

UNIVERSITY OF KENTUCKY

DEPARTMENT OF AGRONOMY

1973

RESULTS OF HERBICIDE EVALUATION TRIALS

NOT FOR PUBLICATION

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TABLE OF CONTENTS

List of Herbicides	1, 2
1973 Precipitation Data	3, 4
Techniques	5
Corn Preemergence	6, 7, 8, 9
Corn Preplant Incorporated	10, 11, 12
No-Till Corn in Killed Bluegrass Sod	13
No-Till Corn in Stalkland	14
Corn - Bindweed	15
Nutsedge in Corn	16
Soybeans - Preemergence	17, 18, 19, 20
Soybeans - Preplant Incorporated & Overlay	21, 22, 23, 24
Soybeans in Stale Seedbed	25
Soybean Stubble	26
Soybeans - Postemergence	27
Comparison of Metribuzin	28
Comparison of Chlorbromuron and Linuron	29
Nutsedge in Soybeans	30
Burley Tobacco	31

LIST OF HERBICIDES USED IN WEED CONTROL STUDIES 1973

-820: N- <u>sec</u> -butyl-4- <u>tert</u> -butyl-2,6-dinitroaniline	Amchem
CG-92553: N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine	American
alachlor: (Lasso)-2-chloro-2',6'-diethyl-N-(methoxymethyl)acetamide	Monsanto
amilon: (Chloramben + linuron)	Amchem
atrazine: (AAtrex):2-chloro-4-(ethylamino)-6-isopropylamino-s-triazine	Ciba-Gei
balan: N-butyl-N-ethyl-s,a,a,-trifluoro-2,6-dinitro-p-toluidine	Eli Lilly
AS 3512: 3-isopropyl-1-H-2,1,3-benzothiadiazinone-(4)3H-one-2,2-dioxide	BASF
AS 3921: N-propyl-N(2-chloroethyl)-2,6-dinitro-4-trifluoromethyl-aniline	BASF
aladex: (SD-15418):2-(4-chloro-6-ethylamino-s-triazine-2-ylamino)-2-methyl propionitrile	Shell
aporal: 2,4-bis(isopropylamino)-6-methylthio-s-triazine	Ciba-Gei
ACA-10832: N-n-propyl-N-cyclopropylmethyl-4-trifluoromethyl-2,6-dinitroaniline	Ciba-Gei
Chloramben: 3-amino-2,5-dichlorobenzoic acid	Amchem
chloroproham: (CIPC):isopropyl N-chlorocarbamate	PPG
Crop Oil	Gulf
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. Bor
Dinoseb: (Dow General): 2- <u>sec</u> butyl-4,6-dinitrophenol	Dow
Diphenamid: (Enide + Dymid)	Upjohn
Dyanap: 1-naphthylphthalamate + 6-dinitro-O-sec butylphenate	Eli Lilly
EL 119: (Surflan): 3,5-dinitro-N,N-dipropyl-sulfanilamide	Uniroyal
EL 179: (Paarlan): 4-isopropyl-2,6-dinitro-N,N-(dipropyl)aniline	Eli Lilly
EPTC: (Eptam): S-ethyl dipropylthiocarbamate	Stauffer
radicane: EPTC + N,N-diallyl-2,2-dichloroacetamide	Stauffer
4-22234: N-chloroacetyl-N-(2,6-diethylphenyl)-glycine ethyl ester	Hercules
linuron: (Lorox): 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea	Dupont
N-3785: 3,6-dichloropicolinic acid + 2,4-D	Dow
Maloran: 3-(4-bromo-3-chlorophenyl)-1-methoxy-1-methylurea	Ciba-Gei
MBR 8251: (Destun)1,1,1-trifluoro-4-(phenylsulfonyl)methanesulfonyl-o-toluidide	3 M
MC-4379: (Modown): Methyl-5-(2',4'-dichlorophenoxy)-2-nitrobenzoate	Mobil
MON-2139: (Glyphosate)N-phosphonomethylglycine	Monsanto
NIA-21844: 6- <u>tert</u> -butyl-3-isopropylisoxazolo-(5,4-d)pyrimidin-4(5H)-one	Niagara
NIA-23486: 6- <u>tert</u> -butyl-3-isopropylisoxazolo-(3,4-d)pyrimidin-4(5H)-one	Niagara
NIA-29615: one part NIA-23486 + three parts NIA-21844	Niagara
NIA-29616: one part NIA-23486 + four parts NIA-21844	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
Preforsan: (fluorodiphen): p-nitrophenyl s,a,a,-trifluoro-2-nitro-p-tolyl ether	Ciba-Gei
Prefix: Cyprazine + S-ethyl diethylthiocarbamate	Gulf
Premerge: (Dinoseb): 2- <u>sec</u> -butyl-4,6-dinitrophenol	Dow
R-24191: 1-(m-t butylacetamidophenyl)-3-methyl-3-methoxy urea	Stauffer
R-25823: Unknown	Stauffer
R-31401: Unknown	Stauffer
RH-512: Unknown	Rohm Ha
RH-915: Unknown	Rohm Ha
S-21634: Unknown	Gulf
S-6044: Unknown	Gulf
S-6797: Unknown	Gulf
S-6851: Unknown	Gulf
encor: (BAY 94337): 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazine-5-(4H)-one	Chemagro
imazine: (Princep): 2-chloro-4,6-bis(ethylamino)-s-triazine	Ciba-Gei
utan: S-ethyl diisobutylthiocarbamate	Stauffer

Benoran: (Chloroxuron): 3-p-(p-chlorophenoxy)phenyl)-1,1-dimethylurea	Ciba-Geigy
Sillam: S-propyl butylethylthiocarbamate	Stauffer
Trifluralin: (Treflan): S-(a,a,a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine	Eli Lilly
2,4-D amine: 2,4-dichlorophenoxyacetic acid	Dow
vernolate: (Vernam): S-propyl dipropylthiocarbamate	Stauffer
677: Non-ionic surfactant	Chevron

Precipitation

Day	Campus Farm				Spindletop Farm			
	May	June	July	Aug.	May	June	July	Aug.
1				.36			.10	
2	.08		.72		.05			
3	1.28				.80			
4							.87	
5			.70			.91		
6		.74				.15		
7		.38			.04	.21		
8	.75				.46	T		
9	.04							
10			.05	.55	.81		.36	.18
11	.98		.21					
12								
13		.26		1.51		.21		.23
14		.14		.03				
15			.10			.12	.17	
16						T		
17	.26		.11		.22	.57		
18	T	.37						
19					T			
20	.78		.07		.14	.22		1.12
21		.14		.95		1.01	.27	
22			1.96		.01	.03	1.13	
23	2.18	.07			1.29			
24	.43		.09		.17		.58	T
25			1.10					

Day	Campus Farm				Spindletop Farm			
	May	June	July	Aug.	May	June	July	Aug.
26			.06				.22	
27	.15	.76	.26		1.49	2.48	.63	
28	.74	1.72			.12	.15		
29		T				.35		
30		.29			.63			
31	.66				.01		.20	T
Sums	8.33	4.87	5.43	3.40	6.24	6.41	4.53	1.53
Norms	3.85	4.72	3.98	3.21	3.85	4.72	3.98	3.21

Techniques Used in Herbicide Trials

5

- Design:** Trials were designed as randomized complete blocks with four replications of plots 2 rows wide by 40 to 50 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 to 10 scale also. A rating of 3 and above was considered not to be commercially acceptable.
- Cultivation:** Plots were not cultivated
- Organic Matter:**
- Campus Farm: 3.0 - 3.7%
- Maine Chance Farm: 2.0 - 2.5%

University of Kentucky - Agronomy Department - Lexington
 Corn Preemergence - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation - June 18, 1973					Morning Glory
			Grass	Broad-leaf	Crop Injury	Smart-weed	Nut-sedge	
1	AC-92553 3E *	1.5	70 f-h ¹	78 d-e	0 a	60 f-g	43 f-g	73 c-f
2	AC-92553 3E	2	75 d-g	80 d-e	0 a	78 b-f	48 d-g	68 d-f
3	AC-92553 3E + Atrazine 4L	1.5+1	85 c-g	95 a-c	0 a	95 a-c	58 c-g	93 a-c
4	AC-92553 3E + Bladex 80W	1.5+2	80 d-g	78 d-e	0 a	63 d-f	57 e-g	67 d-f
5	H-22234 4E	2.5	100 a	55 f	0 a	40 g	60 c-f	63 e-f
6	H-22234 4E + Atrazine 4L	2+1	98 a-b	100 a	0 a	90 a-c	83 b-c	93 c-f
7	Modown 2E	1	55 i	90 b-d	0 a	68 e-g	65 b-f	75 c-f
8	Modown 2E	1.5	45 h-i	83 d-e	0 a	80 c-f	40 f-g	73 c-f
9	Modown 2E	4	70 f-h	95 a-c	0 a	90 a-d	65 b-f	83 c-f
10	Modown 2E + Lasso 4E	1+2	93 a-d	83 d-e	0 a	90 a-c	73 b-e	68 c-f
11	Modown 2E + Lasso 4E	1.5+2	93 a-e	88 c-d	0 a	93 a-c	63 b-f	83 b-f
12	Modown 2E + Lasso 4E	4+4	100 a	100 a	0 a	93 a-c	87 b	93 a-c
13	NIA-29615 80W	1	75 e-g	80 d-e	0 a	95 a-c	75 b-d	83 b-f
14	NIA-29615 80W	2	88 a-e	83 d-e	0 a	95 a-b	73 b-e	75 c-f
15	NIA-29616 80W	1	68 g-h	68 e-f	0 a	90 a-c	30 g	58 f
16	NIA-29616 80W	2	83 b-g	83 d-e	5 a	83 b-f	50 d-g	80 b-f
17	Lasso 4E + Furloe 4E	2+2	98 a-b	78 d-e	0 a	78 c-f	80 b-c	68 d-f
18	R-31401 4E	2	83 d-g	95 a-c	0 a	93 a-c	70 b-f	83 b-f
19	R-31401 4E	4	90 a-e	100 a	0 a	90 a-e	70 b-f	90 a-e
20	Lasso 4E	2	95 a-d	68 e-f	0 a	63 f-g	63 b-f	75 c-f
21	Atrazine 4L	2	90 a-e	98 a-b	0 a	93 a-c	73 b-e	90 a-d
22	Simazine 4L	2	88 b-f	95 a-c	0 a	97 a	48 f-g	97 a-b
23	Bladex 80W	3	90 b-g	95 a-c	0 a	95 a-c	48 d-g	88 b-f
24	Fox 4	2	90 a-e	98 a-b	0 a	98 a	75 b-c	98 a-b
25	Lasso 4E + M-3785 2E	2+.125+.5	95 a-c	83 c-e	0 a	75 c-f	67 b-f	75 c-f
26	Lasso 4E + M-3785 2E	2+.25+1	100 a	90 c-d	5 a	90 a-e	80 b-c	88 b-f
27	CHECK - WEEDY	0	0 j	0 g	0 a	0 h	0 h	0 g
28	CHECK - CULTIVATED	0	100 a	100 a	0 a	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

