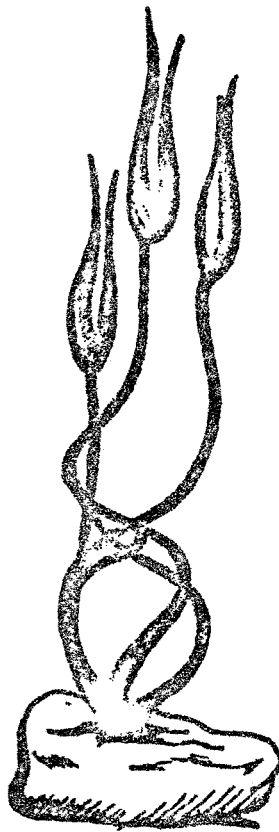


RESULTS OF HERBICIDE EVALUATION TRIALS 1974

NOT FOR PUBLICATION



UNIVERSITY OF KENTUCKY

DEPARTMENT OF AGRONOMY

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LIST OF HERBICIDES USED IN WEED CONTROL STUDIES 1973

1.

A-820: N-sec-butyl-4-tert-butyl-2, 6-dinitroaniline	Amchem
AC-92553: (Prowl) N-(1-ethylpropyl)-2, 6-dinitro-3, 4-xylidine	American Cyanamid
Alachlor: (Lasso)-2-chloro-2', 6'-diethyl-N-(methoxymethyl) acetamidide	Monsanto
Atrazine: (Aatrex): 2-chloro-4-(Ethylamino)-6-isopropylamino-s-triazine	Geigy
Balan: N-butyl-N-ethyl-a, a, a-trifluoro-2, 6-dinitro-p-toluidine	Elanco
BAS-3512: (Basagran) 3-isopropyl-1-H-2, 1, 3-benzothiadiazinone-(4) 3H-one-2, 2-dioxide	BASF
BAS-72461: Unknown	BASF
BAS-3924: N-propyl-N(2-chloroethyl)-2, 6-dinitro-4-trifluorememethyl-aniline	BASF
Cyanazine: (Bladex) 2-(4-chloro, -6-ethylamino-s-triazine-2-ylamino)-2-methylpropionitrile	Shell
CGA-10832: (Tolban) N-N-propyl-N-cyclopropylmethyl-4-trifluoro methyl-2,6-dinitroaniline	Geigy
CGA018762: (Procyazine) 2-((4 chloro-6-(cyclopropylamino)-1,3,5-triazine-2-yl)amino) -2-methylpropanenitrile	Geigy
CGA-24705: Unknown	Geigy
Chloramben: (Amiben) 3-amino-2,5-dichlorobenzoic acid	Amchem
Chloropropham: (CIPC): isopropyl <u>M</u> -chlorocarbanilate	PPG
Desiccate: Mono (N N-dimethy amino salt of Endothal)	Pennwalt
Devironol: 2(alpha-naphthoxy)-N, N-diethylpropionamide	Stauffer
Dicamba: (Banvel): 3,6-dichloro-o-anisic acid	Velsicol
Dinitramine: (Cobex): N ³ , N ³ -diethyl-2,4-dinitro-6-trifluoromethyl-m-phenylenediamine	U.S. Borax
Diphenamid: (Enide & Dymid)	Upjohn
Dyanap: 1-naphthylphthalamate + 6-dinitro-0-sec butylphenate	Uniroyal
Ethrel: 2 chloroethylphosphonic acid	Amchem
EL 119: (Surflan) 3,5-dinitro-N, N-dipropyl-sulfanilamide	Elanco
EPTC: (Eptam): S-ethyl dipropylthiocarbamate	Stauffer
Eradicane: EPTC + N, N-diallyl-2, 2-dichloroacetamide	Stauffer
Glyphosate: (Roundup) N-phosphonomethylglycine	Monsanto
H-26910: N-chloroacetyl-N-(2-methyl-6-ethylphenyl)-glycine isopropyl ester	Hercules
H-22234: N-chloroacetyl-N-(2,6-diethylphenyl)-glycine ethyl ester	Hercules
H-25893: N-chloroacetyl-N-(2,6-diethylphenyl)-glycine isopropyl ester	Hercules
H-22234: N-chloroacetyl-N-(2,6-diethylphenyl)-glycine ethyl ester	Hercules
HOE-22870: Unknown	American Hoechst
HOE-22408: Unknown	American Hoechst
Linuron: (Lorox): 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea	Dupont
M-3724: (Dowco 233) Unknown	Dow
M-4053: (Dowco 333) Unknown	Dow
M-3972: (Dowco 290) 3,6-dichloropicolinic acid as the monethanolamine salt	Dow
Maloran: 3-(4-bromo-3-chlorophenyl)-1-methoxy-1-methylurea	Geigy

MBR 8251: (Destun) 1,1,1-trifluoro-4-(phenylsulfonyl) methanesulfono-0-toluidide	3M
MBR 12325	3M
MC-4379: (Modown): methyl-5-(2',4'-dichlorophenoxy-2-nitrobenzoate	Mobil
Metribuzin: (Sencor) (Lexone) 4-amino-6-(1,1-dimethylethyl)-3-methylthio)-1,2,4-triazine 5-(4 HO-one)	Chemagro
Mobil 8475: Unknown	Mobil
Mobil 8479: Unknown	Mobil
Mobil 5714: Unknown	Mobil
NIA-25213: r-2-ethyl-5-methyl-C-5-(2-methylbenzyloxy)-3-dioxane	Niagara
Nitralin: (Planavin): 4-(methylsulfonyl)-2,6-dinitro-N, N-dipropylaniline	Shell
Outfox: (cyprazine): 2-chloro-4-cyclopropylamino-6-isopropylamino-1,3,5-triazine	Gulf
Paraquat: 1,1'-dimethyl-4,4'-bipyridinium ion	Chevron
Preforan: (fluorodiphen): p-nitrophenyl a, a, a-trifluoro-2-nitro-p-tolyl ether	Geigy
Prefox: cyprazine + S-ethyl diethylthiocarbamate	Gulf
Premerge: (Dinoseb): 2-sec-butyl-4,6-dinitrophenol	Dow
R-29148: 2,2,5-trimethyl-N-dichloroacetyloxazolidine	Stauffer
R-25788: N, N-diallyl-2,2-dichloroacetamide	Stauffer
R-24191: 1-(m-t butylacetamidophenyl)-3-methyl-3-methoxy urea	Stauffer
R-31401: Unknown	Stauffer
RH-2512: Unknown	Rohm Haas
RH-2915: Unknown	Rohm Haas
S-6044: Unknown	Gulf
Simazine: (Princep): 2-chloro-4,6-bis (ethylamino)-s-triazine	Geigy
Sutan: S-ethyl diisobutylthiocarbamate	Stauffer
San-9789: (Zorial) 4-chloro-5-(methylamino)-2-a,a,a,-trifluoro-m-toly-3(2H-pyridazinone)	Sandos
Tillam: S-propyl butylethylthiocarbamate	Stauffer
Triflurolin: (Treflan): S-(a,a,a-trifluoro-2,6-dinitro-N, N-dipropyl-p-toluidine	Elanco
U-27267: 3,4,5-tribromo-N,N-A-trimethylpyrazole-1-acetamide	Upjohn
VEL 4207: Dicamba (3,5-dichloro-o-anisic acid)	Velsicol
VEL 5052: Temporarily withheld	Velsicol
VEL 5026: Temporarily withheld	Velsicol
VEL 5028: Temporarily withheld	Velsicol
VEL 4359: Dicamba (3,6-dichloro-o-anisic acid)	Velsicol
Vernolate: (Vernam): S-propyl dipropylthiocarbamate	Stauffer
2.4-DB: (Butrac)	Amchem
X-77: Non-ionic surfactant	Chevron

Precipitation - 1974

3.

Spindletop - Maine Chance

Day	May	June	July	August
1	.17	2.92	0	0
2	1.20	.02	0	0
3	.20	0	0	1.24
4	0	0	.17	.36
5	0	.02	.08	0
6	0	0	T	0
7	0	0	T	.04
8	.54	.80	0	.06
9	.13	0	0	1.01
10	0	.52	.16	.02
11	0	0	.27	2.25
12	.10	0	0	0
13	0	0	0	0
14	0	0	0	0
15	T	.15	1.15	0
16	T	0	.07	.25
17	0	0	0	0
18	0	0	0	.12
19	.09	0	.75	.06
20	0	T	.21	0
21	0	0	0	0
22	.67	2.50	0	0
23	.15	1.95	T	.11
24	0	0	0	T
25	0	.10	0	0
26	0	0	.25	0
27	0	0	0	1.82
28	0	.51	0	.92
29	.37	0	0	1.43
30	1.75	0	0	2.34
31	1.21	0	0	0
Sums	6.58	9.49	3.11	12.03
Norms	4.16	4.31	4.83	3.40

- Design: Trials were designed as randomized complete blocks with four replications of plots 2 rows wide by 30 to 40 feet long with border rows except in no-till corn and soybeans.
- Application: Treatments were applied with a CO₂ sprayer. Herbicides were incorporated with a power driven rototiller.
- Rating: Weed control was rated on a 0 to 10 scale where 0 equals no control and 10 equals perfect control and 7 is considered commercially acceptable. Crop injury was rated on a ~~0~~ 0 to 10 scale also. A rating of 3 and above was considered not to be commercially acceptable.
- Cultivation: Plots were not cultivated
- Organic Matter:
Maine Chance Farm: Range 3.2 - 6.1%
Individual organic matter is listed on each experiment.
- pH: Maine Chance Farm: Range 5.4 - 6.4
Individual pH is listed on each experiment.

CORN - FREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Visual Evaluation June 24

Tst. No.	Herbicide Formulation	Rate lbs/A AI	% CONTROL		
			Grasses	Broadleaf	Crop Injury
1	Astrex 4L*	2.0	90 b-c ^{1/}	100 a	0 a
2	Princep 4L	2.0	93 a-c	83 c-e	0 a
3	Bladex 4S	3.0	95 a-c	78 d-e	0 a
4	Foxfour 4S	2.0	85 c-d	93 a-c	0 a
5	Astrex 4L + Princep 4L	1.0 + 2.0	90 b-c	95 a-b	0 a
6	Lasso 4E	2.0	93 a-c	78 d-e	0 a
7	Lasso 4E + Astrex 4L TK Mix	2.0 + 1.0	93 a-c	98 a-b	0 a
8	Lasso 4E + Astrex 4L TK Mix	2.0 + 1.0	93 a-c	90 a-c	0 a
9	Lasso 4E + Sencor 50W	2.5 + 2.5	90 b-c	93 a-c	0 a
10	Lasso 4E + Sencor 50W	2.5 + .5	98 a-b	100 a	20 c
11	Prowl 3E	1.5	85 c-d	88 c-e	0 a
12	Prowl 3E	2.0	88 c-d	90 b-d	0 a
13	Prowl 3E + Astrex 4L	1.5 + 1.5	93 a-c	98 a-b	0 a
14	Prowl 3E + Astrex 4L	1.5 + 2.0	95 a-c	98 a-b	0 a
15	R-31401 2E	2.0	85 c-d	93 a-c	0 a
16	R-31401 2E	4.0	98 a-b	98 a-b	0 a
17	CGA-18762 80W	2.5	93 a-c	20 e	0 a
18	CGA-18762 80W + Astrex 4L	2.0 + 1.0	93 a-c	95 a-c	0 a
19	CGA-18762 80W + Princep 4L	2.0 + 1.0	98 a-b	85 c-e	0 a
20	CGA-24705 6E	2.5	95 a-c	88 c-e	0 a
21	CGA-24705 6E + Bladex 4S	2.5 + 3.0	95 a-c	93 a-c	0 a
22	CGA-24705 6E + CGA-18762 80W	1.5 + 2.0	88 b-c	78 d-e	0 a
23	CGA-24705 6E + CGA-18762 80W	2.0 + 2.0	90 b-c	85 c-e	0 a
24	CGA-24705 6E + CGA-18762 80W	2.5 + 2.0	95 a-c	78 d-e	0 a
25	CGA-24705 6E + Astrex 4L	1.5 + 1.5	93 a-c	100 a	0 a
26	CGA-24705 6E + Astrex 4L	2.0 + 1.5	95 a-c	95 a-c	0 a
27	CGA-24705 6E + Astrex 4L	2.5 + 1.5	95 a-c	98 a-b	0 a
28	H-22234 4E	3.0	90 b-c	73 e	0 a

CORN - FREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Visual Evaluation June 24

Trt. No.	Herbicide Formulation	Rate lbs/A AI	% CONTROL		
			Grasses	Broadleaf	Crop Injury
29	H-22234 4E + Aatrex 4L	3.0 + 1.0	95 a-c	95 a-c	0 a
30	H-22234 4E + Bladex 4S	3.0 + 2.0	95 a-c	98 a-1	0 a
31	Vel 5026 80W	.2	90 b-c	70 e	0 a
32	Vel 5026 80W	.4	90 b-c	88 c-e	18 b
33	Vel 5028 45W	.38	93 a-c	73 e	0 a
34	Vel 5028 45W	.75	90 a-c	90 b-d	5 a
35	M-3972 Dowco 290 3E	.5	30 f	38 f	0 a
36	M-3972 Dowco 290 3E	1.0	63 e	70 a	0 a
37	M-3972 3E + Laseo 4E	.5 + 2.0	93 a-c	98 a-b	0 a
38	M-4053 Dowco 338 2E	1.0	70 d-e	70 e	0 a
39	M-4053 Dowco 338 2E	2.0	88 b-c	78 d-e	0 a
40	Check (Cultivated)	0	100 a	100 a	0 a

