Stubble—Princeton (continued)

LOCATION: PRINCETON, KY SOIL TYPE: CRIDER SILT LOAM
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.7 O.M.: 1.6%
DATE PLANTED: MAY 29, 1980 DATE TREATED: MAY 15, 1980 2WK
VARIETY: WILLIAMS MAY 1, 1980 4WK
MAY 29, 1980 PRE
JUNE 20, 1980 EP

TABLE 38.—Soybean Johnsongrass—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METHOD	JULY 22--- JOGR	JULY 22--- CRIN	JULY 14--- JOGR	JULY 14--- CRIN
1A	S-734	75.00 WP	.75 LB/AC	PPT	38	0	72	0
1B	TRIFLURALIN	4.00 E	.75 LB/AC	PPT				
2A	S-734	75.00 WP	1.00 LB/AC	PPT	50	2	72	2
2B	TRIFLURALIN	4.00 E	1.00 LB/AC	PPT				
3	PENDIMETHALIN	4.00 E	1.00 LB/AC	PPI	38	0	62	0
4	PENDIMETHALIN	4.00 E	2.00 LB/AC	PPI	42	0	65	0
5	PENDIMETHALIN	4.00 E	3.00 LB/AC	PPT	10	0	58	0
6	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	52	0	78	2
7	FLUCHLORALIN	4.00 E	1.50 LB/AC	PPI	42	0	75	0
8	METALACHLOR	8.00 E	3.00 LB/AC	PPI	5	0	70	0
9	METALACHLOR	8.00 E	4.00 LB/AC	PPT	30	0	62	0
10	PROFLURALIN	4.00 E	2.00 LB/AC	PPI	62	0	80	0
11A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPT	18	0	62	0
11B	WITH R-33865	1.00	.42	PPT				
12	VERNOLATE	7.00 E	2.50 LB/AC	PPI	18	0	68	0
13	CP 55097	8.00 EC	3.00 LB/AC	PPI	18	5	58	2
14	DIETHATYL	4.00 E	3.00 LB/AC	PPI	35	0	72	0
15	DIETHATYL	4.00 E	4.00 LB/AC	PPI	0	0	58	0
16	ALACHLOR	4.00 E	3.00 LB/AC	PPI	18	0	68	2
17	ALACHLOR	4.00 E	4.00 LB/AC	PPI	52	2	78	5
18	S-734	75.00 WP	.75 LB/AC	PPI	28	0	68	0
19	S-734	75.00 WP	1.00 LB/AC	PPI	60	2	72	0
20	S-734	75.00 WP	1.50 LB/AC	PPI	68	2	85	2
21	MRR 22359	2.00 E	1.50 LB/AC	PRE	70	2	85	2

TABLE 38.—Soybean Johnsongrass—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 22---		JULY 14---	
					JOGR	CRIN	JOGR	CRIN
22	M8R 22359	2.00 E	3.00 LB/AC	PRE	58	0	78	2
23	ALACHLOR	4.00 E	3.00 LB/AC	PRE	30	0	58	0
24	ALACHLOR	4.00 E	4.00 LB/AC	PRE	40	2	65	2
25A	S-734	75.00 WP	1.00 LB/AC	PPI	78	18	88	18
25B	MEFLUIDIDE	2.00 S	.25 LB/AC	LP				
25C	SURFACTANT	.50 WA	.50 %	LP				
26A	S-734	75.00 WP	1.50 LB/AC	PPI	72	22	88	12
26B	MEFLUIDIDE	2.00 S	.25 LB/AC	LP				
26C	SURFACTANT	.50 WA	.50 %	LP				
27A	S-734	75.00 WP	1.00 LB/AC	PPI	100	2	95	5
27B	BAS 9052	1.53 EC	.50 LB/AC	LP				
27C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP				
28A	S-734	75.00 WP	1.00 LB/AC	PPI	92	2	90	5
28B	KK-80	4.00 E	.50 LB/AC	LP				
28C	WK (SURFACTANT)	.00 WA	.25 %	LP				
29A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	58	10	78	20
29B	MEFLUIDIDE	2.00 S	.25 LB/AC	MP				
29C	SURFACTANT	.50 WA	.50 %	MP				
30A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	82	10	85	12
30B	MEFLUIDIDE	2.00 S	.25 LB/AC	MP				
30C	SURFACTANT	.50 WA	.50 %	MP				
30D	MEFLUIDIDE	2.00 S	.12 LB/AC	+3K				
30E	SURFACTANT	.50 WA	.50 %	+3K				
31A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	82	10	90	10
31B	MEFLUIDIDE	2.00 S	.25 LB/AC	MP				
31C	SURFACTANT	.50 WA	.50 %	MP				
31D	MEFLUIDIDE	2.00 S	.25 LB/AC	+3K				
31E	SURFACTANT	.50 WA	.50 %	+3K				
32A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	85	8	90	8
32B	MEFLUIDIDE	2.00 S	.13 LB/AC	MP				
32C	SURFACTANT	.50 WA	.50 %	MP				
32D	MEFLUIDIDE	2.00 S	.13 LB/AC	+3K				
32E	SURFACTANT	.50 WA	.50 %	+3K				
33A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	98	15	92	15
33B	MEFLUIDIDE	2.00 S	.12 LB/AC	MP				
33C	SURFACTANT	.50 WA	.50 %	MP				
33D	MEFLUIDIDE	2.00 S	.25 LB/AC	+3K				
33E	SURFACTANT	.50 WA	.50 %	+3K				

114

TABLE 38.—Soybean Johnsongrass—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	JULY 22---		JULY 14---	
					JOGR	CRIN	JOGR	CRIN
34A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	55	0	80	0
34B	KK-80	4.00 E	.50 LB/AC	EP				
34C	WK (SURFACTANT)	.00 WA	.25 %	EP				
35A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	88	0	88	0
35B	KK-80	4.00 E	.75 LB/AC	EP				
35C	WK (SURFACTANT)	.00 WA	.25 %	EP				
36A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	88	0	88	0
36B	KK-80	4.00 E	1.00 LB/AC	EP				
36C	WK (SURFACTANT)	.00 WA	.25 %	EP				
37A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	100	0	98	0
37B	BAS 9052	1.53 EC	.30 LB/AC	LP				
37C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP				
38A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	100	0	98	0
38B	BAS 9052	1.53 EC	.50 LB/AC	LP				
38C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP				
39A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	98	2	98	2
39B	BAS 9052	1.53 EC	1.00 LB/AC	LP				
39C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP				
40	CHECK (UNCULTIVATED)	.00 CK	.00		8	0	0	0
LSD(05):					38	6	16	6

115

LOCATION: PRINCETON, KY

SOIL TYPE: CRIDER SILT LOAM

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

pH: 6.3 O.M.: 1.6%

DATE PLANTED: MAY 27, 1980

DATE TREATED: MAY 22, 1980 PPI

VARIETY: WILLIAMS

MAY 27, 1980 PRE

JUNE 11, 1980 EP

JUNE 14, 1980 MP

JUNE 19, 1980 LP

JULY 3, 1980 3WK

TABLE 39.—Soybean Johnsongrass Postemergence—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7/14 JOGR	--8 JOGR
1A	BAS 9052	1.53 EC	.30 LB/AC	LP	88	100
1B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
2A	BAS 9052	1.53 EC	.50 LB/AC	LP	93	93
2B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
3A	BAS 9052	1.53 EC	1.00 LB/AC	LP	90	100
3B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
4A	BAS 9052	1.53 EC	.50 LB/AC	LP	90	100
4B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
4C	BAS 9052	1.53 EC	.50 LB/AC	+3K		
4D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	+3K		
5A	BAS 9052	1.53 EC	.75 LB/AC	LP	92	100
5B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
5C	BAS 9052	1.53 EC	.50 LB/AC	+3K		
5D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	+3K		
6A	BAS 9052	1.53 EC	1.00 LB/AC	LP	92	100
6B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
6C	BAS 9052	1.53 EC	.50 LB/AC	+3K		
6D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	+3K		
7A	BAS 9052	1.53 EC	.30 LB/AC	MP	92	100
7B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
7C	BAS 9052	1.53 EC	.30 LB/AC	+3K		
7D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	+3K		
8A	BAS 9052	1.53 EC	.50 LB/AC	MP	95	100
8B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
8C	BAS 9052	1.53 EC	.30 LB/AC	+3K		
8D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	+3K		
9A	KK-80	4.00 E	.50 LB/AC	EP	72	62
9B	WK (SURFACTANT)	.00 WA	.25 %	EP		
10A	KK-80	4.00 E	.75 LB/AC	EP	69	48
10B	WK (SURFACTANT)	.00 WA	.25 %	EP		
11A	KK-80	4.00 E	1.00 LB/AC	EP	72	70
11B	WK (SURFACTANT)	.00 WA	.25 %	EP		
12A	KK-80	4.00 E	.50 LB/AC	EP	90	98
12B	WK (SURFACTANT)	.00 WA	.25 %	EP		
12C	KK-80	4.00 E	.50 LB/AC	+3K		
12D	WK (SURFACTANT)	.00 WA	.25 %	+3K		

119

TABLE 39.—Soybean Johnsongrass Postemergence—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7/14 JOGR	--8 JOGR
13A	KK-80	4.00 E	.75 LB/AC	EP	88	100
13B	WK (SURFACTANT)	.00 WA	.25 %	EP		
13C	KK-80	4.00 E	.50 LB/AC	+3K		
13D	WK (SURFACTANT)	.00 WA	.25 %	+3K		
14A	KK-80	4.00 E	1.00 LB/AC	EP	82	98
14B	WK (SURFACTANT)	.00 WA	.25 %	EP		
14C	KK-80	4.00 E	.50 LB/AC	+3K		
14D	WK (SURFACTANT)	.00 WA	.25 %	+3K		
15	RO 13-8895	3.00 E	.25 LB/AC	MP	58	5
16	RO 13-8895	3.00 E	.50 LB/AC	MP	70	28
17	RO 13-8895	3.00 E	.75 LB/AC	MP	70	18
18A	RO 13-8895	3.00 E	.25 LB/AC	MP	67	10
18B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
19A	RO 13-8895	3.00 E	.50 LB/AC	MP	75	85
19B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
20A	RO 13-8895	3.00 E	.75 LB/AC	MP	78	88
20B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
21	CHECK (UNCULTIVATED)	.00 CK	.00		0	0
LSD(05):					9	22

117

LOCATION: PRINCETON, KY

SOIL TYPE: CRIDER SILT LOAM

FERTILIZATION (LB/AC): 60 N,

60 P,

PH: 6.5 O.M.: 1.6%

DATE PLANTED: MAY 27, 1980

DATE TREATED: JUNE 11, 1980 EP

VARIETY: WILLIAMS

JUNE 14, 1980 MP

JUNE 19, 1980 LP

JULY 3, 1980 3W EP

JULY 3, 1980 3W MP

JULY 10, 1980 EW LP

TABLE 40.—Soybeans—30" Row Postemergence Johnsongrass Control—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	July 25, 1980		August 9, 1980	
					JOGR	CRIN	JOGR	CRIN
1A	KK80	4.00 E	.75 LB/AC	LP	75	0	74	0
1B	SURFACTANT	0.0 WA	.25 %	LP				
2A	BAS 9052	1.53 EC	.75 LB/AC	LP	94	0	97	0
2B	OIL CONCENTRATE	0.0 AD	1.0 QT/AC	LP				
3A	MBR 12325	2.00 S	.25 LB/AC	LP	45	10	13	13
3B	SURFACTANT	0.0 WA	.25 %	LP				
4A	ALACHLOR	4.00 E	3.50 LB/AC	PPI	78	10	73	0
4B	GLYPHOSATE	4.00E	33% SOLN	SAE				
5A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	74	1.0	61	0
5B	GLYPHOSATE	4.00E	33% SOLN	SAE				
6	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	79	1.0	74	0
6B	GLYPHOSATE	4.00E	33% SOLN	SAE				
7	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	45	0	30	0
8A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	79	4	80	0
8B	KK80	4.00 E	.75 LB/AC	LP				
8C	SURFACTANT	0.0 WA	.25 %	LP				
9A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	98	0	98	0
9B	BAS 9052	1.53 EC	.75 LB/AC	LP				
9C	OIL CONCENTRATE	0.0 AD	1.00 QT/AC	LP				
10A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	69	14	69	3
10B	MBR 12325	2.00 S	.25 LB/AC	LP				
10C	SURFACTANT	0.0 WA	.25 %	LP				
10D	MBR 12325	2.00 S	.125 LB/AC	+3W				
10E	SURFACTANT	0.0 WA	.25 %	+3W				

TABLE 40.—Soybeans—30" Row Postemergence Johnsongrass Control—Princeton (continued)

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>July 25, 1980</u>		<u>August 9, 1980</u>	
					<u>JOGR</u>	<u>CRIN</u>	<u>JOGR</u>	<u>CRIN</u>
11	CHECK	--	--	--	0	0	0	0
				LSD (05):	17	5	18	5

LOCATION: PRINCETON

FERTILIZATION (LB/AC): 0 N, 0 P,

DATE PLANTED: MAY 27, 1980

VARIETY: WILLIAMS

SOIL TYPE: CRIDER SILT LOAM

PH: 6.1 O.M.: -

DATE TREATED: MAY 27, 1980 PPI

JUNE 19, 1980 LP POE

JULY 8, 1980 SAE

JULY 10, 1980 +3W

TABLE 41.—Soybeans—10" Row Postemergence Johnsongrass Control—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	July 25, 1980		August 8, 1980	
					JOGR	CRIN	JOGR	CRIN
1A	KK80	4.00 E	.75 LB/AC	LP	80	0	88	0
1B	SURFACTANT	0.0 WA	.25 %	LP				
2A	BAS 9052	1.53 EC	.75 LB/AC	LP	98	0	95	0
2B	OIL CONCENTRATE	0.0 AD	1.0	LP				
3A	MBR 12325	2.00 S	.25 LB/AC	LP	43	3	50	6
3B	SURFACTANT	0.0 WA	.25 %	LP				
4A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	89	0	91	0
4B	KK80	4.00 E	.75 LB/AC	LP				
4C	SURFACTANT	0.0 WA	.25 %	LP				
5A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	93	0	97	0
5B	BAS 9052	1.53 EC	.75 LB/AC	LP				
5C	OIL CONCENTRATE	0.0 AD	1.0 QT/AC	LP				
6A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	73	15	78	8
6B	MBR 12325	2.00 S	.25 LB/AC	LP				
6C	SURFACTANT	0.0 WA	.25 %	LP				
6D	MBR 12325	2.00 S	.125 LB/AC	+3W				
6E	SURFACTANT	0.0 WA	.25 %	+3W				
7	CHECK	--	--	--	0	0	0	0
			LSD (05):		6	5	6	5

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 0 N, 0 P, 0 K,
 DATE PLANTED: MAY 27, 1980