Location - Campus Farm
 Treated & Planted - May 15

* All treatments preemergence sprayed
 Soil Type - Silt Loam

Variety - 3369-A
 Fertilization - 300 lb/A 12-12
 + 100 lb/A of N

Visual Evaluation - June 18, 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Pig-weed	Velvet-leaf	Lambs-quarter	Giant Foxtail	Spiny Sida
1	AC-92553 3E	1.5	73 e-f	73 e-f	73 d-e	83 c-f	75 c-g
2	AC-92553 3E	2	83 b-f	83 b-e	90 a-d	90 a-e	95 a-d
3	AC-92553 3E + Atrazine 4L	1.5+1	95 a-c	88 a-e	90 a-d	85 c-e	85 a-e
4	AC-92553 3E + Bladex 80W	1.5+2	75 c-f	75 c-f	75 c-e	80 c-e	78 d-g
5	H-22234 4E	2.5	65 f	60 f	60 e	93 a-e	60 f-g
6	H-22234 4E + Atrazine 4L	2+1	93 a-d	93 a-d	93 a-c	95 a-c	95 a-c
7	Modown 2E	1	85 b-f	83 b-e	85 b-d	60 f-g	80 b-f
8	Modown 2E	1.5	90 a-e	90 a-e	90 a-d	58 g	87 a-d
9	Modown 2E	4	90 a-e	90 a-e	90 a-d	90 a-e	97 a-c
10	Modown 2E + Lasso 4E	1+2	93 a-d	93 a-d	88 a-d	100 a	83 b-f
11	Modown 2E + Lasso 4E	1.5+2	93 a-e	93 a-e	93 a-c	95 a-c	95 a-d
12	Modown 2E + Lasso 4E	4+4	95 a-c	95 a-c	95 a-c	95 a-c	95 a-b
13	NIA-29615 80W	1	90 a-e	88 a-e	90 a-d	88 e-g	48 e-g
14	NIA-29615 80W	2	80 b-f	80 c-f	80 c-d	88 c-e	65 c-g
15	NIA-29615 80W	1	78 d-f	75 e-f	73 d-e	85 d-g	63 g
16	NIA-29615 80W	2	90 a-e	90 a-e	93 a-c	93 a-e	90 b-e
17	Lasso 4E + Purlon 4E	2+2	73 e-f	73 e-f	73 d-e	90 a-e	68 e-g
18	R-31401 4E	2	90 a-e	90 a-e	90 a-d	85 c-e	93 a-d
19	R-31401 4E	4	90 b-f	90 b-e	88 c-d	88 b-e	90 a-e
20	Lasso 4E	2	85 b-f	80 c-f	90 a-d	98 a-b	88 b-f
21	Atrazine 4L	2	90 a-e	90 a-e	90 a-d	88 b-e	90 a-d
22	Simazine 4L	2	97 a-b	97 a-c	97 a-c	95 a-c	93 a-b
23	Bladex 80W	3	93 a-d	90 a-e	93 a-c	95 a-c	95 a-c
24	Fox 4	2	98 a-b	98 a-b	98 a-b	93 a-c	93 c-b
25	Lasso 4E + M-3785 2E	2+.125+.5	88 a-e	78 d-f	85 b-d	95 a-d	83 b-f
26	Lasso 4E + M-3785 2E	2+.25+1	88 b-f	88 b-e	85 c-d	95 a-c	80 b-g
27	CHECK - WEEDY	0	0 g	0 g	0 f	0 h	0 h
28	CHECK - CULTIVATED	0	100 a	100 a	100 a	100 a	100 a

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation - July 20, 1973					
			Grass	Broad-leaf	Crop Injury	Smart-weed	Morning Glory	Pig-weed
1	AC-92553 3E	1.5	50 e-f	60 g-h	0 a	50 g-h	65 f-i	65 f-g
2	AC-92553 3E	2	55 e-f	65 g-h	0 a	63 b-g	58 h-i	75 b-g
3	AC-92553 3E + Atrazine 4L	1.5+1	68 c-e	80 c-g	0 a	85 a-c	85 b-g	85 b-f
4	AC-92553 3E + Bladex 80W	1.5+2	58 d-f	48 h-i	0 a	50 e-h	60 g-i	65 e-g
5	H-22234 4E	2.5	80 b-c	35 i	0 a	43 h	53 i	58 a
6	H-22234 4E + Atrazine 4L	2+1	88 b	90 b-f	0 a	85 a-c	88 b-c	88 b
7	Modown 2E	1	23 g	90 b-f	0 a	63 d-g	73 d-i	80 b-f
8	Modown 2E	1.5	28 g	88 b-f	0 a	73 c-g	63 g-i	83 b-f
9	Modown 2E	4	48 f	88 b-f	0 a	83 b-d	73 d-i	58 c-g
10	Modown 2E + Lasso 4E	1+2	80 b-c	73 f-g	0 a	83 b-d	58 h-i	85 b-f
11	Modown 2E + Lasso 4E	1.5+2	65 b-c	88 b-f	0 a	90 a-c	75 c-i	80 b-f
12	Modown 2E + Lasso 4E	4+4	88 b	90 b-e	0 a	88 a-c	88 b-e	88 b-e
13	NIA-29615 80W	1	50 e-f	80 c-g	0 a	90 a-c	80 b-h	85 b-d
14	NIA-29615 80W	2	83 b-c	78 d-g	0 a	93 a-b	68 e-i	75 b-g
15	NIA-29615 80W	1	53 e-f	73 f-g	0 a	85 b-d	53 i	68 d-g
16	NIA-29615 80W	2	75 b-d	88 b-f	5 a	80 b-e	78 d-i	83 b-f
17	Lasso 4E + Furloe 4E	2+2	90 b	65 g-h	0 a	73 c-g	63 g-i	68 d-g
18	R-31401 4E	2	75 b-c	90 b-c	0 a	88 a-c	78 b-h	83 b-f
19	R-31401 4E	4	85 b-c	90 b-f	0 a	87 b-d	87 b-f	65 b-f
20	Lasso 4E	2	90 b	60 g-h	0 a	50 f-h	68 e-i	75 b-g
21	Atrazine 4L	2	90 b	93 b-d	0 a	88 a-c	88 b-d	85 b-c
22	Simazine 4L	2	88 b-c	95 a-b	0 a	93 a-c	93 b	93 b
23	Bladex 80W	3	78 b-c	90 b-e	0 a	90 a-c	83 b-g	83 b-f
24	Fox 4	2	78 b-c	88 b-f	0 a	93 a-b	90 b-c	90 b
25	Lasso 4E + M-3785 2E	2+.125+.5	88 b-c	60 g-h	0 a	73 b-g	65 f-i	80 b-f
26	Lasso 4E + M-3785 2E	2+.25+1	83 b-c	75 e-g	5 a	80 b-f	80 b-h	80 b-g
27	CHECK - WEEDY	0	0 h	0 j	0 a	0 i	0 j	0 h
28	CHECK - CULTIVATED	0	100 a	100 a	0 a	100 a	100 a	100 a

Visual Evaluation - July 20, 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Velvet-leaf	Lamba-quarter	Giant Foxtail	Spiny Sida	Yield Bu/A	Corn plan 100/A at harvest
1	AC-92553 3E	1.5	65 f-g	65 d-e	75 c-d	68 c-h	77 a	21.6 a
2	AC-92553 3E	2	78 b-f	78 b-d	80 b-d	83 b-e	110 a	21.3 a
3	AC-92553 3E + Atrazine 4L	1.5+1	85 b-f	85 b-d	80 b-d	80 b-f	107 a	22.7 a
4	AC-92553 3E + Bladex 80W	1.5+2	65 f-g	65 d-e	73 c-d	65 d-h	87 e	22.4 a
5	H-22234 4E	2.5	50 g	45 e	85 b-d	50 h	83 a	23.0 a
6	H-22234 4E + Atrazine 4L	2+1	88 b-c	88 b	83 b-c	88 a-b	105 a	22.7 a
7	Modown 2E	1	78 b-f	80 b-d	35 f	70 b-g	77 a	21.3 a
8	Modown 2E	1.5	83 b-f	83 b-d	40 f	83 b-e	96 a	23.0 a
9	Modown 2E	4	77 c-f	77 b-d	65 d-a	77 b-g	74 a	20.6 a
10	Modown 2E + Lasso 4E	1+2	83 b-f	78 b-d	90 b-c	70 b-g	90 a	22.7 a
11	Modown 2E + Lasso 4E	1.5+2	83 b-f	80 b-d	88 b-d	78 b-g	83 a	21.7 a
12	Modown 2E + Lasso 4E	4+4	85 b-e	90 b	90 b-c	90 a-c	114 a	20.6 a
13	NIA-29615 80W	1	85 b-d	85 b-c	65 d-e	60 e-h	77 a	21.3 a
14	NIA-29615 80W	2	75 c-f	75 b-d	78 b-d	58 f-h	100 a	22.4 a
15	NIA-29615 80W	1	68 e-g	67 d-e	70 c-f	40 h	61 a	21.7 a
16	NIA-29615 80W	2	83 b-f	85 b-d	83 b-d	75 b-g	82 a	21.3 a
17	Lasso 4E + Purloc 4E	2+2	68 d-g	68 c-e	85 b-d	48 g-h	105 a	21.0 a
18	R-31401 4E	2	83 b-f	83 b-d	78 b-d	83 b-f	90 a	21.0 a
19	R-31401 4E	4	87 b-f	87 b-d	88 b-d	90 b-e	113 a	22.0 a
20	Lasso 4E	2	70 d-g	83 b-d	93 a-b	70 b-g	91 a	22.0 a
21	Atrazine 4L	2	88 b-c	87 b	90 b-c	83 a-d	118 a	21.0 a
22	Simazine 4L	2	93 b	93 b	93 a-b	93 a-b	122 a	22.4 a
23	Bladex 80W	3	83 b-f	83 b-d	85 b-d	83 b-f	103 a	23.0 a
24	Fox 4	2	90 b-c	90 b	85 b-d	90 a-c	107 a	22.0 a
25	Lasso 4E + M-3785 2E	2+.125+.5	70 d-g	80 b-d	88 b-c	73 d-h	101 a	23.0 a
26	Lasso 4E + M-3785 2E	2+.25+1	80 b-f	80 b-d	83 b-d	73 b-g	103 a	21.7 a
27	CHECK - WEEDY	0	0 h	0 f	0 g	0 i	54 a	21.7 a
28	CHECK - CULTIVATED	0	100 a	100 a	100 a	100 a	102 a	22.2 a