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

* All treatments are preemergence

LOCATION: Maine Chance

VARIETY: 3369A

FERTILIZATION: 300 lbs/A 16-16-16 + 150#/A N

TREATED & PLANTED: May 13

SOIL TYPE: Silt loam, O.M 3.8, pH 5.6

CORN - FREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Trr. No.	Herbicide Formulation	Rate lbs/A AI	Visual Evaluation July 25			Yield Bu/A	Corn Plants 100/A at harvest
			Grasses	% Control Broadleaf	Crop Injury		
1	Astrex 4L*	2.0	83 c-e	93 a-c	0 a	174 a	21.8 a
2	Princep 4L	2.0	90 b-c	73 d-j	0 a	164 a	22.3 a
3	Bladex 4S	3.0	80 c-e	55 i-l	0 a	157 a	22.4 a
4	Foxfour 4S	2.0	73 d-e	93 a-c	0 a	164 a	21.2 a
5	Astrex 4L + Princep 4L	1.0 + 2.0	83 c-e	90 a-d	0 a	162 a	21.7 a
6	Lasso 4E	2.0	85 b-d	70 e-k	0 a	166 a	21.2 a
7	Lasso 4E + Astrex 4L TK Mix	2.0 + 1.0	85 b-d	90 a-d	0 a	162 a	21.1 a
8	Lasso 4E + Astrex 4L TK Mix	2.0 + 1.0	85 b-d	90 a-d	0 a	161 a	22.2 a
9	Lasso 4E + Sencor 50 W	2.5 + 2.5	85 b-d	90 a-d	0 a	151 a	20.9 a
10	Lasso 4E + Sencor 50W	2.5 + .5	85 b-d	90 a-d	5 a	172 a	21.4 a
11	Prowl 3E	1.5	78 c-e	83 b-h	0 a	169 a	22.2 a
12	Prowl 3E	2.0	80 c-e	78 c-i	0 a	172 a	22.3 a
13	Prowl 3E + Astrex 4L	1.5 + 1.5	83 c-e	95 a-b	0 a	174 a	22.1 a
14	Prowl 3E + Astrex 4L	1.5 + 2.0	90 b-c	95 a-b	0 a	171 a	21.3 a
15	R-31401 2E	2.0	85 b-d	95 a-b	0 a	174 a	22.2 a
16	R-31401 2E	4.0	90 b-d	90 b-f	0 a	166 a	21.5 a
17	CGA-18762 80W	2.5	85 b-d	58 h-l	0 a	167 a	21.3 a
18	CGA-18762 80W + Astrex 4L	2.0 + 1.0	88 b-d	93 a-c	0 a	165 a	21.3 a
19	CGA-18762 80W + Princep 4L	2.0 + 1.0	88 b-d	80 c-i	0 a	167 a	21.6 a
20	CGA-24705 6E	2.5	85 b-d	68 f-k	0 a	163 a	20.6 a
21	CGA-24705 6E + Bladex 4S	2.5 + 3.0	95 a-b	85 b-f	0 a	173 a	21.8 a
22	CGA-24705 6E + CGA-18762 80W	1.5 + 2.0	78 c-e	63 g-l	0 a	153 a	19.6 a
23	CGA-24705 6E + CGA-18762 80W	2.0 + 2.0	90 b-d	70 e-k	0 a	173 a	21.1 a
24	CGA-24705 6E + CGA-18762 80W	2.5 + 2.0	85 b-d	63 g-l	0 a	165 a	21.8 a
25	CGA-24705 6E + Astrex 4L	1.5 + 1.5	90 b-c	95 a-b	0 a	172 a	20.6 a
26	CGA-24705 6E + Astrex 4L	2.0 + 1.5	90 b-c	90 b-f	0 a	164 a	21.2 a
27	CGA-24705 6E + Astrex 4L	2.5 + 1.5	93 b-c	95 a-b	0 a	171 a	21.2 a
28	H-22234 4E	3.0	73 d-e	45 k-l	0 a	156 a	21.5 a

CORN - PREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A AI	Visual Evaluation July 25			Yield Bu/A	Corn Plants 100/A at harvest
			% Control				
			Grasses	Broadleaf	Crop Injury		
29	H-22234 4E + Aatrex 4L	3.0 + 1.0	83 c-e	88 b-e	0 a	162 a	21.5 a
30	H-22234 4E + Bladex 4S	3.0 + 2.0	85 b-d	85 b-g	0 a	169 a	21.3 a
31	Vel 5026 80W	.2	80 c-e	50 j-l	0 a	159 a	21.8 a
32	Vel 5026 80W	.4	85 b-d	73 d-k	8 a	161 a	21.7 a
33	Vel 5028 45W	.38	78 c-e	55 i-e	0 a	153 a	21.8 a
34	Vel 5028 45W	.75	85 b-d	90 a-c	3 a	167 a	21.5 a
35	M-3972 Dowco 290 3E	.5	48 f	46 l	0 a	158 a	21.2 a
36	M-3972 Dowco 290 3E	1.0	63 e-f	60 g-l	0 a	162 a	21.2 a
37	M-3972 3E + Lasso 4E	.5 + 2.0	83 c-e	88 b-f	0 a	159 a	21.8 a
38	M-4053 Dowco 338 2E	1.0	63 e-f	58 h-l	0 a	147 a	20.4 a
39	M-4053 Dowco 338 2E	2.0	73 d-e	63 g-l	0 a	152 a	21.1 a
40	Check (Cultivated)	0	100 a	100 a	0 a	161 a	20.9 a

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

* All treatments are preemergence

LOCATION: Maine Chance

TREATED & PLANTED: May 13

VARIETY: 3369A

FERTILIZATION: 300 lbs/A 16-16-16 + 150#/A N

SOIL TYPE: Silt loam, O.M 3.8, pH 5.6

CORN - PREPLANT Incorporated - 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 24			Visual Evaluation July 25		
			% CONTROL			% CONTROL		
			Grasses	Broadleaf	Crop Injury	Grasses	Broadleaf	Crop Injury
1	Bas-72461 4lbs. *	4.0	92 a-b ^{1/}	78 d-e	15 b	85 b-e	58 e-i	0 a
2	Bas-72461 4 lbs.	8.0	100 a	95 a-b	49 c	95 a-c	83 b-a	45 b
3	Profox 4 lbs.	4.0	88 b-e	75 d-e	0 a	85 c-e	75 c-i	0 a
4	COA 18762 80W	2.5	78 e-f	70 d-e	0 a	85 c-e	55 h-j	0 a
5	Eradicane 6E	3.0	100 a	80 c-d	0 a	95 a-c	58 g-i	0 a
6	Eradicane + Bladex 4S	4.0 + 2.0	100 a	83 c-d	0 a	95 a-c	80 b-f	0 a
7	Eradicane + Bladex 4S	6.0 + 2.0	100 a	95 a-b	0 a	100 a	90 a-c	0 a
8	Eradicane + Aatrex 4L	3.0 + 1.0	100 a	83 c-d	0 a	100 a	83 b-a	0 a
9	Sutan ⁺ 6.7E	4.0	98 a-b	70 d-e	0 a	93 a-a	53 i-j	0 a
10	Sutan ⁺ 6.7E	6.0	100 a	75 d-e	0 a	100 a	70 d-i	0 a
11	Sutan ⁺ + Aatrex 4L	3.0 + 1.0	92 a-d	85 c-d	0 a	98 a-b	88 a-d	0 a
12	Sutan ⁺ + R-291486-.25E	4.0	95 a-c	70 d-e	0 a	90 b-a	60 f-i	0 a
13	Sutan ⁺ + R-291486-.25E	8.0	100 a	78 d-e	0 a	98 a-b	73 c-i	0 a
14	Vernam 6.7E + Aatrex 4L	3.0 + 1.0	98 a-b	85 c-d	0 a	93 a-c	70 d-i	0 a
15	Vernam 6.7E + R-25788 6-.3E	3.0	95 a-d	70 d-e	0 a	95 a-c	58 g-i	0 a
16	Vernam 6.7E + R-29148 6-.25E	3.0	90 a-f	73 d-e	0 a	90 a-d	55 h-j	0 a
17	Vernam 6.7E + R-29148 6-.25E	6.0	93 a-d	75 d-e	0 a	93 a-e	58 g-i	0 a
18	Eptam + R-29148 6-.25E	3.0	100 a	73 d-e	0 a	93 a-e	63 e-i	0 a
19	Eptam + R-29148 6-.25E	6.0	100 a	83 c-d	13 a-b	95 a-c	70 c-i	5.0 a
20	R-31401 2E	2.0	85 c-a	78 c-d	0 a	75 a	63 e-i	0 a
21	R-31401 2E	4.0	98 a-b	95 a-b	0 a	90 a-d	93 a-b	0 a
22	R-31401 2E + Sutan ⁺ 6E	1.0 + 4.0	98 a-b	88 b-d	0 a	95 a-c	78 c-g	0 a
23	R-31401 2E + Sutan ⁺ 6E	2.0 + 4.0	95 a-d	93 b-c	0 a	98 a-b	93 a-b	0 a
24	M-4053 2 lbs. "Dowco 338"	1.0	28 h	15 g	0 a	75 e	28 k	0 a
25	M-4053 2 lbs. "Dowco 338"	2.0	35 f-g	35 f	0 a	60 c-e	23 k	5.0 a
26	Vel 5026 80W	.2	42 g-h	38 f	0 a	48 f	35 j-k	0 a
27	Vel 5026 80W	.4	65 b-e	75 d-e	10 a-b	90 a-d	60 f-i	5.0 a
28	Vel 5028 45W	.38	52 g	60 e	0 a	45 f	55 h-j	0 a
29	Vel 5028 45W	.75	83 d-e	83 c-d	5 a-b	78 d-e	75 c-h	2.5 a
30	Check (cultivated)	0	100 a	100 a	0 a	100 a	100 a	0 a

^{1/} Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters. FERTILIZATION: 300 lbs/A 16-16-16 + 150 lbs/A N Treated & Planted: May 13
 *All treatments are preplant incorporated. LOCATION: Main Chance VARIETY: 3369A Soil type - Silt Loam pH 5.5 O.M. 3.7

CORN - FREPLANT Incorporated - 1974
Department of Agronomy
University of Kentucky

Trt. No.	Herbicide Evaluation	Rate lbs/A active	% CONTROL				Yield Bu/A	Corn Plants 100/A at harvest
			Pigweed	Jimsonweed	Velvetleaf	Cocklebur		
1	Bas-72461 4 lbs. *	4.0	88 a-b	75 a-e	75 a-c	28 g-j	129 b-g	16.9 a-c
2	Bas-72461 4 lbs.	8.0	85 a	80 a-d	80 a-c	60 b-g	74 h	13.3 d
3	Prefix 4 lbr.	4.0	88 a	73 a-e	58 b-e	65 b-f	148 a-f	19.5 a-b
4	CGA 18762 80W	2.5	60 b-d	60 b-g	43 e-g	23 h-j	131 b-g	18.8 a-b
5	Eradicane 6E	3.0	83 a-b	48 d-h	58 b-a	30 f-j	128 b-g	17.9 a-c
6	Eradicane + Bladex 4S	4.0 + 2.0	85 a-b	68 a-f	78 a-c	70 a-e	141 a-g	17.1 a-c
7	Eradicane + Bladex 4S	6.0 + 2.0	83 a-c	83 a-c	83 a-b	83 a-c	157 a-d	18.7 a-b
8	Eradicane + Aatrex 4L	3.0 + 1.0	83 a-c	83 a-c	83 a-b	73 a-d	166 a	20.3 a-b
9	Sutan + 6.7E	4.0	80 a-c	30 g-i	43 e-g	20 h-j	134 a-g	19.0 a-b
10	Sutan + 6.7E	8.0	90 a	68 a-f	73 a-d	63 b-f	137 a-g	17.9 a-c
11	Sutan + Aatrex 4L	3.0 + 1.0	85 a	90 a	90 a	93 a	136 a-g	19.0 a-b
12	Sutan + R-291486-.25E	4.0	85 a-b	78 a-e	75 a-c	58 b-g	111 g	18.7 a-b
13	Sutan + R-291486-.25E	8.0	85 a	73 a-e	73 a-d	53 c-h	152 a-e	19.6 a-b
14	Vernam 6.7E + Aatrex 4L	3.0 + 1.0	85 a-b	55 c-g	75 a-c	65 b-e	160 a-c	20.2 a-b
15	Vernam 6.7E + R-25788 6-.3E	3.0	93 a	38 f-h	73 a-d	43 d-i	120 e-g	17.8 a-c
16	Vernam 6.7E + R-29148 6-.25E	3.0	88 a	45 e-h	70 a-e	70 a-e	143 a-g	17.3 a-c
17	Vernam 6.7E + R-29148 6-.25E	6.0	80 a-c	43 f-h	75 a-c	60 b-g	143 a-g	18.8 a-b
18	Eptam + R-29148 6-.25E	3.0	85 a	45 e-h	58 b-e	50 c-h	156 a-d	19.7 a-b
19	Eptam + R-29148 6-.25E	6.0	85 a	80 a-c	73 a-d	50 d-i	128 c-g	14.5 c-d
20	R-31401 2E	2.0	83 a-c	75 a-e	45 d-g	58 b-g	157 a-c	20.6 a
21	R-31401 2E	4.0	90 a	83 a-c	83 a-b	83 a-c	162 a-b	19.9 a-b
22	R-31401 2E + Sutan + 6E	1.0 + 4.0	90 a	83 a-c	83 a-b	70 a-e	155 a-d	20.6 a
23	R-31401 2E + Sutan + 6E	2.0 + 4.0	88 a	88 a-b	88 a	83 a-b	167 a	18.8 a-b
24	M-4053 2 lbs. "Dowco 338"	1.0	55 c-d	20 h-i	20 g-h	20 h-j	115 f-g	16.6 b-d
25	M-4053 2 lbs. "Dowco 338"	2.0	70 a-d	10 i	10 h	10 i-j	121 e-g	17.9 a-c
26	Vel 5026 80W	.2	73 a-d	23 h-i	23 g-h	30 f-j	115 g	18.7 a-b
27	Vel 5026 80W	.4	83 a-b	45 e-h	50 c-f	35 e-j	128 b-g	19.0 a-b
28	Vel 5028 45W	.38	73 d	33 g-i	28 g-h	38 e-j	124 d-g	17.2 a-c
29	Vel 5028 45W	.75	70 a-d	83 a-d	80 a-c	80 a-c	166 a	18.7 a-b
30	Check (cultivated)	0	100 a	100 a	100 a	100 a	142 a-g	17.5 a-c