SOIL TYPE: CRIDER SILT LOAM
 PH: 6.1 O.M.: -
 DATE TREATED: MAY 27, 1980 PPI
 JUNE 19, 1980 LP POE
 JULY 10, 1980 +3W

TABLE 42.—Johnsongrass Control in Double Crop Soybeans—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7/27 LOGR
1A	LINURON	4.00 L	1.00 LB/AC	PRE	92
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE	
1C	SURFACTANT	.50 WA	.50 %	PRE	
1D	KK-80	4.00 E	.75 LB/AC	LP	
1E	WK (SURFACTANT)	.00 WA	.25 %	LP	
2A	LINURON	4.00 L	1.00 LB/AC	PRE	92
2B	PARAQUAT	2.00 E	.25 LB/AC	PRE	
2C	SURFACTANT	.50 WA	.50 %	PRE	
2D	BAS 9052	1.53 EC	.50 LB/AC	LP	
2E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP	
3A	LINURON	4.00 L	1.00 LB/AC	PRE	72
3B	PARAQUAT	2.00 E	.25 LB/AC	PRE	
3C	SURFACTANT	.50 WA	.50 %	PRE	
3D	MEFLUIDIDE	2.00 S	.25 LB/AC	LP	
3E	WK (SURFACTANT)	.00 WA	.25 %	LP	
4A	LINURON	4.00 L	1.00 LB/AC	PRE	92
4B	ALACHLOR	4.00 E	4.00 LB/AC	PRE	
4C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
4D	SURFACTANT	.50 WA	.50 %	PRE	
4E	KK-80	4.00 E	.75 LB/AC	LP	
5A	LINURON	4.00 L	1.00 LB/AC	PRE	92
5B	ALACHLOR	4.00 E	4.00 LB/AC	PRE	
5C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
5D	SURFACTANT	.50 WA	.50 %	PRE	
5E	BAS 9052	1.53 EC	.75 LB/AC	LP	
6A	LINURON	4.00 L	1.00 LB/AC	PRE	68
6B	ALACHLOR	4.00 E	4.00 LB/AC	PRE	
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
6D	SURFACTANT	.50 WA	.50 %	PRE	
6E	MEFLUIDIDE	2.00 S	.25 LB/AC	LP	
7A	GLYPOSATE	4.00 E	2.00 LB/AC	PWH	80
7B	LINURON	4.00 L	1.00 LB/AC	PRE	
7C	BAS 9052	1.53 EC	.75 LB/AC	MP	
7D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP	
8A	GLYPOSATE	4.00 E	2.00 LB/AC	PWH	88
8B	LINURON	4.00 L	1.00 LB/AC	PRE	
8C	BAS 9052	1.53 EC	.75 LB/AC	LP	
8D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP	

TABLE 42.—Johnsongrass Control in Double Crop Soybeans—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	7/27 YIELD
9A	GLYPOSATE	4.00 E	2.00 LB/AC	PWH	82
9B	LINURON	4.00 L	1.00 LB/AC	PRE	
9C	KK-80	4.00 E	.75 LB/AC	MP	
9D	WK (SURFACTANT)	.00 WA	.25 %	MP	
10A	GLYPOSATE	4.00 E	2.00 LB/AC	PWH	85
10B	LINURON	4.00 L	1.00 LB/AC	PRE	
10C	KK-80	4.00 E	.75 LB/AC	LP	
10D	WK (SURFACTANT)	.00 WA	.25 %	LP	
11A	GLYPOSATE	4.00 E	2.00 LB/AC	PWH	75
11B	LINURON	4.00 L	1.00 LB/AC	PRE	
11C	ALACHLOR	4.00 E	4.00 LB/AC	PRE	
12A	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	###
12B	LINURON	4.00 L	1.00 LB/AC	PRE	
12C	ALACHLOR	4.00 E	4.00 LB/AC	PRE	
13	CHECK (UNCULTIVATED)	.00 CK	.00		0

LSD(05): 25

LOCATION: PRINCETON, KY SOIL TYPE: CRIDER SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.5 D.M.: 3.0%
 DATE PLANTED: JULY 3, 1980 DATE TREATED: JUNE 24, 1980 PWH
 VARIETY: WILLIAMS JULY 4, 1980 PRE
 JULY 14, 1980 LP PAR
 AUGUST 9, 1980 MP ROUNDUP
 AUGUST 12, 1980 LP ROUNDUP

TABLE 43.—Cocklebur Postemergence—Princeton

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	6/30		8/5	
					COCB	CRIN	COCB	CRIN
1A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	78	2	88	0
1B	NANPA/DN	3.00 E	2.25 LB/AC	EP				
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	85	2	100	0
2B	NANPA/DN	3.00 E	3.00 LB/AC	EP				
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	88	2	92	0
3B	NANPA/DN	3.00 E	4.50 LB/AC	CR				
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	70	2	88	0
4B	NANPA/DN	3.00 E	2.25 LB/AC	MP				
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	68	2	92	0
5B	NANPA/DN	3.00 E	3.00 LB/AC	MP				
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	78	2	92	0
6B	NAPTALAM	2.00 EC	1.00 LB/AC	MP				
6C	ACIFLUORFEN	2.00 LCS	.25 LB/AC	MP				
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	78	15	95	0
7B	NAPTALAM	2.00 EC	2.00 LB/AC	MP				
7C	ACIFLUORFEN	2.00 LCS	.25 LB/AC	MP				
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	0	95	0
8B	ACIFLUORFEN	2.00 LCS	.50 LB/AC	EP				
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	0	95	0
9B	BENTAZON	4.00 E	.75 LB/AC	EP				
9C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP				
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	20	60	60	5
10B	OXYFLUORFEN	2.00 E	.62 LB/AC	PRE				
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	67	30	80	0
11B	RH-8817	2.00 E	.62 LB/AC	PRE				
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	85	2	85	0
12B	MC 10978	2.00 S	.25 LB/AC	EP				
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	95	2	98	0
13B	MC 10978	2.00 S	.50 LB/AC	EP				
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	88	5	95	0
14B	MC 10978	2.00 S	.75 LB/AC	EP				

TABLE 43.—Cocklebur Postemergence—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	5/30		8/5	
					COCB	CRIN	COCB	CRIN
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8	0	12	0
15B	MC 10978	2.00 S	.25 LB/AC	EP				
15C	SURFACTANT	.50 WA	.50 %	EP				
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	12	98	0
16B	MC 10978	2.00 S	.50 LB/AC	EP				
16C	SURFACTANT	.50 WA	.50 %	EP				
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	2	92	0
17B	MC 10978	2.00 S	.75 LB/AC	EP				
17C	SURFACTANT	.50 WA	.50 %	EP				
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	2	100	0
18B	MC 10978	2.00 S	1.00 LB/AC	EP				
18C	SURFACTANT	.50 WA	.50 %	EP				
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	2	92	0
19B	MC 10978	2.00 S	.25 LB/AC	EP				
19C	CROP OIL	.00 AD	4.00 QT/AC	EP				
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	90	8	90	0
20B	MC 10978	2.00 S	.50 LB/AC	EP				
20C	CROP OIL	.00 AD	4.00 QT/AC	EP				
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	100	2	100	0
21B	MC 10978	2.00 S	.75 LB/AC	EP				
21C	CROP OIL	.00 AD	4.00 QT/AC	EP				
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	92	2	92	0
22B	DINOSB	3.00 E	.38 LB/AC	EP				
22C	BENTAZON	4.00 E	.50 LB/AC	EP				
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	98	0	98	0
23B	DINOSB	3.00 E	.19 LB/AC	EP				
23C	BENTAZON	4.00 E	.50 LB/AC	EP				
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	80	3	93	0
24B	DINOSB	3.00 E	.38 LB/AC	LP				
24C	BENTAZON	4.00 E	.50 LB/AC	LP				
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	83	3	87	0
25B	DINOSB	3.00 E	.19 LB/AC	LP				
25C	BENTAZON	4.00 E	.50 LB/AC	LP				
26A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	25	2	20	0
26B	ACIFLUORFEN	2.00 LCS	.38 LB/AC	EP				

TABLE 43.—Cocklebur Postemergence—Princeton (continued)

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	6/30	8/5		
					COCB	CRIN	COCB	CRIN
27A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	78	5	85	0
27B	ACIFLUORFEN	2.00 LCS	.50 LB/AC	EP				
28A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	98	8	98	0
28B	ACIFLUORFEN	2.00 LCS	.75 LB/AC	EP				
29A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	90	2	92	0
29B	ACIFLUORFEN	2.00 LCS	.38 LB/AC	EP				
29C	BENTAZON	4.00 E	.25 LB/AC	EP				
30A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	98	10	100	0
30B	ACIFLUORFEN	2.00 LCS	.38 LB/AC	EP				
30C	BENTAZON	4.00 E	.38 LB/AC	EP				
31A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	98	5	95	0
31B	ACIFLUORFEN	2.00 LCS	.50 LB/AC	EP				
31C	BENTAZON	4.00 E	.25 LB/AC	EP				
32A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	97	3	100	0
32B	ACIFLUORFEN	2.00 LCS	.50 LB/AC	EP				
32C	BENTAZON	4.00 E	.38 LB/AC	EP				
33	RH 0043	2.00 EC	1.00 LB/AC	PRE	78	8	70	0
34	RH 0043	2.00 EC	.06 LB/AC	EP	20	0	8	0
35	RH 0043	2.00 EC	.12 LB/AC	EP	90	8	95	0
36	RH 0043	2.00 EC	.25 LB/AC	EP	98	12	100	0
37	RH-0265	2.00 E	.06 LB/AC	EP	17	0	10	0
38	RH-0265	2.00 E	.12 LB/AC	EP	15	0	10	0
39	RH-0265	2.00 E	.25 LB/AC	EP	90	5	95	0
40	CHECK (UNCULTIVATED)	.00 CK	.00		0	0	0	0
				LSD(05):	8	9	13	1

TABLE 43.—Cocklebur Postemergence—Princeton (continued)

LOCATION:	PRINCETON, KY	SOIL TYPE:	CRIDER SILT LOAM
FERTILIZATION (LB/AC):	60 N, 60 P, 60 K	PH:	7.0 O.M.: 1.7%
DATE PLANTED:	MAY 22, 1980	DATE TREATED:	MAY 22, 1980 PRE
VARIETY:	WILLIAMS		MAY 27, 1980 CR
			JUNE 6, 1980 EP
JUNE 12, 1980	MP		
JUNE 14, 1980	LP		

TABLE 44.—Cocklebur Control Programs of Soybeans—Princeton

TRT NO	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	ROW SPACING	JUNE 27, 1980		AUGUST 6, 1980	
						COCB	CRIN	COCB	CRIN
1	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	0	0	0	0
2A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	0	0	0	0
2B	METRIBUZIN	50.00 WP	.38 LB/AC	Pre	32"				
3A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	0	0	60	0
3B	METRIBUZIN	50.00 WP	.38 LB/AC	Pre	32"				
3C	CULTIVATION	--	--	---	32"				
4A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	93	0	86	0
4B	METRIBUZIN	50.00 WP	.38 LB/AC	Pre	32"				
4C	BENTAZON	4.00 E	1.00 LB/AC	POE	32"				
4D	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	32"				
5A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	8"	97	0	96	0
5B	BENTAZON	4.00 E	1.00 LB/AC	POE	8"				
5C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	8"				
6A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	16"	100	0	96	0
6B	BENTAZON	4.00 E	1.00 LB/AC	POE	16"				
6C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	16"				
7A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	90	0	70	0
7B	BENTAZON	4.00 E	1.00 LB/AC	POE	32"				
7C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	32"				
8A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	8"	100	0	93	0
8B	BENTAZON	4.00 E	1.00 LB/AC	POE	8"				
8C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	8"				
8D	CULTIVATION	--	--	---	8"				
9A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	16"	100	0	97	0
9B	BENTAZON	4.00 E	1.00 LB/AC	POE	16"				
9C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	16"				
9D	CULTIVATION	--	--	---					

TABLE 44.—Cocklebur Control Programs of Soybeans—Princeton (Continued)

TRT NO	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	ROW SPACING	JUNE 27, 1980		AUGUST 6, 1980	
						COCB	CRIN	COCB	CRIN
10A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	100	0	78	0
10B	BENTAZON	4.00 E	1.00 LB/AC	POE	32"				
10C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	32"				
10D	CULTIVATION	--	--	---					
LSD (.05):						13.0	NS	12.0	NS

Location: Princeton
 Date Planted: May 28, 1980
 Variety: Williams

Soil Type: Crider Silt Loam
 PH 6.7 O.M. 1.6%
 Date Treated: May 27, 1980 PPI
 May 28, 1980 Pre
 June 12, 1980 POE
 June 28, 1980 Cultivation

TABLE 45.—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 DECEMBER 1, 1980.

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) 257-2668

CORN & SOYBEAN

YIELD RESULTS

1980

TABLE OF CONTENTS

	PAGE
TABLE 1	1
2	5
3	9
4	12
5	15
6	21
7	24
8	27
9	33
10	34
11	37
12	39
13	41
14	45
15	49
16	52
17	54
18	56
19	57
20	58
21	61
22	62

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 1 CORN PREEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---9/30/8	
					YLD	POP
1	ATRAZINE	4.00 L	2.00 LB/AC	PRE	135	23
2	ATRAZINE	90.00 WDG	2.00 LB/AC	PRE	154	23
3A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	153	23
3B	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
4A	ATRAZINE	90.00 WDG	1.50 LB/AC	PRE	148	22
4B	SIMAZINE	90.00 WDG	1.60 LB/AC	PRE		
5	CYANAZINE	4.00 L	3.00 LB/AC	PRE	135	22
6A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	153	23
6B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	145	22
7B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
8A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	145	22
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
8C	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
9A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	144	23
9B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
9C	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
10A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	147	22
10B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
10C	METALACHLOR	8.00 E	2.00 LB/AC	PRE		
11A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	145	21
11B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
11C	METALACHLOR	8.00 E	2.00 LB/AC	PRE		
12A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	153	23
12B	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE		
13	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	148	21
14	METALACHLOR	8.00 E	2.50 LB/AC	PRE	135	23
15	METALACHLOR	8.00 E	3.00 LB/AC	PRE	129	22
16A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	150	22
16B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 1 CORN PREEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---9/30/8	
					YLD	POP
17A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	115	22
17B	SIMAZINE	90.00 WDG	1.60 LB/AC	PRE		
18A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	148	23
18B	SIMAZINE	4.00 L	1.60 LB/AC	PRE		
19A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	144	21
19B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
20	ALACHLOR	4.00 E	2.50 LB/AC	PRE	144	22
21	ALACHLOR	4.00 E	3.00 LB/AC	PRE	135	21
22A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	145	21
22B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
22C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE		
23A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	125	21
23B	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE		
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	144	20
24B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
24C	METRIBUZIN 1	4.00 F	.25 LB/AC	PRE		
25A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	134	19
25B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
25C	METRIBUZIN 1	50.00 WP	.25 LB/AC	PRE		
26A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	145	21
26B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
27	CP 55097	8.00 EC	2.25 LB/AC	PRE	132	22
28A	CP 55097	8.00 EC	1.75 LB/AC	PRE	139	21
28B	ATRAZINE	4.00 L	1.40 LB/AC	PRE		
29A	CP 55097	8.00 EC	1.75 LB/AC	PRE	139	20
29B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
30A	M-4127	4.00 E	1.50 LB/AC	PRE	145	21
30B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
31	NC-23804	3.20 E	1.00 LB/AC	PRE	105	21
32	NC-23804	3.20 E	2.00 LB/AC	PRE	124	22

