

# Herbicide Evaluation Trials - 1997

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## I. ABBREVIATIONS

### A. Crop and Weed Species

<u>ABB</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>
ABUTH	Velvetleaf	<i>Abutilon theophrasti</i>
ACCOS	Hophornbeam Copperleaf	<i>Acalypha ostryifolia</i>
AMACH	Smooth Pigweed	<i>Amaranthus hybridus</i>
AMBEL	Common Ragweed	<i>Ambrosia artemisiifolia</i>
AMBTR	Giant Ragweed	<i>Ambrosia trifida</i>
AMPAL	Honeyvine Milkweed	<i>Ampelamus albidus</i>
BRAPP	Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>
CAGSE	Hedge Bindweed	<i>Calystegia sepium</i>
CHEAL	Common Lambsquarters	<i>Chenopodium album</i>
CONAR	Field Bindweed	<i>Convolvuls arvensis</i>
DATST	Jimsonweed	<i>Datura stramonium</i>
DIGSA	Large Crabgrass	<i>Digitaria sanguinalis</i>
ELEIN	Goosegrass	<i>Eleusine indica</i>
GLYMA	Soybean	<i>Glycine max</i>
IPOHE	Ivyleaf Morningglory	<i>Ipomoea hederacea</i>
IPOLA	Pitted Morningglory	<i>Ipomoea lacunosa</i>
IPOSS	Morningglory	<i>Ipomoea ssp.</i>
NIOTA	Burley Tobacco	<i>Nicotiana tabacum L.</i>
PHBPU	Tall Morningglory	<i>Ipomoea purpurea</i>
PHYHE	Clammy Groundcherry	<i>Physalis heterophylla</i>
POLPE	Ladysthumb	<i>Polygonum persicaria</i>
POLPY	Pennsylvania Smartweed	<i>Polygonum pensylvanicum</i>
SETFA	Giant Foxtail	<i>Setaria faberi</i>
SIDSP	Prickly Sida	<i>Sida spinosus</i>
SOLCA	Horsenettle	<i>Solanum carolinense</i>
SOLPT	Eastern Black Nightshade	<i>Solanum ptycanthum</i>
SORHA	Johnsongrass	<i>Sorghum halepense</i>
XANST	Common Cocklebur	<i>Xanthium strumarium</i>
ZEAMX	Corn	<i>Zea mays</i>

### B. Miscellaneous

BBBB	All Broadleaf Species
GGGG	All Grass Species

## I. ABBREVIATIONS

### C. Herbicide application times in Reference to Crop or Weed.

#### PREEMERGENCE

4WK -4 WEEKS BEFORE PLANTING  
 3WK -3 WEEKS BEFORE PLANTING  
 2WK -2 WEEKS BEFORE PLANTING  
 1WK -1 WEEK BEFORE PLANTING  
 EPP -EARLY PREPLANT  
 PPI -PREPLANT INCORPORATED  
 PPI14D-PREPLANT INCORPORATED 14 DAYS BEFORE PLANTING  
 SB -SHALLOW BLEND  
 SB14D -SHALLOW BLEND 14 DAYS BEFORE PLANTING  
 PRE -PREEMERGENCE

#### POSTEMERGENCE

EEP -EARLY EARLY POSTEMERGENCE WEEDS <1"  
 EP -EARLY POSTEMERGENCE WEEDS < 2"  
 MP -MID-POSTEMERGENCE WEEDS 2-4"  
 LP -LATE POSTEMERGENCE WEEDS 4-6"  
 LLP -LATE LATE POSTEMERGENCE WEEDS >6"  
 POT -POST TRANSPLANT  
 2LC -2 LEAF CORN  
 4LC -4 LEAF CORN  
 SPK -SPIKING CORN  
 +1W -APPLIED 1 WEEK AFTER FIRST APPLICATION  
 +2W -APPLIED 2 WEEKS AFTER FIRST APPLICATION  
 +3W -APPLIED 3 WEEKS AFTER FIRST APPLICATION  
 +4W -APPLIED 4 WEEKS AFTER FIRST APPLICATION  
 +5W -APPLIED 5 WEEKS AFTER FIRST APPLICATION  
 5"C -5 INCH CORN  
 6"C -6 INCH CORN  
 8"C -8 INCH CORN  
 10"C -10 INCH CORN  
 12"C -12 INCH CORN  
 16"C -16 INCH CORN  
 20"C -20 INCH CORN  
 6"W -6 INCH WEEDS  
 +3"W -3 INCH WEED REGROWTH  
 8J -8 INCH JOHNSONGRASS  
 12J -12 INCH JOHNSONGRASS  
 16J -16 INCH JOHNSONGRASS  
 18J -18 INCH JOHNSONGRASS  
 IFN -IF NEEDED  
 REG -WEED REGROWTH

## II. A. APRIL CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP	
	MX	MN	AV		MX	MN	MX	MN	MX	MN		
04-01-97	58	30	44		89	28	49	44	56	39	0.16	
04-02-97	66	34	50		80	27	51	45	58	41	0.15	
04-03-97	71	40	56		76	28	52	46	60	43	0.19	
04-04-97	74	50	62		63	34	53	49	60	48	0.16	
04-05-97	76	57	66	0.01	89	54	55	53	61	54	0.21	
04-06-97	74	50	62		98	43	57	55	64	55	0.28	
04-07-97	51	36	44		76	40	55	51	58	47	0.32	
04-08-97	58	30	44		81	36	52	48	58	42	0.13	
04-09-97	41	20	30		78	35	49	46	55	40	0.24	
04-10-97	50	24	37		77	33	49	44	56	39	0.10	
04-11-97	71	35	53		75	38	53	46	63	44	0.19	
04-12-97	67	41	54	0.11	100	71	55	52	61	52	0.15	
04-13-97	40	33	36	0.01	99	73	52	47	51	42	0.15	
04-14-97	53	28	40		100	36	51	44	58	38	0.05	
04-15-97	60	31	46		93	37	53	45	62	42	0.19	
04-16-97	67	42	54	0.11	100	38	55	49	60	47	0.26	
04-17-97	43	32	38		94	59	51	48	51	44	0.18	
04-18-97	56	28	42		100	35	50	45	55	40	0.07	
04-19-97	55	42	48	0.05	100	66	51	48	56	47	0.18	
04-20-97	61	35	48		100	56	53	49	52	51	0.10	
04-21-97	60	51	56	0.31	96	74	56	55	67	63	0.11	
04-22-97	63	43	53		100	58	55	50	63	48	0.12	
04-23-97	57	39	48		99	58	54	51	59	49	0.18	
04-24-97	60	38	49		99	51	54	50	61	46	0.14	
04-25-97	63	37	50		100	38	55	49	64	47	0.08	
04-26-97	65	40	52		77	38	55	50	64	48	0.24	
04-27-97	57	48	52	0.64	100	51	54	53	56	53	0.16	
04-28-97	56	46	51		100	72	54	53	59	52	0.11	
04-29-97	68	41	54		95	36	57	51	68	47	0.16	
04-30-97	77	48	62	0.16	100	52	57	52	66	51	0.20	
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Summary	04 of 97	61	38	49	1.40	91	46	53	49	59	47	4.96
Dev.	04 of 97	-5	-7	-6	-2.48							