NO-TILL CORN BLUEGRASS SOD - 1974

Department of Agronomy
University of Kentucky

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Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 24		
			Grasses	% CONTROL Broadleaf	Sodkill
1	Astrex 4L + Paraquat 2E + X-77*	2.0 + .25 + .5%	98 a-b <u>1/</u>	100 a	100 a
2	Princep 4L + Paraquat 2E + X-77	2.0 + .25 + .5%	98 a-b	98 a-b	98 a
3	Bladex 4S + Paraquat 2E + X-77	3.0 + .25 + .5%	93 a-c	95 a-c	95 a
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	65 f	65 e-f	0 d
5	Lasso 4E + Paraquat 2E + X-77	2.5 + .25 + .5%	55 f	55 f	20 c
6	Lasso 4E + Roundup 3E	2.0 + 2.0	75 d-f	90 c-d	100 a
7	Lasso 4E + Roundup 3E	2.5 + 2.0	85 c-a	85 c-d	100 a
8	Astrex 4L + Roundup 3E	2.0 + 2.0	100 a	100 a	100 a
9	Princep 4L + Roundup 3E	2.0 + 2.0	85 c-d	93 a-c	90 a
10	Bladex 4S + Roundup 3E	3.0 + 2.0	90 b-d	93 a-c	100 a
11	Bladex 4S + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	98 a-b	100 a	100 a
12	Princep 4L + Lasso 4E + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	100 a	100 a	100 a
13	Lasso 4E + Astrex 4L + Roundup 3E	2.0 + 1.0 + 2.0	93 a-c	100 a	100 a
14	Lasso 4E + Sencor 50W + Paraquat 2E + X-77	2.5 + .5 + .25 + .5%	100 a	100 a	100 a
15	Desiccate .5E	1.0	60 f	65 e-f	0 d
16	Desiccate .5E + Astrex 4L	1.0 + 2.0	95 a-c	98 a-b	98 a
17	R-31401 2 E + Paraquat 2E + X-77	2.0 + .25 + .5%	98 a-b	98 a-b	95 a
18	R-31401 2 E + Paraquat 2E + X-77	3.0 + .25 + .5%	95 a-c	100 a	100 a
19	R-31401 2 E + R-24191 50W + X-77	2.0 + .5 + .5%	85 b-c	85 b-d	58 b
20	R-31401 2 E + R-24191 50W + X-77	3.0 + 1.0 + .5%	95 a-c	98 a-b	93 a
21	R-24191 50W + Astrex 4L + X-77	.5 + 2.0 + .5%	55 f	55 f	0 d
22	R-24191 50W + X-77	1.0 + .5%	55 f	60 e-f	0 d
23	H-22234 2 E + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	70 e-f	78 d-e	48 b
24	Princep 4L + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	100 a	100 a	100 a

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

Soil type silt loam

FERTILIZATION: 200 lbs/A N

TREATED: May 10

O.M 4.0

VARIETY: 3369 A

PLANTED: May 20

pH 6.0

*All Treatments Preemergence

NO-TILL CORN BLUEGRASS SOD - 1974
 Department of Agronomy
 University of Kentucky

Ttt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation July 26		
			Grasses	% CONTROL Broadleaf	Sodkill
1	Astrex 4L + Paraquat 2E + X-77*	2.0 + .25 + .5%	63 d-g	85 a-d	100 a
2	Princep 4L + Paraquat 2E + X-77	2.0 + .25 + .5%	83 a-c	83 a-c	88 a
3	Bladex 4S + Paraquat 2E + X-77	3.0 + .25 + .5%	58 f-g	73 c-d	100 a
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	60 e-g	73 c-d	28 c-d
5	Lasso 4E + Paraquat 2E + X-77	2.5 + .25 + .5%	55 f-g	75 c-d	5- b-c
6	Lasso 4E + Roundup 3E	2.0 + 2.0	50	65 d	100 a
7	Lasso 4E + Roundup 3E	2.5 + 2.0	60 e-g	68 c-d	100 a
8	Astrex 4L + Roundup 3E	2.0 + 2.0	85 a	95 a	98 a
9	Princep 4L + Roundup 3E	2.0 + 2.0	65 c-g	80 b-d	100 a
10	Bladex 4S + Roundup 3E	3.0 + 2.0	50 g	70 c-d	100 a
11	Bladex 4S + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	83 a-d	93 a-b	100 a
12	Princep 4L + Lasso 4E + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	80 a-e	85 a-d	93 a
13	Lasso 4E + Astrex 4L + Roundup 3E	2.0 + 1.0 + 2.0	68 c-g	85 a-d	100 a
14	Lasso 4E + Sencor 50W + Paraquat 2E + X-77	2.5 + .5 + .25 + .5%	88 a-b	95 a	100 a
15	Desiccate .5E	1.0	70 b-g	70 c-d	5.0 d
16	Desiccate .5E + Astrex 4L	1.0 + 2.0	68 c-g	80 b-d	75 a-b
17	R-31401 2 E + Paraquat 2E + X-77	2.0 + .25 + .5%	63 d-g	75 c-d	100 a
18	R-31401 2 E + Paraquat 2E + X-77	3.0 + .25 + .5%	83 a-c	95 a	100 a
19	R-31401 2 E + R-24191 50W + X-77	2.0 + .5 + .5%	70 b-g	70 c-d	8.0 d
20	R-31401 2 E + R-24191 50W + X-77	3.0 + 1.0 + .5%	75 a-f	95 a	100 a
21	R-24191 50W + Astrex 4L + X-77	.5 + 2.0 + .5%	70 b-g	70 c-d	18 d
22	R-24191 50W + X-77	1.0 + .5%	65 c-g	70 c-d	20 c-d
23	R-22234 2 E + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	55 f-g	70 c-d	30 c-d
24	Princep 4L + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	90 a	95 a	100 a

NO-TILL CORN BLUEGRASS SOC - 1974

Department of Agronomy
University of Kentucky

Txt. No.	Herbicide Formulation	Rate lbs/A active	Yield bu/A	CORN PLANTS 100/A at harvest
1	Aatrex 4L + Paraquat 2E + X-77*	2.0 + .25 + .5%	134 a	17.8 a
2	Princep 4L + Paraquat 2E + X-77	2.0 + .25 + .5%	154 a	16.1 a
3	Bledax 4S + Paraquat 2E + X-77	3.0 + .25 + .5%	155 a	19.4 a
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	140 a	19.0 a
5	Lasso 4E + Paraquat 2E + X-77	2.5 + .25 + .5%	140 a	16.2 a
6	Lasso 4E + Roundup 3E	2.0 + 2.0	148 a	19.0 a
7	Lasso 4E + Roundup 3E	2.5 + 2.0	155 a	21.5 a
8	Aatrex 4L + Roundup 3E	2.0 + 2.0	134 a	19.8 a
9	Princep 4L + Roundup 3E	2.0 + 2.0	139 a	17.9 a
10	Bledax 4S + Roundup 3E	3.0 + 2.0	126 a	16.7 a
11	Bledax 4S + Aatrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	126 a	17.1 a
12	Princep 4L + Lasso 4E + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	126 a	15.8 a
13	Lasso 4E + Aatrex 4L + Roundup 3E	2.0 + 1.0 + 2.0	141 a	17.4 a
14	Lasso 4E + Sencor 50S + Paraquat 2E + X-77	2.5 + .5 + .25 + .5%	154 a	18.9 a
15	Desiccate .5E	1.0	107 a	16.0 a
16	Desiccate .5E + Aatrex 4L	1.0 + 2.0	134 a	16.5 a
17	R-31401 2E + Paraquat 2E + X-77	2.0 + .25 + .5%	134 a	17.8 a
18	R-31401 2E + Paraquat 2E + X-77	3.0 + .25 + .5%	166 a	20.3 a
19	R-31401 2E + R-24191 50W + X-77	2.0 + .5 + .5%	147 a	18.3 a
20	R-31401 2E + R-24191 50W + X-77	3.0 + 1.0 + .5%	130 a	17.5 a
21	R-24191 50W + Aatrex 4L + X-77	.5 + 2.0 + .5%	114 a	14.4 a
22	R-24191 50W + X-77	1.0 + .5%	123 a	18.1 a
23	H-22234 2 E + Aatrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	156 a	18.4 a
24	Princep 4L + Aatrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	124 a	15.7 a

NO-TILL CORN STALKLAND 1974
 Department of Agronomy
 University of Kentucky

Visual Evaluation June 24

CONTROL

Treat. No.	Herbicide Formulation	Rate		Grasses	Broadleaf	Crop Injury
		lbs/A	active			
1	Astrex 4L + Paraquat 2E + X-77 ^a	2.0	+ .25 + .5%	95 a-a	98 a-b	Ca
2	Princep 4L + Paraquat 2E + X-77	2.0	+ .25 + .5%	85 b-b	93 b-c	Ca
3	Bladex 4E + Paraquat 2E + X-77	3.0	+ .25 + .5%	98 a-b	58 f	Ca
4	Lasso 4E + Paraquat 2E + X-77	2.0	+ .25 + .5%	93 a-c	75 d-f	Ca
5	Lasso 4E + Paraquat 2E + X-77	2.5	+ .25 + .5%	88 a-c	65 f	Ca
6	Lasso 4E + Roundup 3E	2.0	+ 2.0	83 b-c	60 f	Ca
7	Lasso 4E + Roundup 3E	2.5	+ 2.0	68 a-c	65 f	Ca
8	Astrex 4L + Roundup 3E	2.0	+ 2.0	95 a-d	100 a	Ca
9	Princep 4L + Roundup 3E	2.0	+ 2.0	95 a-d	88 b-d	Ca
10	Bladex 4E + Roundup 3E	3.0	+ 2.0	100 e	73 e-f	Ca
11	Bladex 4E + Astrex 4L + Paraquat 2E + X-77	2.0	+ 1.0 + .25 + .5%	95 a-c	88 c-e	Ca
12	Princep 4L + Lasso 2E + Paraquat 2E + X-77	2.0	+ 1.0 + .25 + .5%	98 a-b	95 a-e	Ca
13	Lasso 4E + Astrex 4L + Roundup	2.0	+ 1.0 + 2.0	98 a-b	95 a-b	Ca
14	Lasso 4E + Sencor 50W + Paraquat 2E + X-77	2.5	+ .5 + .25 + .5%	100 a	90 b-c	Ca
15	Basisto .5E	1.0		10 e	10 g	Ca
16	Basisto + Astrex 4L	1.0	+ 2.0	85 b-c	95 a-e	Ca
17	R-31401 2 lbs. + Paraquat 2E + X-77	2.0	+ .25 + .5%	90 a-c	95 a-e	Ca
18	R-31401 2 lbs. + Paraquat 2E + X-77	3.0	+ .25 + .5%	90 a-c	98 a-b	Ca
19	R-31401 2 lbs. + R-24191 50W + X-77	2.0	+ .5 + .5%	75 c-d	93 b-c	Ca
20	R-31401 2 lbs. + R-24191 50W + X-77	3.0	+ 1.0 + .5%	90 a-c	98 a-b	Ca
21	R-24191 50W + Astrex 4L + X-77	.5	+ 2.0 + .5%	20 e	20 g	Ca
22	R-24191 50 W + X-77	1.0	+ .5%	10 e	10 g	Ca
23	X-22234 2 lbs. + Astrex 4L + Paraquat 2E + X-77	2.0	+ 1.0 + .25 + .5%	55 d	58 f	Ca
24	Princep 4L + Astrex 4L + Paraquat 2E + X-77	2.0	+ 1.0 + .25 + .5%	100 a	100 a	Ca

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

* All treatments preemergence
 FERTILIZATION: 200 lbs/A N

VARIETY: 3349 A
 TREATED: May 10
 PLANTED: May 20
 Soil type silt loam
 O.N 4.0
 pH 5.6

NO-TILL CORN STALKLAND 1974
 Department of Agronomy
 University of Kentucky

Visual Evaluation July 26

TTC. No.	Herbicide Formulation	Rate lbs/A active	%		Crop Injury
			Grasses	Broadleaf	
1	Astrex 4L + Paraquat 2E + X-77*	2.0 + .25 + .5%	75 a-f	89 a-d	0 a
2	Princep 4L + Paraquat 2E + X-77	2.0 + .25 + .5%	85 a-b	70 b-d	0 a
3	Bladex 4S + Paraquat 2E + X-77	3.0 + .25 + .5%	90 a-b	38 a-g	0 a
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	83 a-d	58 a-g	0 a
5	Lasso 4E + Paraquat 2E + X-77	2.5 + .25 + .5%	88 a-b	30 c	0 a
6	Lasso 4E + Roundup 3E	2.0 + 2.0	88 a-b	28 g	0 a
7	Lasso 4E + Roundup 3E	2.5 + 2.0	88 a-b	38 a-g	0 a
8	Astrex 4L + Roundup 3E	2.0 + 2.0	78 a-e	90 a-c	0 a
9	Princep 4L + Roundup 3E	2.0 + 2.0	88 a-b	65 c-e	0 a
10	Bladex 4S + Roundup 3E	3.0 + 2.0	88 a-b	50 a-g	0 a
11	Bladex 4S + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	88 a-b	38 b-d	0 a
12	Princep 4L + Lasso 2E + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	83 a-d	90 a-b	0 a
13	Lasso 4E + Astrex 4L + Roundup	2.0 + 1.0 + 2.0	80 a-e	83 a-d	0 a
14	Lasso 4E + Sencor 50W + Paraquat 2E + X-77	2.5 + .5 + .25 + .5%	83 a-d	75 a-d	0 a
15	Desiccate .5E	1.0	48 f-h	38 a-g	0 a
16	Desiccate + Astrex 4L	1.0 + 2.0	55 a-h	75 a-d	0 a
17	R-31401 2 lbs. + Paraquat 2E + X-77	2.0 + .25 + .5%	68 b-f	80 a-d	0 a
18	R-31401 2 lbs. + Paraquat 2E + X-77	3.0 + .25 + .5%	83 a-c	93 a	0 a
19	R-31401 2 lbs. + R-24191 50W + X-77	2.0 + .5 + .5%	55 d-h	85 a-c	0 a
20	R-31401 2 lbs. + R-24191 50W + X-77	3.0 + 1.0 + .5%	70 a-f	85 a-d	0 a
21	R-24191 50W + Astrex 4L + X-77	.5 + 2.0 + .5%	48 h	35 f-g	0 a
22	R-24191 50W + X-77	1.0 + .5%	35 g-h	38 a-g	0 a
23	H-22234 2 lbs. + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	60 c-g	60 d-f	0 a
24	Princep 4L + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	93 a	93 a	0 a