University of Kentucky - Agronomy Department - Lexington
Corn Preplant Incorporated - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation - June 18, 1973								
			Grass	Broad-leaf	Crop Injury	Smart-weed	Nut-sedge	Pig-weed	Velvet-leaf	Lamba-quarter	Giant Foxtail
1	Modown 2E *	1.5	8 d ¹	100 a	0 a	88 c-e	20 g	88 a-d	90 c-e	90 c-f	15 d
2	do + Lasso 4E	1.5+2	95 a-b	100 a	0 a	100 a	50 b-e	98 a-b	98 a-b	98 a-b	98 a-b
3	R-31401 4E	2	90 c	95 a-c	0 a	95 a-c	70 c-f	95 a-c	95 a-d	95 a-c	88 c
4	do	4	93 b-c	98 a-b	0 a	98 a-b	83 b-d	98 a-b	98 a-b	98 a-b	90 b-c
5	do + Sutan A ⁺	1+3	98 a-b	100 a	0 a	100 a	70 c-f	95 a-c	95 a-c	100 a	100 a
6	Atrazine 4L + do	1+3	98 a-b	100 a	0 a	100 a	75 a-f	100 a	100 a	100 a	100 a
7	Sutan 6E	4	98 a-b	73 d-e	0 a	68 f-h	63 d-f	68 a-d	88 b-e	73 f-g	100 a
8	do	8	100 a	68 d-e	0 a	65 f-h	65 d-f	93 d-e	93 a-e	80 e-g	100 a
9	Sutan A ⁺	4	98 a-b	70 d-e	0 a	55 g-h	20 g	83 b-d	83 c-e	68 g	95 a-b
10	do	8	100 a	75 d-e	0 a	68 f-h	85 b-c	85 b-d	85 d-e	75 e-g	100 a
11	Sutan 6E + 29148	4+.167	98 a-b	60 e	0 a	50 h	60 e-f	83 b-d	83 c-e	70 f-g	100 a
12	do + do	8+.33	100 a	78 d	0 a	78 d-f	90 b	93 a-c	93 a-e	90 a-d	98 a-b
13	Eptam 6E	3	95 a-b	78 d	20 b	73 e-g	75 b-e	70 e	80 e	75 e-g	93 a-c
14	do	6	100 a	98 a-b	58 d	90 b-d	90 b	98 a-b	98 a-b	98 a-b	100 a
15	Eradicane 6E + .25	3+.25	100 a	65 d-e	0 a	70 f-h	70 c-f	60 c-d	85 b-e	80 e-g	100 a
16	do	6+.50	98 a-b	93 b-c	0 a	90 a-c	100 a	95 a-c	95 a-c	95 a-b	100 a
17	do + Atrazine 4L	3+1	100 a	100 a	0 a	98 a-b	95 a	98 a-b	98 a-b	98 a-b	98 a-b
18	Eptam 6E + 29148	3+.25	100 a	78 d	0 a	73 e-g	80 b-e	88 a-d	83 e	83 e-g	93 a-c
19	do + do	6+.50	98 a-b	93 b-c	0 a	88 c-d	70 c-f	95 a-c	95 a-d	95 a-c	95 a-c
20	Vernam 6E	3	100 a	70 d-e	10 a-b	70 f-h	65 d-f	85 b-d	85 d-e	85 d-g	100 a
21	do	6	100 a	93 b-c	63 c	90 b-d	60 f	98 a-b	98 a-b	95 a-b	100 a
22	do + 2578S	3+.125	95 a-b	88 c	0 a	88 c-d	75 b-e	88 a-d	88 b-e	88 b-e	98 a-b
23	do + do	6+.25	100 a	100 a	3 a	93 b-c	100 a	98 a-b	98 a-b	95 a-b	98 a-b
24	do + do + Atrazine 4L	3+.125+1	100 a-b	100 a	0 a	98 a-b	80 b-e	95 a-c	95 a-d	95 a-c	95 a-c
25	Prefox 4.75	4+.75	93 b-c	98 a-b	8 a-b	100 a	70 c-f	95 a-c	95 a-c	95 a-b	98 a-b
26	CHECK	0	100 a	100 a	0 a	100 a	100 a	100 a	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

Location - Campus Farm

Planted & Treated - May 18

Fertilization - 300 lbs/A 12-12-

Soil Type - Silt Loam

Variety - 3369-A

+ 100 lbs/A of

* All treatments preplant incorporated

Visual Evaluation - July 20, 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Broad-leaf	Crop Injury	Smart-weed	Nut-sedge
1	Modown 2E	1.5	13 f	90 a-e	0 a	85 c-f	37 h
2	do + Lasso 4E	1.5+2	95 c-e	95 a-c	0 a	90 b-a	87 b-c
3	R-31401 4E	2	78 a	75 a-b	0 a	85 c-f	67 c-g
4	do	4	88 b-a	98 a-b	0 a	93 a-d	75 c-f
5	do + Sutan A ⁺	1+3	93 a-d	93 a-d	0 a	93 a-d	80 c-e
6	Atrazine 4L + do	1+3	95 a-c	95 a-c	0 a	100 a	83 c-d
7	Sutan 6E	4	95 a-c	40 j-k	0 a	55 k-l	60 e-h
8	do	8	98 a-b	43 i-k	0 a	45 j-l	60 e-h
9	Sutan A ⁺	4	100 a	40 j-k	0 a	33 l	45 g-b
10	do	8	98 a-b	43 i-k	0 a	38 i-l	67 c-g
11	Sutan 6E + 29148	4+.167	95 a-c	45 h-k	0 a	38 l	53 f-h
12	do + do	8+.33	100 a	53 g-k	0 a	65 f-k	75 c-f
13	Eptam 6E	3	88 b-a	60 f-k	20 b	50 h-l	65 c-g
14	do	6	100 a	73 d-j	58 c	73 e-h	65 c-g
15	Eradicane 6E + .25	3+.25	100 a	35 k	0 a	38 l	65 c-g
16	do	6+.50	98 a-b	68 d-i	0 a	68 f-j	95 a-b
17	do + Atrazine 4L	3+1	95 a-c	78 b-f	0 a	93 a-c	83 c-d
18	Eptam 6E + 29148	3+.25	98 a-b	70 d-j	0 a	55 g-l	67 c-g
19	do + do	6+.50	95 a-c	75 d-h	0 a	75 d-g	85 b-c
20	Verasm 6E	3	95 a-c	40 j-k	10 a-b	48 i-l	63 d-h
21	do	6	98 a-b	53 g-k	63 c	75 e-g	77 c-e
22	do + 25788	3+.125	90 a-d	65 a-k	0 a	70 e-l	67 c-g
23	do + do	6+.25	98 a-b	83 c-g	3 a	83 c-f	85 b-c
24	do + do + Atrazine 4L	3+.125+1	98 a-b	100 a	0 a	98 a-b	80 c-e
25	Prefox 4.75	4+.75	88 d-e	98 a-b	8 a-b	85 c-f	80 c-e
26	CHECK	0	100 a	100 a	0 a	100 a	100 a

Visual Evaluation - July 20, 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Fig-weed	Velvet-leaf	Lamba-quarter	Giant Foxtail	Yield Bu/A	Corn plants 100/A at harvest
1	Modown 2E	1.5	85 c-g	85 c-g	85 c-f	10 e	61 h	20.6 c-h
2	do + Lasso 4E	1.5+2	98 b-a	90 b-e	90 b-a	90 b-d	130 e-c	22.0 e-f
3	R-31401 4E	2	95 d-g	83 d-g	83 d-f	88 c-d	118 a-h	21.7 a-h
4	do	4	98 b-d	93 b-d	93 e-d	93 e-d	109 a-h	23.7 a
5	do + Sutan A ⁺	1+3	95 b-e	90 b-e	95 a-c	95 a-c	135 a	20.6 e-h
6	Atrazine 4L + do	1+3	100 a-b	98 a-b	98 a-b	98 a-b	128 a-e	21.3 a-h
7	Sutan 6E	4	88 e-g	75 e-g	68 g-i	98 a-b	81 e-h	21.0 a-h
8	do	8	93 e-f	90 c-g	73 f-i	90 b-d	86 e-h	21.0 a-h
9	Sutan A ⁺	4	83 e-g	70 e-g	65 i	88 b-d	66 f-h	20.6 e-h
10	do	8	85 e-g	75 f-g	65 i	90 b-d	65 h-g	22.4 a-c
11	Sutan 6E + 29148	4+.167	83 e-g	75 e-g	70 f-i	93 a-d	73 d-h	21.7 e-g
12	do + do	6+.33	93 d-g	83 d-g	83 c-f	90 b-d	74 b-h	22.4 e-d
13	Eptam 6E	3	70 g	70 g	68 h-i	78 d	73 c-h	17.9 g-h
14	do	6	98 e-f	88 c-g	88 c-h	90 b-d	77 a-h	16.9 h
15	Eredicene 6E + .25	3+.25	80 e-g	75 f-g	73 e-f	85 c-d	72 e-h	20.0 e-h
16	do	6+.50	95 b-e	90 b-e	90 b-e	90 b-d	109 a-h	20.6 a-h
17	do + Atrazine 4L	3+1	98 a-c	95 a-c	95 a-c	95 a-c	128 a-d	21.3 a-h
18	Eptam 6E + 29148	3+.25	88 f-g	73 f-g	68 h-i	83 c-d	101 a-h	22.0 a-e
19	do + do	6+.50	95 e-f	85 c-g	85 c-g	85 b-d	126 a-g	20.6 d-h
20	Vernam 6E	3	85 e-g	75 f-g	75 e-f	93 a-d	99 a-h	21.7 a-h
21	do	6	98 b-e	90 b-e	95 b-a	95 a-c	92 a-h	16.9 f-h
22	do + 25788	3+.125	88 d-g	80 d-g	80 d-f	88 b-d	101 a-h	21.3 a-h
23	do + do	6+.25	98 b-f	88 b-f	88 b-f	93 a-c	112 a-h	21.7 a-h
24	do + do + Atrazine 4L	3+.125+1	95 a-c	95 a-c	95 a-c	95 a-c	132 a-b	21.3 a-h
25	Profox 4.75	4+.75	95 d-g	85 c-g	85 c-f	90 b-d	93 a-h	23.4 a-b
26	CHECK	0	100 a	100 a	100 a	100 a	126 a-f	20.6 b-h