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 1. CORN PREEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---9/30/8	
					YLD	POP
33	NC-23804	3.20 E	3.00 LB/AC	PRE	134	22
34A	NC-23804	3.20 E	2.00 LB/AC	PRE	139	22
34B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
35	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	140	20
36	PENDIMETHALIN	4.00 E	2.00 LB/AC	PRE	144	20
37A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	132	20
37B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
37C	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
38A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	139	21
38B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
38C	SIMAZINE	4.00 L	1.00 LB/AC	PRE		
39A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	131	20
39B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
39C	SIMAZINE	4.00 L	1.00 LB/AC	PRE		
40A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	144	23
40B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
41	PPG-844	2.00 E	.75 LB/AC	PRE	130	22
42	PPG-844	2.00 E	1.50 LB/AC	PRE	137	22
43	PPG-225	3.00 E	1.00 LB/AC	PRE	123	22
44	PPG-225	3.00 E	2.00 LB/AC	PRE	142	22
45	SN-80786	4.00 E	2.00 LB/AC	PRE	54	12
46	SN-80786	4.00 E	3.00 LB/AC	PRE	39	10
47	SIMAZINE	4.00 L	2.00 LB/AC	PRE	154	23
48	CHECK (CULTIVATED)	.00 CK	.00		152	22
				LSO(05):	10	14

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TABLE 2 CORN PREPLANT INCORPORATED

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---10/2/8	
					YLD	POP
1	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PPI	139	22
2A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	125	22
2B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
3A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	142	22
3B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
3C	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
4A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	137	21
4B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
4C	ALACHLOR	4.00 E	2.00 LB/AC	PPI		
5A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	133	22
5B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
5C	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
6A	CYANAZINE	4.00 L	2.00 LB/AC	PPI	132	22
6B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
6C	METALACHLOR	8.00 E	2.00 LB/AC	PPI		
7A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	133	22
7B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
7C	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI		
8A	CYANAZINE	4.00 L	1.50 LB/AC	PPI	150	21
8B	ATRAZINE	4.00 L	1.00 LB/AC	PPI		
8C	EPTC + R25788	6.70 E	4.00 LB/AC	PPI		
9	METALACHLOR	8.00 E	2.50 LB/AC	PPI	68	22
10	METALACHLOR	8.00 E	3.00 LB/AC	PPI	95	21
11	METALACHLOR	8.00 E	4.00 LB/AC	PPI	97	21
12A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	150	22
12B	ATRAZINE	4.00 L	1.60 LB/AC	PPI		
13A	METALACHLOR	8.00 E	3.00 LB/AC	PPI	117	22
13B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
14A	EPTC	6.00	4.00	PPI	115	21
14B	R-33865	.50	.66	PPI		
14C	R-29148	.25	.17	PPI		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 2 CORN PREPLANT INCORPORATED

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/2/8	
					YLD	POP
15A	EPTC	6.00	6.00	PPI	130	20
15B	R-33865	.50	1.00	PPI		
15C	R-29148	.25	.25	PPI		
16A	EPTC + R25788	6.70 E	4.00 LB/AC	PPI	145	21
16B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
17A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	150	21
17B	WITH R-33865	.50	.33	PPI		
17C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
18A	EPTC PKG MIX	6.00 EC	6.00 LB/AC	PPI	147	21
18B	WITH R-33865	.50	.50	PPI		
18C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
19A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	142	22
19B	WITH R-33865	1.00	.67	PPI		
19C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
20A	EPTC PKG MIX	6.00 EC	6.00 LB/AC	PPI	45	22
20B	WITH R-33865	1.00	1.00	PPI		
20C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
21A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	134	21
21B	WITH R-33865	1.00	.67	PPI		
21C	CYANAZINE	4.00 L	2.00 LB/AC	PPI		
22A	EPTC + R25788	6.70 E	3.00 LB/AC	PPI	151	23
22B	VERNOLATE + R-25788	6.70 E	3.00 LB/AC	PPI		
22C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
23A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	150	24
23B	VERNOLATE + R-25788	6.70 E	3.00 LB/AC	PPI		
23C	ATRAZINE	4.00 L	1.60 LB/AC	PPI		
24A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	153	22
24B	EPTC + R25788	6.70 E	3.00 LB/AC	PPI		
24C	ATRAZINE	4.00 L	1.60 LB/AC	PPI		
25	ALACHLOR	4.00 E	2.50 LB/AC	PPI	85	21
26	ALACHLOR	4.00 E	3.00 LB/AC	PPI	107	21
27	ALACHLOR	4.00 E	4.00 LB/AC	PPI	104	22

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 2 CORN PREPLANT INCORPORATED

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/2/8	
					YLD	POP
28A	ALACHLOR	4.00 E	2.50 LB/AC	PPI	133	21
28B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
29A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	135	22
29B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
30	CP 55097	8.00 EC	2.50 LB/AC	PPI	105	20
31	CP 55097	8.00 EC	3.00 LB/AC	PPI	115	20
32A	CP 55097	8.00 EC	2.00 LB/AC	PPI	118	20
32B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
33	CP 55097	8.00 EC	4.00 LB/AC	PPI	108	20
34A	CP 55097	8.00 EC	2.00 LB/AC	PPI	124	20
34B	CYANAZINE	4.00 L	2.25 LB/AC	PPI		
35A	CP 55097	8.00 EC	3.00 LB/AC	PPI	130	19
35B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
36A	VERNOLATE+ PKG MIX	6.00 EC	4.00 LB/AC	PPI	140	23
36B	WITH R-33865	.50	.33	PPI		
36C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
37A	VERNOLATE+ PKG MIX	6.00 EC	4.00 LB/AC	PPI	145	23
37B	WITH R-33865	1.00	.67	PPI		
37C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
38A	VERNOLATE PKG MIX	6.00 EC	5.00 LB/AC	PPI	131	20
38B	WITH R-33865	.50	.50	PPI		
38C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
39A	VERNOLATE+ PKG MIX	6.00 EC	5.00 LB/AC	PPI	143	22
39B	WITH R-33865	1.00	1.00	PPI		
39C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
40A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	139	23
40B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
41A	BUTYLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	142	21
41B	WITH R-33865	.50	.33	PPI		
41C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
42A	BUTYLATE PKG MIX	6.00 EC	5.00 LB/AC	PPI	135	20
42B	WITH R-33865	.50	.50	PPI		
42C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 2 CORN PREPLANT INCORPORATED

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---10/2/8	
					YLD	POP
43A	BUTYLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	150	21
43B	WITH R-33865	1.00	.67	PPI		
43C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
44A	BUTYLATE PKG MIX	6.00 EC	6.00 LB/AC	PPI	155	21
44B	WITH R-33865	1.00	1.00	PPI		
44C	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
45	CHECK (CULTIVATED)	.00 CK	.00		155	21
LSD(05):					25	2

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K P+ 6.8 O.M.: 3.5%
 DATE PLANTED: MAY 6, 1980 DATE TREATED: MAY 6, 1980 PPI
 VARIETY: PIONEER 3369A
 HARVEST OCTOBER 2, 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 3 CORN POSTEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/1/8	
					YLD	POP
1A	ATRAZINE	4.00 L	.75 LB/AC	PRE	132	22
1B	AMETRYNE	80.00 WP	1.00 LB/AC	PD		
2A	ATRAZINE	4.00 L	2.00 LB/AC	MP	113	20
2B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
3	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	85	21
4A	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	73	21
4B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	POD		
5A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	139	22
5B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
5C	METRIBUZIN 1	4.00 F	.50 LB/AC	POD		
6A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	134	21
6B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
6C	METRIBUZIN 1	4.00 F	.38 LB/AC	POD		
6D	2,4-D AMINE	4.00 E	.50 LB/AC	POD		
7A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	131	22
7B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
7C	METRIBUZIN 1	4.00 F	.50 LB/AC	POD		
7D	2,4-D AMINE	4.00 E	.50 LB/AC	POD		
8	CYANAZINE	80.00 WP	2.00 LB/AC	EP	140	21
9	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	103	20
10A	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	73	20
10B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	POD		
11A	ATRAZINE	4.00 L	1.00 LB/AC	PRE	135	21
11B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
11C	METRIBUZIN 1	4.00 F	.38 LB/AC	POD		
12A	CYANAZINE	80.00 WP	3.00 LB/AC	EP	133	22
12B	SURFACTANT	.50 WA	.25 %	EP		
13A	ATRAZINE	4.00 L	1.00 LB/AC	EP	145	21
13B	CYANAZINE	80.00 WP	2.00 LB/AC	EP		
14A	ATRAZINE	4.00 L	1.00 LB/AC	EP	127	21
14B	CYANAZINE	80.00 WP	2.00 LB/AC	EP		
14C	SURFACTANT	.50 WA	.25 %	EP		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 3 CORN POSTEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/1/8	
					YLD	POP
15A	CYANAZINE	80.00 WP	2.00 LB/AC	EP	135	22
15B	ATRAZINE	4.00 L	.50 LB/AC	EP		
15C	DICAMBA	4.00 S	.25 LB/AC	EP		
16A	CYANAZINE	80.00 WP	2.00 LB/AC	EP	131	19
16B	ATRAZINE	4.00 L	1.00 LB/AC	EP		
16C	DICAMBA	4.00 S	.50 LB/AC	EP		
17	DICAMBA	4.00 S	.50 LB/AC	EP	105	21
18A	DICAMBA	4.00 S	.25 LB/AC	EP	115	21
18B	2,4-D AMINE	4.00 E	.50 LB/AC	EP		
19A	DICAMBA	4.00 S	.25 LB/AC	LP	98	21
19B	2,4-D AMINE	4.00 E	.50 LB/AC	LP		
20	2,4-D AMINE	4.00 E	.50 LB/AC	EP	108	21
21A	METALACHLOR	8.00 E	2.00 LB/AC	EP	135	19
21B	ATRAZINE	4.00 L	1.60 LB/AC	EP		
21C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
22A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	MP	125	22
22B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
23	PENDIMETHALIN	4.00 E	1.50 LB/AC	4LF	113	21
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	133	22
24B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
24C	PENDIMETHALIN	4.00 E	1.50 LB/AC	LP		
24D	ATRAZINE	4.00 L	1.50 LB/AC	LP		
25	NC-23804	3.20 E	1.00 LB/AC	EP	113	21
26	NC-23804	3.20 E	2.00 LB/AC	EP	114	21
27A	BENAZOLIN	3.00 E	.25 LB/AC	MP	107	22
27B	ATRAZINE	4.00 L	1.00 LB/AC	MP		
28A	BENAZOLIN	3.00 E	.19 LB/AC	MP	94	20
28B	DICAMBA	4.00 S	.15 LB/AC	MP		
29A	ATRAZINE	4.00 L	.75 LB/AC	PRE	107	20
29B	PPG-225	3.00 E	.50 LB/AC	POD		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 3 CORN POSTEMERGENCE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/1/8	
					YLD	POP
30A	ATRAZINE	4.00 L	.75 LB/AC	PRE	117	22
30B	PPG-225	3.00 E	1.00 LB/AC	POD		
31A	ATRAZINE	4.00 L	.75 LB/AC	PRE	120	19
31B	PPG-225	3.00 E	2.00 LB/AC	POD		
32	AXF-1124	45.00 WP	1.50 LB/AC	MP	119	21
33	AXF-1124	45.00 WP	3.00 LB/AC	MP	138	20
34	AXF-1125	5.25 EC	1.50 LB/AC	MP	114	22
35	AXF-1125	5.25 EC	3.00 LB/AC	MP	131	20
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	144	23
36B	BRMOXYNYL	2.00 E	.50 LB/AC	EP		
37A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	142	21
37B	BRMOXYNYL	2.00 E	.50 LB/AC	EP		
37C	ATRAZINE	4.00 L	2.00 LB/AC	EP		
38	CHECK (CULTIVATED)	.00 CK	.00		137	21
LS0(05):					44	5

LOCATION: SPINDLETOP FARM

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

DATE PLANTED: MAY 6, 1980

VARIETY: PIONEER 3369A

SOIL TYPE: MAURY SILT LOAM

PH: 6.8 D.M.: 3.4%

DATE TREATED: MAY 23 EP

MAY 29 MP

JUNE 5 LP

JUNE 5 PD, POD

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 4 NO-TILL CORN IN KILLED FESCUE SOD

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---9/29/8	
					YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	154	24
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE		
1C	SURFACTANT	.50 WA	.50 %	PRE		
2A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	165	23
2B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
2D	SURFACTANT	.50 WA	.50 %	PRE		
3A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	169	23
3B	SIMAZINE	4.00 L	1.50 LB/AC	PRE		
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
3D	SURFACTANT	.50 WA	.50 %	PRE		
4A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	155	23
4B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
4C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
4D	SURFACTANT	.50 WA	.50 %	PRE		
5A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	171	24
5B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE		
5C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
5D	SURFACTANT	.50 WA	.50 %	PRE		
6A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	174	23
6B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
6D	SURFACTANT	.50 WA	.50 %	PRE		
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	175	23
7B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
7C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
7D	SURFACTANT	.50 WA	.25 %	PRE		
8A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	175	24
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
8C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
8D	SURFACTANT	.50 WA	.25 %	PRE		
9A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	159	24
9B	PARAQUAT	2.00 E	.25 LB/AC	PRE		
9C	SURFACTANT	.50 WA	.25 %	PRE		
10A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	175	24
10B	SIMAZINE	4.00 L	1.60 LB/AC	PRE		
10C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 4 NO-TILL CORN IN KILLED FESCUE SOD

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---9/29/8	
					YLD	POP
11A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	150	22
11B	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
11C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
12A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	153	23
12B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
12C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
13A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	163	23
13B	ATRAZINE	4.00 L	2.00 LB/AC	PRE		
13C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
14A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	173	23
14B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
14C	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
14D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
15A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	165	23
15B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
15C	SIMAZINE	4.00 L	1.50 LB/AC	PRE		
15D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	158	22
16B	ATRAZINE	4.00 L	2.00 LB/AC	PRE		
16C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE		
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	154	22
17B	ATRAZINE	4.00 L	2.00 LB/AC	PRE		
17C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
18A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	170	22
18B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
18C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
19	MON 8001	3.83 E	3.83 LB/AC	PRE	145	22
20A	MON 8001	3.83 E	4.00 LB/AC	PRE	155	22
20B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
21A	MON 8001	3.83 E	5.00 LB/AC	PRE	152	23
21B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
22A	GLYPOSATE	1.48 E	1.48 LB/AC	PRE	160	22
22B	CP 55097	2.50 E	2.60 LB/AC	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 4 NO-TILL CORN IN KILLED FESCUE SOO