NO-TILL CORN STALKLAND 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Yield Bu/A	CORN PLANTS 100/A at harvest
1	Astrex 4L + Paraquat 2E + X-77*	2.0 + .25 + .5%	173 a-b	21.0 a
2	Princep 4L + Paraquat 2E + X-77	2.0 + .25 + .5%	164 a-c	20.9 a
3	Bladex 4S + Paraquat 2E + X-77	3.0 + .25 + .5%	152 a-d	22.4 a
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	158 a-c	22.6 a
5	Lasso 4E + Paraquat 2E + X-77	2.5 + .25 + .5%	148 a-e	22.0 a
6	Lasso 4E + Roundup 3E	2.0 + 2.0	156 a-c	21.0 a
7	Lasso 4E + Roundup 3E	2.5 + 2.0	142 b-e	20.2 a
8	Astrex 4L + Roundup 3E	2.0 + 2.0	167 a-c	23.6 a
9	Princep 4L + Roundup 3E	2.0 + 2.0	157 a-c	19.5 a
10	Bladex 4S + Roundup 3E	3.0 + 2.0	162 a-c	22.6 a
11	Bladex 4S + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	150 a-a	22.3 a
12	Princep 4L + Lasso 2E + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	174 a-b	22.4 a
13	Lasso 4E + Astrex 4L + Roundup	2.0 + 1.0 + .20	156 a-c	21.8 a
14	Lasso 4E + Sencor 50W + Paraquat 2E + X-77	2.5 + .5 + .25 + .5%	165 a-c	23.9 a
15	Desiccate .5E	1.0	120 e-f	21.0 a
16	Desiccate + Astrex 4L	1.0 + 2.0	137 c-e	22.4 a
17	R-31401 2 lbs. + Paraquat 2E + X-77	2.0 + .25 + .5%	169 a-c	22.2 a
18	R-31401 2 lbs. + Paraquat 2E + X-77	3.0 + .25 + .5%	169 a-c	24.1 a
19	R-31401 2 lbs. + R-24191 50W + X-77	2.0 + .5 + .5%	148 a-e	20.0 a
20	R-31401 2 lbs. + R-24191 50W + X-77	3.0 + 1.0 + .5%	151 a-e	21.5 a
21	R-24191 50W + Astrex 4L + X-77	.5 + 2.0 + .5%	124 d-f	20.3 a
22	R-24191 50W + X-77	1.0 + .5%	106 f	17.7 a
23	H-22234 2 lbs. + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	153 a-d	21.9 a
24	Princep 4L + Astrex 4L + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	176 a	23.0 a

CORN MOBIL COMPARISONS - 1974
Department of Agronomy
University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 24			Visual Evaluation July 25		
			Grasses	% CONTROL Broadleaf	Crop Injury	Grasses	% CONTROL Broadleaf	Crop Injury
1	MoDown 2E*	2.0	85 b-d <u>1/</u>	90 a-d	10 b-c	70 e	80 b-e	0 a
2	MoDown 2E encapsulated*	2.0	83 b-d	85 a-d	0 a	78 c-e	78 b-f	0 a
3	MoDown + Lasso 4E*	1.5 + 2.0	93 a-b	93 a-b	20 c	95 a-b	93 a-b	5.0 a
4	MoDown + Lasso *	2.0 + 2.0	93 a-b	85 b-e	13 b-c	93 b-c	88 b-d	3.0 a
5	Mobil 8475 2E*	1.5	80 b-d	68 c-f	3.0 a-b	73 d-e	45 g-i	0 a
6	Mobil + MoDown 2E*	1.5 + 1.5	85 b-d	88 a-d	15 c	80 c-e	75 b-f	8.0 a
7	Mobil 8479 2E*	1.5	78 b-d	53 e-h	0 a	70 e	45 g-i	0 a
8	Mobil 8479 + MoDown 2E*	1.5 + 1.5	88 b-c	90 a-c	13 b-c	78 c-e	88 b-d	8.0 a
9	Mobil 5714 80W*	.5	68 c-d	50 f-h	0 a	78 c-e	38 h-j	0 a
10	Mobil 5714 80W*	1.0	83 b-d	65 c-g	10 a-c	83 c-e	50 f-i	3.0 a
11	Mobil 5714 80W*	2.0	93 a-b	83 b-d	50 d	88 b-d	68 d-g	10
12	AAtrex 4L*	2.0	78 b-d	63 d-g	0 a	88 b-c	90 a-c	0 a
13	Lasso 4E*	2.0	85 b-d	68 c-f	0 a	80 c-e	55 e-i	0 a
14	Mobil 8475 2E**	.75	65 d	28 h	0 a	70 e	15 j	0 a
15	Mobil 8475 2E**	1.5	65 c-d	45 f-h	0 a	70 e	15 j	0 a
16	Mobil 8475 2E + MoDown 2lbs.**	1.5 + 1.5	85 b-d	73 b-f	10 a-c	95 a-b	70 c-g	3.0 a
17	Mobil 8479 2E**	.75	58 d	33 g-h	0 a	73 d-e	35 i-j	0 a
18	Mobil 8479 2E**	1.5	63 d	43 f-h	0 a	70 e	33 i-j	0 a
19	Mobil 8479 2E + MoDown 2E**	1.5 + 1.5	85 b-d	70 b-f	3.0 a-b	83 c-e	73 b-f	0 a
20	Eradicane 6E**	3.0	93 a-b	88 a-d	0 a	93 b-c	65 d-h	0 a
21	Sutan ⁺ 6.7E**	4.0	90 a-b	85 b-a	0 a	93 b-c	78 b-f	0 a
22	Check (Cultivated)	.0	100 a	100 a	0 a	100 a	100 a	0 a

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

* Preemergence

**Preplant incorporated

Location: Main Chance

Variety: 3369 A

Fertilization: 300 lbs/A 16-16-16 + 150 lbs/A N

Treated + Planted: May 13

Soil Type: Silt Loam

O.M. 3.7

Fh 5.5

CORN MOBIL COMPARISONS - 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Yield BU/AC.	CORN PLANTS 100/A at harvest
1	MoDown 2E*	2.0	146 a-d	22.1 a-b
2	McDown 2E encapsulated*	2.0	139 b-e	20.9 d-f
3	McDown + Lasso 4E*	1.5 + 2.0	151 a-c	22.0 a-c
4	MoDown + Lasso *	2.0 + 2.0	150 a-c	21.6 b-d
5	Mobil 8475 2E*	1.5	122 e-f	22.6 a
6	Mobil + MoDown 2E*	1.5 + 1.5	146 a-d	22.6 a
7	Mobil 8479 2E*	1.5	145 a-d	21.6 b-d
8	Mobil 8479 + MoDown 2E*	1.5 + 1.5	157 a-b	21.2 c-e
9	Mobil 5714 80W*	.5	141 b-e	22.3 a-b
10	Mobil 5714 80W*	1.0	133 c-e	21.3 c-e
11	Mobil 5714 80W*	2.0	130 c-f	22.3 a-b
12	AAtrex 4L*	2.0	140 b-e	19.9 g-h
13	Lasso 4E*	2.0	144 f-g	20.6 e-g
14	Mobil 8475 2E**	.75	127 d-f	20.6 e-g
15	Mobil 8475 2E**	1.5	109 f	20.2 f-h
16	Mobil 8475 2E + MoDown 2lbs.**	1.5 + 1.5	167 a	19.6 h
17	Mobil 8479 2E**	.75	123 e-f	21.5 b-d
18	Mobil 8479 2E**	1.5	144 b-e	20.9 d-f
19	Mobil 8479 2E + MoDown 2E**	1.5 + 1.5	147 a-d	20.6 e-g
20	Eradicane 6E**	3.0	155 a-b	21.3 c-e
21	Sutan [†] 6.7E**	4.0	140 b-e	20.5 e-g
22	Check (Cultivated)	.0	167 a	21.6 b-d

CORN DOW & VELSICOL - 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	VISUAL EVALUTATION		Yield bu/A	CORN PLANTS 100/A at harvest
			% Control June 25 Crop Injury	% Control August 1 Crop Injury		
1	M-3734 Dow Co. 233 3E*	1.0	45 c ¹	0 a	109 b-d	17.1 a
2	M-3724 Dow Co. 233 3E	2.0	63 c	0 a	97 d-c	18.8 a
3	M-3724 Dow Co. 233 3E	4.0	70 c	0 a	104 b-f	18.3 a
4	M-4053 Dow Co. 338 2E	.5	0 a	0 a	112 b-d	19.8 a
5	M-4053 Dow Co. 338 2E	1.0	0 a	0 a	110 b-d	19.6 a
6	Check (Weedy)	.0	0 a	0 a	123 a-b	19.4 a
7	VEL 4359 50W	.5	3-a	0 a	110 b-d	18.1 a
8	VEL 4359 50W	1.0	4 a-b	0 a	99 d-e	19.5 a
9	VEL 4359 50W	2.0	13 a-b	0 a	111 b-d	18.4 a
10	VEL 4207 2E	.5	0 a	0 a	106 b-e	18.0 a
11	VEL 4207 2E	1.0	15 a-b	0 a	107 b-e	19.4 a
12	VEL 4207 2E	2.0	0	0 a	103 c-e	17.9 a
13	VEL 5052 2E	.5	20 a-b	0 a	102 c-e	16.9 a
14	VEL 5052 2E	1.0	5 a-b	0 a	98 d-e	19.6 a
15	VEL 5052 2E	2.0	0 a	0 a	106 b-e	17.0 a
16	VEL 5026 80W	.2	0 a	0 a	103 c-e	18.3 a
17	VEL 5026 80W	.4	10 a-b	0 a	121 a-c	19.6 a
18	VEL 5028 80W	.38	5 a-b	0 a	130 a	20.1 a
19	VEL 5028 80W	.75	5 a-b	0 a	97 d-e	16.0 a
20	BANVEL D 4S	1.5	5 a-b	0 a	100 d-e	19.9 a
21	BANVEL D 4S	1.0	3 a	0 a	107 b-e	18.6 a
22	BANVEL D 4S	2.0	13 b-b	0 a	88 e	18.3 a
23	Check (Cultivated)	.0	0 a	0 a	113 a-d	19.4 a

¹ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

*All treatments are preemergence

Location: Main Chance

Fertilization: 300 lb/A 16-16-16

Variety: 3369A

Treated & Planted: May 24

Soil Type Silt Loam

O.M. 6.1

pH 6.6

SOYBEAN - PREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 26			Visual Evaluation July 29		
			% CONTROL			% CONTROL		
			Grasses	Broadleaf	Crop Injury	Grasses	Broadleaf	Crop Injury
1	Lasso 4E *	2.0	88 b-g ^{1/}	73 c-i	0 j	85 b-e	53 i-p	0 i
2	Lorox 50W	.75	78 e-i	78 b-h	0 j	80 c-g	63 f-m	0 i
3	Sencor 50W	.38	80 d-i	75 c-i	0 j	80 c-g	60 f-m	0 i
4	Sencor 50W	.75	85 c-h	83 b-g	23 f-g	75 d-h	70 e-j	20 f-g
5	Preforan 3E	4.5	85 c-h	70 d-i	0 j	80 c-g	63 f-m	0 i
6	Maloran 50W	1.25	70 h-j	73 c-i	0 j	73 e-h	40 n-s	0 i
7	Surflan 75W	1.0	90 b-h	83 b-g	0 j	78 c-g	70 e-j	0 i
8	MER 12325 4S	2.0	60 i-j	45 h-l	0 j	75 d-h	23 r-v	0 i
9	A-820 4E	3.0	83 c-h	70 d-i	0 j	70 e-h	55 h-o	0 i
10	Basagran 4E	1.0	55 j	78 b-h	0 j	60 h	65 e-k	0 i
11	Surflan 75W + Sencor 50W	1.0 + .38	90 b-h	78 b-h	0 j	88 b-c	68 e-k	0 i
12	Surflan 75W + Sencor 50 W + Basagran 4E	1.0 + .38 + 1.0	98 a-b	100 a	0 j	93 b	93 b-c	0 i
13	Surflan 75W + Basagran 4E	1.0 + 1.0	88 c-h	93 b	0 j	80 b-f	95 a-b	0 i
14	Lasso 4E + Sencor 50W	2.0 + .25	95 a-c	83 b-g	3 i-j	88 b-d	70 e-j	0 i
15	Lasso 4E + Sencor 50W	2.0 + .38	93 a-e	73 d-i	0 j	90 b-c	73 d-i	0 i
16	Lasso 4E + Sencor 50W	2.0 + .5	95 a-c	88 b-d	25 g-h	85 b-e	75 f-i	0 i
17	Lasso 4E + Sencor 50W	2.0 + .75	90 b-h	83 b-g	28 e-g	90 b-c	78 d-h	23 f-g
18	Lasso 4E + Lorox 50W + Furloe 4E	2.0 + 1.5 + 2.0	93 a-e	85 b-g	0 j	90 b-c	75 d-i	0 i
19	Furloe 4E + Lasso 4E	2.0 + 2.0	93 a-e	78 b-h	0 j	78 c-g	68 e-j	0 i
20	Bladex 4S + Lasso 4E	1.0 + 2.0	90 b-h	75 c-i	0 j	85 b-e	58 g-o	0 i
21	Destun 50W	2.0	75 f-j	60 h-k	0 j	75 d-h	33 p-u	0 i
22	Destun 50W	3.0	83 c-h	55 i-k	0 j	70 e-h	33 p-u	0 i
23	Destun 50W	4.0	85 c-h	75 c-i	8 h-i	88 b-d	60 f-n	5 h
24	Destun 50 W + Sencor 50W	2.0 + .38	85 c-h	78 b-h	0 j	80 c-g	63 f-m	0 i
25	Destun 50W + Maloran 50W	2.0 + 1.25	88 c-h	75 c-i	0 j	80 c-g	58 g-o	0 i

^{1/} Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

* All treatments applied preemergence.