University of Kentucky - Agronomy Department - Lexington
No-Till Corn in Killed Bluegrass Sod - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation June 19, 1973			Visual Evaluation August 2, 1973			Yield Bu/A	Corn pla 100/A at harvest
			Grass	Broad-leaf	Sod Kill	Grass	Broad-Leaf	Sod Kill		
1	Atrazine 4L + Paraquat 2E + X-77 *	2+.25+.5%	100 a ¹	100 a	100 a	95 a-b	98 a-b	100 a	158 a	20.3 a
2	R- 2234 4E + Atrazine 4L + Paraquat 2E + X-77	2+1+.25+.5%	93 a-c	98 a-b	100 a	85 b-d	88 c-f	100 a	130 a	18.6 a
3	Lasso 4E + do + do + X-77	2+1+.25+.5%	90 a-d	98 a-b	100 a	88 a-d	98 a-c	100 a	146 a	21.3 a
4	do + Bladex 4L + do + do	2+2+.25+.5%	78 c-d	95 a-c	100 a	75 d	80 e-f	100 a	129 a	17.5 a
5	do + Simazine 4L + do + do	2+1+.25+.5%	93 a-c	98 a-b	100 a	88 b-d	93 b-f	100 a	132 a	17.2 a
6	Bladex 4L + Paraquat 2E + X-77	3+.25+.5%	88 a-d	98 a-b	100 a	83 c-d	88 d-f	100 a	147 a	18.9 a
7	R-31401 4E + do + do	3+.25+.5%	98 a-b	100 a	100 a	90 a-c	93 b-f	100 a	148 a	18.9 a
8	NIA-29615 80W + do + do	2+.25+.5%	83 b-d	98 a-b	100 a	73 d	90 c-f	100 a	143 a	19.3 a
9	NIA-29616 80W + do + do	2+.25+.5%	93 a-c	100 a	100 a	83 b-d	90 b-f	100 a	144 a	19.3 a
10	Atrazine 4L + R-24191 50W + X-77	2+1+.5%	98 a-b	100 a	100 a	83 b-d	93 b-f	100 a	154 a	20.3 a
11	Atrazine 4L + R-24191 50W + X-77	2+4+.5%	93 a-c	98 a-b	100 a	75 d	90 b-f	100 a	126 a	17.2 a
12	Bladex 80W + Roundup 3E	3+2	78 d	95 a-c	100 a	83 b-d	75 f	100 a	147 a	19.3 a
13	Atrazine 4L + do	2+2	100 a	100 a	100 a	85 b-d	93 b-f	100 a	133 a	18.2 a
14	Simazine 4L + do	2+2	100 a	100 a	100 a	95 a-b	98 a-d	100 a	145 a	18.6 a
15	Lasso 4E + Atrazine 4L + Roundup 3E	2+1+2	100 a	98 a-b	100 a	88 b-d	98 a-d	100 a	155 a	20.3 a
16	do + do + do	2+1.5+4	100 a	98 a-b	100 a	90 a-d	90 c-f	100 a	148 a	19.6 a
17	do + do + do	4+3+8	100 a	100 a	100 a	98 a	100 a	100 a	134 a	18.6 a
18	do + Bladex 4L + do	2+2+2	85 a-d	88 b-c	100 a	73 d	75 f	100 a	147 a	18.9 a
19	do + do + do	2+2+4	93 a-c	93 a-c	100 a	83 b-d	83 d-f	100 a	132 a	18.9 a
20	do + do + do	4+4+8	88 a-d	83 c	100 a	75 d	75 e-f	100 a	127 a	17.9 a
21	do + Simazine 4L + do	2+1+2	100 a	100 a	100 a	93 a-c	95 b-f	100 a	131 a	17.2 a
22	do + do + do	2+1.5+4	98 a-b	100 a	100 a	95 a-b	98 b-d	100 a	135 a	19.2 a
23	do + do + do	4+3+8	100 a	100 a	100 a	98 a	98 b-e	100 a	134 a	16.2 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 preemergence
Treated - May 3

Location - Maine Chance Farm
Planted - May 14

Soil Type - Silt Loam Variety - 3369-
Fertilization - 200 lbs/A of N

University of Kentucky - Agronomy Department - Lexington
No-Till Corn in Stalkland - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation June 19, 1973		Visual Evaluation August 2, 1973			Corn Plant 100/A at Harvest
			Grass	Broad-leaf	Grass	Broad-leaf	Yield Bu/A	
1	Atrazine 4L + Paraquat 2E + X-77 *	2+.25+.5%	73 d-f ¹	98 a	45 e-g	75 a-c	117 a	15.8 a
2	H- 2234 4E + Atrazine 4L + Paraquat 2E + X-77	2+1+.25+.5%	80 b-f	85 a-c	63 b-f	78 a-c	135 a	17.9 a
3	Lasso 4E + do + do + do	2+1+.25+.5%	65 e-f	88 a-c	48 e-g	70 a-c	128 a	16.5 a
4	do + Bladex 4L + do + do	2+2+.25+.5%	68 c-f	58 d-e	43 f-g	50 d-e	107 a	16.2 a
5	do + Simazine 4L + do + do	2+1+.25+.5%	80 b-f	88 a-c	70 b-e	75 a-c	121 a	16.2 a
6	Bladex 4L + Paraquat 2E + X-77	3+.25+.5%	65 a-f	73 c-e	33 g	33 e	104 a	14.4 a
7	R-31401 4E + do + do	3+.25+.5%	78 c-f	95 a-b	58 c-g	80 a-c	126 a	18.2 a
8	NIA-29615 80W + do + do	2+.25+.5%	85 a-d	88 a-c	63 b-f	58 b-e	121 a	14.8 a
9	NIA-29616 80W + do + do	2+.25+.5%	85 b-f	93 a-c	68 b-f	65 a-d	117 a	14.8 a
10	Atrazine 4L + R-24191 50W + X-77	2+1+.5%	85 b-e	98 a	70 b-e	78 a-e	122 a	15.8 a
11	do + do + do	2+4+.5%	78 b-f	83 a-c	58 c-g	68 a-d	121 a	16.9 a
12	Bladex 4L + Roundup 3E	3+2	73 d-f	48 e	65 b-f	40 d-e	86 a	13.1 a
13	Atrazine 4L + do	2+2	85 b-f	88 a-c	78 b-c	88 a-b	133 a	18.2 a
14	Simazine 4L + do	2+2	88 b-d	90 a-c	78 b-c	78 a-c	133 a	17.9 a
15	Lasso 4E + Atrazine 4L + Roundup 3E	2+1+2	83 b-f	98 a	68 b-f	85 a-b	120 a	17.2 a
16	do + do + do	2+1.5+4	93 a-d	93 a-b	70 b-e	73 a-c	138 a	17.5 a
17	do + do + do	4+3+8	95 a-b	98 a	83 a-b	88 a	127 a	15.1 a
18	do + Bladex 4L + do	2+2+2	60 f	60 d-e	45 e-g	50 c-c	106 a	16.5 a
19	do + do + do	2+2+4	60 f	60 d-e	55 c-g	53 c-e	105 a	15.1 a
20	do + do + do	4+4+8	78 c-f	80 b-d	50 d-g	40 d-e	105 a	13.4 a
21	do + Simazine 4L + do	2+1+2	83 b-f	90 a-c	60 c-g	78 a-c	119 a	15.5 a
22	do + do + do	2+1.5+4	90 a-c	95 a-b	75 b-d	75 a-c	131 a	16.5 a
23	do + do + do	4+3+8	100 a	93 a-b	93 a	85 a-b	134 a	18.2 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 preemergence

Treated - May 3

Planted - May 14

Location - Maine Chance Farm

Fertilization - 200 lbs/A of N

Soil Type - Silt Loam

Variety - 3369-A

University of Kentucky - Agronomy Department - Lexington
Corn - Bindweed - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation
			Bindweed
1	Banvel + Atrazine + Paraquat + X-77 *	.25+2+.25+.5%	55 b ¹
2	Banvel + Atrazine + Paraquat + X-77 *	.50+2+.25+.5%	73 a
3	Banvel **	.25	83 a
4	Banvel **	.50	78 a
5	Banvel **	.75	83 a
6	Banvel + 2,4-D amine ***	.25+.75	85 a
7	Banvel + 2,4-D amine ****	.25+.75	90 c
8	M-3785 *****	.12+.5	85 a
9	M-3785 ***	.12+.5	85 a
10	M-3785 ***	.25+1.0	78 a
11	2,4-D amine	.75	80 a
12	CHECK	0	0 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

* Pre

Location - Main Chance Farm

** Post 20" corn

Planted & Treated - May 22

*** Post directed 20" corn

Fertilization - 150 lb/A of N

**** Post directed soft dough

Soil Type - Silt Loam

***** Post 5" corn

Variety - Pioneer 3369-A

20" Stage - June 22

University of Kentucky - Agronomy Department - Lexington
Nutsedge in Corn - 1973

Trt. No.	Herbicide Formulation	Rate Lb/A	Visual Evaluation - July 24	
			Nutsedge	
1	S-21634 ***	2	85	a ¹
2	do ***	3	85	a-b
3	Vernam + 25788 *	3+.125	80	a-c
4	do + do *	6+.25	88	a-b
5	Eptam + do *	3+.125	90	a
6	do + do *	6+.25	90	a
7	Sutan + do *	3+.125	43	b-c
8	do + do *	6+.25	73	a-c
9	Atrazine **	2	33	c
10	do **	4	93	a
11	do + Atrazine ****	1+1	68	a-c
12	do + do ****	2+2	73	a-c
13	CHECK	-	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