## II. A. MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP			
	MX	MN	AV		MX	MN	GRASS MX	GRASS MN	BARE MX	BARE MN				
05-01-97	60	46	53	0.05	100	69	57	54	62	55	0.23			
05-02-97	75	42	58	0.15	100	34	56	53	62	51	0.26			
05-03-97	62	45	54	0.58	100	74	57	55	61	53	0.12			
05-04-97	63	45	54		100	43	56	53	64	49	0.21			
05-05-97	68	43	56	0.12	96	47	56	52	61	49	0.24			
05-06-97	67	49	58		95	45	59	54	70	53	0.14			
05-07-97	68	42	55		92	39	58	53	68	52	0.11			
05-08-97	64	52	58	0.38	100	59	57	55	61	54	0.15			
05-09-97	60	44	52	0.01	100	73	57	54	58	51	0.12			
05-10-97	61	41	51		90	33	57	53	62	48	0.12			
05-11-97	69	38	54		91	39	57	51	65	47	0.27			
05-12-97	58	49	54		95	56	55	54	58	53	0.26			
05-13-97	61	42	52	0.03	100	45	55	52	61	49	0.03			
05-14-97	70	47	58	0.05	100	52	56	53	62	51	0.15			
05-15-97	61	39	50	0.07	88	46	55	53	58	49	0.23			
05-16-97	61	34	48		92	45	56	50	63	44	0.17			
05-17-97	73	48	60	0.03	88	58	57	53	64	51	0.19			
05-18-97	83	63	73		77	56	61	56	72	57	0.28			
05-19-97	81	62	72	0.29	100	69	64	59	74	62	0.24			
05-20-97	67	52	60	0.06	100	51	64	60	72	61	0.17			
05-21-97	63	45	54		93	43	62	57	70	54	0.16			
05-22-97	67	40	54		92	47	62	55	72	53	0.18			
05-23-97	72	46	59		80	42	62	56	72	55	0.20			
05-24-97	78	54	66	0.47	100	69	63	58	75	59	0.16			
05-25-97	76	64	70	0.73	100	87	65	62	73	66	0.16			
05-26-97	64	56	60	0.61	100	89	64	62	67	62	0.07			
05-27-97	67	54	60		95	76	62	61	67	59	0.19			
05-28-97	59	56	58	0.19	100	80	61	59	62	59	0.15			
05-29-97	62	55	58	0.22	100	99	59	59	61	58	0.05			
05-30-97	75	54	64		100	65	63	59	72	58	0.11			
05-31-97	66	63	64	2.10	100	100	63	62	66	64	0.01			
---														
Summary	05	of	97	67	49	58	6.14	96	59	59	56	66	54	5.13
Dev.	.05	of	97	-9	-6	-7	+1.67							

## II. A. JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
06-01-97	71	59	65	0.47	100	79	64	63	70	64	0.01
06-02-97	79	56	68	0.01	100	62	66	61	76	61	0.26
06-03-97	70	56	63	0.01	100	85	65	63	71	64	0.12
06-04-97	65	53	59		100	84	64	62	66	61	0.11
06-05-97	68	53	60		100	85	65	61	67	58	0.04
06-06-97	68	57	62	0.12	100	64	63	62	69	61	0.11
06-07-97	61	56	58	0.43	100	87	63	61	64	61	0.10
06-08-97	63	58	60	1.08	100	100	62	61	63	60	0.00
06-09-97	63	58	60	0.17	100	99	62	61	65	60	0.06
06-10-97	75	55	65		100	63	65	60	73	58	0.14
06-11-97	70	63	66	0.16	100	90	65	63	70	65	0.05
06-12-97	77	65	71	0.12	100	85	67	66	74	65	0.08
06-13-97	79	64	72	0.30	100	83	68	66	75	67	0.18
06-14-97	76	62	69	0.14	100	76	68	66	72	66	0.15
06-15-97	79	54	66		99	47	68	63	79	61	0.12
06-16-97	78	66	72	0.94	100	84	68	66	73	67	0.25
06-17-97 E	76	66	71	1.07	100	87	69	67	75	68	0.31
06-18-97	74	64	69	0.20	100	87	69	68	74	69	0.41
06-19-97	84	63	74	0.04	100	67	71	67	69	67	0.14
06-20-97	86	68	77		100	65	72	69	83	70	0.31
06-21-97	86	68	77		98	62	73	69	84	70	0.37
06-22-97	86	68	77		100	67	74	70	84	82	0.23
06-23-97	87	64	76		100	63	74	70	87	71	0.25
06-24-97	89	67	78		100	60	74	70	88	73	0.29
06-25-97	87	75	81		97	67	75	72	87	75	0.25
06-26-97	83	68	76	0.08	100	78	74	72	82	76	0.23
06-27-97	82	63	72		100	59	74	70	84	71	0.25
06-28-97	83	62	72		100	71	72	69	81	71	0.23
06-29-97	77	68	72	0.77	100	91	72	70	77	72	0.19
06-30-97	82	69	76	0.09	100	81	73	71	80	72	0.21
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Summary 06 of 97	77	62	70	6.20	100	76	69	66	75	67	5.45
Dev. . 06 of 97	-6	+0	-3	+2.54							