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>---7/29/8</u> <u>YLD</u> <u>POP</u>	
23A	GLYPOSATE	1.48 E	1.85 LB/AC	PRE	159	24
23B	CP 55097	2.60 E	3.25 LB/AC	PRE		
24A	GLYPOSATE	1.48 E	1.48 LB/AC	PRE	170	24
24B	CP 55097	2.60 E	2.60 LB/AC	PRE		
24C	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
LSD(05):					23	NS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 260 N, 60 P, 60 K P4: 6.4 U.M.: 4.0%
 DATE PLANTED: MAY 15 1980 DATE TREATED: MAY 15 1980 PRE
 VARIETY: PIONEER 3369A
 HARVEST OCTOBER 9 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 5 NO-TILL CORN IN STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---10/9/8	
					YLD	POP
1A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	175	24
1B	PARAQUAT	2.00 E	.25 LB/AC	PRE		
1C	SURFACTANT	.50 WA	.50 %	PRE		
2A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	161	24
2B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
2D	SURFACTANT	.50 WA	.50 %	PRE		
3A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	159	23
3B	SIMAZINE	4.00 L	1.50 LB/AC	PRE		
3C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
3D	SURFACTANT	.50 WA	.50 %	PRE		
4A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	159	23
4B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
4C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
4D	SURFACTANT	.50 WA	.50 %	PRE		
5A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	168	24
5B	SIMAZINE	80.00 WP	1.60 LB/AC	PRE		
5C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
5D	SURFACTANT	.50 WA	.50 %	PRE		
6A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	165	23
6B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
6D	SURFACTANT	.50 WA	.50 %	PRE		
7A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	169	26
7B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
7C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
7D	SURFACTANT	.50 WA	.25 %	PRE		
8A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	162	22
8B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
8C	METALACHLOR	8.00 E	2.00 LB/AC	PRE		
8D	PARAQUAT	2.00 E	.25 LB/AC	PRE		
8E	SURFACTANT	.50 WA	.25 %	PRE		
9A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	117	21
9B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
9C	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
9D	PARAQUAT	2.00 E	.25 LB/AC	PRE		
9E	SURFACTANT	.50 WA	.25 %	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 5 NO-TILL CORN IN STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---10/9/8	
					YLD	POP
10A	CYANAZINE	4.00 L	1.50 LB/AC	PRE	159	23
10B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
10C	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
10D	PARAQUAT	2.00 E	.25 LB/AC	PRE		
10E	SURFACTANT	.50 WA	.25 %	PRE		
11A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	159	23
11B	ATRAZINE	4.00 L	1.50 LB/AC	2WK		
11C	PARAQUAT	2.00 E	.25 LB/AC	2WK		
11D	SURFACTANT	.50 WA	.25 %	2WK		
12A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	164	22
12B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
12C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
12D	SURFACTANT	.50 WA	.25 %	PRE		
13A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	165	23
13B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
13C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
13D	SURFACTANT	.50 WA	.25 %	PRE		
14A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	159	23
14B	SIMAZINE	4.00 L	2.00 LB/AC	2WK		
14C	PARAQUAT	2.00 E	.25 LB/AC	2WK		
14D	SURFACTANT	.50 WA	.25 %	2WK		
15A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	142	22
15B	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
15C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
15D	SURFACTANT	.50 WA	.25 %	PRE		
16A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	152	22
16B	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
16C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
16D	SURFACTANT	.50 WA	.25 %	PRE		
17A	PENDIMETHALIN	4.00 E	1.50 LB/AC	2WK	151	26
17B	CYANAZINE	4.00 L	2.00 LB/AC	2WK		
17C	PARAQUAT	2.00 E	.25 LB/AC	2WK		
17D	SURFACTANT	.50 WA	.25 %	2WK		
18A	PENDIMETHALIN	4.00 E	1.50 LB/AC	PRE	155	22
18B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
18C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
18D	SURFACTANT	.50 WA	.50 %	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 5 NO-TILL CORN IN STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/9/8	
					YLD	POP
19A	PENDIMETHALIN	4.00 E	1.50 LB/AC	SPK	153	23
19B	CYANAZINE	4.00 L	2.00 LB/AC	PRE		
19C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
19D	SURFACTANT	.50 WA	.25 %	PRE		
20A	METALACHLOR + ATRAZI	4.50 F	3.60 LB/AC	PRE	152	22
20B	PARAQUAT	2.00 E	.25 LB/AC	PRE		
20C	SURFACTANT	.50 WA	.25 %	PRE		
21A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	175	24
21B	SIMAZINE	80.00 WP	1.50 LB/AC	PRE		
21C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
22A	ATRAZINE	4.00 L	2.00 LB/AC	PRE	131	18
22B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
22C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
23A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	146	24
23B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
23C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
24A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	124	17
24B	SIMAZINE	4.00 L	1.60 LB/AC	PRE		
24C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
25A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	172	23
25B	SIMAZINE	4.00 L	1.60 LB/AC	PRE		
25C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
26A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	156	22
26B	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
26C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
27A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	115	18
27B	ATRAZINE	4.00 L	1.60 LB/AC	PRE		
27C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
28A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	173	24
28B	ATRAZINE	4.00 L	2.00 LB/AC	PRE		
28C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
29A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	152	24
29B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
29C	SIMAZINE	4.00 L	2.00 LB/AC	PRE		
29D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 5 NO-TILL CORN IN STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/9/8	
					YLD	POP
30A	METALACHLOR	8.00 E	2.00 LB/AC	PRE	174	24
30B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
30C	SIMAZINE	4.00 L	1.50 LB/AC	PRE		
30D	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
31A	CYANAZINE	4.00 L	2.00 LB/AC	PRE	153	22
31B	ALACHLOR	4.00 E	2.50 LB/AC	PRE		
31C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
32A	CYANAZINE	4.00 L	3.00 LB/AC	PRE	167	22
32B	ATRAZINE	4.00 L	1.00 LB/AC	PRE		
32C	GLYPOSATE	4.00 E	2.00 LB/AC	PRE		
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	113	17
33B	ATRAZINE	4.00 L	2.00 LB/AC	PRE		
33C	GLYPOSATE	4.00 E	1.00 LB/AC	PRE		
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	165	25
34B	ATRAZINE	4.00 L	2.00 LB/AC	PRE		
34C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE		
35	MON 8001	3.83 E	3.83 LB/AC	PRE	144	22
36A	MON 8001	3.83 E	4.00 LB/AC	PRE	160	22
36B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
37A	MON 8001	3.83 E	3.00 LB/AC	PRE	123	20
37B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
38A	DICAMBA	4.00 S	.50 LB/AC	1WK	149	24
38B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
38C	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
38D	PARAQUAT	2.00 E	.25 LB/AC	PRE		
38E	SURFACTANT	.50 WA	.50 %	PRE		
39A	DICAMBA	4.00 S	.25 LB/AC	1WK	151	21
39B	2,4-D AMINE	4.00 E	.75 LB/AC	1WK		
39C	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
39D	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
39E	PARAQUAT	2.00 E	.25 LB/AC	PRE		
40A	DICAMBA	4.00 S	.50 LB/AC	PRE	173	25
40B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
40C	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
40D	PARAQUAT	2.00 E	.25 LB/AC	PRE		
40E	SURFACTANT	.50 WA	.50 %	PRE		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 5 NO-TILL CORN IN STALKLAND

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/9/8	
					YLD	POP
41A	DICAMBA	4.00 S	.25 LB/AC	PRE	171	24
41B	2,4-D AMINE	4.00 E	.75 LB/AC	PRE		
41C	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
41D	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
41E	PARAQUAT	2.00 E	.25 LB/AC	PRE		
42A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	164	23
42B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
42C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
42D	SURFACTANT	.50 WA	.50 %	PRE		
42E	DICAMBA	4.00 S	.50 LB/AC	LP		
43A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	181	26
43B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
43C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
43D	SURFACTANT	.50 WA	.50 %	PRE		
43E	DICAMBA	4.00 S	.25 LB/AC	MP		
44A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	160	23
44B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
44C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
44D	SURFACTANT	.50 WA	.50 %	PRE		
44E	2,4-D AMINE	4.00 E	.50 LB/AC	MP		
45A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	150	22
45B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
45C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
45D	SURFACTANT	.50 WA	.50 %	PRE		
45E	DICAMBA	4.00 S	.25 LB/AC	LP		
46A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	147	21
46B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
46C	PARAQUAT	2.00 E	.25 LB/AC	PRE		
46D	SURFACTANT	.50 WA	.50 %	PRE		
46E	DICAMBA	4.00 S	.25 LB/AC	POD		
47A	GLYPHOSATE	1.48 E	1.48 LB/AC	PRE	169	23
47B	CP 55097	2.60 E	2.60 LB/AC	PRE		
48A	GLYPHOSATE	1.48 E	1.98 LB/AC	PRE	158	24
48B	CP 55097	2.60 E	3.25 LB/AC	PRE		
			LS)(05):		NS	NS

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 5 NO-TILL CORN IN STALKLAND

LOCATION:	SPINDLETOP FARM	SOIL TYPE:	MAURY SILT LOAM
FERTILIZATION (LB/AC):	260 N, 60 P, 60 K	PH:	6.3 U.M.: 5.0%
DATE PLANTED:	MAY 15 1980	DATE TREATED:	MAY 1 1980 2WK
VARIETY:	PIIONEER 3359A		MAY 9 1980 1WK
			MAY 15 1980 PRE
MAY 23 1980	SPK		
MAY 29 1980	EP		
JUNE 6 1980	MP		
JUNE 9 1980	LP		
JULY 1 1980	POD		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 6 CORN YELLOW NJTSEGE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	9/29/80---	
					YLD	PDP
1	CP 55097	8.00 EC	2.25 LB/AC	PRE	129	21
2	CP 55097	8.00 EC	2.50 LB/AC	PPI	129	21
3	CP 55097	8.00 EC	3.00 LB/AC	PPI	121	21
4	CP 55097	8.00 EC	4.00 LB/AC	PPI	123	20
5	METALACHLOR	8.00 E	2.50 LB/AC	PRE	149	21
6	METALACHLOR	8.00 E	3.00 LB/AC	PRE	155	23
7	METALACHLOR	8.00 E	2.50 LB/AC	PPI	154	21
8	METALACHLOR	8.00 E	3.00 LB/AC	PPI	123	20
9	METALACHLOR	8.00 E	4.00 LB/AC	PPI	147	23
10A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	153	21
10B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
11A	METALACHLOR	8.00 E	2.50 LB/AC	PPI	145	22
11B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
12	ALACHLOR	4.00 E	3.00 LB/AC	PRE	135	21
13	ALACHLOR	4.00 E	3.00 LB/AC	PPI	147	20
14	ALACHLOR	4.00 E	4.00 LB/AC	PPI	143	22
15A	ALACHLOR	4.00 E	3.00 LB/AC	PRE	145	24
15B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
16A	ALACHLOR	4.00 E	4.00 LB/AC	PRE	141	22
16B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
17A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	157	21
17B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
18A	ALACHLOR	4.00 E	4.00 LB/AC	PPI	113	21
18B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
19A	EPTC + R25788	5.70 E	4.00 LB/AC	PPI	135	22
19B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 6 CORN YELLOW NJISEEDGE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	9/29/80---	
					YLD	PDP
20	NC 20484	4.00 E	.50 LB/AC	PRE	143	23
21	NC 20484	4.00 E	1.00 LB/AC	PRE	125	19
22	NC 20484	4.00 E	.50 LB/AC	PPI	159	21
23	NC 20484	4.00 E	1.00 LB/AC	PPI	124	16
24A	NC 20484	4.00 E	.50 LB/AC	PRE	155	21
24B	ATRAZINE	4.00 L	1.50 LB/AC	PRE		
25A	NC 20484	4.00 E	.50 LB/AC	PRE	142	21
25B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
26A	BENTAZON	4.00 E	.75 LB/AC	EP	144	23
26B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
27A	BENTAZON	4.00 E	.75 LB/AC	LP	109	20
27B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
28A	BENAZOLIN	3.00 E	.25 LB/AC	MP	125	22
28B	BENTAZON	4.00 E	.25 LB/AC	MP		
29A	BENAZOLIN	3.00 E	.38 LB/AC	MP	112	23
29B	BENTAZON	4.00 E	.25 LB/AC	MP		
30A	SN-80786	4.00 E	2.50 LB/AC	PPI	55	19
30B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
31A	SN-80786	4.00 E	3.00 LB/AC	PPI	59	18
31B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
32A	VERVOLATE + R-25788	6.70 E	4.00 LB/AC	PPI	139	24
32B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
33A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	155	23
33B	ATRAZINE	4.00 L	1.50 LB/AC	PPI		
34	CHECK (CULTIVATED)	.00 CK	.00		138	20
				LSD(05):	37	5

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 6 CORN YELLOW NITSEEDGE

LOCATION: SPINDLETOP FARM	SOIL TYPE: MAURY SILT LOAM
FERTILIZATION (LB/AC): 260 N, 60 P, 60 K	pH: 6.4 U.M.: 2.6%
DATE PLANTED: MAY 6 1980	DATE TREATED: MAY 6 1980 PPI,PRE
VARIETY: PIONEER 3369A	MAY 23 1980 EP
	MAY 29 1980 MP
JUNE 5 1980 LP	
HARVEST SEPTEMBER 29 1980	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 7 SOYBEAN YELLOW NUTSEDGE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>---9/26/8</u> <u>YLD</u>
1	DIETHATYL	4.00 E	3.00 LB/AC	PRE	29
2	DIETHATYL	4.00 E	3.00 LB/AC	PRE	35
3	DIETHATYL	4.00 E	3.00 LB/AC	PRE	31
4	DIETHATYL	4.00 E	3.00 LB/AC	PPI	21
5	DIETHATYL	4.00 E	3.00 LB/AC	PPI	25
6	DIETHATYL	4.00 E	3.00 LB/AC	PPI	25
7	ALACHLOR	4.00 E	3.00 LB/AC	PRE	34
8	ALACHLOR	4.00 E	4.00 LB/AC	PRE	37
9	ALACHLOR	4.00 E	3.00 LB/AC	PPI	37
10	ALACHLOR	4.00 E	4.00 LB/AC	PPI	35
11	METALACHLOR	8.00 E	2.50 LB/AC	PRE	33
12	METALACHLOR	8.00 E	3.00 LB/AC	PRE	35
13	METALACHLOR	8.00 E	4.00 LB/AC	PRE	38
14	METALACHLOR	8.00 E	2.50 LB/AC	PPI	35
15	METALACHLOR	8.00 E	3.00 LB/AC	PPI	35
16	METALACHLOR	8.00 E	4.00 LB/AC	PPI	39
17	CP 55097	8.00 EC	2.25 LB/AC	PRE	34
18	CP 55097	8.00 EC	2.50 LB/AC	PRE	39
19	CP 55097	8.00 EC	3.00 LB/AC	PPI	30
20	CP 55097	8.00 EC	2.50 LB/AC	PPI	30
21	S-734	75.00 WP	.50 LB/AC	PPI	33
22	S-734	75.00 WP	.75 LB/AC	PPI	35
23	S-734	75.00 WP	1.00 LB/AC	PPI	35