* PPI

Location - Campus Farm

** Pre

Planted & Treated - June 12

*** Post 6-9 leaf stage

Fertilization -

**** Pre + Post

Soil Type - Silt Loam

Variety - 3369-A

University of Kentucky - Agronomy Department - Lexington
Soybeans - Preemergence - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation - June 19							
			Grass	Broad-leaf	Crop Injury	Cockle-bur	Jimson-weed	Morning Glory	Giant Foxtail	Velvet-leaf
1	Amiben 3E	3	93a-d ¹	68b-j	0a	55c-1	70b-i	70f-h	98a	78b-e
2	Amiben 3E + Sencor 50W	2+.38	90a-h	80b-e	0a	73b-f	80b-f	80b-g	97a	80b-d
3	Amilon	1.5+.5	93a-e	68b-j	0a	58c-1	60d-j	68g-i	93a	70c-f
4	Amiben 3E + Lorox 50W	3+.5	98ab	70b-j	0a	50d-1	55f-j	75d-h	93a	73b-f
5	Lorox 50W	.5	70f-h	35ik	0a	43f-1	50g-j	70f-h	93a	70c-f
6	Lasso 4E + Sencor 50W	2+.38	90ab	75b-g	0a	63b-k	73b-h	75d-h	93a	75b-f
7	Surflan 75W + Sencor 50W	1+.38	100a	80bc	0a	60b-k	73b-h	70f-h	93a	73d-f
8	Sencor 50W	.38	90a-e	75b-g	0a	65b-j	73b-h	75d-h	98a	73b-f
9	Preforan 3E	4.5	93a-d	73b-i	0a	70b-h	73b-h	73e-h	93a	58e-g
10	S-6797 3E	2	83b-h	45jk	0a	40h-1	48h-j	68g-i	93a	65d-f
11	S-6797 3E	4	93a-c	50g-k	0a	33kl	45ij	70f-h	90a	70c-f
12	S-6851 3E	3	83b-h	55e-j	0a	48e-1	58e-j	73e-h	95a	68d-f
13	S-6851 3E	6	95a-c	65c-j	0sb	48e-1	70b-i	73e-h	95a	70c-f
14	S-6044 3E	3	80c-h	45h-k	15bc	63b-j	67b-i	60h-i	93a	63d-f
15	S-6044 3E	6	100a	75b-g	5ab	75b-e	80b-f	80b-g	93a	73b-f
16	H-22234 4E	2	88a-g	30k	0a	30 l	38j	55i-i	90a	40g-g
17	H-22234 + Lorox 50W	2+.75	95a-c	70d-j	0a	55c-1	73b-h	78b-g	98a	77b-e
18	H-22234 + Lorox 50W	2+.38	95ab	83b-d	0a	78b-d	78b-f	78c-g	100a	80b-d
19	Destun 50WP	4	98ab	77b-f	20cd	75b-e	70b-i	83b-f	98a	80b-d
20	Destun 4S	6	98ab	88bc	43e	80bc	83b-h	80b-g	97a	80b-d
21	Destun 4S	4	100a	73b-h	15bc	78b-d	63c-i	73e-h	100a	73b-f
22	Destun 4S	6	100a	90b	48e	88b	85bc	88b-d	98a	88bc
23	Modown 2E	1	63h	53f-k	0a	38i-1	58e-j	73e-h	93a	60d-f
24	Modown 2E	1.5	73e-h	70b-j	0a	50c-1	78b-f	78b-g	90a	73b-f
25	Modown 2E	4	90a-f	80b-e	5ab	68b-h	83b-d	83b-f	95a	87bc
26	Modown 2E + Lasso 4E	1+2	93a-d	75b-g	0a	68b-h	85b	85bc	98a	85b
27	Modown 2E + Lasso 4E	1.5+2	93a-c	75b-g	0a	55c-1	68b-f	75d-h	93a	73b-f
28	Modown 2E + Lasso 4E	4+4	100a	83b-d	28d	73b-f	88b	85b-e	98a	90b
29	Modown 2E + Surflan 75W	1.5+1.5	95ab	73e-j	0a	58c-1	65b-i	75d-h	93a	75b-f
30	Lasso 4E + Furloc 4E	2+2	93a-e	48h-k	0a	38j-1	75b-g	75d-h	95a	73b-f

Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Broad-leaf	Crop Injury	Cockle-bur	Jimson-weed	Morning Glory	Giant Foxtail	Velvet-leaf
31	RH-512 2E	.75	83b-h	68b-j	0a	65c-1	58f-j	73e-h	90a	73b-f
32	RH-915 2E	.5	93a-d	80b-e	0a	63b-k	83b-d	80b-g	93a	80d-f
33	Lorox 50W + Bladex 80W	.5+1	88a-g	78b-f	0a	70b-g	68b-i	75d-h	95a	73b-f
34	Lasso 4E + Bladex 80W	2+1	98ab	68b-j	0a	50c-1	78b-f	75d-h	93a	77b-e
35	R-25823 50W	2	75c-h	58d-j	0a	48e-1	60d-j	70f-h	90a	60d-f
36	R-25823 50W	4	80b-h	55e-j	0a	28 1	38h-j	70f-h	93a	55fg
37	Dyanap	1.5+3	70gh	68b-j	0a	70b-h	75b-g	75d-h	80a	70c-f
38	Dyanap (delayed)	1.5+3	93a-e	85bc	10ab	88b	88b	90b	93a	87bc
39	Dyanap + Lasso 4E	1.5+3+2	98ab	85bc	0a	68b-i	83b-e	80b-g	93a	75b-f
40	Preforan 3E + Maloran 50W	3+1.5	93a-e	70b-j	0a	53c-1	73b-h	75d-h	95a	73b-f
41	Preforan 3E + Sencor 50W	3+.33	100a	85bc	0a	68b-i	80b-f	83b-f	100a	80b-d
42	Lorox 50W	.75	78c-h	68b-j	0a	45c-1	57d-j	70f-h	90a	70c-f
43	Lasso 4E	2	95ab	50g-k	0a	43g-1	68b-i	73e-h	95a	77b-e
44	Maloran 50W	1.25	85b-h	70b-j	0a	63b-k	73b-h	78c-g	93a	75b-f
45	Solo	3+3	73d-h	48h-k	0a	55f-1	60d-j	75d-h	90a	65d-f
46	Lasso 4E + Lorox 50W	2+.75	98ab	73b-h	0a	65b-j	83b-d	78b-g	95a	78b-e
47	Lasso 4E + Maloran 50W	2+1.25	98ab	73b-h	0a	58c-1	75b-g	75d-h	98a	75b-f
48	CHECK	--	100a	100a	0a	100a	100a	100a	100a	100a

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 - Campus Farm

Treated & Planted - May 16

Soil Type - Silt Loam

Fertilization - 400 lb/A 12-12-12

Variety - Calland

Visual Evaluation - July 23

Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Broad-leaf	Crop Injury	Cockle-bur	Jimson-weed	Morning Glory	Giant Foxtail	Velvet-leaf
1	Amiben 3E	3	88b-e	60b-f	0a	50b-h	63b-g	68b-g	90b-c	73b-c
2	Amiben 3E + Sencor 50W	2+.38	90b-d	60b-f	0a	63b-g	50b-h	50b-h	90b-d	67b-f
3	Amilon	1.5+.5	85b-e	30f-i	0a	38d-i	40g-h	50g-h	83c-d	60b-h
4	Amiben 3E + Lorox 50W	3+.5	85b-e	48b-i	0a	45b-i	48d-h	65b-g	90b-c	63b-g
5	Lorox 50W	.5	73d-e	48b-i	0a	33f-i	47c-h	50b-h	90b-c	63b-g
6	Lasso 4E + Sencor 50W	2+.38	80b-d	53b-h	0a	45b-i	63b-g	65b-g	88b-d	65b-g
7	Surflan 75W + Sencor 50W	1+.38	90b-c	53b-h	0a	40c-i	63b-g	48c-h	93b-c	67b-f
8	Sencor 50W	.38	80b-e	45b-i	0a	55b-g	75b-g	65b-g	95a-b	68b-e
9	Preforen 3E	4.5	88b-e	33e-i	0a	55b-g	63b-g	53e-h	90b-d	53e-i
10	S-6797 3E	2	80b-e	40c-i	0a	35e-i	43f-h	65b-g	88b-d	63b-g
11	S-6797 3E	4	88b-e	18i-i	0a	18 i	43f-h	65b-g	90b-d	68b-f
12	S-6851 3E	3	80b-e	48b-i	0a	48b-i	73b-g	70b-e	93b-c	68b-f
13	S-6851 3E	6	90b-d	33e-i	0a	33g-i	53b-h	60c-h	88b-d	60b-h
14	S-6044 3E	3	75b-e	38d-i	0a	57b-g	57b-g	40f-h	93b-c	57c-i
15	S-6044 3E	6	93a-b	50b-i	0a	58b-g	63b-g	68b-e	88b-d	70b-e
16	H-22234 4E	2	85b-e	33e-i	0a	18i-i	30 h	48h-h	85b-d	45 i
17	H-22234 + Lorox 50W	2+.75	85b-e	53b-h	0a	45b-i	63b-g	70b-e	95a-b	70b-e
18	H-22234 + Lorox 50W	2+.38	88b-e	58b-g	0a	58b-g	68b-f	73b-d	95a-b	70b-e
19	Destun 50WP	4	93a-b	68b-d	28 c	70b-c	68b-e	78 b	93b-c	73b-d
20	Destun 4S	6	90b-c	73b-c	40 d	70b-d	60b-g	50b-h	93b-c	70b-e
21	Destun 4S	4	93a-b	55b-h	0a-b	65b-f	60b-g	73b-d	95a-b	73b-d
22	Destun 4S	6	93a-b	75 b	50 d	75 b	73b-c	75b-d	95a-b	75 b
23	Modown 2E	1	65 e	30f-i	0a	18 i	45e-h	63b-h	88b-d	47g-i
24	Modown 2E	1.5	70d-e	63b-f	0a	45b-i	73b-d	73b-d	85b-d	70b-e
25	Modown 2E	4	75b-e	43b-i	0a	48b-i	70b-e	73b-d	95b-c	73b-d
26	Modown 2E + Lasso 4E	1+2	88b-e	53b-h	0a	50b-h	73 b	75b-c	90b-d	75 b
27	Modown 2E + Lasso 4E	1.5+2	85b-e	40c-i	0a	33f-i	68b-f	68b-g	88b-d	63b-g
28	Modown 2E + Lasso 4E	4+4	93a-b	35d-i	10 b	35e-i	63b-g	70b-e	93b-c	73b-d
29	Modown 2E + Surflan 75W	1.5+1.5	85b-e	35d-i	0a	40c-i	60b-g	65b-g	90b-d	68b-f
30	Lasso 4E + Furloe 4E	2+2	88b-e	33e-i	0a	33g-i	63b-g	63b-h	90b-d	58c-i

20 Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Broad-leaf	Crop Injury	Cockle-bur	Jimson-weed	Morning Glory	Giant Foxtail	Velvet-leaf
31	RH-512 2E	.75	75b-e	53b-h	0a	40c-1	53b-h	65b-g	88b-d	65b-g
32	RH-915 2E	.5	83b-e	58b-g	0a	43c-1	70b-e	68b-g	90b-c	70b-e
33	Lorox 50W + Bladex 80W	.5+1	83b-e	48b-i	0a	63b-g	60b-g	68b-g	93b-c	68b-f
34	Lasso 4E + Bladex 80W	2+1	93a-b	55b-i	0a	45b-1	65b-g	70b-e	88b-d	63b-g
35	R-25823 50W	2	70d-e	33e-1	0a	38d-1	55b-g	65b-g	88b-d	73d-1
36	R-25823 50W	4	78b-e	23h-1	0a	23h-1	65g-h	58d-h	90b-d	45h-1
37	Dyanap	1.5+3	65 e	50b-1	0a	60b-g	60b-g	65b-g	75 d	55b-h
38	Dyanap (delayed)	1.5+3	83b-e	65b-e	0a	69b-e	68b-f	73b-d	90b-c	73b-d
39	Dyanap + Lasso 4E	1.5+3+2	90b-c	53b-h	0a	55b-g	68b-f	63b-h	85b-d	50f-1
40	Preforan 3E + Maloran 50W	3+1.5	80b-e	40c-1	0a	45b-1	68b-f	68b-g	90b-d	70b-e
41	Preforan 3E + Sencor 50W	3+.38	90b-d	45b-1	0a	53b-h	70b-e	70b-e	95a-b	73b-c
42	Lorox 50W	.75	78b-e	43b-1	0a	40c-1	45d-h	65b-g	85b-d	65b-f
43	Lasso 4E	2	90b-c	33e-1	0a	33g-1	55b-g	58d-h	93b-c	58c-1
44	Maloran 50W	1.25	78b-e	50b-1	0a	55b-g	65b-g	68b-f	93a-c	68b-f
45	Solo	3+3	73c-e	25g-1	0a	35f-1	50b-h	63b-h	90b-d	58c-1
46	Lasso 4E + Lorox 50W	2+.75	90b-d	60b-f	0a	63b-g	73b-d	70b-e	93b-c	73b-d
47	Lasso 4E + Maloran 50W	2+1.25	90b-d	33e-1	0a	38d-1	65b-g	65b-g	90b-d	65b-g
48	CHECK	---	100a	100a	0a	100a	100a	100a	100a	100a