## II. A. JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
07-01-97	84	68	76		100	79	74	71	81	72	0.11
07-02-97	89	68	78		100	78	75	71	84	72	0.23
07-03-97	83	69	76		100	59	74	72	83	74	0.35
07-04-97	74	61	68	0.02	99	69	73	70	78	72	0.21
07-05-97	73	55	64		100	66	70	67	76	68	0.14
07-06-97	78	54	66		100	51	69	65	79	67	0.25
07-07-97	84	57	70		100	52	71	65	82	69	0.28
07-08-97	86	62	74		100	62	71	67	81	71	0.34
07-09-97	82	62	72		100	79	72	70	80	74	0.21
07-10-97	76	56	66		100	62	71	68	79	70	0.26
07-11-97	85	56	70		100	64	72	66	81	69	0.17
07-12-97	87	63	75		100	59	73	68	82	72	0.30
07-13-97	89	67	78		100	47	74	69	86	74	
07-14-97	89	66	78		100	67	74	69	84	74	
07-15-97	88	66	77		100	55	75	70	86	75	0.26
07-16-97	90	63	76		100	45	75	70	87	75	
07-17-97	91	66	78		100	48	75	70	88	76	0.36
07-18-97	92	69	80		99	51	76	71	89	77	
07-19-97	91	72	82		99	58	76	72	89	79	
07-20-97	91	65	78		99	51	77	72	89	77	0.25
07-21-97	95	70	82	2.55	100	59	76	72	88	77	0.07
07-22-97	85	69	77	0.10	100	81	76	72	83	76	0.16
07-23-97	86	69	78	0.20	100	82	75	73	82	76	0.01
07-24-97	85	69	77	0.01	100	78	76	73	82	76	0.05
07-25-97	87	67	77		100	64	76	73	84	75	0.17
07-26-97	92	68	80		100	72	77	73	85	76	0.23
07-27-97	96	74	85		100	58	79	75	89	78	0.31
07-28-97	94	72	83	0.44	100	63	78	75	87	78	
07-29-97	83	69	76		100	69	77	75	84	77	0.21
07-30-97	80	62	71		93	46	75	73	82	72	0.33
07-31-97	82	57	70		92	50	74	70	81	70	0.35
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Summary 07 of 97	86	65	75	3.32	99	62	74	71	84	74	5.61
Dev. . 07 of 97	+0	+0	+0	-1.68							

## II. A. AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP	
	MX	MN	AV		MX	MN	MX	MN	MX	MN		
08-01-97	86	56	71		100	39	82	75	95	72	0.21	
08-02-97	87	63	75		98	54	82	75	96	75	0.16	
08-03-97	89	68	78		100	63	84	78	97	80	0.20	
08-04-97	88	71	80		99	58	84	79	96	80	0.32	
08-05-97	80	63	72		99	50	82	78	94	78	0.32	
08-06-97	76	53	64		100	36	81	75	94	74	0.29	
08-07-97	79	49	64		100	36	81	73	94	72	0.18	
08-08-97	82	53	68	0.69	100	66	69	64	78	69	0.30	
08-09-97	74	64	69	0.05	100	78	69	68	73	70		
08-10-97	77	64	70	0.08	100	86	77	74	82	72		
08-11-97	87	65	76		100	69	80	74	90	72	0.12	
08-12-97	86	70	78	0.25	100	77	80	76	87	77	0.30	
08-13-97	80	70	75	0.16	100	90	73	72	78	74	0.13	
08-14-97	83	67	75		100	68	74	72	82	73	0.10	
08-15-97	86	72	79	0.24	100	77	74	72	80	74	0.29	
08-16-97	90	76	83		98	71	76	73	83	75	0.31	
08-17-97	89	70	80	0.89	100	78	76	74	80	76	0.28	
08-18-97	82	68	75		100	78	75	73	82	73	0.10	
08-19-97	78	65	72	0.28	100	81	74	72	80	74	0.08	
08-20-97	72	65	68	0.21	100	95	72	72	74	71	0.11	
08-21-97	75	59	67	0.01	100	69	78	75	81	69	0.13	
08-22-97	74	54	64		100	61	76	72	79	65	0.09	
08-23-97	75	50	62		100	44	69	65	77	64	0.12	
08-24-97	76	54	65		98	53	75	70	86	66		
08-25-97	76	62	69	0.16	100	84	75	72	79	70		
08-26-97	83	63	73		100	78	78	72	86	70	0.17	
08-27-97	86	66	76		100	72	79	74	91	73	0.17	
08-28-97	86	68	77		100	59	80	76	92	75	0.22	
08-29-97	78	61	70		100	65	79	76	91	74		
08-30-97	79	53	66		100	58	78	73	92	70		
08-31-97	85	61	73		100	67	77	74	88	72		
---												
Summary	08 of 97	81	63	72	3.02	100	66	77	73	86	73	4.70
Dev.	08 of 97	-3	+0	-1	-0.91							

## II. B. APRIL CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
04-01-97	64	33	48		100	28	61	55			
04-02-97	73	41	57		90	28	61	56			
04-03-97	78	38	58		100	32	60	50			
04-04-97	76	52	64	T	80	60	60	52			
04-05-97	70	56	63	0.98	100	92	62	54			
04-06-97	71	58	64	0.01	100	36	60	57			
04-07-97	70	38	54		90	50	62	55			
04-08-97	64	37	50	T	100	48	60	48			
04-09-97	54	27	40		100	38	58	52			
04-10-97	53	31	42		94	46	54	50			
04-11-97	78	45	62		66	44	56	50			
04-12-97	74	48	61	0.88	100	90	62	50			
04-13-97	50	37	44		100	52	57	52			
04-14-97	59	28	44		100	40	56	48			
04-15-97	66	30	48		100	32	56	52			
04-16-97	70	37	54		100	60	56	50			
04-17-97	60	35	48	T	100	70	58	52			
04-18-97	65	30	48		100	40	58	50			
04-19-97	65	50	58	0.39	100	80	56	50			
04-20-97	67	37	52		100	52	58	50			
04-21-97	65	50	58	0.58	100	72	58	50			
04-22-97	63	45	54	0.03	100	90	58	54			
04-23-97	61	41	51	0.17	100	64	58	50			
04-24-97	65	48	56		100	40	58	54			
04-25-97	67	44	56		100	32	62	54			
04-26-97	70	48	59		100	70	62	60			
04-27-97	65	50	58	0.90	100	90	62	60			
04-28-97	62	50	56		100	80	62	54			
04-29-97	72	38	55		100	38	62	58			
04-30-97	84	50	67		100	28	62	60			
---											
Summary 04 of 97	67	42	54	3.94	97	54	59	53			
Dev . 04 of 97	-5	-5	-5	-0.86							

## II. B. MAY CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
05-01-97	82	44	63	0.48	100	70	62	58			
05-02-97	76	52	64	T	100	90	64	60			
05-03-97	70	52	61	0.56	100	80	64	60			
05-04-97	69	40	54	0.06	100	36	65	56			
05-05-97	75	46	60		100	40	65	56			
05-06-97	75	51	63		100	24	66	60			
05-07-97	75	42	58		100	50	65	58			
05-08-97	76	42	59	0.57	100	92	62	60			
05-09-97	76	56	66		100	48	62	60			
05-10-97	76	41	58		100	32	62	56			
05-11-97	74	41	58		92	32	67	60			
05-12-97	66	54	60	T	100	52	67	58			
05-13-97	68	38	53	0.07	100	60	64	54			
05-14-97	76	50	63	0.41	100	52	64	58			
05-15-97	71	42	56		100	32	66	58			
05-16-97	68	34	51		100	42	64	52			
05-17-97	84	50	67	T	100	28	67	58			
05-18-97	87	64	76	0.02	100	52	70	64			
05-19-97	87	67	77	0.27	100	68	70	64			
05-20-97	72	55	64	0.10	100	28	71	68			
05-21-97	70	50	60		100	32	72	68			
05-22-97	70	42	56		100	42	72	70			
05-23-97	81	44	62		100	28	70	64			
05-24-97	83	60	72		100	70	74	68			
05-25-97 E	78	67	72	0.14	98	79	73	72			
05-26-97	83	61	72	1.51	100	90	72	64			
05-27-97	82	58	70	0.15	100	70	72	68			
05-28-97	74	60	67	0.25	100	90	72	66			
05-29-97	74	58	66	0.53	100	50	72	70			
05-30-97	76	58	67	0.02	100	82	73	68			
05-31-97	74	60	67	0.22	100	80	74	70			
---											
Summary 05 of 97	76	51	63	5.36	100	56	68	62			
Dev. . 05 of 97	-5	-5	-5	+0.40							