LOCATION: Spindletop

FERTILIZATION: 300 lbs. 16-16-16

VARIETY: Callend

TREATED & PLANTED: May 16

Soil type Silt loam

C.M 3.8

pH 6.4

SOYBEAN - PREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 26			Visual Evaluation July 29		
			% CONTROL			% CONTROL		
			Grasses	Broadleaf	Crop Injury	Grasses	Broadleaf	Crop Injury
26	Destun 50W + Lorox 50W	2.0 + .25	80 d-i	80 b-h	0 j	80 c-g	60 f-n	0 i
27	Bladex 4S + Lorox 50W	2.0 + .5	93 a-a	85 b-g	28 e-g	83 b-f	70 e-j	25 d-f
28	Preforan 3E + Maloran 50W	4.5 + 1.25	88 c-h	80 b-h	0 j	80 c-g	70 e-j	0 i
29	Prowl 3E + Sencor 50W	1.0 + .38	83 c-h	80 b-h	30 d-g	80 c-g	60 f-n	28 d-f
30	Prowl 3E + Sencor 50W	1.5 + .38	90 b-h	73 c-i	0 j	80 c-g	60 f-n	0 i
31	Maloran 50W + Lasso 4E	1.25 + 2.0	93 a-d	80 b-h	8 h-i	90 b-c	68 e-k	0 i
32	Lexone 50W + Surflan 75W	.38 + 1.0	75 f-j	60 h-k	0 j	80 c-g	65 e-k	0 i
33	Cobex 2E + Dyanap 2E	1.0 + 3.0	95 a-c	78 b-h	25 e-g	83 b-f	63 f-n	23 e-g
34	Surflan 75W + Dyanap 2E	1.0 + 3.0	88 c-h	78 b-h	0 j	83 b-f	78 d-g	0 i
35	Amiben 2E *	3.0	75 f-j	73 c-i	0 j	80 c-g	43 l-r	0 i
36	Amiben 2E + Sencor 50W	2.0 + .38	85 c-h	73 c-i	0 j	75 d-h	63 f-m	0 i
37	Amiben 2E + Lorox 50W	3.0 + 1.0	93 a-e	80 b-h	0 j	85 b-e	65 e-l	0 i
38	Amiben + Lasso 4E	2.0 + .2	90 b-f	75 c-i	0 j	80 c-g	40 m-s	0 i
39	A-820 4E + Sencor 50W	3.0 + .38	95 a-c	75 c-i	0 j	75 d-h	68 e-k	0 i
40	A-820 4E + Amiden 2E	3.0 + 3.0	83 c-h	68 f-i	0 j	85 b-e	53 i-p	0 i
41	Sencor 50W + Preforan 3E	.38 + 4.0	95 a-c	80 b-h	0 j	88 b-d	75 d-i	0 i
42	San-9789 80W	1.0	83 c-h	75 c-i	0 j	75 d-h	45 k-q	0 i
43	San-9789 80W	2.0	93 a-e	78 b-h	0 j	88 b-d	65 e-l	0 i
44	San-9789 80W + Sencor 50W	1.0 + .38	90 b-f	83 b-f	0 j	80 c-g	75 d-h	0 i
45	San-9789 80W + Sencor 50W	2.0 + .38	95 a-c	90 b-c	25 e-g	90 b-c	73 d-i	25 d-f
46	S-6044 3E	6.0	93 a-e	83 b-g	0 j	85 b-e	70 e-j	0 i
47	RH-2512 2E	1.0	95 a-c	83 b-g	0 j	83 c-g	65 e-l	0 i
48	RH-2512 2E	2.0	93 a-e	80 b-h	40 d-f	90 b-c	80 d-f	35 c-d
49	RH-2915 2E	.38	93 a-e	83 b-g	38 d-f	83 b-f	80 c-f	33 d-e
50	RH-2915 2E	.75	93 a-e	88 b-e	65 e	85 b-e	85 c-e	63 b

SOYBEAN - FREEMERGENCE 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 26			Visual Evaluation July 29		
			% CONTROL			% CONTROL		
			Grasses	Broadleaf	Crop Injury	Grasses	Broadleaf	Crop Injury
51	RH 2512 2E + Lasso 4E	.75 + 2.0	88 c-h	80 b-h	20 g	90 b-c	78 d-h	15 g
52	RH 2915 2E + Lasso 4E	.38 + 2.0	90 b-f	88 b-e	45 d	90 b-c	78 d-h	43 c
53	RH 2915 2E	1.0	90 b	90 b-c	70 c	80 c-g	90 b-d	65 b
54	H-25893 2E	3.0	90 b-h	68 e-i	0 j	83 b-f	45 k-q	0 i
55	H-26910 4E	3.0	90 b-h	70 d-i	0 j	83 b-f	53 i-p	0 i
56	NIA 25213 4E	1.0	88 c-h	70 d-i	0 j	70 e-h	43 l-h	0 i
57	NIA 25213 4E	2.0	80 d-i	68 e-i	0 j	80 c-g	48 j-q	0 i
58	NIA 25213 4E	3.0	90 b-f	83 b-f	0 j	88 b-d	78 d-g	0 i
59	NIA 25213 4E + Sencor 50W	1.0 + .38	93 a-e	80 b-h	0 j	88 b-d	70 e-j	0 i
60	HOE 22870 3E	1.5	70 h-j	23 m	0 j	70 f-h	15 u-v	0 i
61	HOE 22870 3E	3.0	78 e-i	28 m	0 j	70 e-h	13 v	0 i
62	HOE 23408 3E	1.5	75 f-j	33 l-m	0 j	70 e-h	18 t-v	0 i
63	HOE 23408 3E	3.0	80 d-i	43 k-l	0 j	70 e-h	23 s-u	0 i
64	M-4053 Dowco 338 2E	1.0	78 r-i	65 g-j	0 j	68 g-h	33 p-u	0 i
65	Vel 5026 80W	.2	75 f-j	73 c-i	8 h-i	68 g-h	30 q-u	5 h
66	Vel 5026 80W	.4	73 g-j	75 c-i	63 c	73 d-h	55 h-o	58 b
67	Vel 5028 45W	.38	85 c-h	83 b-f	88 b	75 d-h	35 o-t	88 a
68	Vel 5028 45W	.75	90 b-f	88 b-e	88 a	75 d-h	55 h-o	88 a
69	Check (Weedy)	0	0 k	0 n	0 j	0 i	0 w	0 i
70	Check (Cultivated)	0	100 a	100 a	0 j	100 a	100 a	0 i

Trt. No.	Herbicide Formulation	Rate lbs/A Active	% CONTROL		
			Pigweed	Jimsonweed	Velvetleaf
1	Lasso 4E*	2.0	88 a-g	10 h	10 r
2	Lorox 50W	.75	90 a-f	20 f-h	50 e-m
3	Sencor 50W	.38	73 f-j	25 e-h	70 b-h
4	Sencor 50W	.75	83 f-g	40 c-h	70 b-h
5	Preforan 3E	4.5	95 a-d	38 c-h	18 n-r
6	Maloran 50W	1.25	75 e-i	28 d-h	23 l-r
7	Surflan 75W	1.0	85 b-g	28 d-h	68 b-i
8	MER 12325 4S	2.0	10 m	10 h	10 r
9	A-820 4E	3.0	80 d-i	15 g-h	58 d-j
10	Basagran 4E	1.0	70 f-j	80 a-b	78 b-e
11	Surflan 75W + Sencor 50W	1.0 + .38	93 a-f	23 e-h	58 d-j
12	Surflan 75W + Sencor 50W + Basagran 4E	1.0 + .38 + 1.0	90 a-g	90 a	90 b
13	Surflan 75W + Basagran 4E	1.0 + 1.0	90 a-g	85 a	85 b-c
14	Lasso 4E + Sencor 50W	2.0 + .25	95 a-c	33 d-h	60 c-i
15	Lasso 4E + Sencor 50W	2.0 + .38	95 a-d	33 d-h	75 b-f
16	Lasso 4E + Sencor 50W	2.0 + .5	95 a-d	35 d-h	68 b-i
17	Lasso 4E + Sencor 50W	2.0 + .75	88 a-g	48 e-f	78 b-e
18	Lasso 4E + Lorox 50W + Furloe 4E	2.0 + 1.5 + 2.0	95 a-d	28 d-h	68 b-i
19	Furloe 4E + Lasso 4E	2.0 + 2.0	90 a-f	25 e-h	50 e-m
20	Bladex 4S + Lasso 4E	1.0 + 2.0	90 a-g	23 e-h	23 l-r
21	Destun 50W	2.0	53 i-k	28 d-h	23 l-r
22	Destun 50W	3.0	45 j-k	20 f-h	43 h-o
23	Destun 50W	4.0	75 c-i	35 d-h	48 f-m
24	Destun 50W + Sencor 50W	2.0 + .38	88 a-g	13 g-h	33 j-r
25	Destun 50W + Maloran 50W	2.0 + 1.25	85 b-g	23 e-h	70 b-h
26	Destun 50W + Lorox 50W	2.0 + .25	80 c-i	28 d-h	65 b-i
27	Bladex 4S + Lorox 50W	2.0 + .5	73 f-j	58 b-d	65 c-i
28	Preforan 3E + Maloran 50W	4.5 + 1.25	90 a-f	25 d-h	50 d-l
29	Prowl 3E + Sencor 50W	1.0 + .38	80 b-h	30 d-h	55 d-j
30	Prowl 3E + Sencor 50W	1.5 + .38	78 d-i	30 d-h	68 b-i
31	Maloran 50 W + Lasso 4E	1.25 + 2.0	95 a-d	33 d-h	55 d-j
32	Lexone 50W + Surflan 75W	.38 + 1.0	73 d-i	20 f-h	40 h-q
33	Cobex 2E + Dyanap 2E	1.0 + 3.0	78 d-i	23 e-h	40 h-q
34	Surflan 75W + Dyanap 2E	1.0 + 3.0	93 e-f	30 d-h	60 c-j
35	Amiben 2E *	3.0	78 e-h	15 g-h	18 n-r

SOYBEAN - PREEMERGENCE 1974

Visual Evaluation July 29

Trt. No.	Herbicide Formulation	Rate lbs/A Active	% CONTROL		
			Pigweed	Jimsonweed	Velvetleaf
36	Amiben 2E + Sencor 50W	2.0 + .38	70 f-j	38 c-h	58 d-j
37	Amiben 2E + Lorox 50W	3.0 + 1.0	85 b-g	23 e-h	70 b-h
38	Amiben + Lasso 4E	2.0 + .2	93 a-f	15 g-h	35 i-r
39	A-820 4E + Sencor 50W	3.0 + .38	85 b-g	18 f-h	55 d-j
40	A-820 4E + Amiden 2E	3.0 + 3.0	80 c-i	13 g-h	70 b-h
41	Sencor 50W + Preforan 3E	.38 + 4.0	95 a-d	23 e-h	70 b-h
42	San-9789 80W	1.0	58 h-j	53 b-f	50 d-l
43	San-9789 80W	2.0	88 a-g	38 c-h	55 d-j
44	San-9789 80W + Sencor 50W	1.0 + .38	92 a-e	50 c-f	78 b-c
45	San-9789 80W + Sencor 50W	2.0 + .38	90 a-g	40 c-g	65 c-i
46	S-6044 3E	6.0	98 a-b	20 f-h	45 g-n
47	RH 2512 2E	1.0	93 a-f	30 d-h	65 c-i
48	RH 2512 2E	2.0	95 a-d	35 c-h	73 b-g
49	RH-2915 2E	.38	85 b-h	90 a	90 b
50	RH 2915 2E	.75	90 a-b	65 a-c	78 b-d
51	RH 2512 2E + Lasso 4E	.75 + 2.0	93 a-f	40 c-h	63 c-i
52	RH 2915 2E + Lasso 4E	.38 + 2.0	90 a-b	43 c-g	68 b-i
53	RH 2915 2E	1.0	93 a-f	88 a	90 b
54	H-25893 2E	3.0	88 a-g	30 d-h	18 o-r
55	H-26910 4E	3.0	85 b-h	25 e-h	20 n-r
56	NIA 25213 4E	1.0	90 a-g	10 h	10 r
57	NIA 25213 4E	2.0	90 a-g	13 g-h	28 k-r
58	NIA 25213 4E	3.0	98 a-b	40 c-h	43 h-p
59	NIA 25213 4E + Sencor 50W	1.0 + .38	83 b-g	28 d-h	60 c-i
60	HOE 22870 3E	1.5	10 m	10 h	10 r
61	HOE 22870 3E	3.0	10 m	10 h	10 r
62	HOE 23408 3E	1.5	15 m	20 f-h	20 n-r
63	HOE 23408 3E	3.0	10 m	10 h	10 r
64	M-4053 Dowco 338 2E	1.0	53 i-k	15 g-h	15 q-r
65	Vel 5026 80W	.2	25 b-m	15 g-h	15 p-r
66	Vel 5026 80W	.4	65 g-j	40 e-h	53 d-k
67	Vel 5028 45W	.38	30 k-m	40 c-h	40 i-q
68	Vel 5028 45W	.75	53 i-k	58 b-d	58 d-j
69	Check (Weedy)	0	10 m	10 h	10 r
70	Check (Cultivated)	0	100 a	100 a	100 a

SOYBEAN - PREPLANT INCORPORATED & OVERLAY - 1994
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 26		Crop Injury
			Grass	% CONTROL Broadleaf	
1	Treflan 4E**	.75	93 a-c 1/	68 h-1	0 m
2	Treflan 4E**	1.0	93 a-c	70 g-1	0 m
3	Vernam 6.7E**	2.5	93 a-c	68 h-1	18 g-j
4	A-820 4E**	2.5	93 a-c	73 f-1	0 m
5	Lasso 4E**	2.5	95 a-c	80 d-1	0 m
6	Treflan 4E** + Maloran 50W*	.75 + 1.25	100 a	63 i-1	0 m
7	Treflan 4E** + Maloran 50W*	1.5 + 1.25	100 a	83 c-k	28 d-h
8	Treflan 4E** + Bladex 4S*	.75 + 1.0	98 a-b	78 d-1	0 m
9	Treflan 4E** + Bladex 4S*	1.0 + 1.0	93 a-c	75 e-1	0 m
10	Treflan 4E** + Amiben 4E*	.75 + 3.0	95 a-c	78 e-1	0 m
11	Treflan 4E** + Dyanap 2 + 1E**	1.0 + 4.0	98 a-b	89 b-h	35 c-f
12	Vernam 6.7E** + Dyanap 2+ 1E**	2.5 + 4.0	93 a-c	80 d-1	28 d-h
13	Vernam 6.7E** + Basagran 4E***	2.5 + 1.0	88 b-d	90 b-f	15 j-l
14	Vernam 6.7E** + Bladex 4S*	2.5 + 1.0	93 a-c	83 b-h	38 c-f
15	Vernam 6.7E** + R-31401 2E*	2.5 + 1.0	100 a	100 a	100 a
16	Basagran 4E***	1.0	23 f	78 d-1	0 m
17	Prowl 3E**	1.5	95 a-c	78 e-1	20 e-j
18	Prowl 3E** + Sencor 50W*	1.5 + .38	100 a	93 a-c	18 g-j
19	Cobex 2E**	.5	85 c-e	68 h-1	18 g-j
20	Cobex 2E** + Lorox 50W*	.5 + .5	93 a-c	78 d-1	0 m
21	Cobex 2E** + Maloran 50W*	.5 + 1.25	93 a-c	78 d-1	13 h-k
22	Cobex 2E** + MoDown 2E*	.5 + 2.0	90 a-c	83 c-k	25 d-i
23	Cobex 2E** + Bladex 4S*	.5 + 2.0	75 c-e	65 h-1	5 l-m
24	Treflan 4E + Basagran 4E***	.75 + 1.0	90 a-c	93 b-d	0 m
25	Cobex 2E** + Vernam 6.7E**	.38 + 2.5	95 a-c	83 b-i	20 f-j
26	Cobex 2E** + Dyanap**	.5 + 3.0	93 a-b	85 b-j	10 k-m
27	Tolban 4E**	1.0	95 a-c	95 a-c	0 m
28	Tolban 4E** + Maloran 50W*	1.0 + 1.25	93 a-c	93 a-c	18 g-j
29	Tolban 4E** + Maloran 50W*	2.0 + 2.5	100 a	90 b-e	18 g-j
30	Lexone 50W* + Cobex 2E**	.38 + .38	90 b-d	78 d-1	0 m
31	Lexone 50W* + Cobex 2E**	.38 + .5	85 c-e	93 b-d	0 m
32	Lexone 50W* + Cobex 2E**	.75 + .5	93 a-c	93 b-d	53 c
33	Lexone 50W* + Treflan 4E**	.38 + .75	98 a-b	85 b-g	13 h-k
34	Lexone 50W* + Treflan 4E**	.75 + .75	90 a-c	90 b-e	8 l-m
35	Lexone 50W* + Treflan 4E**	.38 + .75	95 a-c	83 c-k	0 m
36	Lexone 50W* + Treflan 4E**	.75 + .75	98 a-b	89 b-tr	40 c-d