University of Kentucky - Agronomy Department - Lexington
Soybeans - Preplant Incorporated & Overlay - 1973

Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Visual Evaluation - June 19							
				Broad-leaf	Crop Injury	Smart-weed	Cockle-bur	Morning Glory	Jimson-weed	Velvet-leaf	Giant Foxta
1	BAS 3921 3E **	1	83b-f ¹	50h-k	0a	37g-k	40e-f	63b	78b-c	63b-e	88b-f
2	Amex 820 4E **	2	80b-f	40k	0a	38i-k	45c-f	57b-c	57b-c	57b-f	90a-e
3	Amex 820 4E + Sencor 50W **	1.5+3.8	88b-f	75b-g	0a	90a-f	70b	78b	78b	73b-d	93a-d
4	Treflan 4E + Sencor 50W **	.75+3.8	88b-f	68b-j	0a	80a-g	60b-e	70b	73b-c	68b-e	90a-e
5	Treflan 4E**+Sencor 50*	.75+3.8	93a-c	88b	5a-b	90a-e	73b	78b	78b	78b	93a-d
6	CGA-10832 4E **	1	85b-d	33k	0a	38k	30f	43c	37d	43f	85b-f
7	CGA-10832 4E **	1.5	85b-f	63d-j	0a	63d-j	55b-e	70b	65b-c	53c-f	88b-f
8	CGA-10832 4E**+ Maloran 50W**	1+1.25	88b-f	73b-h	8a-b	87a-f	53b-e	65b	65b-c	55b-f	93a-d
9	Modown 2E **	1.5	45h	58f-j	0a	78b-h	45c-f	75b	77b	70b-d	63g-h
10	Modown 2E + Lasso 4E **	1+2	88b-f	73b-h	0a	78a-g	58b-e	75b	73b-c	70b-d	90a-e
11	Modown 2E + Treflan 4E **	1.5+.75	83c-f	65c-j	0a	83a-g	55b-e	75b	73b-c	70b-d	88b-f
12	Treflan 4E**+ Modown 2E*	.75+1.5	88b-f	83b-d	0a	57b-h	63b-e	70b	70b-c	73b-d	93a-d
13	Treflan 4E**+ Furloe 4E*	.75+2	85b-f	65c-j	0a-c	78f-k	55b-e	70b	70b-c	50d-f	93a-d
14	Treflan 4E + Furloe 4E **	.75+2	83b-f	75b-g	25b-d	80b-h	55b-e	75b	70b-c	73b-d	88b-f
15	Treflan 4E + Furloe 124 4E **	.75+2	93a-c	60e-j	20a-c	90a-e	58b-e	73b	73b-c	63b-e	90b-f
16	Vernam 6E + Furloe 4E **	2.5+2	95a-b	83b-e	25b-c	95a-c	65b-e	75b	78b	78b	98a-b
17	Vernam 6E + Furloe 124 4E **	2.5+2	95a-b	75b-h	25b-c	93a-d	55b-e	75b	73b-c	73b-d	98a-b
18	Cobex 2E + Furloe 4E **	.5+2	80c-f	73b-h	58d-d	85a-g	68b-d	75b	70b-c	65b-e	85c-g
19	RH-512 2E **	.75	73d-g	55g-k	0a	47h-k	48b-e	70b	60b-c	53c-f	68f-h
20	RH-512 2E **	1.5	53g-h	63d-j	8a-b	63d-j	50b-e	75b-c	55c	45e-f	55h
21	RH-915 2E **	.5	65f-h	65c-j	10a-b	80a-g	55b-e	68b	66b-c	65b-e	75d-h
22	RH-915 2E **	1	88b-f	85b-c	25b-d	83a-g	68b-d	78b	78b	78b	93a-d
23	RH-915 2E + Treflan 4E **	.5+.5	85b-f	80b-f	5a-b	80b-h	68b-d	75b	75b	75b-c	83c-g
24	RH-512 2E + Treflan 4E **	1+.5	85b-f	80b-f	0a	97a-b	68b-d	78b	75b	70b-d	88a-c
25	Planavin 4S** + Bladex 80W*	1+1	90b-e	68b-j	10a-b	85a-f	60b-e	73b	70b-c	68b-e	88b-f
26	Treflan 4E** + Bladex 80W*	.75+1	90b-e	78b-g	0a	83a-g	70b-c	78b	75b	70b-d	88b-f
27	R-25823 50W **	2	68e-h	43j-k	0a	65c-i	50b-e	70b	68b-c	53b-f	73e-h
28	R-25823 50W **	4	80b-f	70b-i	0a	83a-g	55b-e	70b	70b-e	53c-f	85b-f
29	R-25823 50W + Vernam 6E **	2+2	95a-b	73b-h	0a	83a-g	58b-e	75b	75b	75b-c	90b-f
30	CHECK - WEEDY		0 i	0 i	0 a	0 i	0 g	0 d	0 e	0 g	0 i

Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Broad-leaf	Crop Injury	Smart-weed	Cockle-bur	Morning Glory	Jimson-weed	Velvet-leaf	Giant Foxtail
31	Treflan 4E** + Dyanap*	.75+1.5+3	78c-f	73b-h	0a	70c-i	63b-e	73b	68b-c	65b-d	90a-e
32	Treflan 4E** + Dyanap***	.75+1.5+3	88b-f	58f-j	0a	80b-h	43d-f	73b	70b-c	58e-f	83c-g
33	Treflan 4E **	.75	85b-f	63d-j	20a-c	77a-g	63b-g	70b	70b-c	68b-e	90a-d
34	Vernam 6E **	2.5	93a-c	60e-j	5a-b	73c-h	47b-e	73b	70b-c	70b-d	93a-d
35	Lasso 4E **	2	95a-b	48i-k	0a	33j-k	50b-e	65b	65b-c	70b-d	98a-b
36	Planavin 4S **	1.5	83b-f	68b-j	0a	57e-k	60b-e	75b	73b-c	70b-d	85c-g
37	Treflan 4E**+Lorox 50W*	.75+.5	88b-f	73b-h	13a-c	83a-g	63b-e	75b	73b-c	73b-d	95a-c
38	Cobex 2E***+Sencor 50W*	.5+.38	93a-c	85b-d	33c-d	75b-h	70b-c	75b	73b-c	73b-d	93a-d
39	Cobex 2E **	.5	75c-g	65c-j	10a-b	78b-h	58b-e	73b	65b-c	68b-e	83c-g
40	CHECK	--	100a	100a	0a	100a	100a	100a	100a	100a	100a

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

*** Delay

Location - Campus Farm

Planted & Treated - May 17

Soil Type - Silt Loam

Fertilization - 400 lb/A 12-12-12

Variety - Calland

Trt. No.	Herbicide Formulation	Lb/A Active	Grass	Broad-leaf	Visual Evaluation - July 24						
					Crop Injury	Smart-weed	Cockle-bur	Morning Glory	Jimson-weed	Velvet-leaf	Giant Foxtail
1	BAS 3921 3E **	1	83b-e	40c-h	0a	45g-i	35b-c	58b-d	55b-c	55b-g	78b-g
2	Amex 820 4E **	2	75b-d	15h	0a	30h-j	35b-c	50d	50b-c	48b-g	80b-e
3	Amex 820 4E + Sencor 50W **	1.5+.38	78b-d	65a-d	0a	88b-e	55b-c	70b-d	70b-c	63b-e	85b-d
4	Treflan 4E + Sencor 50W **	.75+.38	83b-c	43c-h	0a	70b-g	48b-c	70b-d	60b-c	58b-g	85b-d
5	Treflan 4E**+Sencor 50W*	.75+.38	85b-c	80a-b	5a	90a-c	73b	75b-c	75b	75b-c	85b-d
6	CGA-10832 4E **	1	80b-c	15h	0a	27i-j	23d	33e	28d	35g	83b-d
7	CGA-10832 4E **	1.5	78b-d	28e-h	0a	60d-g	48b-c	70b-d	58b-c	45c-g	85b-d
8	CGA-10832 4E**+Maloran 50W*	1+1.25	85b-c	45c-h	8a-b	63b-g	40b-c	65b-d	60b-c	45c-g	90a-d
9	Modown 2E **	1.5	43f	40c-h	0a	73b-g	38b-c	75b-c	70b-c	63b-e	58e-h
10	Modown 2E + Lasso 4E **	1+2	83b-c	30d-h	0a	68b-g	53b-c	73b-c	65b-c	65b-e	88b-d
11	Modown 2E + Treflan 4E **	1.5+.75	83b-c	30e-h	0a	70b-g	45b-c	75b-c	68b-c	65b-e	75b-g
12	Treflan 4E**+Modown 2E*	.75+1.5	83b-c	65a-d	0a	85b-d	58b-c	70b-d	70b-c	70b-d	85b-d
13	Treflan 4E**+Furloe 4E*	.75+2	85b-c	23g-h	0a	77b-g	40b-c	70b-d	63b-c	45c-g	85b-d
14	Treflan 4E + Furloe 4E **	.75+2	80b-c	50b-g	25c-d	80b-f	45b-c	75b-c	53b-c	63b-e	88b-d
15	Treflan 4E + Furloe 124 4E**	.75+2	83b-c	30e-h	20a-b	85b-f	50b-c	73b-c	60b-c	50b-g	85b-d
16	Vernam 6E + Furloe 4E **	2.5+2	88b	65b-f	25b-d	90a-c	63b	75b-c	93b	73b-c	93a-b
17	Vernam 6E + Furloe 124 4E **	2.5+2	90b	53b-g	25b-d	93a-b	48b-c	70b-d	65b-c	70b-d	93a-c
18	Cobex 2E + Furloe 4E **	.5+2	73b-e	38d-h	58e	85b-e	58b-c	75b-c	68b-c	55b-g	80b-g
19	RH-512 2E **	.75	68c-e	30e-h	0a	50f-h	33b-c	70b-d	50b-c	40d-g	58f-h
20	RH-512 2E **	1.5	50e-f	28e-h	8a-b	60d-g	45b-c	58e-d	53b-c	33f-h	45h
21	RH-915 2E **	.5	50e-f	30e-h	10a-b	70b-g	40b-c	63b-d	58b-c	58b-g	53g-h
22	RH-915 2E **	1	80b-c	73a-c	25c-d	80b-f	58b	78b	73b	75b	85b-d
23	RH-915 2E + Treflan 4E **	.5+.5	83b-c	43c-h	5a	73b-g	55b-c	75b-c	65b-c	65b-e	73c-g
24	RH-512 2E + Treflan 4E **	1+.5	78b-d	40c-h	0a	80b-f	58b-c	75b-c	55b-c	70b-f	83b-f
25	Planavin 4S**+Bladex 80W*	1+1	83b-c	33d-h	10a-b	78b-f	43b-c	70b-d	55b-c	53b-g	83b-f
26	Treflan 4E**+Bladex 80W*	.75+1	85b-c	48b-h	0a	73b-g	58b-c	73b-c	63b-c	60b-f	85b-d
27	R-25823 50W **	2	55d-f	25f-h	0a	55e-h	38b-c	70b-d	65b-c	45e-g	55g-h
28	R-25823 50W **	4	78b-c	43c-h	0a	77b-g	50b-c	70b-d	68b-c	50b-g	70d-h
29	R-25823 50W + Vernam 6E **	2+2	88b-c	50b-g	0a	78b-g	45b-c	73b-c	68b-c	60b-f	83b-f
30	CHECK - WEEDY	--	0 g	0 i	0a	0 k	0 e	0 f	0 e	0 h	0 i