## II. B. JUNE CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP		EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	
06-01-97 E	65	58	62	0.78	100	95	72	66	
06-02-97	76	56	66	0.02	100	92	72	65	
06-03-97	75	58	66	0.08	100	50	72	68	
06-04-97	72	60	66		100	82	72	66	
06-05-97	71	58	64	T	100	90	70	64	
06-06-97	72	60	66	0.10	100	80	72	66	
06-07-97	76	58	67	0.02	100	70	74	70	
06-08-97 E	76	60	68	0.22	98	82	70	66	
06-09-97	77	58	68	0.02	100	52	74	68	
06-10-97	77	59	68	0.31	100	82	74	68	
06-11-97	74	62	68	0.12	100	100	72	64	
06-12-97	81	65	73	0.02	100	80	76	70	
06-13-97	84	66	75	T	100	82	76	70	
06-14-97	81	64	72	1.42	100	82	76	70	
06-15-97	84	62	73		100	44	77	70	
06-16-97	84	69	76	0.02	100	100	78	74	
06-17-97	83	67	75	0.31	100	100	78	70	
06-18-97	87	66	76	0.08	100	70	78	72	
06-19-97	90	69	80		100	38	82	76	
06-20-97	90	69	80		100	28	84	76	
06-21-97	89	70	80	0.06	100	50	86	78	
06-22-97	90	68	79		100	82	82	76	
06-23-97	94	70	82		100	28	86	76	
06-24-97	93	72	82		100	32	86	80	
06-25-97	90	76	83		100	40	86	82	
06-26-97	89	72	80	0.19	100	70	86	82	
06-27-97	88	68	78		100	50	84	80	
06-28-97	89	69	79	1.25	100	80	84	80	
06-29-97	85	70	78	0.01	100	84	85	78	
06-30-97	83	71	77	0.06	100	90	86	76	
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Summary 06 of 97	82	65	74	5.09	100	70	78	72	
Dev. . 06 of 97	-5	+2	-2	+1.24					

## II. B. JULY CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
07-01-97	92	70	81		100	32	86	78			
07-02-97	92	75	84		100	86	84	78			
07-03-97	93	70	82		100	70	84	78			
07-04-97	88	66	77	0.18	100	60	84	70			
07-05-97	77	55	66		100	50	84	76			
07-06-97	82	53	68		100	64	85	75			
07-07-97	88	58	73		100	60	82	74			
07-08-97	89	65	77		100	50	84	78			
07-09-97	89	68	78	0.10	100	70	84	76			
07-10-97	88	63	76		100	50	84	78			
07-11-97	86	58	72		100	42	82	76			
07-12-97	90	59	74		100	60	86	78			
07-13-97 E	91	71	81		79	58	84	76			
07-14-97	95	72	84		100	70	86	78			
07-15-97	93	66	80	0.72	100	60	86	80			
07-16-97	90	67	78		100	50	87	80			
07-17-97	93	64	78		100	52	88	80			
07-18-97	93	66	80		100	40	88	82			
07-19-97	94	68	81		100	60	88	78			
07-20-97 E	94	70	82		92	60	87	81			
07-21-97 E	96	73	84		99	58	87	81			
07-22-97	95	75	85	0.82	100	60	88	82			
07-23-97	91	72	82		100	42	88	80			
07-24-97	90	68	79		100	50	89	82			
07-25-97	92	66	79		100	64	89	84			
07-26-97	99	72	86		100	70	90	82			
07-27-97	99	76	88		100	78	89	82			
07-28-97	100	79	90		100	80	90	84			
07-29-97	95	73	84	0.08	100	60	90	82			
07-30-97	85	66	76		100	40	90	80			
07-31-97	89	62	76		100	42	89	86			
---											
Summary 07 of 97	91	67	79	1.90	99	58	87	79			
Dev. . 07 of 97	+2	+1	+1	-2.39							



## II. B. AUGUST CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
08-01-97	89	61	75		100	48	90	78			
08-02-97	88	62	75		100	92	90	82			
08-03-97 E	91	61	76		67	43	88	75			
08-04-97 E	93	71	82		90	53	88	82			
08-05-97	89	68	78		100	50	85	80			
08-06-97	84	60	72		100	60	83	77			
08-07-97	84	57	70		100	42	81	75			
08-08-97	85	58	72		100	86	82	75			
08-09-97	80	65	72	0.99	100	100	82	75			
08-10-97	87	65	76	0.26	100	98	74	73			
08-11-97	91	70	80		100	100	84	73			
08-12-97	87	73	80	0.04	100	70	82	76			
08-13-97	88	72	80	0.18	100	60	82	78			
08-14-97	89	69	79		100	62	82	76			
08-15-97	92	74	83	0.02	100	72	82	76			
08-16-97	94	78	86		100	72	82	80			
08-17-97	93	77	85		100	74	83	80			
08-18-97	90	69	80		100	66	84	82			
08-19-97	88	68	78	0.19	100	68	84	82			
08-20-97	76	70	73	0.36	100	82	86	80			
08-21-97	78	60	69		100	58	82	75			
08-22-97	79	57	68		100	54	78	73			
08-23-97	82	57	70		100	52	78	74			
08-24-97	82	58	70		100	68	84	76			
08-25-97	86	54	70		100	62	86	80			
08-26-97	90	69	80	0.02	100	74	84	74			
08-27-97	90	76	83		100	78	80	76			
08-28-97	92	70	81		100	48	82	78			
08-29-97	92	67	80		100	72	83	78			
08-30-97	94	64	79		100	56	83	78			
08-31-97	90	72	81		100	58	83	77			
---											
Summary 08 of 97	88	66	77	2.06	99	67	83	77			
Dev. . 08 of 97	+0	+2	+1	-1.95							