SOYBEAN - PREPLANT INCORPORATED & OVERLAY - 1974

Department of Agronomy
University of Kentucky

Visual Evaluation June 26

Trt. No.	Herbicide Formulation	Rate lbs/A active	% CONTROL		
			Grass	Broadleaf	Crop Injury
37	Lexone 50W* + Cobex 2E**	.38 + .5	95 a-c	85 b-j	32 d-f
38	Lexone 50W* + Cobex 2E**	.75 + .5	88 b-d	75 e-l	0 m
39	Furloe 4E * + Treflan 4E**	2.0 + .75	93 a-c	78 e-l	0 m
40	Furloe 4E** + Treflan 4E**	2.0 + .75	95 a-c	70 g-l	0 m
41	Furloe 4E** + Vernam 6.7E**	2.0 + 2.5	98 a-b	83 c-k	38 c-e
42	Furloe 4E** + Tolban 4E**	2.0 + 1.0	92 a-c	73 f-l	0-m
43	Furloe 4E** + Cobex 2E**	2.0 + .5	93 a-c	78 e-l	30 d-f
44	Furloe 4E** + Lasso 4E**	2.0 + 2.5	95 a-c	80 d-l	15 i-k
45	San 9789* 80W + Treflan 4E**	2.0 + .75	95 a-c	93 b-d	5 l-m
46	San 9789* 80W + Cobex 2E**	2.0 + .5	95 a-c	90 b-e	8 l-m
47	M-4053 2E "Dow Co. 338"***	1.0	65 e	25 m	0 m
48	M-4053 2E "Dow Co. 338"***	2.0	80 c-e	60 k-l	0 m
49	Planavin 4E** + Bladex 4S*	1.0 + 1.6	90 b-d	73 f-l	0 m
50	RH 2915 2E**	.75	90 b-d	95 a-b	33 d-f
51	RH 2915 2E**	1.5	93 a-c	85 b-j	73 b
52	RH 2915 2E** + Vernam 6.7E**	.75 + 2.0	95 a-c	90 b-e	78 b
53	Vel 5026 80W**	.2	70 d-e	65 i-l	10 k-m
54	Vel 5026 80W**	.4	90 b-d	80 d-l	28 d-h
55	Vel 5028 45W**	.38	78 c-e	68 h-l	70 b
56	Vel 5028 45W**	.75	93 a-c	93 b-d	100 a
57	R-31401 2E*	1.0	100 a	100 a	100 a
58	Check (Cultivated)	.0	100 a	100 a	0 m

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

*Preemergence

**Preplant

***Post

Location: Spindletop

Fertilization: 300 lbs/A 16-16-16

Variety: Calland

Treated & Planted: May 17

Soil type: Silt Loam

O.M. 3-2

pH 6.2

SOYBEAN - PREPLANT INCORPORATED & OVERLAY - 1974

Department of Agronomy
University of Kentucky

Visual Evaluation July 30

Trt. No.	Herbicide Formulation	Rate lbs/A active	% CONTROL		
			Grass	Broadleaf	Crop Injury
1	Treflan 4E**	.75	85 b-g	58 f-p	0 e
2	Treflan 4E**	1.0	88 b-f	60 e-o	0 e
3	Vernam 6.7E**	2.5	85 b-f	55 g-g	0 e
4	A-820 4E**	2.5	83 b-g	45 j-g	0 e
5	Lasso 4E**	2.5	90 a-f	60 e-o	0 e
6	Treflan 4E** + Maloran 50W*	.75 + 1.25	83 b-f	50 g-g	0 a
7	Treflan 4E** + Maloran 50W*	1.5 + 1.25	93 a-c	78 b-i	0 e
8	Treflan 4E** + Bladex 4S*	.75 + 1.0	88 b-f	65 d-n	0 e
9	Treflan 4E** + Bladex 4S*	1.0 + 1.0	90 a-f	55 g-g	0 e
10	Treflan 4E** + Amiben 4E*	.75 + 3.0	85 a-f	60 e-o	0 e
11	Treflan 4E** + Dyanap 2 + 1E**	1.0 + 4.0	90 a-f	68 d-d	8 d-a
12	Vernam 6.7E** + Dyanap 2+ 1E**	2.5 + 4.0	90 a-d	60 e-o	0 e
13	Vernam 6.7E** + Basagran 4E***	2.5 + 1.0	88 b-f	88 b-d	0 e
14	Vernam 6.7E** + Bladex 4S*	2.5 + 1.0	93 a-e	75 b-j	0 e
15	Vernam 6.7E** + R-31401 2E*	2.5 + 1.0	100 a	100 a	100-a
16	Basagran 4E***	1.0	35 h	48 i-g	0 e
17	Prowl 3E**	1.5	88 b-f	63 l-n	0 e
18	Prowl 3E** + Sencor 50W*	1.5 + .38	90 a-f	78 b-h	5 d-e
19	Cobex 2E**	.5	70 e-g	40 m-g	0 e
20	Cobex 2E** + Lorox 50W*	.5 + .5	87 b-f	63 e-n	0 e
21	Cobex 2E** + Maloran 50W*	.5 + 1.25	85 b-f	55 g-g	0 e
22	Cobex 2E** + MoDown 2E*	.5 + 2.0	88 b-f	78 b-i	0 e
23	Cobex 2E** + Bladex 4S*	.5 + 2.0	85 b-f	50 h-g	0 e
24	Treflan 4E + Basagran 4E***	.75 + 1.0	88 b-f	88 a-c	0 e
25	Cobex 2E** + Vernam 6.7E**	.38 + 2.5	80 b-g	58 f-p	0 e
26	Cobex 2E** + Dyanap**	.5 + 3.0	80 b-g	65 d-n	0 e
27	Tolban 4E**	1.0	85 b-f	50 g-g	0 e
28	Tolban 4E** + Maloran 50W*	1.0 + 1.25	85 b-f	43 m-g	0 e
29	Tolban 4E** + Maloran 50W*	2.0 + 2.5	93 a-e	80 b-g	0 e
30	Lexone 50W* + Cobex 2E**	.38 + .38	88 b-f	70 c-l	0 e
31	Lexone 50W* + Cobex 2E**	.38 + .5	85 b-g	60 e-o	0 e
32	Lexone 50W* + Cobex 2E**	.75 + .5	88 b-f	80 b-g	40.-f
33	Lexone 50W* + Treflan 4E**	.38 + .75	88 b-f	78 b-h	20. c-d
34	Lexone 50W* + Treflan 4E**	.75 + .75	90 e-r	70 c-l	0 e
35	Lexone 50W* + Treflan 4E**	.38 + .75	83 b-g	63 e-n	15 d-e

SOYBEAN - PREPLANT INCORPORATED & OVERLAY - 1974

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Visual Evaluation July 30

Trt. No.	Herbicide Formulation	Rate lbs/A active	% CONTROL		
			Grass	Broadleaf	Crop Injury
37	Lexone 50W* + Cobex 2E**	.38 + .5	83 b-g	75 b-j	0 e
38	Lexone 50W* + Cobex 2E**	.75 + .5	75 c-g	50 g-g	0 e
39	Furloe 4E * + Treflan 4E**	2.0 + .75	88 b-f	63 e-n	0 e
40	Furloe 4E** + Treflan 4E**	2.0 + .75	85 b-f	40 n-g	0 e
41	Furloe 4E** + Vernam 6.7E**	2.0 + 2.5	85 a-f	60 e-o	0 e
42	Furloe 4E** + Tolban 4E**	2.0 + 1.0	78 c-g	60 e-o	0 e
43	Furloe 4E** + Cobex 2E**	2.0 + .5	85 b-f	65 d-m	5 d-e
44	Furloe 4E** + Lasso 4E**	2.0 + 2.5	88 b-f	50 g-g	0 e
45	San 9789* 80W + Treflan 4E**	2.0 + .75	93 a-e	80 b-h	0 e
46	San 9789* 80W + Cobex 2E**	2.0 + .5	93 a-a	80 b-h	0 e
47	M-4053 2E "Dow Co. 338"***	1.0	73 d-g	28 g	0 e
48	M-4053 2E "Dow Co. 338"***	2.0	60 g	28 p-q	0 e
49	Planavin 4E** + Bladex 48*	1.0 + 1.6	83 b-g	50 g-q	0 e
50	RH 2915 2E**	.75	85 b-f	88 b-d	8.0 d-e
51	RH 2915 2E**	1.5	88 b-f	88 b-e	30 b-c
52	RH 2915 2E** + Vernam 6.7E**	.75 + 2.0	95 a-b	85 b-f	8 d-e
53	Vel 5026 80W**	.2	70 f-g	35 m-q	0 a
54	Vel 5026 80W**	.4	75 d-g	43 l-q	13.0 d-e
55	Vel 5028 45W**	.38	70 f-g	30 o-q	40 b
56	Vel 5028 45W**	.75	75 c-g	53 g-q	100 a
57	R-31401 2E*	1.0	93 a-c	93 a-b	100 a
58	Check (Cultivated)	.0	100 a	100 a	0 a

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Visual Evaluation - July 30

Trt. No.	Herbicide Formulation	Rate lbs/A active	% CONTROL		
			Pigweed	Limsonweed	Velvetleaf
1	Treflan 4E**	.75	83 a-e	28 i-n	40 i-r
2	Treflan 4E**	1.0	88 a-e	23 i-n	48 g-p
3	Vernam 6.7E**	2.5	78 b-e	25 i-n	50 f-o
4	A-820 4E**	2.5	93 a-e	23 i-n	23 o-r
5	Lasso 4E**	2.5	95 a-c	33 i-n	43 h-r
6	Treflan 4E** + Maloran 50W*	.75 + 1.25	75 b-e	33 i-n	48 g-p
7	Treflan 4E** + Maloran 50W*	1.5 + 1.25	100 a	20 k-n	70 e-l
8	Treflan 4E** + Bladex 4S*	.75 + 1.0	98 a-b	48 f-k	40 i-r
9	Treflan 4E** + Bladex 4S*	1.0 + 1.0	83 b-e	23 i-n	20 o-r
10	Treflan 4E** + Amiben 4E*	.75 + 3.0	98 a-b	25 i-n	55 e-n
11	Treflan 4E** + Dyanap 2 + 1E**	1.0 + 4.0	93 a-e	35 h-n	60 e-l
12	Vernam 6.7E** + Dyanap 2 + 1E**	2.5 + 4.0	73 c-f	28 i-n	60 e-l
13	Vernam 6.7E** + Basagran 4E***	2.5 + 1.0	88 a-e	83 b-d	90 a-c
14	Vernam 6.7E** + Bladex 4S*	2.5 + 1.0	88 a-e	65 c-h	70 c-i
15	Vernam 6.7E** + R-31401 2E*	2.5 + 1.0	100 a	100 a	100 a
16	Basagran 4E***	1.0	33-g	70 c-g	70 c-j
17	Prowl 3E**	1.5	93 a-e	40 g-n	43 h-r
18	Prowl 3E** + Sencor 50W*	1.5 + .38	93 a-d	48 f-k	70 c-i
19	Cobex 2E**	.5	70 d-f	15 i-n	15 q-r
20	Cobex 2E** + Lorox 50W*	.5 + .5	88 a-e	35 h-n	43 h-r
21	Cobex 2E** + Maloran 50W*	.5 + 1.25	78 b-e	20 j-n	25 n-r
22	Cobex 2E** + MoDown 2E*	.5 + 2.0	90 a-e	30 i-n	67 c-i
23	Cobex 2E** + Bladex 4S*	.5 + 2.0	68 d-f	40 g-n	60 e-l
24	Treflan 4E + Basagran 4E***	.75 + 1.0	95 a-c	88 b-c	85 b-e
25	Cobex 2E** + Vernam 6.7E**	.38 + 2.5	90 a-e	10 l-n	65 d-k
26	Cobex 2E** + Dyanap**	.5 + 3.0	83 b-e	22 i-n	35 j-r
27	Tolban 4E**	1.0	73 c-f	28 i-n	33 k-r
28	Tolban 4E** + Maloran 50W*	1.0 + 1.25	93 a-e	12 m-n	50 f-p
29	Tolban 4E** + Maloran 50W*	2.0 + 2.5	100 a	50 e-k	78 c-g
30	Lexone 50W* + Cobex 2E**	.38 + .38	88 a-e	38 g-n	70 c-i
31	Lexone 50W* + Cobex 2E**	.38 + .5	83 b-e	28 i-n	58 e-m
32	Lexone 50W* + Cobex 2E**	.75 + .5	95 a-c	53 d-j	70 c-i
33	Lexone 50W* + Treflan 4E**	.38 + .75	95 a-c	38 g-n	70 c-i
34	Lexone 50W* + Treflan 4E**	.75 + .75	93 a-d	53 d-j	70 c-g
35	Lexone 50W* + Treflan 4E**	.38 + .75	85 a-e	43 g-m	40 i-r
36	Lexone 50W* + Treflan 4E**	.75 + .75	93 a-d	33 i-n	68 c-j