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 7 SOYBEAN YELLOW NUTSEGE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>---</u> 9/26/8 <u>YLD</u>
24	S-734	75.00 WP	1.25 LB/AC	PPI	35
25	S-734	75.00 WP	1.50 LB/AC	PPI	35
26A	S-734	75.00 WP	.50 LB/AC	PPI	40
26B	BENTAZON	4.00 E	.75 LB/AC	EP	
26C	OIL CONCENTRATE	.00 AD	1.00 QT/AC		
27A	S-734	75.00 WP	.75 LB/AC	PPI	38
27B	BENTAZON	4.00 E	.75 LB/AC	EP	
27C	CHLORAMBEN	2.00 E	1.00 LB/AC		
28A	METALACHLOR	8.00 E	2.00 LB/AC	PPI	33
28B	RH-8817	2.00 E	1.00 LB/AC	PPI	
29	MBR 22359	2.00 E	1.00 LB/AC	PRE	28
30	MBR 22359	2.00 E	2.00 LB/AC	PRE	33
31	MBR 22359	2.00 E	3.00 LB/AC	PRE	34
32A	ALACHLOR	4.00 E	3.00 LB/AC	PPI	34
32B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
33A	ALACHLOR	4.00 E	4.00 LB/AC	PPI	33
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
34A	SN-80786	4.00 E	2.50 LB/AC	PPI	32
34B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI	
35A	SN-80786	4.00 E	3.50 LB/AC	PPI	33
35B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PPI	
36	VERNOLATE	7.00 E	2.50 LB/AC	PPI	34
37	VERNOLATE	7.00 E	3.00 LB/AC	PPI	33
38A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	34
38B	WITH R-33865	.50	.21	PPI	
39A	VERNOLATE PKG MIX	6.00 EC	3.00 LB/AC	PPI	39
39B	WITH R-33865	.50	.25	PPI	
40A	VERNOLATE PKG MIX	6.00 EC	2.50 LB/AC	PPI	35
40B	WITH R-33865	1.00	.42	PPI	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 7 SOYBEAN YELLOW NUTSEDGE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>MEIH</u>	<u>---9/26/8</u> <u>YLD</u>
41A	VERNOLATE+ PKG MIX	6.00 EC	3.00 LB/AC	PPI	32
41B	WITH R-33865	1.00	3.00	PPI	
42	BENTAZON	4.00 E	.75 LB/AC	EP	29
43A	BENTAZON	4.00 e	.75 LB/AC	EP	33
43B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP	
44	CHECK (CULTIVATED)	.00 CK	.00		35
LSD(05):					10

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

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

PH: 5.4 U.M.: 2.6%

DATE PLANTED: MAY 14 1980

DATE TREATED: MAY 14 1980 PPI,PRE

VARIETY: WILLIAMS

JUNE 5 1980 EP

HARVEST SEPTEMBER 25 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	-10/22/8 YLD.
1A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	29
1B	LINURON	4.00 L	.75 LB/AC	PRE	
1C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
1D	SURFACTANT	.50 WA	.50 %	PRE	
2A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	21
2B	LINURON	75.00 DF	.75 LB/AC	PRE	
2C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
2D	SURFACTANT	.50 WA	.25 %	PRE	
3A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	24
3B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	
3C	PARAQUAT	2.00 E	.50 LB/AC	PRE	
3D	SURFACTANT	.50 WA	.25 %	PRE	
4A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	22
4B	METRIBUZIN 2	4.00 L	.38 LB/AC	PRE	
4C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
5A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	24
5B	PARAQUAT	2.00 E	.25 LB/AC	PRE	
5C	SURFACTANT	.50 WA	.25 %	PRE	
6A	PENDIMETHALIN	4.00 E	1.00 LB/AC	PRE	26
6B	METRIBUZIN 1	4.00 F	.38 LB/AC	PRE	
6C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
6D	SURFACTANT	.50 WA	.25 %	PRE	
7A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	24
7B	PARAQUAT	2.00 E	.25 LB/AC	PRE	
7C	SURFACTANT	.50 WA	.50 %	PRE	
8A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	26
8B	METALACHLOR	8.00 E	2.50 LB/AC	PRE	
8C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
8D	SURFACTANT	.50 WA	.50 %	PRE	
9A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	19
9B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	
9C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
9D	SURFACTANT	.50 WA	.50 %	PRE	
10A	EL-5219	3.00 EC	.94 LB/AC	PRE	28
10B	METRIBUZIN 1 OR 2	50.00 AP	.38 LB/AC	PRE	
10C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
10D	SURFACTANT	.50 WA	.50 %	PRE	

TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	--10/22/8 YLD
11A	EL-S219	3.00 EC	1.13 LB/AC	PRE	22
11B	METRIBUZIN 1 OR 2	50.00 WP	.33 LB/AC	PRE	
11C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
11D	SURFACTANT	.50 WA	.25 %	PRE	
12A	ORYZALIN	75.00 WP	1.00 LB/AC	PRE	24
12B	METRIBUZIN 1 OR 2	50.00 WP	.38 LB/AC	PRE	
12C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
12D	SURFACTANT	.50 WA	.50 %	PRE	
13A	BIFENOX	4.00 F	1.00 LB/AC	PRE	24
13B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
13C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
13D	SURFACTANT	.50 WA	.25 %	PRE	
14A	BIFENOX	4.00 F	2.00 LB/AC	PRE	23
14B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
14C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
14D	SURFACTANT	.50 WA	.25 %	PRE	
15A	BIFENOX	4.00 F	1.00 LB/AC	PRE	27
15B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	
15C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
15D	SURFACTANT	.50 WA	.25 %	PRE	
16A	BIFENOX	4.00 F	2.00 LB/AC	PRE	19
16B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	
16C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
16D	SURFACTANT	.50 WA	.25 %	PRE	
17A	BENAZOLIN	3.00 E	.13 LB/AC	MP	19
17B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
17C	PARAQUAT	2.00 E	.13 LB/AC	PRE	
17D	SURFACTANT	.50 WA	.25 %	PRE	
18A	BENAZOLIN	3.00 E	.25 LB/AC	MP	21
18B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
18C	PARAQUAT	2.00 E	.13 LB/AC	PRE	
18D	SURFACTANT	.50 WA	.25 %	PRE	
19A	BENAZOLIN	3.00 E	.13 LB/AC	MP	21
19B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
19C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE	
20A	BENAZOLIN	3.00 E	.25 LB/AC	MP	19
20B	BENTAZON	4.00 E	.25 LB/AC		

TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>10/22/8</u> <u>YLD</u>
21A	BENAZOLIN	3.00 E	.25 LB/AC	MP	20
21B	BENTAZON	4.00 E	.38 LB/AC	MP	
22A	BENAZOLIN	3.00 E	.25 LB/AC	MP	20
22B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
22C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE	
23A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	23
23B	LINURON	4.00 L	.75 LB/AC	PRE	
23C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
24A	ALACHLOR	4.00 E	2.00 LB/AC	PRE	25
24B	LINURON	75.00 DF	.75 LB/AC	PRE	
24C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	22
25B	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE	
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	25
25B	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
27A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	21
27B	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE	
28A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	24
28B	LINURON	4.00 L	1.00 LB/AC	PRE	
28C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE	
29A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	25
29B	LINURON	4.00 L	1.00 LB/AC	PRE	
29C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
30A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	23
30B	LINURON	4.00 L	1.00 LB/AC	PRE	
30C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE	
31A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	21
31B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
31C	GLYPHOSATE	4.00 E	1.00 LB/AC	PRE	
32A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	25
32B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
32C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	25
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
33C	GLYPHOSATE	4.00 E	2.00 LB/AC	PRE	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--10/22/8 YLD
34	MON 8001	3.83 E	3.83 LB/AC	PRE	24
35A	MON 8001	3.83 E	4.00 LB/AC	PRE	27
35B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
36A	MON 8001	3.83 E	4.00 LB/AC	PRE	23
36B	LINURON	4.00 L	1.00 LB/AC	PRE	
37A	MON 8001	3.83 E	5.00 LB/AC	PRE	25
37B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
38A	MON 8001	3.83 E	5.00 LB/AC	PRE	28
38B	LINURON	4.00 L	1.00 LB/AC	PRE	
39A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	23
39B	GLYPOSATE	4.00 E	1.50 LB/AC	PRE	
40A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	32
40B	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	
40C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE	
41A	OXYFLUORFEN	2.00 E	.50 LB/AC	PRE	28
41B	DRYZALIN	4.00 AS	1.00 LB/AC	PRE	
41C	GLYPOSATE	4.00 E	1.50 LB/AC	PRE	
42A	BAS 9052	1.53 EC	.75 LB/AC	MP	21
42B	BENTAZON	4.00 E	.75 LB/AC	MP	
42C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP	
42D	PARAQUAT	2.00 E	.25 LB/AC	PRE	
42E	SURFACTANT	.50 WA	.25 %	PRE	
43A	BAS 9052	1.53 EC	.75 LB/AC	MP	23
43B	BENTAZON	4.00 E	.75 LB/AC	MP	
43C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP	
44A	BAS 9052	1.53 EC	1.00 LB/AC	MP	24
44B	BENTAZON	4.00 E	1.00 LB/AC	MP	
44C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP	
45A	BAS 9052	1.53 EC	.75 LB/AC	PRE	20
45B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	PRE	
45C	BAS 9052	1.53 EC	.75 LB/AC	MP	
45D	BENTAZON	4.00 E	1.00 LB/AC	MP	
45E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>--10/22/8</u> <u>YLD</u>
46A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	27
46B	LINURON	4.00 L	1.00 LB/AC	PRE	
46C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
46D	SURFACTANT	.50 WA	.25 %	PRE	
47A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	24
47B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
47C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
47D	SURFACTANT	.50 WA	.25 %	PRE	
48A	BROMOXNYL	2.00 E	.50 LB/AC	PRE	23
48B	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	
48C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
48D	SURFACTANT	.50 WA	.25 %	PRE	
49A	BROMOXNYL	2.00 E	.50 LB/AC	PRE	24
49B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
49C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
49D	SURFACTANT	.50 WA	.25 %	PRE	
50A	BROMOXNYL	2.00 E	.50 LB/AC	PRE	22
50B	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	
50C	LINURON	4.00 L	1.00 LB/AC	PRE	
51A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	25
51B	LINURON	4.00 L	1.00 LB/AC	PRE	
51C	GLYPHOSATE	4.00 E	1.50 LB/AC	PRE	
52A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	23
52B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
52C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
52D	SURFACTANT	.50 WA	.25 %	PRE	
53A	CHLORAMBEN	2.00 E	2.50 LB/AC	PRE	24
53B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	
53C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
53D	SURFACTANT	.50 WA	.25 %	PRE	
54A	LINURON	4.00 L	1.00 LB/AC	PRE	22
54B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	
54C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
54D	SURFACTANT	.50 WA	.25 %	PRE	
55A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	20
55B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
55C	PC-671	.00 AD	1.00 QT/AC	PRE	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 8 NO-TILL SOYBEANS IN WHEAT STUBBLE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METHOD</u>	<u>YLD</u> <u>10/22/8</u>
56A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	25
56B	METRIBUZIN 1 OR 2	50.00 WP	.75 LB/AC	PRE	
56C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
56D	PARAQUAT	2.00 E	.25 LB/AC	PRE	
56E	SURFACTANT	.50 WA	.25 %	PRE	
57A		.00 CK	.00		
57B		.00 CK	.00		
57C		.00 CK	.00		
57D		.00 CK	.00		
58A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	22
58B	PARAQUAT	2.00 E	.25 LB/AC	PRE	
58C	SURFACTANT	.50 WA	.25 %	PRE	
59A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	25
59B	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
59C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
59D	SURFACTANT	.50 WA	.25 %	PRE	
60A	METRIBUZIN 1	75.00 SPR	.38 LB/AC	PRE	25
60B	METALACHLOR	8.00 E	2.00 LB/AC	PRE	
60C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
60D	SURFACTANT	.50 WA	.25 %	PRE	

LSD(05): 8

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

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

pH: 5.6 O.M.: 4.0%

DATE PLANTED: JULY 3 1980

DATE TREATED: JULY 3 1980 PRE

VARIETY: WILLIAMS

JULY 15 1980 MP

HARVEST OCTOBER 22 1980

TABLE 9 SOYBEAN RELAY CROPPING IN STANDING WHEAT

<u>TRT</u>	<u>CHEMICAL</u>	<u>FORMULA</u>	<u>RATE</u>	<u>METH</u>	<u>%LODGED</u>	<u>WHEAT YLD</u>	<u>SOYBEAN YLD</u>
1.	PENDIMETHALIN	4.00 E	1.00	JNT	0.0	34.4	18.0
2.	PENDIMETHALIN	4.00 E	2.00	JNT	0.0	40.6	18.3
3.	PENDIMETHALIN	4.00 E	1.00	FUT	0.0	35.5	16.0
4.	PENDIMETHALIN	4.00 E	2.00	FUT	0.0	34.3	21.0
5.	ORYZALIN	4.00 AS	1.33	FUT	85.0	26.1	19.3
6.	ORYZALIN	4.00 AS	2.66	FUT	35.0	23.7	19.3
7.	S-734	75.0 WP	1.00	TIL	7.5	22.3	14.3
8.	S-734	75.0 WP	1.50	TIL	10.0	22.4	11.0
9.	EL-5219	3.00 EC	0.94	JNT	5.0	37.4	18.3
10.	EL-5219	3.00 EC	0.13	JNT	0.0	37.8	16.8
11.	EL-5219	3.00 EC	0.94	TIL	7.5	29.6	17.8
12.	EL-5219	3.00 EC	0.13	TIL	60.0	28.6	20.0
13.	CHECK + SOYBEAN				0.0	38.8	12.3
14.	CHECK (WHEAT ONLY)				0.0	55.3	N/A
				LSD .05:	34	10	6

LOCATION: SPINDLETOP FARM

VARIETIES: "OASIS" WHEAT

"WILLIAMS" SOYBEANS

SOIL TYPE: MAURY SILT LOAM

PH: 6.5

O.M.: 4.0%

DATE PLANTED: MAY 9, 1980

DATES TREATED: JNT; MAY 1, 1980

TIL: APRIL 10, 1980

DATE HARVESTED: WHEAT; JULY 1, 1980

SOYBEANS; OCTOBER 23, 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 10 DONCO 356

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/7/8	
					YLD	POP
1	M-4127	4.00 E	1.50 LB/AC	EP	35	19
2	M-4127	4.00 E	1.50 LB/AC	MP	20	17
3	M-4127	4.00 E	1.50 LB/AC	LP	11	18
4A	M-4127	4.00 E	1.50 LB/AC	EP	57	18
4B	ATRAZINE	4.00 L	1.50 LB/AC	EP		
5A	M-4127	4.00 E	1.50 LB/AC	MP	54	19
5B	ATRAZINE	4.00 L	1.50 LB/AC	MP		
6A	MEIRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	14	16
6B	PC-671	.00 AD	8.00 QT/AC	PPI		
7A	M-4127	4.00 E	1.25 LB/AC	EP	79	20
7B	ATRAZINE	4.00 L	1.50 LB/AC	EP		
8A	M-4127	4.00 E	1.25 LB/AC	MP	53	17
8B	ATRAZINE	4.00 L	1.50 LB/AC	MP		
9A	M-4127	4.00 E	1.25 LB/AC	LP	17	17
9B	ATRAZINE	4.00 L	1.50 LB/AC	LP		
10A	M-4127	4.00 E	1.00 LB/AC	EP	59	18
10B	ATRAZINE	4.00 L	1.50 LB/AC	EP		
11A	M-4127	4.00 E	1.00 LB/AC	MP	57	17
11B	ATRAZINE	4.00 L	1.50 LB/AC	MP		
12A	M-4127	4.00 E	1.00 LB/AC	LP	20	18
12B	ATRAZINE	4.00 L	1.50 LB/AC	LP		
13A	M-4127	4.00 E	1.50 LB/AC	EP	52	18
13B	ATRAZINE	4.00 L	1.00 LB/AC	EP		
14A	M-4127	4.00 E	1.50 LB/AC	MP	41	18
14B	ATRAZINE	4.00 L	1.00 LB/AC	MP		
15A	M-4127	4.00 E	1.50 LB/AC	LP	17	17
15B	ATRAZINE	4.00 L	1.00 LB/AC	LP		
16A	M-4127	4.00 E	1.50 LB/AC	EP	54	18
16B	ATRAZINE	4.00 L	.75 LB/AC	EP		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 10 JOHNCO 356