### III. HERBICIDES IN REPORT

TRADE NAME	CHEMICAL/COMMON	COMPANY
AATREX	ATRAZINE	NOVARTIS
ACCENT	NICOSULFURON	DUPONT
ACTION	CGA 248757	NOVARTIS
ACTIVATOR 90	NONIONIC SURFACTANT	LOVELAND
AMS	AMMONIUM SULFATE	
ASSURE II	QUIZALOFOP	DUPONT
AUTHORITY	SULFENTRAZONE	FMC
AUTHORITY BROADLEAF	SULFENTRAZONE + CHLORIMURON (5:1 RATIO)	FMC
AXIOM	THIAFLUAMIDE + METRIBUZIN	BAYER
BALANCE	ISOXAFLUTOLE	RHONE-POULENC
BANVEL	DICAMBA (DIMETHYLAMINE SALT)	BASF
BASAGRAN	BENTAZON	BASF
BASIS	RIMSULFURON + THIFENSULFURON	DUPONT
BASIS GOLD	NICOSULFURON + RIMSULFURON + ATRAZINE	DUPONT
BAY 06550		BAYER
BEACON	PRIMISULFURON	NOVARTIS
BICEP II	METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BICEP II MAGNUM	METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BICEP LITE II MAGNUM	METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BLAZER	ACIFLUORFEN	BASF
BROADSTRIKE	FLUMETSULAM	DowElanco
BROADSTRIKE SF + DUAL	FLUMETSULAM + METOLACHLOR	DowElanco
BROADSTRIKE + TREFLAN	FLUMETSULAM + TRIFLURALIN	DowElanco
BUCTRIL	BROMOXYNIL	RHONE-POULENC
BUCTRIL/ATRAZINE	BROMOXYNIL + ATRAZINE	RHONE-POULENC
BULLET	ALACHLOR MT + ATRAZINE	MONSANTO
CANOPY	CHLORIMURON + METRIBUZIN (1:6 RATIO)	DUPONT
CANOPY XL	SULFENTRAZONE + CHLORIMURON (5:1 RATIO)	DUPONT
CLARITY	DICAMBA (DIGLYCOLAMINE SALT)	BASF
CLASSIC	CHLORIMURON	DUPONT
COBRA	LACTOFEN	VALENT
COMMAND	CLOMAZONE	FMC
CONCLUDE XTRA	BENTAZON + ACIFLUORFEN + CLETHODIM	BASF
COVER	SULFENTRAZONE	DUPONT

TRADE NAME	CHEMICAL/COMMON	COMPANY
COUNTER	TERBUFOS	AMERICAN CYANAMID
CROP OIL CONCENTRATE (COC)		LOVELAND
DETAIL	IMAZAQUIN + DIMETHENAMID	AMERICAN CYANAMID
DISTINCT	BAS 662, SAN 1269H	BASF
DUAL II	METOLACHLOR + BENOXACOR	NOVARTIS
DUAL II MAGNUM	METOLACHLOR + BENOXACOR	NOVARTIS
EXCEED	PROSULFURON + PRIMISULFURON	NOVARTIS
EXP 31498A		RHONE-POULENC
EXP 31430A		RHONE-POULENC
EXPERT	OXASULFURON	NOVARTIS
EXTRAZINE II	CYANAZINE + ATRAZINE 3:1	DUPONT
F-8426	CARFENTRAZONE	FMC
FIRSTRATE	CLORANSULAM	DowElanco
FLEXSTAR HL	FOMESAFEN + SURFACTANT	ZENECA
FLUMETSULAM	FLUMETSULAM	DowElanco
FRONTIER	DIMETHENAMID (SAN 582H)	BASF
FULTIME	ACETOCHLOR + SAFENER + ATRAZINE	ZENECA
FURADAN	CARBOFURAN	FMC
FUSION	FLUAZIFOP-P-BUTYL + FENOXAPROP-P-ETHYL	ZENECA
GALAXY	BENTAZON + ACIFLUORFEN (3.0 + .67)	BASF
GRAMOXONE EXTRA	PARAQUAT	ZENECA
GUARDSMAN	DIMETHENAMID + ATRAZINE	BASF
HARNESS	ACETOCHLOR	MONSANTO
HARNESS XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
HORNET	FLUMETSULAM + CLOPYRALID	DowElanco
IMAZAPYR		AMERICAN CYANAMID
LADDOK	BENTAZON + ATRAZINE	BASF
LEXONE	METRIBUZIN	DUPONT
LIBERTY	GLUFOSINATE	AgriEvo
LIGHTNING	IMAZETHAPYR + IMAZAPYR	AMERICAN CYANAMID
LIQUID N	28% NITROGEN	
MATADOR	QUIZALOFOP	FMC
MARKSMAN	DICAMBA + ATRAZINE (2.1 + 1.1)	BASF
MICRO-TECH	ALACHLOR	MONSANTO
MON 58430		MONSANTO
MON 58440	GLYPHOSATE + ACETOCHLOR + ATRAZINE	MONSANTO
MON 58442	GLYPHOSATE + ACETOCHLOR + ATRAZINE	MONSANTO
MSO	METHYLATED SEED OIL	LOVELAND

TRADE NAME	CHEMICAL/COMMON	COMPANY
PEAK	PROSULFURON	NOVARTIS
PERMIT	HALOSULFURON	MONSANTO
PINNACLE	THIFENSULFURON	DUPONT
POAST PLUS	SETHOXYDIM + DASH	BASF
POAST HC	SETHOXYDIM	BASF
PRESTIGE	SETHOXYDIM	AMERICAN CYANAMID
PRINCEP	SIMAZINE	NOVARTIS
PROWL	PENDIMETHALIN	AMERICAN CYANAMID
PURSUIT	IMAZETHAPYR	AMERICAN CYANAMID
RAPTOR	IMAZAMOX	AMERICAN CYANAMID
REFLEX	FOMESAFEN	ZENECA
RESOLVE	IMAZETHAPYR + DICAMBA	AMERICAN CYANAMID
RESOURCE	FLUMICLORAC-PENTYL	VALENT
ROUNDUP ULTRA	GLYPHOSATE + ADJUVANT	MONSANTO
SAN 821H		BASF
SCEPTER DG	IMAZAQUIN	AMERICAN CYANAMID
SCEPTER/PURSUIT	IMAZAQUIN + IMAZETHAPYR	AMERICAN CYANAMID
SCORPION III	FLUMETSULAM + 2,4-D + CLOPYRALID	DowElanco
SELECT	CLETHODIM	VALENT
SENCOR 75DF	METRIBUZIN	BAYER
SKIRMISH	CHLORIMURON	FMC
SPARTAN	SULFENTRAZONE	FMC
SPREADER 80	NONIONIC SURFACTANT	LOVELAND
SQUADRON	PENDIMETHALIN + IMAZAQUIN	AMERICAN CYANAMID
STATUS	ACIFLUORFEN	AMERICAN CYANAMID
STEEL	PENDIMETHALIN + IMAZAQUIN	AMERICAN CYANAMID
STELLAR	LACTOFEN + FLUMICLORAC (3:1 RATIO)	VALENT
STINGER	CLOPYRALID	DowElanco
STORM	BENTAZON + ACIFLUORFEN	BASF
STRONGARM	DICLOSULAM	DowElanco
SUN-IT II	METHYLATED SEED OIL	AMERICAN CYANAMID
SURPASS	ACETOCHLOR	ZENECA
SURPASS 100	ACETOCHLOR + ATRAZINE	ZENECA
SYNCHRONY STS	CHLORIMURON + THIFENSULFURON	DUPONT
TOPNOTCH	ACETOCHLOR + SAFENER	ZENECA
TOUCHDOWN BTU	SULFOSATE	ZENECA
TOUGH	PYRIDATE	NOVARTIS
TURBO	METOLACHLOR + METRIBUZIN	BAYER