SOYBEAN - PREPLANT INCORPORATED & OVERLAY - 1974

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Treat. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation - July 30		
			% CONTROL		
			Pigweed	Jimsonweed	Velvetleaf
37	Lexone 50W* + Cobex 2E**	.38 + .5	88 a-e	33 h-m	73 c-h
38	Lexone 50W* + Cobex 2E**	.75 + .5	68 e-f	23 i-n	28 m-r
39	Furloe 4E* + Treflan 4E**	2.0 + .75	93 a-c	33 h-n	67 i-j
40	Furloe 4E** + Treflan 4E**	2.0 + .75	83 b-e	20 j-n	25 m-r
41	Furloe 4E** + Vernam 6.7E**	2.0 + 2.5	90 a-c	40 g-n	70 c-i
42	Furloe 4E** + Tolban 4E**	2.0 + 1.0	75 c-f	30 i-n	45 h-q
43	Furloe 4E** + Cobex 2E**	2.0 + .5	93 a-c	40 q-m	45 h-r
44	Furloe 4E** + Labso 4E**	2.0 + 2.5	90 a-e	20 j-n	35 j-r
45	San 9789* 80W + Treflan 4E**	2.0 + .75	98 a-b	55 d-i	68 c-j
46	San 9789* 80W + Cobex 2E**	2.0 + .5	90 a-b	48 f-k	50 f-o
47	H-4053 2E "Dow Co. 338"***	1.0	15 g	15 m-n	15 r
48	H-4053 2E "Dow Co. 338"***	2.0	70 d-f	28 i-n	25 n-r
49	Planavin 4E** + Bladex 43*	1.0 + 1.6	78 c-e	25 i-n	28 l-r
50	RH 2915 2E**	.75	95 a-c	90 a-c	90 b-d
51	RH 2915 2E**	1.5	93 a-c	73 b-f	88 b-d
52	RH 2915 2E** + Vernam 6.7E**	.75 + 2.0	98 a-b	80 b-c	80 b-f
53	Vel 5026 80W**	.2	25 g	18 k-n	18 p-r
54	Vel 5026 80W**	.4	43 f-g	27 i-n	30 l-r
55	Vel 5028 45W**	.38	20 g	10 n	30 l-r
56	Vel 5028 45W**	.75	63 e-f	100 a	68 c-i
57	R-31401 2E*	1.0	95 a-c	95 a-b	95 a-f
58	Check (Cultivated)	.0	100 a	100 a	100 a

SOYBEAN - METRIBUZIN COMBINATIONS - 1974

Department of Agronomy
University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation June 27			Visual Evaluation July 30		
			% CONTROL			% CONTROL		
			Grass	Broadleaf	Crop Injury	Grass	Broadleaf	Crop Injury
1	Metribuzin 50W + Tolban 4E**	.38 + 1.0	98 a-b 1/	85 d-h	5.0 a-b	88 a-d	75 a-f	0 a
2	Metribuzin 50W + Tolban 4E**	.5 + 1.0	90 a-b	88 c-f	28 b-d	86 a-d	78 a-d	0 a
3	Metribuzin 50W + Tolban 4E**	.75 + 1.0	98 a-b	88 c-h	35 c-d	88 a-d	70 b-f	3.0 a
4	Metribuzin 50W**+ Tolban 4E**	.38 + 1.0	90 b	83 d-h	5.0 a-b	88 a-d	68 b-f	0 a
5	Metribuzin 50W**+ Tolban 4E**	.38 + 2.0	90 b	83 d-h	0 a	85 a-d	70 a-f	0 a
6	Metribuzin 50W + Treflan 4E**	.38 + .75	90 b-c	80 e-h	0 a	88 a-c	70 b-f	0 a
7	Metribuzin 50W**+ Treflan 4E**	.38 + 1.5	95 a-b	88 c-h	0 a	93 a-b	80 c-d	0 a
8	Metribuzin 50W + Treflan 4E**	.75 + .75	98 a-b	90 c-e	28 b-d	88 a-d	73 a-f	0 a
9	Metribuzin 50W + A-820 4E**	.38 + 2.5	100 a	88 c-h	5.0 a-b	90 a-b	75 a-f	0 a
10	Metribuzin 50W**+ A-820 4E**	.38 + 2.5	98 a-b	83 d-h	8.0 a-b	86 a-d	83 a-d	0 a
11	Metribuzin 50W + Cobex 2E**	.38 + .38	93 a-b	88 e-g	15 a-c	80 c-e	68 b-f	0 a
12	Metribuzin 50W**+ Cobex 2E**	.38 + .5	73 d	73 h-i	0 a	75 d-e	50 f	0 a
13	Metribuzin 50W + Cobex 2E**	.38 + .5	95 a-b	83 d-h	8.0 a-b	83 b-e	70 a-f	0 a
14	Metribuzin 50W**+ Cobex 2E**	.38 + .38	73 d	80 e-h	0 a	78 c-e	63 b-f	0 a
15	Metribuzin 50W + Cobex 2E**	.38 + 2.0	100 a	95 a-c	90 a	88 a-c	68 b-f	80 c
16	Metribuzin 50W**+ Lasso 4E**	.38 + 2.0	98 a-b	88 c-g	5.0 a-b	90 a-b	73 a-f	0 a
17	Metribuzin 50W + Lasso 4E**	.38 + 2.0	95 a-b	80 e-h	0 a	90 a-b	75 a-f	0 a
18	Metribuzin 50W + Lasso 4E**	.5 + 2.0	93 a-b	85 d-h	13 a-c	63 e	58 d-f	0 a
19	Metribuzin 50W**+ Planavin 4S**	.38 + 1.0	100 a	75 g-h	5.0 a-b	88 a-d	80 a-d	0 a
20	Metribuzin 50W**+ Planavin 4S**	.75 + 2.0	100 a	90 c-e	23 b-d	93 a-b	83 a-b	0 a
21	Metribuzin 50W + Planavin 4S**	.38 + 1.0	90 a-b	88 c-g	20 a-c	85 a-d	78 a-d	0 a
22	Metribuzin 50W + Planavin 4S**	.75 + 2.0	95 a-b	95 a-c	25 b-d	90 a-b	78 a-d	3.0 a
23	Metribuzin 50W + Vernam 6.7E	.38 + 2.5	98 a-b	88 c-g	45 d	80 c-e	60 c-f	10 a-b
24	Metribuzin 50W + Surflan 75W**	.38 + 1.0	95 a-b	85 d-h	5.0 a-b	88 a-d	75 a-f	0 a
25	Metribuzin 50W + Surflan 75W**	.5 + 1.0	100 a	93 b-d	23 b-d	90 a-b	73 a-f	5 a-b
26	Metribuzin 50W**+ Treflan 4E**	.38 + .74 + 1	93 a-b	98 a-b	5.0 a-b	85 a-d	83 a-d	0 a
	+ Basagran 4E**							
27	Metribuzin 50W**	.38	75 c-d	80 e-h	0 a	65 e	55 e-f	0 a
28	Metribuzin 50W*	.38	70 d	78 f-h	0 a	75 d-a	58 c-f	0 a
29	Basagran 4E**	1.0	20 e	58 i	0 a	13 f	13 g	0 a
30	Check (cultivated)	0	100 a	100 a	0 a	100 a	100 a	0 a

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters

LOCATION: Spindletop

Variety: CALLAND

SOYBEAN - METRIBUZIN COMBINATIONS - 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation July 30		
			% CONTROL		
			Pigweed	Jimsonweed	Velvetleaf
1	Metribuzin 50W + Tolban 4E**	.38 + 1.0	90 a-c	33 c-f	75 a-e
2	Metribuzin 50W + Tolban 4E**	.5 + 1.0	98 a	68 b-c	80 a-d
3	Metribuzin 50W + Tolban 4E**	.75 + 1.0	93 a-d	20 d-f	70 b-f
4	Metribuzin 50W**+ Tolban 4E**	.38 + 1.0	88 a-d	38 c-f	70 b-f
5	Metribuzin 50W**+ Tolban 4E**	.38 + 2.0	90 a-c	15 e-f	48 e-f
6	Metribuzin 50W + Treflan 4E**	.38 + .75	85 a-f	50 c-e	70 b-f
7	Metribuzin 50W**+ Treflan 4E**	.38 + 1.5	95 a-c	63 b-c	85 a-b
8	Metribuzin 50W + Treflan 4E**	.75 + .75	95 a-c	45 c-f	73 a-f
9	Metribuzin 50W + A-820 4E**	.38 + 2.5	95 a-c	20 d-f	70 b-f
10	Metribuzin 50W**+ A-820 4E**	.38 + 2.5	98 a	55 b-c	75 a-e
11	Metribuzin 50W + Cobex 2E**	.38 + .38	98 a	20 d-f	58 c-f
12	Metribuzin 50W**+ Cobex 2E**	.38 + .5	68 d-f	15 e-f	43 f
13	Metribuzin 50W + Cobex 2E**	.38 + .5	98 a	20 d-f	73 a-f
14	Metribuzin 50W**+ Cobex 2E**	.38 + .38	58 f	15 e-f	70 b-f
15	Metribuzin 50W + Cobex 2E**	.38 + 2.0	88 a-c	45 c-f	63 b-f
16	Metribuzin 50W**+ Lasso 4E**	.38 + 2.0	98 a	48 c-f	70 b-f
17	Metribuzin 50W + Lasso 4E**	.38 + 2.0	95 a-c	45 c-f	75 a-e
18	Metribuzin 50W + Lasso 4E**	.5 + 2.0	70 c-f	35 c-f	63 b-f
19	Metribuzin 50W**+ Planavin 4S**	.38 + 1.0	98 a	45 c-f	63 b-f
20	Metribuzin 50W**+ Planavin 4S**	.75 + 2.0	95 a-c	66 b-c	83 a-c
21	Metribuzin 50W + Planavin 4S**	.38 + 1.0	88 a-d	53 c-e	68 b-f
22	Metribuzin 50W + Planavin 4S**	.75 + 2.0	93 a-c	53 c-e	75 a-e
23	Metribuzin 50W + Vernam 6.7E	.38 + 2.5	98 a	20 d-f	50 e-f
24	Metribuzin 50W + Surflan 75W**	.38 + 1.0	93 a-d	40 c-f	70 b-f
25	Metribuzin 50W + Surflan 75W**	.5 + 1.0	98 a	25 d-f	58 c-f
26	Metribuzin 50W**+ Treflan 4E** + Basagran 4E**	.38 + .74 + 1	90 a-e	90 a-b	90 a-b
27	Metribuzin 50W**	.38	63 e-f	10 f	53 d-f
28	Metribuzin 50*	.38	78 b-f	35 c-f	70 b-f
29	Basagran 4E***	1.0	20 g	10 f	50 e-f
30	Check (cultivated)	0	100 a	100 a	100 a

METHOD OF APPLICATION *Preemergence ***Post **Preplant incorporated Fertilization: 300 lbs/A 16-16-16
 Soil type - silt loam Treated & Planted: May 17 O.M. 3.2 pH 6.0

SOYBEAN STUDIES - 1974
 Department of Agronomy
 University of Kentucky

Visual Evaluation August 7

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation August 7		
			Grass	% CONTROL Broadleaf	Crop Injur
1	Bladex 4S + Roundup 3E*	1.0 + 2.0	63 c-e 1/	35 e	0 b
2	Bladex 4S + Paraquat 2E + X-77	1.0 + .25 + .5%	70 a-d	53 d-e	0 b
3	Lasso 4E	2.0	30 g	65 b-d	0 b
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	53 c-d	75 a-d	0 b
5	Lasso 4E + Roundup 3E + Dyanap 3E	2.0 + 2.0 + 4.0	90 a	85 a-b	5 b
6	Lasso 4E + Lorox 50W + Roundup 3E	2.0 + 1.0 + 2.0	88 a-b	90 a	0 b
7	Lasso 4E + Maloran 50W + Roundup 3E	2.0 + 1.25 + 2.0	88 a-b	88 a-b	0 b
8	Lasso 4E + Sencor 50W + Roundup 3E	2.0 + .38 " "	83 a-c	80 a-b	0 b
9	Lasso 4E + Sencor 50W + Roundup 3E	2.0 + .25 " "	80 a-d	88 a-b	0 b
10	Lasso 4E + Sencor 50W + Roundup 3E	2.0 + .5 " "	83 a-c	90 a	0 b
11	Roundup 3E	2.0	30 g	35 e	0 b
12	Surflan 75W + Paraquat 2E + X-77	1.0 + .25 + .5%	65 b-c	80 a-b	5 b
13	Surflan 75W + Roundup 3E	1.0 + 1.0	83 a-c	85 a-b	0 b
14	Surflan 75W + Paraquat 2E + X-77	1.5 + .25 + .5%	65 b-e	85 a-b	20-a
15	Surflan 75W + Roundup 3E	1.5 + 1.0	88 a-b	78 a-c	0 b
16	Surflan 75W + Lorox 50W + Paraquat 2E + X-77	1.0 + 1.0 + .25 + .5%	88 a-b	90 a	0 b
17	Surflan 75W + Lorox 50W + Roundup 3E	1.0 + 1.0 + 1.0	90 a	90 a	0 b
18	Surflan 75W + Lorox 50W + Paraquat 2E + X-77	1.5 + 1.0 + .25 + .5%	83 a-c	88 a-b	0 b
19	Surflan 75W + Lorox 50W + Roundup 3E	1.5 + 1.0 + 1.0	90 a	90 a	0 b
20	Surflan 75W + Sencor 50W + Paraquat 2E + X-77	1.0 + .38 + .25 + .5%	75 a-e	83 a-b	8 b
21	Surflan 75W + Sencor 50W + Roundup 3E	1.0 + .38 + 1.0	85 a-c	88 a	5 b
22	Surflan 75W + Sencor 50W + Paraquat 2E + X-77	1.5 + .38 + .25 + .5%	88 a-b	90 a	8 b
23	Surflan 75W + Sencor 50W + Roundup 3E	1.5 + .38 + 1.0	88 a-b	88 a-b	3 b
24	Lexone 50W + Paraquat 3E + X-77	.38 + .25 + .5%	68 a-e	85 a-b	0 b
25	Lexone 50W + X-77	.38 + .5%	25 g	55 c-e	0 b
26	Lexone 50W + Lasso 4E + Roundup 3E	.38 + 2.0 + 1.0	80 a-d	85 a-e	0 b
27	Lexone 50W + Lasso 4E + Roundup 3E	.75 + 2.0 + 2.0	80 a-d	88 a-b	0 b
28	Maloran 50W + Paraquat 2E + X-77	1.25 + .25 + .5%	80 a-d	85 a-b	0 b
29	RH-2512 2E + Paraquat 2E + X-77	1.0 + .25 + .5%	58 d-f	78 a-c	0 b
30	RH-2915 2E + Paraquat 2E + X-77	.5 + .25 + .5%	70 a-e	78 a-c	0 b
31	NIA - 25213 4E	2.0	20 g	40 e	0 b
32	Desiccate .5E	1.0	25 g	53 d-e	0 b
33	Desiccate .5E + Lasso 4E	1.0 + 2.0	35 f-g	80 a-b	0 b
34	Lasso 4E + Bladex 4S + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	83 a-c	85 a-b	0 b

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters. All Treatments are preemergence Location: Maine Chance Variety: Calland Tracked & Planted: July 1