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/7/8	
					YLD	POP
17A	M-4127	4.00 E	1.50 LB/AC	MP	57	19
17B	ATRAZINE	4.00 L	.75 LB/AC	MP		
18A	M-4127	4.00 E	1.50 LB/AC	LP	24	17
18B	ATRAZINE	4.00 L	.75 LB/AC	LP		
19A	M-4127	4.00 E	1.50 LB/AC	EP	59	18
19B	CYANAZINE	80.00 WP	1.50 LB/AC	EP		
20A	M-4127	4.00 E	1.50 LB/AC	MP	35	20
20B	CYANAZINE	80.00 WP	1.50 LB/AC	MP		
21A	M-4127	4.00 E	1.50 LB/AC	LP	13	17
21B	CYANAZINE	80.00 WP	1.50 LB/AC	LP		
22A	M-4127	4.00 E	1.50 LB/AC	EP	54	17
22B	2,4-D AMINE	4.00 E	.40 LB/AC	EP		
23A	M-4127	4.00 E	1.50 LB/AC	MP	21	16
23B	2,4-D AMINE	4.00 E	.40 LB/AC	MP		
24A	M-4127	4.00 E	1.50 LB/AC	LP	15	15
24B	2,4-D AMINE	4.00 E	.40 LB/AC	LP		
25A	ATRAZINE	4.00 L	2.00 LB/AC	EP	62	19
25B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP		
26A	ATRAZINE	4.00 L	2.00 LB/AC	MP	17	16
26B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	MP		
27A	ATRAZINE	4.00 L	2.00 LB/AC	LP	14	17
27B	OIL CONCENTRATE	.00 AD	1.00 QT/AC	LP		
28	CYANAZINE	80.00 WP	2.00 LB/AC	EP	42	20
29	CYANAZINE	80.00 WP	2.00 LB/AC	MP	17	17
30	CYANAZINE	80.00 WP	2.00 LB/AC	LP	11	14
31A	ATRAZINE	4.00 L	1.50 LB/AC	PRE	64	18
31B	ALACHLOR	4.00 E	2.00 LB/AC	PRE		
32	CHECK (CULTIVATED)	.00 CK	.00		25	17
33	CHECK (UNCULTIVATED)	.00 CK	.00		44	16
				LSD(05):	32	6

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 10 JONCO 356

LOCATION:	SOUTH FARM	SOIL TYPE:	MAURY SILT LOAM
FERTILIZATION (LB/AC):	60 N, 60 P, 60 K	PH:	5.6 U.M.: 3.5%
DATE PLANTED:	MAY 7 1980	DATE TREATED:	MAY 12 1980 PRE
VARIETY:	PIONEER 3359A		MAY 21 1980 EP
			MAY 28 1980 MP

JUNE 2 1980 LP
ADD 1 OZ/C M-4168 + 1 PT/AC M-4489 TRTS 1/18
HARVEST OCTOBER 7 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 11 SOYBEAN PROTECTANT TRACY PPI

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>MEIN</u>	<u>YLD</u> --11/14/8
1A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	33
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
1C	PC-671	.00 AD	1.00 QT/AC	PPI	
2A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	41
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
2C	PC-671	.00 AD	1.00 QT/AC	PPI	
3A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	34
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
3C	PC-671	.00 AD	2.00 QT/AC	PPI	
4A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	39
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
4C	PC-671	.00 AD	2.00 QT/AC	PPI	
5A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	40
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
5C	PC-671	.00 AD	4.00 QT/AC	PPI	
6A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	34
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
6C	PC-671	.00 AD	4.00 QT/AC	PPI	
7A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	37
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
7C	PC-671	.00 AD	8.00 QT/AC	PPI	
8A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	38
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
8C	PC-671	.00 AD	8.00 QT/AC	PPI	
9A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	41
9B	PC-671	.00 AD	1.00 QT/AC	PPI	
10A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	35
10B	PC-671	.00 AD	1.00 QT/AC	PPI	
11A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	37
11B	PC-671	.00 AD	2.00 QT/AC	PPI	
12A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	37
12B	PC-671	.00 AD	2.00 QT/AC	PPI	
13A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	35
13B	PC-671	.00 AD	4.00 QT/AC	PPI	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 11 SOYBEAN PROTECTANT TRACY PPI

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--11/14/8 YLD.
14A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	25
14B	PC-671	.00 AD	4.00 OT/AC	PPI	
15A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	40
15B	PC-671	.00 AD	3.00 OT/AC	PPI	
16A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	40
16B	PC-671	.00 AD	3.00 OT/AC	PPI	
17A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	42
17B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
18A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	55
18B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
19	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	37
20	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	40
21	CHECK (CULTIVATED)	.00 CK	.00		21
LSD(05):					17

LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K P4: 5.0 O.M.: 2.8%
 DATE PLANTED: MAY 8 1980 DATE TREATED: MAY 8 1980 PPI
 VARIETY: TRACY
 HARVEST NOVEMBER 14 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 12 SOYBEAN PROTECTANT WILLIAMS PPI

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>--10/15/8</u> <u>YLD</u>
1A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	55
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
1C	PC-671	.00 AD	1.00 QT/AC	PPI	
2A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	53
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
2C	PC-671	.00 AD	1.00 QT/AC	PPI	
3A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	55
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
3C	PC-671	.00 AD	2.00 QT/AC	PPI	
4A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	57
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
4C	PC-671	.00 AD	2.00 QT/AC	PPI	
5A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	53
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
5C	PC-671	.00 AD	4.00 QT/AC	PPI	
6A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	53
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
6C	PC-671	.00 AD	4.00 QT/AC	PPI	
7A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	55
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
7C	PC-671	.00 AD	5.00 QT/AC	PPI	
8A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	61
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
8C	PC-671	.00 AD	8.00 QT/AC	PPI	
9A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	57
9B	PC-671	.00 AD	1.00 QT/AC	PPI	
10A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	49
10B	PC-671	.00 AD	1.00 QT/AC	PPI	
11A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	53
11B	PC-671	.00 AD	2.00 QT/AC	PPI	
12A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	51
12B	PC-671	.00 AD	2.00 QT/AC	PPI	
13A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	55
13B	PC-671	.00 AD	4.00 QT/AC	PPI	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 12 SOYBEAN PROTECTANT WILLIAMS PPI

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>YLD</u> --10/15/8
14A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	47
14B	PC-671	.00 AD	4.00 QT/AC	PPI	
15A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	61
15B	PC-671	.00 AD	8.00 QT/AC	PPI	
16A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	58
16B	PC-671	.00 AD	8.00 QT/AC	PPI	
17A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	63
17B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	
18A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	55
18B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	
19	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PPI	55
20	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PPI	57
21	CHECK (CULTIVATED)	.00 CK	.00		31
LSD(05):					11

LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K P4: 5.0 U.M.: 2.8%
 DATE PLANTED: MAY 8 1980 DATE TREATED: MAY 8 1980 PPI
 VARIETY: WILLIAMS
 HARVEST OCTOBER 16 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 13 SOYBEAN PROTECTANT TRACY PRE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--11/14/8 YLD
1A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
1C	PC-671	.00 AD	1.00 QT/AC	PRE	
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	27
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
2C	PC-671	.00 AD	1.00 QT/AC	PRE	
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	32
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
3C	PC-671	.00 AD	2.00 QT/AC	PRE	
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	32
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
4C	PC-671	.00 AD	2.00 QT/AC	PRE	
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	39
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
5C	PC-671	.00 AD	4.00 QT/AC	PRE	
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	32
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
6C	PC-671	.00 AD	4.00 QT/AC	PRE	
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	32
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
7C	PC-671	.00 AD	3.00 QT/AC	PRE	
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	27
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
8C	PC-671	.00 AD	3.00 QT/AC	PRE	
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	37
9B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
9C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	31
10B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
10C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	40
11B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
11C	ARD 1675	.00 WA	1.00 %	PRE	
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
12B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
12C	ARD 1675	.00 WA	1.00 %	PRE	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 13 SOYBEAN PROTECTANT TRACY PRE

<u>TRI</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>--11/14/8</u> <u>YLD</u>
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	33
13B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
13C	ARD 1714	.00 WA	1.00 %	PRE	
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
14B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
14C	ARD 1714	.00 WA	1.00 %	PRE	
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	39
15B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
15C	ARD 1680	.00 WA	1.00 %	PRE	
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	39
16B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
16C	ARD 1680	.00 WA	1.00 %	PRE	
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
17B	EL-171	4.00 EC	.15 LB/AC	PRE	
17C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	37
18B	EL-171	4.00 EC	.30 LB/AC	PRE	
18C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
19B	EL-171	4.00 EC	.15 LB/AC	PRE	
19C	ARD 1675	.00 WA	1.00 %	PRE	
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	34
20B	EL-171	4.00 EC	.30 LB/AC	PRE	
20C	ARD 1675	.00 WA	1.00 %	PRE	
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
21B	EL-171	4.00 EC	.15 LB/AC	PRE	
21C	ARD 1714	.00 WA	1.00 %	PRE	
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
22B	EL-171	4.00 EC	.30 LB/AC	PRE	
22C	ARD 1714	.00 WA	1.00 %	PRE	
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	37
23B	EL-171	4.00 EC	.15 LB/AC	PRE	
23C	ARD 1680	.00 WA	1.00 %	PRE	
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	38
24B	EL-171	4.00 EC	.30 LB/AC	PRE	
24C	ARD 1680	.00 WA	1.00 %	PRE	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 13 SOYBEAN PROTECTANT TRACY PRE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METH</u>	<u>--11/14/8</u> <u>YLD.</u>
25A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	35
25B	PC-671	.00 AD	1.00 QT/AC	PRE	
26A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	29
26B	PC-671	.00 AD	1.00 QT/AC	PRE	
27A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	38
27B	PC-671	.00 AD	2.00 QT/AC	PRE	
28A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	29
28B	PC-671	.00 AD	2.00 QT/AC	PRE	
29A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	35
29B	PC-671	.00 AD	4.00 QT/AC	PRE	
30A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	34
30B	PC-671	.00 AD	4.00 QT/AC	PRE	
31A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	37
31B	PC-671	.00 AD	3.00 QT/AC	PRE	
32A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	32
32B	PC-671	.00 AD	3.00 QT/AC	PRE	
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	35
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	38
34B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
35A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	40
35B	EL-171	4.00 EC	.15 LB/AC	PRE	
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	38
36B	EL-171	4.00 EC	.30 LB/AC	PRE	
37	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	34
38	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	32
39	CHECK (CULTIVATED)	.00 CK	.00		39
				LSD(05):	15

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 13 SOYBEAN PROTECTANT TRACY PRE

LOCATION: SOUTH 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 8 1980 DATE TREATED: MAY 8 1980 PRE
VARIETY: TRACY
HARVEST NOVEMBER 14 1980

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 14 SOYBEAN PROTECTANT WILLIAMS PRE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--10/16/8 YLD.
1A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	55
1B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
1C	PC-671	.00 AD	1.00 QT/AC	PRE	
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	50
2B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
2C	PC-671	.00 AD	1.00 QT/AC	PRE	
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	51
3B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
3C	PC-671	.00 AD	2.00 QT/AC	PRE	
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	55
4B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
4C	PC-671	.00 AD	2.00 QT/AC	PRE	
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	57
5B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
5C	PC-671	.00 AD	4.00 QT/AC	PRE	
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	53
6B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
6C	PC-671	.00 AD	4.00 QT/AC	PRE	
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	55
7B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
7C	PC-671	.00 AD	3.00 QT/AC	PRE	
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	51
8B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
8C	PC-671	.00 AD	3.00 QT/AC	PRE	
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	51
9B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
9C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	57
10B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
10C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	55
11B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
11C	ARD 1675	.00 WA	1.00 %	PRE	
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	52
12B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
12C	ARD 1675	.00 WA	1.00 %	PRE	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 14 SOYBEAN PROTECTANT WILLIAMS PRE

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	YLD
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	57
13B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
13C	ARD 1714	.00 WA	1.00 %	PRE	
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	57
14B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
14C	ARD 1714	.00 WA	1.00 %	PRE	
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	55
15B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
15C	ARD 1680	.00 WA	1.00 %	PRE	
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	58
16B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
16C	ARD 1680	.00 WA	1.00 %	PRE	
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	52
17B	EL-171	4.00 EC	.15 LB/AC	PRE	
17C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	57
18B	EL-171	4.00 EC	.30 LB/AC	PRE	
18C	ARD 54 (SURFACTANT)	.00 WA	1.00 %	PRE	
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	40
19B	EL-171	4.00 EC	.15 LB/AC	PRE	
19C	ARD 1675	.00 WA	1.00 %	PRE	
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	49
20B	EL-171	4.00 EC	.30 LB/AC	PRE	
20C	ARD 1675	.00 WA	1.00 %	PRE	
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	52
21B	EL-171	4.00 EC	.15 LB/AC	PRE	
21C	ARD 1714	.00 WA	1.00 %	PRE	
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	54
22B	EL-171	4.00 EC	.30 LB/AC	PRE	
22C	ARD 1714	.00 WA	1.00 %	PRE	
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	51
23B	EL-171	4.00 EC	.15 LB/AC	PRE	
23C	ARD 1680	.00 WA	1.00 %	PRE	
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	45
24B	EL-171	4.00 EC	.30 LB/AC	PRE	
24C	ARD 1680	.00 WA	1.00 %	PRE	

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 14 SOYBEAN PROTECTANT WILLIAMS PRE

<u>TRT</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL</u> <u>METHOD</u>	<u>--10/16/8</u> <u>YLD</u>
25A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	50
25B	PC-671	.00 AD	1.00 QT/AC	PRE	
26A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	57
26B	PC-671	.00 AD	1.00 QT/AC	PRE	
27A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	51
27B	PC-671	.00 AD	2.00 QT/AC	PRE	
28A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	54
28B	PC-671	.00 AD	2.00 QT/AC	PRE	
29A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	51
29B	PC-671	.00 AD	4.00 QT/AC	PRE	
30A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	54
30B	PC-671	.00 AD	4.00 QT/AC	PRE	
31A	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	55
31B	PC-671	.00 AD	8.00 QT/AC	PRE	
32A	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	51
32B	PC-671	.00 AD	8.00 QT/AC	PRE	
33A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	51
33B	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	
34A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	54
34B	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	
35A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	54
35B	EL-171	4.00 EC	.15 LB/AC	PRE	
36A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	45
36B	EL-171	4.00 EC	.30 LB/AC	PRE	
37	METRIBUZIN 1 OR 2	50.00 WP	.50 LB/AC	PRE	51
38	METRIBUZIN 1 OR 2	50.00 WP	1.00 LB/AC	PRE	53
39	CHECK (CULTIVATED)	.00 CK	.00		58

LSD(05): NS

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TABLE 14 SOYBEAN PROTECTANT WILLIAMS PRE

LOCATION: SOUTH 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 9 1980 DATE TREATED: MAY 8 1980 PRE
VARIETY: WILLIAMS
HARVEST OCTOBER 25 1980