University of Kentucky - Agronomy Department - Lexington
Soybeans in Stale Seedbed

Trt. No.	Herbicide Formulation	Lb/A Active	Visual Evaluation			
			7/2 Grass	7/2 Broadleaf	8/2 Grass	8/2 Broadleaf
1	Sencor 50W + Paraquat 2E + X-77 *	.38+.25+.5%	100 a ¹	88 b-d	93 a	85 a-e
2	Treflan 4E **	.75	95 a-b	50 h-i	90 a	40 j
3	Treflan 4E** + Sencor 50W + X-77*	.75+.38+.5%	100 a	88 c-e	90 a	83 a-f
4	Treflan 4E** + Sencor 50W + Paraquat 2E + X-77*	.75+.38+.25+.5%	100 a	93 b-c	90 a	88 a-d
5	Treflan 4E** + Sencor 50W + Roundup 3E*	.75+.38+2	100 a	95 b	93 a	80 a-g
6	Treflan 4E** + Lorox 50W + Paraquat 2E + X-77*	.75+.75+.25+.5%	100 a	85 c-f	93 a	73 c-g
7	Surflan + Sencor 50W + Paraquat 2E + X-77*	1+.38+.25+.5%	100 a	78 d-f	90 a	88 a-d
8	CGA-10832 4E**	.75	88 b	38 i	83 a	20 j
9	CGA-10832 4E**	1.0	88 b	40 h-i	85 a	20 j
10	CGA-10832 4E** + Maloran 50W + X-77*	.75+1.25+.5%	100 a	73 f	93 a	68 e-h
11	CGA-10832 4E** + Maloran 50W + X-77*	1+1.25+.5%	100 a	75 e-f	90 a	68 e-h
12	CGA-10832 4E** + Maloran 50W + Paraquat 2E + X-77*	.75+1.25+.25+.5%	100 a	80 d-f	88 a	60 g-h
13	CGA-10832 4E** + Maloran 50W + Roundup 3E*	.75+1.25+2	98 a	85 c-f	93 a	75 b-g
14	CGA-10832 4E** + Lorox 50W + Paraquat 2E + X-77*	.75+.75+.25+.5%	100 a	83 c-f	90 a	65 f-h
15	Lasso + Lorox 50W + Paraquat 2E + X-77*	2+.75+.25+.5%	100 a	88 c-e	93 a	80 a-f
16	Lorox 50W + Paraquat 2E + X-77*	.75+.25+.5%	95 a-b	83 c-f	90 a	85 a-c
17	Lasso + Lorox 50W + Roundup 3E*	2+.75+2	100 a	90 b-d	95 a	83 a-f
18	Lorox 50W + Roundup 3E*	.75+2	98 a	73 f	88 a	68 e-h
19	Lasso + Sencor 50W + Paraquat 2E + X-77*	2+.38+.25+.5%	100 a	90 b-d	90 a	88 a-d
20	Lasso + Sencor 50W + Roundup 3E*	2+.38+2	100 a	93 b-c	93 a	93 a
21	Treflan 4E** + Lorox 50W + Roundup 3E*	.75 .75+2	90 b	75 e-f	83 a	70 d-h
22	Treflan 4E** + Roundup 3E*	.75+2	100 a	70 f-g	90 a	50 h-i
23	Roundup 3E*	2	88 b	55 g-h	70 a	35 i-j
24	CHECK	---	100 a	100 a	93 a	90 a-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

* Preemergence

Planted & Applied Preemergence Treatments (*) - June 5

** Preplant

Treflan & CGA-10832 applied PPI (**) - May 4

Location - Maine Chance

Soil Type - Silt Loam

Variety - Calland

University of Kentucky - Agronomy Department - Lexington
Soybean Stubble - 1973

Trt. No.	Herbicide Formulation	Lbs/A Active	Visual Evaluation						Yield Bu/A
			August 2, 1973			August 14, 1973			
			Grass	Broad-leaf	Crop Injury	Grass	Leaf	Crop Injury	
1	Sencor 50W + Paraquat 2E + X-77	.38+.25+.5%	98 a-b	100 a	8 a	78 b-g	90 a-b	0 a	19 c-e
2	Surflan 75W + Paraquat 2E + X-77	1.5+.25+.5%	45 d	80 c	0 a	48 h	70 c	0 a	11 f
3	Surflan 75W + Lorox 50W + Paraquat 2E + X-77	1.5+1.0+.25+.5%	93 a-b	98 a-b	0 a	85 a-c	88 b	0 a	17 e-f
4	Surflan 75W + Sencor 50W + Paraquat 2E + X-77	1.0+.33+.25+.5%	85 a-c	95 a-b	0 a	78 b-g	88 b	0 a	17 e-f
5	Surflan 75W + Roundup 3E	1.5+2.0	95 a-b	95 a-b	13 a	90 a-b	90 a-b	5 a	19 c-e
6	Maloran 50W + X-77	1.5+.5%	75 b-c	93 a-c	0 a	65 f-g	85 b	0 a	18 d-f
7	Maloran 50W + Paraquat 2E + X-77	1.5+.25+.5%	98 a-b	100 a	0 a	85 a-d	90 a-b	0 a	23 a-e
8	Maloran 50W + Lasso 4E + Paraquat 2E + X-77	1.5+2.0+.25+.5%	98 a-b	98 a-b	0 a	80 a-f	88 b	0 a	23 a-e
9	Maloran 50W + Roundup 3E	1.5+2.0	98 a-b	100 a	0 a	90 a-b	90 a-b	0 a	23 a-e
10	Caparol 80W + X-77	2.0+.5%	78 b-c	93 a-c	10 a	68 e-g	88 b	0 a	20 b-e
11	Caparol 80W + X-77	4.0+.5%	98 a-b	98 a-b	28 a	83 a-e	85 b	48 b	11 f
12	Caparol 80W + Paraquat 2E + X-77	2.0+.25+.5%	98 a-b	100 a	0 a	83 a-e	90 a-b	0 a	20 b-e
13	Caparol 80W + Paraquat 2E + X-77	4.0+.25+.5%	100 a	100 a	25 a	90 a-b	90 a-b	40 c	18 d-f
14	Modown 2E + Lasso 4E + Paraquat 2E + X-77	1.5+2.0+.25+.5%	65 c-d	88 b-c	0 a	65 g-h	90 a-b	0 a	18 d-f
15	Modown 2E + Lasso 4E + Roundup 3E	1.5+2.0+2.0	75 a-c	95 a-b	23 a	85 a-c	88 b	0 a-b	24 a-e
16	Lasso 4E + Sencor 50W + Paraquat 2E + X-77	2.0+.38+.25+.5%	95 a-b	95 a-b	0 a	85 a-d	88 b	0 a	24 a-e
17	Lasso 4E + Sencor 50W + Roundup 3E	2.0+.38+1.0	100 a	100 a	0 a	85 a-d	90 a-b	0 a	26 a-c
18	Lasso 4E + Sencor 50W + Roundup 3E	2.0+.38+2.0	98 a-b	98 a-b	0 a	88 a-c	90 a-b	0 a	23 a-e
19	Lasso 4E + Lorox 50W + Roundup 3E	2.0+1.0+1.0	100 a	100 a	0 a	90 a-b	90 a-b	0 a	28 a
20	Lasso 4E + Lorox 50W + Roundup 3E	2.0+1.0+2.0	80 a-c	80 b-c	8 a	83 a-e	90 a-b	0 a	19 c-e
21	Lasso 4E + Maloran 50W + Roundup 3E	2.0+1.5+2.0	95 a-b	98 a-b	0 a	88 a-c	90 a-b	7 a-b	26 a-c
22	Lasso 4E + Maloran 50W + Roundup 3E	2.0+1.5+4.0	95 a-b	98 a-b	0 a	90 a-b	90 a-b	0 a	24 a-e
23	Lasso 4E + Maloran 50W + Roundup 3E	4.0+3.0+8.0	98 a-b	98 a-b	0 a	90 a-b	90 a-b	0 a	23 a-e
24	Lasso 4E + Lorox 50W + Roundup 3E	2.0+1.0+4.0	88 a-b	98 a-b	0 a	85 a-d	90 a-b	0 a	22 a-e
25	Lasso 4E + Lorox 50W + Roundup 3E	4.0+2.0+8.0	98 a-b	100 a	0 a	90 a-b	90 a-b	0 a	24 a-e
26	Lasso 4E + Sencor 50W + Roundup 3E	2.0+.38+4.0	100 a	100 a	0 a	90 a-b	90 a-b	0 a	28 a
27	Lasso 4E + Sencor 50W + Roundup 3E	4.0+.75+8.0	98 a-b	98 a-b	0 a	83 a-e	90 a-b	0 a	24 a-e
28	RH-915 2E + Paraquat 2E + X-77	.5+.25+.5%	70 b-c	93 a-c	0 a	68 d-g	83 b	0 a	17 e-f
29	Bladex 80W + Roundup 3E	1.0+2.0	98 a-b	98 a-b	0 a	63 a-c	90 a-b	0 a-b	24 a-e
30	Bladex 80W + Paraquat 2E + X-77	1.0+.25+.5%	85 a-c	93 a-c	0 a	70 c-g	85 b	0 a	24 a-e
31	Roundup 3E	2.0	100 a	98 a-b	0 a	50 a	90 a	0 a	25 a-d
32	Lasso 4E + Lorox 50W + Paraquat 2E + X-77	2.0+1.0+.25+.5%	98 a-b	98 a-b	0 a	88 a-c	90 a-b	0 a	27 a-b
33	Lorox 50W + Paraquat 2E + X-77	1.0+.25+.5%	98 a-b	100 a	0 a	80 a-f	90 a-b	0 a	22 a-e