SOYBEAN STUBBLE - 1974
 Department of Agronomy
 University of Kentucky

Treat. No.	Herbicide Formulation	Rate lbs/A active	VISUAL EVALUATION SEPTEMBER 7	
			% CONTROL Grass	Yield BU/A
1	Bladex 4S + Roundup 3E*	1.0 + 2.0	85 a-d	24 a-d
2	Bladex 4S + Paraquat 2E + X-77	1.0 + .25 + .5%	60 f-e	23 a-e
3	Lasso 4E	2.0	28 k-l	14 e-h
4	Lasso 4E + Paraquat 2E + X-77	2.0 + .25 + .5%	40 j-k	17 c-g
5	Lasso 4E + Roundup 3E + Dyanap 3E	2.0 + 2.0 + 4.0	63 e-j	20 b-f
6	Lasso 4E + Lorox 50W + Roundup 3E	2.0 + 1.0 + 2.0	85 g-e	26 a-d
7	Lasso 4E + Maloran 50W + Roundup 3E	2.0 + 1.25 + 2.0	90 a-b	27 a-c
8	Lasso 4E + Sencor 50W + Roundup 3E	2.0 + .38 " "	83 a-e	24 a-d
9	Lasso 4E + Sencor 50W + Roundup 3E	2.0 + .25 " "	70 c-i	30 a
10	Lasso 4E + Sencor 50W + Roundup 3E	2.0 + .5 " "	78 b-i	28 a-b
11	Roundup 3E	2.0	28 k-l	15 d-h
12	Surflan 75W + Paraquat 2E + X-77	1.0 + .25 + .5%	53 i-j	18 c-g
13	Surflan 75W + Roundup 3E	1.0 + 1.0	80 b-g	22 a-f
14	Surflan 75W + Paraquat 2E + X-77	1.5 + .25 + .5%	58 g-i	16 c-g
15	Surflan 75W + Roundup 3E	1.5 + 1.0	90 a-b	25 a-d
16	Surflan 75W + Lorox 50W + Paraquat 2E + X-77	1.0 + 1.0 + .25 + .5%	83 a-g	25 a-d
17	Surflan 75W + Lorox 50W + Roundup 3E	1.0 + 1.0 + 1.0	95 a	27 a-c
18	Surflan 75W + Lorox 50W + Paraquat 2E + X-77	1.5 + 1.0 + .25 + .5%	83 a-f	24 a-d
19	Surflan 75W + Lorox 50W + Roundup 3E	1.5 + 1.0 + 1.0	85 a-f	21 a-f
20	Surflan 75W + Sencor 50W + Paraquat 2E + X-77	1.0 + .38 + .25 + .5%	63 e-j	22 a-c
21	Surflan 75W + Sencor 50W + Roundup 3E	1.0 + .38 + 1.0	83 a-f	20 a-f
22	Surflan 75W + Sencor 50W + Paraquat 2E + X-77	1.5 + .38 + .25 + .5%	88 a-c	21 a-f
23	Surflan 75W + Sencor 50W + Roundup 3E	1.5 + .38 + 1.0	85 a-f	25 a-d
24	Lexone 50W + Paraquat 3E + X-77	.38 + .25 + .5%	43 i-k	22 a-e
25	Lexone 50W + X-77	.38 + .5%	15 l	12 f-h
26	Lexone 50W + Lasso 4E + Roundup 3E	.38 + 2.0 + 1.0	73 b-i	23 a-e
27	Lexone 50W + Lasso 4E + Roundup 3E	.75 + 2.0 + 2.0	80 b-h	24 a-e
28	Maloran 50W + Paraquat 2E + X-77	1.25 + .25 + .5%	68 d-i	22 a-e
29	RH-2512 2E + Paraquat 2E + X-77	1.0 + .25 + .5%	55 h-j	20 c-f
30	RH-2915 2E + Paraquat 2E + X-77	.5 + .25 + .5%	70 b-i	22 a-e
31	NIA - 25213 4E	2.0	10 l	8 g-h
32	Desiccate .5E	1.0	20 h-l	6 h
33	Desiccate .5E + Lasso 4E	1.0 + 2.0	15 l	10 g-h
34	Lasso 4E + Bladex 4S + Paraquat 2E + X-77	2.0 + 1.0 + .25 + .5%	83 a-1	27 a-c

Soil Type Silty Loam O.M. 3.7 pH 5.6

SOYBEAN - POST 1974
Department of Agronomy
University of Kentucky

Tt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation Aug. 8			Visual Evaluation Sept. 20			Yield bu/A
			% CONTROL			% CONTROL			
			Grass	Broad- leaf	Crop Injury	Grass	Broad- leaf	Crop Injury	
1	Amiben 2E ^{oo}	3.0	100 a	1/ 95 a-b	0 c	100 a	93 a-b	0 c	30.1 a-b
2	Amiben 2E*	3.0	100 a	78 d-f	0 c	100 a	63 d-e	0 c	26.4 a-d
3	Butrac 200 4E ^{ooo}	.2	100 a	93 a-c	0 c	100 a	90 a-c	0 c	26.1 a-d
4	Butrac 200 4E ^{ooo}	.2	100 a	73 d-f	0 c	100 a	68 d-e	0 c	26.4 a-d
5	Butrac 200 4E ^{ooo} + Lorox 50 ^{ooo}	.2 + .25	100 a	73 d-f	0 c	100 a	63 d-e	0 c	34.9 a
6	Ethrel 2E 1st bloom	.5	100 a	73 d-f	0 c	100 a	63 d-e	0 c	30.1 a-b
7	Ethrel 2E 1st bloom	1.0	100 a	58 f	0 c	100 a	53 d-e	0 c	34.1 a
8	Bas-3924 4E ^o	1.0	100 a	75 d-f	0 c	100 a	65 d-e	0 c	18.8 d
9	Bas-3924 4E ^o	1.5	100 a	78 d-f	0 c	100 a	68 d-e	0 c	31 a-b
10	Bas-3924 4E ^o + Basagran 4E**	1.0 + .75	100 a	63 e-f	0 c	100 a	60 d-e	0 c	32.8 a-b
11	Bas-3924 4E ^o + Basagran 4E**	1.5 + .75	100 a	80 d-f	0 c	100 a	73 d-e	0 c	28.9 a-c
12	Mbr-12325 4S***	.5	100 a	73 d-f	28 a-b	100 a	58 d-e	18 b	18.9 d
13	Mbr-12325 4S***	.75	100 a	83 c-e	3 c	100 a	73 d-e	0 c	28.3 a-c
14	Mbr-12325 4S***	1.0	100 a	73 d-f	35 a	100 a	65 d-e	25 a	24.3 b-d
15	Mbr-12325 4S****	.5	100 a	83 b-d	3 c	100 a	75 b-d	0 c	17.3 d
16	Mbr-12325 4S****	.75	100 a	60 e-f	23 b	100 a	50 e	20 a	20.1 c-d
17	Mbr-12325 4S****	1.0	100 a	85 b-d	28 a-b	100 a	80 c-d	20 a	23.7 b-d
18	Check (cultivated)	0	100 a	100 a	0 c	100 a	100 a	0 c	24.9 b-d

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

TIME OF APPLICATION: ^o Preplant incorporated
^{oo} Cracking
^{ooo} 8-10" directed
* 1st Trifoliolate
** 3rd Trifoliolate post
*** 2-3 Trifoliolate
**** 5-6 Trifoliolate

LOCATION: Spindletop
VARIETY: Calland
PLANTED: May 22
Soil Type Silt Loam
O.M 6.1
pH 6.6

* 1.0 BAS 3924 4E was applied
preplant incorporated on all
treatments except 9 & 11.

SOYBEAN MOBIL COMPARISONS - 1974

Department of Agronomy
University of Kentucky

Trt. No.	Herbicide Formulation	Method of Application	Rate lbs/A AI	Visual Evaluation June 25			Visual Evaluation Aug. 13		
				% Control			% Control		
				Grass	Broad-leaf	Crop Injury	Grass	Broad-leaf	Crop Injury
1	Modown 2E	PRE	2.0	83 b-d	83 b-c	13 a	75 b	48 a-e	0 a
2	Modown 2E Encapsulated	PRE	2.0	75 c-d	75 b-e	5.0 a	78 b	48 a-e	0 a
3	Modown 2E + Lasso 4E	PRE	1.5 + 2.0	90 b-c	73 b-e	5.0 a	70 b	48 a-e	0 a
4	Modown 2E + Lasso 4E	PRE	2.0 + 2.0	90 b-c	88 b	10 a	75 b	65 a	0 a
5	Mobil 8475 2E	PRE	1.5	70 d-e	70 c-f	5.0 a	73 b	20 c-e	0 a
6	Mobil 8475 2E + Modown 2E	PRE	1.5 + 1.5	78 c-d	78 b-d	5.0 a	73 b	40 a-e	0 a
7	Mobil 8479 2E	PRE	1.5	85 b-d	63 d-f	5.0 a	70 b	25 a-e	0 a
8	Mobil 8479 2E + Modown 2E	PRE	1.5 + 1.5	78 c-d	78 b-d	5.0 a	75 b	50 a-d	0 a
9	Lasso 4E	PRE	2.0	88 b-c	73 b-e	0 a	73 b	20 b-e	0 a
10	Mobil 8475 2E	PPI	.75	78 c-d	57 e-g	0 a	75 b	28 a-e	0 a
11	Mobil 8475 2E	PPI	1.5	78 c-d	63 d-f	0 a	73 b	15 d-e	0 a
12	Mobil 8475 2E + Modown 2E	PPI + PRE	1.5 + 1.5	85 b-d	83 b-c	5.0 a	73 b	33 a-e	0 a
13	Mobil 8479 2E	PPI	.75	53 e	40 g	0 a	65 b	10 e	0 a
14	Mobil 8479 2E	PPI	1.5	83 b-d	53 f-g	0 a	70 b	10 e	0 a
15	Mobil 8479 2E + Modown 2E	PPI + PRE	1.5 + 1.5	83 b-d	83 b-c	3.0 a	73 b	55 a-c	0 a
16	Treflan 4E	PPI	.75	90 b-c	68 c-f	0 a	73 b	28 a-e	0 a
17	Cobex 2E	PPI	.5	85 b-c	73 b-e	5.0 a	70 b	13 d-e	0 a
18	Modown 2E + Treflan 4E	PRE + PPI	1.5 + .75	93 b	85 b-c	10 a	75 b	45 a-e	0 a
19	Modown 2E + Cobex 2E	PRE + PPI	2.0 + .5	83 b-d	80 b-d	25 a	75 b	60 a-b	0 a
20	Check (cultivated)	---	0	100 a	100 a	0 a	100 a	100 a	0 a

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters

LOCATION: Spindletop
 VARIETY: Calland
 FERTILIZATION: 300 lbs/A 16-16-16
 TREATED & PLANTED: May 17

Soil type - silt loam
 0.m 3.8
 pH 6.4

ALFALFA ESTABLISHMENT - 1974
 Department of Agronomy
 University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A active	Visual Evaluation	Yield
			% CONTROL Crop Injury	July 10 Tons/A at harvest
1	Treflan 4E*	.75	0 a 1/	1.33 b
2	Surflan 75W	1.0	38 c	1.13 e
3	Balan 1.5E	1.5	0 a	1.4 a
4	Tolban 4E	1.0	3 a-b	1.25 c-d
5	Tolban 4E	2.0	3 a-b	1.43 a
6	Cobex 2E	.5	18 a-b	1.22 d
7	Cobex 2E	1.0	20 a-c	1.24 c-d
8	Gulf-6044 6E	3.0	15 b-c	1.24 c-d
9	Gulf-6044 6E	6.0	65 c	1.01 f
10	Eptam 6E	3.0	8 a-b	1.27 b-d
11	CHECK	0	0 a	1.3 b-c

1/ Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters.

LOCATION: Haine Chance
 VARIETY: Narragansett

TREATED & PLANTED: May 1

Soil Type silt loam
 O.M 6.1
 pH 6.6

* All treatments preemergence

BURLEY Tobacco 1974
Department of Agronomy
University of Kentucky

Trt. No.	Herbicide Formulation	Rate lbs/A AI	Visual Evaluation July 13			Visual Evaluation Aug. 22		
			% Control			% Control		
			Grass	Broad- leaf	Crop Injury	Grass	Broad- leaf	Crop Injury
1	Enide 50W *	4.0	85 b-c ^{1/}	68 e-f	0 a	85 c	73 c-d	0 a
2	Enide 50W *	6.0	85 b-c	65 f	0 a	90 b	75 c-d	0 a
3	Enide 50W **	6.0	78 c	68 d-f	0 a	88 b-c	73 c-d	0 a
4	Tillam 6E **	4.0	80 c	75 c-f	0 a	88 b-c	70 d	0 a
5	Devironal 2E **	1.0	80 c	83 b-d	0 a	90 b	80 b-d	0 a
6	Devironol 2E ** + Tillam 6E **	1.0 + 4.0	88 b-c	83 b-d	0 a	90 b	83 b-d	0 a
7	Surflan 75W ***	.5	85 b-c	75 c-f	0 a	90 b	80 b-d	0 a
8	Surflan ***	1.0	88 b-c	78 b-f	0 a	90 b	83 b-d	0 a
9	Surflan ***	1.5	88 b-c	88 b-c	0 a	90 b	85 b-d	0 a
10	Surflan ***	2.0	90 b	90 b	0 a	90 b	90 b	0 a
11	Surflan ***	3.0	90 b	90 b	0 a	90 b	88 b-c	0 a
12	Surflan ***	4.0	90 b	90 b	0 a	90 b	90 b	0 a
13	Destun 4S ***	3.0	88 b-c	80 b-c	0 a	90 b	75 b-d	0 a
14	Destun 4S ***	4.0	90 b	90 b	0 a	90 b	85 b-d	0 a
15	Destun 4S ***	3.0	90 b	78 b-f	0 a	90 b	73 c-d	0 a
16	Destun 4S *	4.0	85 b-c	75 c-f	0 a	90 b	70 d	0 a
17	Destun 4S **	3.0	90 b	75 c-f	0 a	90 b	78 b-d	0 a
18	Destun 4S **	4.0	88 b-c	83 b-d	0 a	90 b	73 c-d	0 a
19	Balan 1.5E **	1.5	88 b-c	83 b-d	0 a	90 b	75 b-d	0 a
20	U-27267 75W **	1.5	83 b-c	85 b-c	0 a	90 b	80 b-d	0 a
21	U-27267 75W *	2.25	83 b-c	70 d-f	0 a	90 b	73 c-d	0 a
22	Check (cultivated)	0	100 a	100 a	0 a	100 a	100 a	0 a

1 Mean values within a column are not significantly different at 5% level probability if followed by one or more of the same letters

* Preemergence
** Preplant incorporated
*** POST Transplanted

LOCATION: Spindletop
VARIETY: KY 21
TREATED & SET: June 5

0.m 3.8
pH 6.2