**TRADE NAME**

TYPHOON  
USA 1000  
V-53482  
WEEDONE LV4  
X-77

**CHEMICAL/COMMON**

FOMESAFEN + FLUAZIFOP-P-BUTYL  
  
2,4-D ESTER  
NONIONIC SURFACTANT

**COMPANY**

ZENECA  
BAYER  
VALENT  
RHONE-POULENC  
VALENT

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN PREEMERGENCE

Trial ID: C7001 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	PHBPU	ZEAMX	SETFA	XANST	PHBPU
Crop Code	INJURY CONTROL		CONTROL CONTROL		INJURY CONTROL		CONTROL CONTROL	
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg								
		Amt	Ds	Rate	Unit	Stg									
1	BICEP II	5.9	F	3.6	LB A/A	PRE		0	100	82	90	0	100	72	92
2	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE		0	100	80	90	0	100	75	90
3	DUAL II MAGNUM	7.6	EC	1.25	LB A/A	PRE		0	100	87	90	0	100	73	92
3	AATREX	4	F	1.5	LB A/A	PRE									
4	GUARDSMAN	5	E	2.8	LB A/A	PRE		0	100	83	92	0	100	75	90
5	GUARDSMAN	5	E	2.8	LB A/A	PRE		0	100	87	95	0	100	90	95
5	MARKSMAN	3.2	F	1.4	LB A/A	8"C									
6	GUARDSMAN	5	E	2.8	LB A/A	PRE		0	100	88	95	0	100	97	95
6	CLARITY	4	E	.5	LB A/A	8"C									
6	ACTIVATOR 90			.25	1/2 V/V	8"C									
6	LIQUID N		L	1	QT/A	8"C									
7	FRONTIER	6	E	1.2	LB A/A	PRE		0	100	77	82	0	100	95	97
7	MARKSMAN	3.2	F	1.4	LB A/A	8"C									
8	FRONTIER	6	E	1.2	LB A/A	PRE		0	100	85	87	0	100	97	98
8	CLARITY	4	E	.5	LB A/A	8"C									
8	ACTIVATOR 90			.25	1/2 V/V	8"C									
8	LIQUID N		L	1	QT/A	8"C									
9	FULTIME	4	CS	2.7	LB A/A	PRE		0	100	85	93	0	100	77	93
10	FULTIME	4	CS	2.7	LB A/A	PRE		0	100	87	90	0	100	80	90
10	AATREX	4	F	.62	LB A/A	PRE									
11	FULTIME	4	CS	3	LB A/A	PRE		0	100	90	93	0	100	80	93
11	AATREX	4	F	.3	LB A/A	PRE									
12	FULTIME	4	CS	2.7	LB A/A	PRE		0	100	88	93	0	100	98	97
12	EXCEED	57	DF	.036	LB A/A	8"C									
12	COC		L	1	QT/A	8"C									
13	FULTIME	4	CS	2.7	LB A/A	PRE		0	100	95	95	0	100	88	98
13	AATREX	4	F	.42	LB A/A	EPP									
13	COC		L	1	QT/A	EPP									
14	TOPNOTCH	3.2	CS	1.6	LB A/A	PRE		0	100	90	95	0	100	82	92
14	AATREX	4	F	1.5	LB A/A	PRE									



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN PREEMERGENCE

Trial ID: C7001  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SETFA		XANST		PHBPU			
										ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
										INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
										PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
										2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
										P	P	P	P	P	P	P	P
										0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
32	DUAL II	7.8	EC	2	LB	A/A PRE	0	100	95	93	0	100	95	93
32	HORNET	85.6	WG	.26	LB	A/A PRE								
33	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	100	93	92	0	100	95	90
33	AATREX	4	F	1	LB	A/A PRE								
33	HORNET	85.6	WG	.17	LB	A/A PRE								
34	BALANCE	75	WG	1.5	OZ	A/A PRE	0	100	93	97	0	100	93	97
34	HARNES	7	EC	.9	LB	A/A PRE								
34	AATREX	4	F	1.25	LB	A/A PRE								
35	BALANCE	75	WG	1.5	OZ	A/A PRE	0	100	93	90	0	100	90	90
35	HARNES	7	EC	.9	LB	A/A PRE								
35	AATREX	4	F	1.5	LB	A/A PRE								
36	BALANCE	75	WG	1.88	OZ	A/A PRE	0	100	93	92	0	100	92	93
36	HARNES	7	EC	.9	LB	A/A PRE								
36	AATREX	4	F	1.25	LB	A/A PRE								
37	BALANCE	75	WG	1.88	OZ	A/A PRE	0	100	93	95	0	100	93	95
37	HARNES	7	EC	.9	LB	A/A PRE								
37	AATREX	4	F	1.5	LB	A/A PRE								
38	BALANCE	75	WG	1.88	OZ	A/A PRE	0	100	90	90	0	100	97	95
38	ACCENT	75	WG	.016	LB	A/A MP								
38	BEACON	75	DF	.018	LB	A/A MP								
38	COC		L	1	QT/A	MP								
39	BALANCE	75	WG	1.88	OZ	A/A PRE	0	100	87	90	0	100	93	95
39	EXCEED	57	DF	.036	LB	A/A MP								
39	COC		L	1	QT/A	MP								
40	BALANCE	75	WG	1.5	OZ	A/A PRE	0	100	93	85	0	100	90	87
40	AATREX	4	F	2	LB	A/A PRE								
41	BALANCE	75	WG	1.88	OZ	A/A PRE	0	100	92	82	0	100	88	88
41	AATREX	4	F	2	LB	A/A PRE								
42	CHECK						0	0	0	0	0	0	0	0
LSD (P=.05)							0.0	0.0	9.6	11.1	0.0	0.0	10.4	8.3
Standard Deviation							0.0	0.0	5.9	6.8	0.0	0.0	6.4	5.1
CV								0.0	6.74	7.71		0.0	7.43	5.68