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TABLE 15 CORN VINE STUDY

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	--10/7/8	
					YLD	PDP
1	DICAMBA	4.00 S	.50 LB/AC	PRE	92	16
2A	DICAMBA	4.00 S	.25 LB/AC	PRE	75	15
2B	2,4-D AMINE	4.00 E	.50 LB/AC	PRE		
3	2,4-D AMINE	4.00 E	.50 LB/AC	PRE	84	17
4	2,4-D ESTER	4.00 EP	1.00 LB/AC	PRE	79	16
5	ATRAZINE	4.00 L	1.50 LB/AC	PRE	83	18
6	M-3972	3.00 E	.19 LB/AC	PRE	92	18
7A	2,4-D ESTER	4.00 EP	1.00 LB/AC	PRE	77	15
7B	2,4-D ESTER	4.00 EP	.50 LB/AC	EP		
8A	2,4-D ESTER	4.00 EP	1.00 LB/AC	PRE	73	16
8B	2,4-D ESTER	4.00 EP	.50 LB/AC	EP		
8C	2,4-D ESTER	4.00 EP	.50 LB/AC	POD		
9	DICAMBA	4.00 S	.25 LB/AC	EP	85	15
10A	DICAMBA	4.00 S	.25 LB/AC	EP	83	16
10B	2,4-D AMINE	4.00 E	.25 LB/AC	EP		
11A	DICAMBA	4.00 S	.25 LB/AC	EP	85	16
11B	2,4-D AMINE	4.00 E	.50 LB/AC	EP		
12	2,4-D AMINE	4.00 E	.50 LB/AC	EP	73	14
13	M-3972	3.00 E	.18 LB/AC	EP	70	15
14A	M-3972	3.00 E	.09 LB/AC	EP	95	16
14B	2,4-D AMINE	4.00 E	.25 LB/AC	EP		
15A	M-3972	3.00 E	.18 LB/AC	EP	77	16
15B	2,4-D AMINE	4.00 E	.25 LB/AC	EP		
16	2,4-D ESTER	4.00 EP	.50 LB/AC	EP	63	15
17A	DICAMBA	4.00 S	.25 LB/AC	EP	87	17
17B	DICAMBA	4.00 S	.25 LB/AC	MP		
18A	DICAMBA	4.00 S	.25 LB/AC	EP	91	14
18B	2,4-D AMINE	4.00 E	.50 LB/AC	EP		
18C	DICAMBA	4.00 S	.25 LB/AC	MP		

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1980

TABLE 15 CORN VINE STUDY

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH	---10/7/8	
					YLD	POP
19	DICAMBA	4.00 S	.25 LB/AC	MP	95	17
20A	DICAMBA	4.00 S	.25 LB/AC	MP	85	17
20B	2,4-D AMINE	4.00 E	.25 LB/AC	MP		
21	M-3972	3.00 E	.18 LB/AC	MP	82	16
22A	M-3972	3.00 E	.09 LB/AC	MP	94	15
22B	2,4-D AMINE	4.00 E	.25 LB/AC	MP		
23A	M-3972	3.00 E	.18 LB/AC	MP	102	18
23B	2,4-D AMINE	4.00 E	.25 LB/AC	MP		
24	2,4-D ESTER	4.00 EP	.50 LB/AC	MP	85	16
25A	DICAMBA	4.00 S	.25 LB/AC	POD	105	16
25B	2,4-D AMINE	4.00 E	.50 LB/AC	POD		
26	DICAMBA	4.00 S	.25 LB/AC	POD	93	18
27	2,4-D AMINE	4.00 E	.50 LB/AC	POD	94	17
28A	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	90	16
28B	SURFACTANT	.50 WA	.50 %	POD		
29A	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	82	15
29B	SURFACTANT	.50 WA	.50 %	POD		
30A	METRIBUZIN 1	4.00 F	.38 LB/AC	POD	93	15
30B	2,4-D AMINE	4.00 E	.50 LB/AC	POD		
31A	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	85	16
31B	2,4-D AMINE	4.00 E	.50 LB/AC	POD		
32	METRIBUZIN 1	4.00 F	.50 LB/AC	POD	68	16
33	BENAZOLIN	3.00 E	.25 LB/AC	MP	95	17
34	BENTAZON	4.00 E	.25 LB/AC	MP	89	18
35A	BENAZOLIN	3.00 E	.25 LB/AC	MP	82	15
35B	BENTAZON	4.00 E	.25 LB/AC			
36A	BENAZOLIN	3.00 E	.25 LB/AC	MP	87	17
36B	2,4-D AMINE	4.00 E	.25 LB/AC	MP		

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TABLE 15 CORN VINE STUDY

TRT NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METHOD	---10/7/8	
					YLD	POP
37A	BENAZOLIN	3.00 E	.25 LB/AC	MP	92	18
37B	DICAMBA	4.00 S	.25 LB/AC	MP		
38A	BENAZOLIN	3.00 E	.25 LB/AC	MP	95	16
38B	ATRAZINE	4.00 L	1.00 LB/AC	MP		
LSD(05):					NS	NS

LOCATION: SOUTH FARM SOIL TYPE: MAURY SILT LOAM
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K P4: 6.6 O.M.: 4.0%
 DATE PLANTED: MAY 7 1980 DATE TREATED: MAY 7 1980 PRE
 VARIETY: PIONEER 3359A MAY 28 1980 EP
 JUNE 13 1980 MP,POD
 HARVEST OCTOBER 7 1980
 HAND HARVEST OCTOBER 8 1980

TABLE 16 CORN CONVENTIONAL TILLAGE IN JOHNSONGRASS - PRINCETON

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/15/80 YLD BU/AC
1	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	43
2	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	64
3	EPTC + R-25788	6.70 E	4.00 LB/AC	PPI	53
4	EPTA + R-25788	6.70 E	6.00 LB/AC	PPI	49
5A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	62
5B	TRIFLURALIN	4.00 E	1.00 LB/AC	POE	
6A	EPTA + R-25788	6.70 E	6.00 LB/AC	PPI	59
6B	TRIFLURALIN	4.00 E	1.00 LB/AC	POE	
7A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	50
7B	PENDEMETHALIN	4.00 E	1.00 LB/AC	POE	
8A	EPTC + R-25788	6.70 E	6.00 LB/AC	PPI	76
8B	PENDEMETHALIN	4.00 E	1.00 LB/AC	POE	
9A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	66
9B	S-734	75.00 WP	.75 LB/AC	POE	
10A	EPTC + R-25788	6.70 E	4.00 LB/AC	PPI	74
10B	S-734	75.00 WP	.75 LB/AC	POE	
11A	EPTC PKG MIX	6.00 EC	4.00 LB/AC	PPI	88
11B	WITH R-33865	1.00	.67 LB/AC	PPI	
11C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
12A	EPTC PKG MIX	6.00 EC	6.00 LB/AC	PPI	57
12B	WITH R-33865	1.00	1.00 LB/AC	PPI	
12C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
13A	BUTYLATE PKG MIX	6.00 EC	4.00 LB/AC	PPI	42
13B	WITH R-33865	1.00	.67 LB/AC	PPI	
13C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
14A	BUTYLATE PKG MIX	6.00 EC	6.00 LB/AC	PPI	62
14B	WITH R-33865	1.00	1.00 LB/AC	PPI	
14C	ATRAZINE	4.00 L	1.50 LB/AC	PPI	
15A	BUTYLATE + R-25788	6.70 E	4.00 LB/AC	PPI	NOT HARVESTED
15B	PC-671	.00 AD	2.00 QT/AC	PPI	
16A	BUTYLATE + R-25788	6.70 E	6.00 LB/AC	PPI	NOT HARVESTED
16B	PC-671	.00 AD	2.00 QT/AC	PPI	
17A	EPTC + R-25788	6.70 E	4.00 LB/AC	PPI	NOT HARVESTED
17B	PC-671	.00 AD	2.00 QT/AC	PPI	

TABLE 16 CORN CONVENTIONAL TILLAGE IN JOHNSONGRASS-PRINCETON (CONTINUED)

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/15/80 YLD BU/AC
18A	EPTC + R-25788	6.70 E	6.00 LB/AC	PPI	NOT HARVESTED
18B	PC-671	.00 AD	2.00 QT/AC	PPI	
19	VERNOLATE + R-25788	6.70 E	6.00 LB/AC	PPI	NOT HARVESTED
20A	VERNOLATE + R-25788	6.70 E	3.00 LB/AC	PPI	NOT HARVESTED
20B	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	
21A	EPTC + R-25788	6.70 E	3.00 LB/AC	PPI	NOT HARVESTED
21B	VERNOLATE + R-25788	6.70 E	3.00 LB/AC	PPI	
22A	BUTYLATE + R-25788	6.70 E	3.00 LB/AC	PPI	NOT HARVESTED
22B	EPTC + R-25788	6.70 E	3.00 LB/AC	PPI	
23A	EPTC + R-25788	6.70 E	4.00 LB/AC	PPI	NOT HARVESTED
23B	CYANAZINE	4.00 L	4.00 LB/AC	PPI	
24A	EPTC + R-25788	6.70 E	6.00 LB/AC	PPI	NOT HARVESTED
24B	CYANAZINE	4.00 L	4.00 LB/AC	PPI	
25	NC 20484	4.00 E	1.00 LB/AC	PPI	NOT HARVESTED
26	NC 20484	4.00 E	2.00 LB/AC	PPI	NOT HARVESTED
27	CHECK (UNCULTIVATED)	--	--	--	7.0

LSD(05): NS

LOCATION: PRINCETON, KY
 FERTILIZATION (LB/AC): 100 N, 60 P, 60 K PH: 6.6 O.M.: 1.9%
 VARIETY: PIONEER 3369A
 DATE PLANTED: MAY 2, 1980
 DATE TREATED: MAY 2, 1980 PPI
 JUNE 11, 1980 POE
 DATE HARVESTED: OCTOBER 15, 1980
 PLOTS WERE HAND HARVESTED

TABLE 17 NO-TILL SOYBEANS IN WHEAT STUBBLE -- PRINCETON

<u>TRT. NO.</u>	<u>HERBICIDE TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL METH.</u>	<u>10/30/80 YLD BU/AC</u>
1A	PARAQUAT	2.00 E	.50 LB/AC	4 WK	6.0
1B	SURFACTANT	.50 WA	.25%	4 WK	
1C	LINURON	4.00 L	.75 LB/AC	PRE	
1D	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
2A	PARAQUAT	2.00 E	.50 LB/AC	2 WK	8.0
2B	SURFACTANT	.50 WA	.25%	2 WK	
2C	LINURON	4.00 L	.75 LB/AC	PRE	
2D	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	7.0
3B	LINURON	4.00 L	.75 LB/AC	PRE	
3C	PARAQUAT	2.00 E	.50 LB/AC	PRE	
3D	SURFACTANT	.50 WA	.50%	PRE	
4A	GLYPOSATE	4.00 E	2.00 LB/AC	4 WK	8.0
4B	LINURON	4.00 L	.75 LB/AC	PRE	
4C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
5A	GLYPOSATE	4.00 E	2.00 LB/AC	2 WK	10.0
5B	LINURON	4.00 L	.75 LB/AC	PRE	
5C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
6A	GLYPOSATE	4.00 E	1.50 LB/AC	PRE	7.5
6B	LINURON	4.00 L	.75 LB/AC	PRE	
6C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
7A	CYANAZINE	4.00 L	3.00 LB/AC	4 WK	11.0
7B	SURFACTANT	.50 WA	.25%	4 WK	
7C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
8A	CYANAZINE	4.00 L	2.00 LB/AC	4 WK	10.0
8B	SURFACTANT	.50 WA	.25%	4 WK	
8C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
9A	CYANAZINE	4.00 L	2.00 LB/AC	2 WK	8.5
9B	SURFACTANT	.50 WA	.25%	2 WK	
9C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
10A	CYANAZINE	4.00 L	1.50 LB/AC	2 WK	11.5
10B	SURFACTANT	.50 WA	.25%	2 WK	
10C	ALACHLOR	4.00 E	2.50 LB/AC	PRE	
11A	PARAQUAT	2.00 E	.25 LB/AC	2 WK	10.0
11B	SURFACTANT	.50 WA	.25%	2 WK	
11C	ORYZALIN	4.00 AS	1.50 LB/AC	2 WK	
12A	PARAQUAT	2.00 E	.25 LB/AC	2 WK	6.5
12B	SURFACTANT	.50 WA	.25%	2 WK	
12C	S-734	75.00 WP	1.25 LB/AC	2 WK	

TABLE 17 NO-TILL SOYBEANS IN WHEAT STUBBLE - PRINCETON (CONTINUED)

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/30/80 YLD BU/AC
13A	PARAQUAT	2.00 E	.25 LB/AC	2 WK	7.0
13B	SURFACTANT	.50 WA	.25%	2 WK	
13C	PENDEMETHALIN	4.00 E	1.50 LB/AC	2 WK	
14A	LINURON	4.00 L	1.00 LB/AC	PRE	8.0
14B	ORYZALIN	4.00 AS	1.00 LB/AC	PRE	
14C	PARAQUAT	2.00 E	.25 LB/AC	PRE	
14D	SURFACTANT	.50 WA	.25%	PRE	
15A	PARAQUAT	2.00 E	.25 LB/AC	PRE	11.5
15B	SURFACTANT	.50 WA	.25%	PRE	
15C	S-734	75.00 WP	1.00 LB/AC	PRE	
15D	LINURON	4.00 L	1.00 LB/AC	PRE	
16A	PARAQUAT	2.00 E	.25 LB/AC	PRE	
16B	SURFACTANT	.50 WA	.25%	PRE	
16C	PENDEMETHALIN	4.00 E	1.00 LB/AC	PRE	
16D	LINURON	4.00 L	1.00 LB/AC	PRE	
17A	PARAQUAT	2.00 E	.50 LB/AC	PRE	6.5
17B	SURFACTANT	.50 WA	.25%	PRE	
17C	BAS 9052	1.53 EC	.50 LB/AC	EP	
17D	BENTAZON	4.00 E	1.00 LB/AC	EP	
17E	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP	
18A	GLYPOSATE	4.00 E	2.00 LB/AC	PRE	
18B	BAS 9052	1.53 EC	.50 LB/AC	EP	
18C	BENTAZON	4.00 E	1.00 LB/AC	EP	
18D	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP	
19A	BAS 9052	1.53 EC	.50 LB/AC	EP	4.0
19B	BENTAZON	4.00 E	.75 LB/AC	EP	
19C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP	
20	CHECK	--	--	---	2.0
LSD(05):					9.0

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K, PH:6.7, O.M.:1.6%
 VARIETY: WILLIAMS
 DATE PLANTED: MAY 29, 1980
 DATE TREATED: MAY 1, 1980
 MAY 15, 1980
 MAY 29, 1980
 JUNE 20, 1980
 DATE HARVESTED: OCTOBER 30, 1980