Location - Spindletop

Treated & Planted - July 2, 1973

Variety - Calland

Soil Type - Silt Loam

University of Kentucky - Department of Agronomy - Lexington
Soybeans - Postemergence - 1973

Trt. No.	Herbicide*	Stage (trifoliolate)	Lb/A Active	VISUAL EVALUATION July 2				VISUAL EVALUATION July 24			
				Grass	Broad- leaf	Cockle- bur	Velvet- leaf	Grass	Broad- leaf	Cockle- bur	Velvet- leaf
				1	Basagran	1	.5	55 ^{1/}	88 a-b	93 a-b	80 b-d
2	Basagran	1	1.0	53 c	90 a-b	98 a	85 a-b	48 c	86 a-b	90 a-b	80 b-c
3	Basagran	1	1.5	55 c	90 a-b	95 a-b	85 a-b	50 c	90 a-b	90 a-b	80 b-d
4	Basagran	3	.5	65 b-c	70 b-c	83 b-c	60 c-e	53 b-c	68 b-c	75 b-c	58 d-e
5	Basagran	3	1.0	65 b-c	98 a	100 a	90 a-b	58 b-c	95 a	98 a	85 a-c
6	Basagran	3	1.5	75 b	88 a-b	100 a	95 a-b	70 b	90 a-b	95 a-b	85 a-c
7	Basagran	5	.5	65 b-c	45 d-e	48 e-f	30 f	65 b-c	35 d-e	35 d-e	18 f-g
8	Basagran	5	1.0	60 b-c	43 d-e	68 c-d	40 d-f	48 b-c	35 d-e	58 c-d	30 e-g
9	Basagran	5	1.5	65 b-c	63 c-d	68 c-e	50 d-f	53 b-c	55 c-d	55 c-e	40 e-f
10	Basagran	1	.5 + .5	55 c	98 a	98 a	90 a-b	48 c	95 a	95 a	85 a-c
11	Basagran	1	1 + 1	60 b-c	100 a	100 a	98 a-b	50 b-c	95 a	98 a	90 a-c
12	Basagran	1	1.5 + 1.5	65 b-c	98 a	100 a	100 a	55 b-c	98 a	100a	100 a
13	Basagran	3	.5 + .5	63 b-c	85 a-b	100 a	65 b-c	55 b-c	85 a-b	98 a	50 e
14	Basagran	3	1 + 1	55 c	98 a	100 a	100 a	48 c	93 a	98 a	98 a-b
15	Basagran	3	1.5 + 1.5	60 b-c	98 a	100 a	100 a	50 b-c	98 a	98 a	98 a-b
16	Basagran	3	.5 + .25%**	70 b-c	88 a-b	100 a	83 a-b	58 b-c	85 a-b	95 a-b	75 c-d
17	Basagran	3	1.0 + .25%	75 b	100 a	100 a	100 a	65 b	100 a	100 a	100 a
18	Basagran	3	1.5 + .25%	65 b-c	98 a	100 a	75 a-b	53 b-c	95 a	100 a	98 a-b
19	Tenoran	1	1.5 + .25%	60 b-c	40 d-e	38 f	23 f	58 b-c	33 d-e	28 e	13 f-g
20	Tenoran	1	1.0 + .5%***	70 b-c	25 e	58 d-f	28 e-f	70 b-c	23 e	45 d-e	18 g
21	CHECK	-	-	100 a	100 a	100 a	100 a	100 a	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.

*Area treated solid with BAS 3921 at 1.0 lb/A, May 17.

**Citowett Plus

***Adjuvan T

Planted - May 17

Soil type - silt loam, Fertilization - 300 lbs/A 12-12-12

Treated at various stages of trifoliolate, June 8, June 15, June 22

Variety - Calland - Location - Campus Farm

University of Kentucky - Department of Agronomy - Lexington
 Comparison of Metribuzin - 1973

Trt No.	Herbicide Formulation	Method	Lb/A Active	VISUAL EVALUATION			VISUAL EVALUATION		
				June 20			August 2		
				Grass	Broad- leaf	Crop Injury	Grass	Broad- leaf	Crop Injury
1	Metribuzin	Pre	.38	70 <u>e</u> ^{1/}	63 c	0 a	68 e	58 d-e	0 a
2	Metribuzin	PPI	.38	78 d-e	75 b-c	0 a	70 d-e	65 d-e	0 a
3	Metribuzin + Treflan	Pre + PPI	.38 + .75	95 a-c	65 c	8 a-b	90 b-c	55 e	8 a-b
4	Metribuzin + Treflan	PPI	.38 + .75	95 a-c	83 b-c	13 a-b	93 a-c	68 d-e	13 a-b
5	Metribuzin	Pre	.50	83 d-e	88 a-b	0 a	78 c-e	75 b-e	0 a
6	Metribuzin	PPI	.50	88 c-e	93 a-b	0 a	83 b-e	80 b-e	0 a
7	Metribuzin + Treflan	Pre + PPI	.50 + .75	90 b-d	88 a-b	18 b-c	88 b-d	70 c-e	18 b-c
8	Metribuzin + Treflan	PPI	.50 + .75	95 a-c	93 a-b	15 a-c	88 b-e	70 c-e	15 a-c
9	Metribuzin	Pre	.75	98 a-b	90 a-b	0 a	93 a-c	83 b-d	0 a
10	Metribuzin	PPI	.75	100 a	90 a-b	33 c	95 a-b	75 b-e	33 c
11	Metribuzin + Treflan	Pre + PPI	.75 + .75	98 a-b	90 a-b	10 a-b	95 a-b	85 b-c	10 a-b
12	Metribuzin + Treflan	PPI	.75 + .75	95 a-c	98 a	10 a-b	88 b-d	90 a-b	10 a-b
13	Check	-	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 - Campus Farm

Variety - Calland

Soil type - silt loam

Fertilization - 300 lb/A of 12-12-12

University of Kentucky - Department of Agronomy - Lexington
 Comparison of Chlorbromuron and Linuron - 1973

No.	Formulation	Lb/A Active	VISUAL EVALUATION			VISUAL EVALUATION		
			June 20			July 24		
			Grass	Broad- leaf	Crop Injury	Grass	Broad- leaf	Crop Injury
1	Chlorbromuron	0.25	3 g ^{1/}	3 g	0 a	10 g	10 e	0 a
2	Linuron	0.25	30 e-f	30 e-f	0 a	28 d-g	15 d-e	0 a
3	Chlorbromuron	0.50	15 f-g	15 f-g	0 a	13 f-g	13 e	0 a
4	Linuron	0.50	47 d-e	53 d-e	0 a	33 d-f	48 c	0 a
5	Chlorbromuron	0.75	13 f-g	25 e-f	0 a	13 f-g	18 d-e	0 a
6	Linuron	0.75	70 b-d	63 c-d	0 a	48 c-d	50 c	0 a
7	Chlorbromuron	1.0	33 e-f	55 c-e	0 a	20 e-g	43 c-d	0 a
8	Linuron	1.0	70 b-d	66 b-d	0 a	48 c-d	55 b-c	0 a
9	Chlorbromuron	1.25	53 c-e	55 c-e	0 a	45 c-d	48 c	0 a
10	Linuron	1.25	83 b-c	88 a-c	0 a	65 b-c	68 b-c	0 a
11	Chlorbromuron	1.50	73 b-d	83 a-d	0 a	43 c-e	58 b-c	0 a
12	Linuron	1.50	83 b-c	66 b-d	0 a	73 b	50 c	0 a
13	Chlorbromuron	2.0	66 b-d	75 b-d	0 a	38 d-e	50 c	0 a
14	Linuron	2.0	90 a-b	93 a-b	8 a	68 b	78 b	8 a
15	Check	0	100 a	100 a	0 a	10 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 - Campus Farm
 Treated and planted - May 18

Soil type - silt loam

Variety Calland
 Fertilization - 300 lb/A of 12-12-12

University of Kentucky - Agronomy Department - Lexington
Nutsedge in Soybean - 1973

Trt. No.	Herbicide Formulation	Lbs/A Active	Visual Evaluation - July 30	
			Nutsedge	
1	Bentazon ***	.75+.75	57	b ¹
2	do ***	1.5+1.5	67	b
3	S-21634 ***	2.0	83	b
4	do ***	3.0	97	a
5	Destun 50W **	4.0	77	b
6	Destun S **	4.0	80	b
7	Lasso 4E *	4.0	67	b
8	Vernam *	2.5	63	b
9	Linuron **	.75	23	c
10	Treflan *	.75	27	c
11	CHECK	0	0	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

* PPI

** Pre

*** Post

Location - Campus Farm

Planted & Treated - June 12

Fertilization - 300 lb/A of 12-12-12

Soil Type - Silt Loam

Variety - 3369-A

University of Kentucky - Agronomy Department - Lexington
Burley Tobacco - 1973

Treat. No.	Herbicide Formulation	Method	Lb/A Active	Visual Evaluation			
				August 2, 1973		August 14, 1973	
				Grass	Broadleaf	Grass	Broadleaf
1	Balan	PPI	1.5	85 b ¹	68 c-d	90 b	45 c-d
2	Balan 2.5G	PPI	1.5	80 b	65 c-d	90 b	40 d
3	Parlan	PPI	1.5	88 b	88 b	90 b	70 b-c
4	Tillam	PPI	4.0	85 b	58 d	90 b	43 d
5	Tillam + Devrinol	PPI	4.0+.5	83 b	80 b-c	80 c	55 b-d
6	Tillam + Devrinol	PPI	4.0+1.0	90 b	88 b	88 b-c	78 b
7	Enide	Pre-trans	6.0	90 b	88 b	88 b-c	63 b-d
8	Enide	Post-trans	6.0	90 b	88 b	90 b	58 b-d
9	CHECK		-	100 a	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

Location - Spindletop Farm

Set & Treated - June 14

Soil Type - Silt Loam

Variety - Ky 14

Fertilization - 150 lb/A of N