CORN PREEMERGENCE

Trial ID: C7001                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	PHBPU
Crop Code		ZEAMX		
Part Rated				
Rating Data Type		INJURY	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg				
1	BICEP II	5.9	F	3.6	LB A/A	PRE	0	100	58	92
2	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	100	58	90
3	DUAL II MAGNUM	7.6	EC	1.25	LB A/A	PRE	0	100	55	90
3	AATREX	4	F	1.5	LB A/A	PRE				
4	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	100	50	90
5	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	100	95	95
5	MARKSMAN	3.2	F	1.4	LB A/A	8"C				
6	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	100	97	95
6	CLARITY	4	E	.5	LB A/A	8"C				
6	ACTIVATOR 90			.25	g V/V	8"C				
6	LIQUID N		L	1	QT/A	8"C				
7	FRONTIER	6	E	1.2	LB A/A	PRE	0	100	95	97
7	MARKSMAN	3.2	F	1.4	LB A/A	8"C				
8	FRONTIER	6	E	1.2	LB A/A	PRE	0	100	97	98
8	CLARITY	4	E	.5	LB A/A	8"C				
8	ACTIVATOR 90			.25	g V/V	8"C				
8	LIQUID N		L	1	QT/A	8"C				
9	FULTIME	4	CS	2.7	LB A/A	PRE	0	100	63	92
10	FULTIME	4	CS	2.7	LB A/A	PRE	0	100	65	90
10	AATREX	4	F	.62	LB A/A	PRE				
11	FULTIME	4	CS	3	LB A/A	PRE	0	100	72	90
11	AATREX	4	F	.3	LB A/A	PRE				
12	FULTIME	4	CS	2.7	LB A/A	PRE	0	100	98	97
12	EXCEED	57	DF	.036	LB A/A	8"C				
12	COC		L	1	QT/A	8"C				
13	FULTIME	4	CS	2.7	LB A/A	PRE	0	100	75	95
13	AATREX	4	F	.42	LB A/A	EPP				
13	COC		L	1	QT/A	EPP				
14	TOPNOTCH	3.2	CS	1.6	LB A/A	PRE	0	100	65	92
14	AATREX	4	F	1.5	LB A/A	PRE				

CORN PREEMERGENCE

Trial ID: C7001                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	PHBPU
Crop Code	ZEAMX		
Part Rated			
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Unit	Grow Stg				
15 TOPNOTCH	3.2	CS	1.8	LB A/A	PRE	0	100	93	97
15 BUCTRIL	2	EC	.25	LB A/A	MP				
15 AATREX	4	F	.5	LB A/A	MP				
15 COC		L	1	QT/A	MP				
16 SURPASS 100	5	SC	3.25	LB A/A	PRE	0	100	85	92
17 HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	100	67	93
18 HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	100	65	90
18 AATREX	4	F	.5	LB A/A	PRE				
19 BULLET	4	F	3.75	LB A/A	PRE	0	100	72	90
20 MON 58430	3.8	E	1.8	LB A/A	PRE	0	100	73	88
20 AATREX	4	F	1.5	LB A/A	PRE				
21 BAY 06550	80	DF	1.6	LB A/A	PRE	0	100	72	87
22 BAY 06550	80	DF	2	LB A/A	PRE	0	100	60	93
23 AXIOM	68	DF	.68	LB A/A	PRE	0	100	92	77
23 HORNET	85.6	WG	.21	LB A/A	PRE				
24 AXIOM	68	DF	.68	LB A/A	PRE	0	100	70	85
24 AATREX	4	F	1.67	LB A/A	PRE				
25 AXIOM	68	DF	.34	LB A/A	PRE	0	100	75	78
25 BALANCE	75	WG	.07	LB A/A	PRE				
26 USA 1000	58	DF	.435	LB A/A	PRE	0	100	77	78
27 USA 1000	58	DF	.435	LB A/A	PRE	0	100	78	83
27 AATREX	4	F	1	LB A/A	PRE				
28 BROADSTRIKE + DUAL S	7.75	SC	1.93	LB A/A	PRE	0	100	88	85
29 BROADSTRIKE + DUAL S	7.75	SC	2.12	LB A/A	PRE	0	100	88	85
30 BROADSTRIKE + DUAL S	7.75	SC	1.45	LB A/A	PRE	0	100	78	88
30 AATREX	4	F	1	LB A/A	PRE				
31 DUAL II	7.8	EC	2	LB A/A	PRE	0	100	92	85
31 HORNET	85.6	WG	.21	LB A/A	PRE				

CORN PREEMERGENCE

Trial ID: C7001                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	PHBPU
Crop Code				
Part Rated				
Rating Data Type				
Rating Unit				
Rating Date				
Footnote Number				
Trt-Eval Interval				
PRM Data Type				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form		Rate	Grow	INJURY CONTROL CONTROL CONTROL CONTROL			
		Amt	Ds			PERCENT	PERCENT	PERCENT	PERCENT
32	DUAL II	7.8	EC	2 LB	A/A PRE	0	100	95	88
32	HORNET	85.6	WG	.26 LB	A/A PRE				
33	DUAL II	7.8	EC	1.95 LB	A/A PRE	0	100	92	87
33	AATREX	4	F	1 LB	A/A PRE				
33	HORNET	85.6	WG	.17 LB	A/A PRE				
34	BALANCE	75	WG	1.5 OZ	A/A PRE	0	100	85	95
34	HARNES	7	EC	.9 LB	A/A PRE				
34	AATREX	4	F	1.25 LB	A/A PRE				
35	BALANCE	75	WG	1.5 OZ	A/A PRE	0	100	80	90
35	HARNES	7	EC	.9 LB	A/A PRE				
35	AATREX	4	F	1.5 LB	A/A PRE				
36	BALANCE	75	WG	1.88 OZ	A/A PRE	0	100	85	88
36	HARNES	7	EC	.9 LB	A/A PRE				
36	AATREX	4	F	1.25 LB	A/A PRE				
37	BALANCE	75	WG	1.88 OZ	A/A PRE	0	100	82	95
37	HARNES	7	EC	.9 LB	A/A PRE				
37	AATREX	4	F	1.5 LB	A/A PRE				
38	BALANCE	75	WG	1.88 OZ	A/A PRE	0	100	92	95
38	ACCENT	75	WG	.016 LB	A/A MP				
38	BEACON	75	DF	.018 LB	A/A MP				
38	COC		L	1 QT/A	MP				
39	BALANCE	75	WG	1.88 OZ	A/A PRE	0	100	93	93
39	EXCEED	57	DF	.036 LB	A/A MP				
39	COC		L	1 QT/A	MP				
40	BALANCE	75	WG	1.5 OZ	A/A PRE	0	100	88	87
40	AATREX	4	F	2 LB	A/A PRE				
41	BALANCE	75	WG	1.88 OZ	A/A PRE	0	100	78	88
41	AATREX	4	F	2 LB	A/A PRE				
42	CHECK					0	0	0	0
LSD (P=.05)						0.0	0.0	15.3	10.2
Standard Deviation						0.0	0.0	9.4	6.2
CV							0.0	12.18	7.09