TABLE 18 SOYBEAN - 30" ROW POSTEMERGENCE JOHNSONGRASS CONTROL-PRINCETON

<u>TRT.</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL.</u> <u>METH.</u>	<u>YLD BU/AC</u>
1A	KK 80	4.00 E	.75 LB/AC	LP	21
1B	SURFACTANT	0.00 WA	.25%	LP	
2A	BAS 9052	1.53 EC	.75 LB/AC	LP	20
2B	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	LP	
3A	MEFLUIDIDE	2.00 S	.25 LB/AC	LP	9
3B	SURFACTANT	0.00 WA	.25%	LP	
4A	ALACHLOR	4.00 E	3.50 LB/AC	PPI	18
4B	GLYPHOSATE	4.00 E	33% SOLN	SAE	
5A	TRIFLURALIN	4.00 E	.75 LB/AC	PPI	20
5B	GLYPHOSATE	4.00 E	33% SOLN	SAE	
6A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	19
6A	GLYPHOSATE	4.00 E	33% SOLN	SAE	
7	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	16
8A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	24
8B	KK 80	4.00 E	.75 LB/AC	LP	
8C	SURFACTANT	0.00 WA	.25%	LP	
9A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	26
9B	BAS 9052	1.53 EC	.75 LB/AC	LP	
9C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	LB	
10A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	16
10B	MEFLUIDIDE	2.00 S	.25 LB/AC	LP	
10C	SURFACTANT	0.00 WA	.25%	LP	
10D	MEFLUIDIDE	2.00 S	.125 LB/AC	+3W	
10E	SURFACTANT	0.00 WA	.25%	+3W	
11	CHECK	--	--	--	19

LSD(05): 7.0

LOCATION: PRINCETON
 FERTILIZATION (LB/AC) ON, OP, OK, PH: 6.1
 SOIL TYPE: CRIDER SILT LOAM
 VARIETY: WILLIAMS
 DATE PLANTED: MAY 27, 1980
 DATE TREATED: MAY 27, 1980 PPI
 JUNE 19, 1980 LP POE
 JULY 8, 1980 SAE
 JULY 10, 1980 +3W
 HARVESTED: OCTOBER 14, 1980

TABLE 19 SOYBEAN-10" ROW POSTEMERGENCE JOHNSONGRASS CONTROL-PRINCETON

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/14/80 YLD BU/AC
1A	KK 80	4.00 E	.75 LB/AC	LP	26
1B	SURFACTANT	0.00 WA	.25%	LP	
2A	BAS 9052	1.53 EC	.75 LB/AC	LP	29
2B	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	LP	
3A	MEFUIDIDE	2.00 S	.25 LB/AC	LP	10
3B	SURFACTANT	0.00 WA	.25%	LP	
4A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	29
4B	KK 80	4.00 E	.75 LB/AC	LP	
4C	SURFACTANT	0.00 WA	.25%	LP	
5A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	29
5B	BAS 9052	1.53 EC	.75 LB/AC	LP	
5C	OIL CONCENTRATE	0.00 AD	1.00 QT/A	LP	
6A	TRIFLURALIN	4.00 E	1.50 LB/AC	PPI	23
6B	MEFUIDIDE	2.00 S	.25 LB/AC	LP	
6C	SURFACTANT	0.00 WA	.25%	LP	
6D	MEFUIDIDE	2.00 S	.125 LB/AC	+3W	
6E	SURFACTANT	0.00 WA	.25%	+3W	
7	CHECK	--	--		11

LSD(05): 8.0

LOCATION: PRINCETON
 FERTILIZATION (LB/AC): ON, OP, OK, PH: 6.1
 SOIL TYPE: CRIDER SILT LOAM
 DATE PLANTED: MAY 27, 1980
 DATE TREATED: MAY 27, 1980 PPI
 JUNE 19, 1980 LP POE
 JULY 10, 1980 +3W
 DATE HARVESTED: OCTOBER 14, 1980

TABLE 20 COCKLEBUR POSTEMERGENCE - PRINCETON

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/30/80 YLD BU/AC
1A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	12.5
1B	NANPA/DN	3.00 E	2.25 LB/AC	EP	
2A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	11.0
2B	NANPA/DN	3.00 E	3.00 LB/AC	EP	
3A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	14.0
3B	NANPA/DN	3.00 E	4.50 LB/AC	CR	
4A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	9.5
4B	NANPA/DN	3.00 E	2.25 LB/AC	MP	
5A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10.0
5B	NANPA/DN	3.00 E	3.00 LB/AC	MP	
6A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10.0
6B	NANPALAM	2.00 EC	1.00 LB/AC	MP	
6C	ACIFLUOROFEN	2.00 LCS	.25 LB/AC	MP	
7A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	10.0
7B	NANPALAM	2.00 EC	2.00 LB/AC	MP	
7C	ACIFLUOROFEN	2.00 LCS	.25 LB/AC	MP	
8A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	14.0
8B	ACIFLUOROFEN	2.00 LCS	.50 LB/AC	EP	
9A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	8.0
9B	BENTAZON	4.00 E	.75 LB/AC	EP	
9C	OIL CONCENTRATE	.00 AD	1.00 QT/AC	EP	
10A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	NOT HARVESTED
10B	OXYFLUORFEN	2.00 E	.62 LB/AC	PRE	
11A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
11B	RH-8817	2.00 E	.62 LB/AC	PRE	
12A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
12B	MC 10978	2.00 S	.25 LB/AC	EP	
13A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
13B	MC 10978	2.00 S	.50 LB/AC	EP	
14A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
14B	MC 10978	2.00 S	.75 LB/AC	EP	
15A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
15B	MC 10978	2.00 S	.25 LB/AC	EP	
15C	SURFACTANT	.50 WA	.50 %	EP	
16A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
16B	MC 10978	2.00 S	.50 LB/AC	EP	
16C	SURFACTANT	.50 WA	.50 %	EP	

TABLE 20 COCKLEBUR POSTEMERGENCE - PRINCETON (CONTINUED)

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/30/80 YLD BU/AC
17A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	NOT HARVESTED
17B	MC 10978	2.00 S	.75 LB/AC	EP	
17C	SURFACTANT	.50 WA	.50 %	EP	
18A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
18B	MC 10978	2.00 S	1.00 LB/AC	EP	
18C	SURFACTANT	.50 WA	.50 %	EP	
19A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
19B	MC 10978	2.00 S	.25 LB/AC	EP	
19C	CROP OIL	.00 AD	4.00 QT/AC	EP	
20A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
20B	MC 10978	2.00 S	.50 LB/AC	EP	
20C	CROP OIL	.00 AD	4.00 QT/AC	EP	
21A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
21B	MC 10978	2.00 S	.75 LB/AC	EP	
21C	CROP OIL	.00 AD	4.00 QT/AC	EP	
22A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
22B	DINOSEB	3.00 E	.38 LB/AC	EP	
22C	BENTAZON	4.00 E	.50 LB/AC	EP	
23A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
23B	DINOSEB	3.00 E	.19 LB/AC	EP	
23C	BENTAZON	4.00 E	.50 LB/AC	EP	
24A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
24B	DINOSEB	3.00 E	.38 LB/AC	LP	
24C	BENTAZON	4.00 E	.50 LB/AC	LP	
25A	ALACHLOR	4.00 E	2.50 LB/AC	PRE	"
25B	DINOSEB	3.00 E	.19 LB/AC	LP	
25C	BENTAZON	4.00 E	.50 LB/AC	LP	
26A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	5.5
26B	ACIFLUOROFEN	2.00 LCS	.38 LB/AC	EP	
27A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	9.0
27B	ACIFLUOROFEN	2.00 LCS	.50 LB/AC	EP	
28A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	13.0
28B	ACIFLUOROFEN	2.00 LCS	.75 LB/AC	EP	
29A	METALACHOR	8.00 E	2.50 LB/AC	PRE	12.0
29B	ACIFLUOROFEN	2.00 LCS	.38 LB/AC	EP	
29C	BENTAZON	4.00 E	.25 LB/AC	EP	
30A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	10.5
30B	ACIFLUOROFEN	2.00 LCS	.38 LB/AC	EP	
30C	BENTAZON	4.00 E	.38 LB/AC	EP	

TABLE 20 COCKLEBUR POSTEMERGENCE - PRINCETON (CONTINUED)

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL METH.	10/30/80 YLD BU/AC
31A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	12.0
31B	ACIFLUOROFEN	2.00 LCS	.50 LB/AC	EP	
31C	BENTAZON	4.00 E	.25 LB/AC	EP	
32A	METALACHLOR	8.00 E	2.50 LB/AC	PRE	11.0
32B	ACIFLUOROFEN	2.00 LCS	.50 LB/AC	EP	
32C	BENTAZON	4.00 E	.38 LB/AC	EP	
33	RH 0043	2.00 EC	1.00 LB/AC	PRE	NOT HARVESTED
34	RH 0043	2.00 EC	.06 LB/AC	EP	"
35	RH 0043	2.00 EC	.12 LB/AC	EP	"
36	RH 0043	2.00 EC	.25 LB/AC	EP	"
37	RH 0265	2.00 EC	.06 LB/AC	EP	"
38	RH 0265	2.00 E	.12 LB/AC	EP	"
39	RH 0265	2.00 E	.25 LB/AC	EP	"
40	CHECK (UNCULTIVATED)	---	---	---	"

LSD(05): NS

LOCATION: PRINCETON, KY
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K
 PH: 7.0 O.M.: 1.7%
 VARIETY: WILLIAMS
 SOIL TYPE: CRIDE SILT LOAM
 DATE PLANTED: MAY 22, 1980
 DATE TREATED: MAY 22, 1980 PRE
 MAY 27, 1980 CR
 JUNE 6, 1980 EP
 JUNE 12, 1980 MP
 JUNE 14, 1980 LP
 HARVESTED: OCTOBER 30, 1980

TABLE 21 COCKLEBUR CONTROL PROGRAMS OF SOYBEANS - PRINCETON

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	ROW SPACING	10/14/80 YLD BU/AC
1	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	17.0
2A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	13.5
2B	METRIBUZIN	50.00 WP	.38 LB/AC	PRE	32"	
3A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	17.0
3B	METRIBUZIN	50.00 WP	.38 LB/AC	PRE	32"	
3C	CULTIVATION	--	--	--	32"	
4A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	25.0
4B	METRIBUZIN	50.00 WP	.38 LB/AC	PRE	32"	
4C	BENTAZON	4.00 E	1.00 LB/AC	POE	32"	
4D	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	32"	
5A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	8"	23.0
5B	BENTAZON	4.00 E	1.00 LB/AC	POE	8"	
5C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	8"	
6A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	16"	24.0
6B	BENTAZON	4.00 E	1.00 LB/AC	POE	16"	
6C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	16"	
7A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	23.5
7B	BENTAZON	4.00 E	1.00 LB/AC	POE	32"	
7C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	32"	
8A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	8"	25.0
8B	BENTAZON	4.00 E	1.00 LB/AC	POE	8"	
8C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	8"	
8D	CULTIVATION	--	--	--	8"	
9A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	16"	24.0
9B	BENTAZON	4.00 E	1.00 LB/AC	POE	16"	
9C	OIL CONCENTRATE	0.00 AD	1.00 LB/AC	POE	16"	
9D	CULTIVATION	--	--	--	16"	
10A	FLUCLORALIN	4.00 E	.75 LB/AC	PPI	32"	23.5
10B	BENTAZON	4.00 E	1.00 LB/AC	POE	32"	
10C	OIL CONCENTRATE	0.00 AD	1.00 QT/AC	POE	32"	
10D	CULTIVATION	--	--	--	32"	

LSD(05) :

NS

LOCATION: PRINCETON, KY

VARIETY: WILLIAMS

DATE PLANTED: MAY 28, 1980

DATE TREATED: MAY 27, 1980 PPI

MAY 28, 1980 PRE

JUNE 12, 1980 POE

JUNE 28, 1980 CULTIVATION

DATE HARVESTED: OCTOBER 14, 1980

SOIL TYPE: CRUDE SILT LOAM

PH: 6.7 O.M. 1.6%

TABLE 22 SOYBEAN TOLERANCE VS STAGE OF BROADCAST POE APPLICATION

<u>TRT.</u> <u>NO.</u>	<u>HERBICIDE</u> <u>TREATMENT</u>	<u>FORMULA</u>	<u>RATE</u>	<u>APPL.</u> <u>METH.</u>	<u>10/14/80</u> <u>YLD BU/AC</u>
1	BENTAZON	4.00 E	1.00 LB/AC	CR	24.5
2	ACIFLUOROFEN	2.00 E	.50 LB/AC	CR	30.0
3	NANPA/DN	3.00 E	3.50 LB/AC	CR	24.0
4	DINOSEB	3.00 E	.75 LB/AC	CR	23.5
5	BENTAZON	4.00 E	1.00 LB/AC	VC	19.5
6	ACIFLUOROFEN	2.00 E	.50 LB/AC	VC	22.5
7	NANPA/DN	3.00 E	3.50 LB/AC	VC	24.5
8	DINOSEB	3.00 E	.75 LB/AC	VC	25.5
9	BENTAZON	4.00 E	1.00 LB/AC	V3	28.5
10	ACIFLUOROFEN	2.00 E	.50 LB/AC	V3	25.5
11	NANPA/DN	3.00 E	3.50 LB/AC	V3	20.5
12	DINOSEB	3.00 E	.75 LB/AC	V3	23.5
13	BENTAZON	4.00 E	1.00 LB/AC	V5	28.5
14	ACIFLUOROFEN	2.00 E	.50 LB/AC	V5	24.5
15	NANPA/DN	3.00 E	3.50 LB/AC	V5	22.5
16	DINOSEB	3.00 E	.75 LB/AC	V5	21.5
17	BENTAZON	4.00 E	1.00 LB/AC	V9	21.5
18	ACIFLUOROFEN	2.00 E	.50 LB/AC	V9	26.5
19	NANPA/DN	3.00 E	3.50 LB/AC	V9	19.5
20	DINOSEB	3.00 E	.75 LB/AC	V9	24.5
21	BENTAZON	4.00 E	1.00 LB/AC	R1	22.5
22	ACIFLUOROFEN	2.00 E	.50 LB/AC	R1	21.5
23	NANPA/DN	3.00 E	3.50 LB/AC	R1	18.5
24	DINOSEB	3.00 E	.75 LB/AC	R1	20.5
25	BENTAZON	4.00 E	1.00 LB/AC	R2	24.5

TABLE 22 SOYBEAN TOLERANCE VS STAGE OF BROADCAST POE APPLIC. (CONTINUED)

TRT. NO.	HERBICIDE TREATMENT	FORMULA	RATE	APPL. METH.	10/14/80 YLD BU/AC
26	ACIFLUOROFEN	2.00 E	.50 LB/AC	R2	20.5
27	NANPA/DN	3.00 E	3.50 LB/AC	R2	19.5
28	DINOSEB	3.00 E	.75 LB/AC	R2	20.5
29	BENTAZON	4.00 E	1.00 LB/AC	R3	24.5
30	ACIFLUOROFEN	2.00 E	.50 LB/AC	R3	25.5
31	NANPA/DN	3.00 E	3.50 LB/AC	R3	26.5
32	DINOSEB	3.00 E	.75 LB/AC	R3	21.5
33	CHECK (UNCULTIVATED)	--	--	--	24.5
LSD(05):					NS

LOCATION: PRINCETON, KY

VARIETY: WILLIAMS

SOIL TYPE: CRIDER SILT LOAM PH: 7.0

DATE PLANTED: MAY 27, 1980

DATE TREATED: CR = CRACKING JUNE 1, 1980
 VC = COTYLEDON JUNE 3, 1980
 V3 = THIRD NODE JUNE 14, 1980
 V5 = FIFTH NODE JUNE 26, 1980
 V9 = NINTH NODE JULY 10, 1980
 R1 = BEGINNING BLOOM JULY 10, 1980
 R2 = FULL BLOOM JULY 14, 1980
 R3 = BEGINNING POD JULY 23, 1980