CORN PREEMERGENCE

Trial ID: C7001                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 4-30-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1. SETFA GIANT FOXTAIL    2. XANST C. COCKLEBUR    3. PHBPU T. MORNINGGLORY

Crop 1: ZEAMX                      Variety: PIONEER 3279                      Planting Date: 4-30-97  
Planting Method: ROWED                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 57 F                      Soil Moisture: NORMAL                      Emergence Date: 5-15-97

Plot Width, Unit: 5 FT                      Plot Length, Unit: 44 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 2.5                      % Sand: 6.7                      % Silt: 63                      % Clay: 30  
pH: 6.5                      CEC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP                      Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-22-97	6-4-97	6-4-97		
Time of Day:	10:00 AM	2:00 PM	4:00 PM	4:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	EEP	MP	8"C		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	60 F	54 F	60 F	60 F		
% Relative Humidity:	50	60	85	85		
Wind Velocity, Unit:	6 MPH	3 MPH	2.5 MPH	2.5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	55 F	60 F	63 F	63 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	30	45	55	55		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V1	V2	V2		
		3 IN	8 IN	8 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2 LF	3-4 LF	3-4 LF		
		1-2 IN	2-4 IN	2-4 IN		
XANST		2 LF	4 LF	4 LF		
		3 IN	4 IN	4 IN		
PHBPU		1 LF	2 LF	2 LF		
		1 IN	2-3 IN	2-3 IN		

## CORN PREEMERGENCE

Trial ID: C7001

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN PREEMERGENCE II

Trial ID: C7006-2  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	DIGSA	XANST	IPOHE	ZEAMX	SETFA	DIGSA	XANST	IPOHE
Crop Code	INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL				
Part Rated	PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT				
Rating Data Type	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS					8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS				
Rating Unit	P P P P P					P P P P P				
Rating Date	0 0 0 0 0					0 0 0 0 0				
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	ZEAMX	SETFA	DIGSA	XANST	IPOHE	ZEAMX	SETFA	DIGSA	XANST	IPOHE
1	BICEP LITE II MAGNUM	6	SL	1.65	LB	A/A PRE	0	100	100	77	80	0	97	100	70	73
2	BICEP LITE II MAGNUM	6	SL	2.25	LB	A/A PRE	0	100	100	77	90	0	97	100	70	90
3	FLUMETSULAM	80	WG	.045	LB	A/A PRE	0	70	60	73	70	0	60	53	67	70
4	FLUMETSULAM	80	WG	.063	LB	A/A PRE	0	70	70	87	70	0	60	60	77	70
5	BICEP LITE II MAGNUM	6	SL	1.65	LB	A/A PRE	0	100	100	80	87	0	100	100	77	87
5	FLUMETSULAM	80	WG	.045	LB	A/A PRE	0	100	100	80	87	0	100	100	77	87
6	BICEP LITE II MAGNUM	6	SL	1.65	LB	A/A PRE	0	100	100	93	83	0	93	100	90	80
6	FLUMETSULAM	80	WG	.05	LB	A/A PRE	0	100	100	93	83	0	93	100	90	80
7	BICEP LITE II MAGNUM	6	SL	2.1	LB	A/A PRE	0	100	100	97	90	0	93	100	87	90
7	FLUMETSULAM	80	WG	.045	LB	A/A PRE	0	100	100	97	90	0	93	100	87	90
8	BICEP LITE II MAGNUM	6	SL	2.25	LB	A/A PRE	0	100	100	100	100	0	100	100	100	100
8	EXCEED	57	DF	.036	LB	A/A MP										
8	COC		L	1	QT/A	MP										
9	CHECK						0	0	0	0	0	0	0	0	0	0
10	CHECK						0	0	0	0	0	0	0	0	0	0
	LSD (P=.05)						0.0	7.9	7.5	11.9	9.8	0.0	10.0	3.1	15.6	12.2
	Standard Deviation						0.0	4.6	4.3	7.0	5.7	0.0	5.8	1.8	9.1	7.1
	CV						.	6.21	5.95	10.19	8.57	.	8.29	2.56	14.24	10.79

CORN PREEMERGENCE II

Trial ID: C7006-2      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE      Initiation Date: 5-12-97      Country: USA  
City: LEXINGTON      State/Prov.: KY      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL    2.XANST C. COCKLEBUR    3.PHBPU T. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN    Variety: PIONEER 3279    Planting Date: 5-12-97  
Planting Method: ROW      Rate: 25,000 S/A      Depth: 1.5 IN  
Row Spacing: 30 IN      Seed Bed: MEDIUM  
Soil Temperature: 55 F    Soil Moisture: NORMAL    Emergence Date: 5-27-97

Plot Width, Unit: 5 FT      Plot Length, Unit: 44 FT      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM      % OM: 2.9    % Sand: 6.7    % Silt: 63    % Clay: 30  
pH: 6.3    CEC: 17      Soil Name: MAURY      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP      Distance: 1.5    Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-15-97	6-19-97				
Time of Day:	4:00 PM	1:00 PM				
Application Method:	SPARY	SPRAY				
Application Timing:	PRE	EP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	50 F	78 F				
% Relative Humidity:	60	80				
Wind Velocity, Unit:	3 MPH	2 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	53 F	72 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	50				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		5 LF				
		12 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP				
XANST		4 LVS				
		4 IN				
PHBPU		2 LVS				
		4 IN				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## CORN PREEMERGENCE II

Trial ID: C7006-2      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	3.5 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				



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Weed Science Field Research

CORN PREEMERGENCE BALANCE

Trial ID: 97J03      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	DATST	IPOSS	XANST
Crop Code	STUNT	STUNT	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	V1	V3	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
1	BALANCE	75	WG	1.13	OZ	A/A PRE	0	0	0	98	99	57	33	33
2	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	96	99	70	37	50
3	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	98	99	90	30	60
4	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	96	50	50
4	HARNES	7	EC	.9	LB	A/A PRE								
5	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	99	40	60
5	HARNES	7	EC	1.35	LB	A/A PRE								
6	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	96	53	60
6	HARNES	7	EC	.9	LB	A/A PRE								
6	AATREX	4	F	1.25	LB	A/A PRE								
7	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	99	58	67
7	HARNES	7	EC	.9	LB	A/A PRE								
7	AATREX	4	F	1.5	LB	A/A PRE								
8	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	73	57	50
8	AATREX	4	F	2	LB	A/A PRE								
9	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	99	99	95	47	53
9	HARNES	7	EC	.9	LB	A/A PRE								
10	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	99	99	89	47	43
10	HARNES	7	EC	1.35	LB	A/A PRE								
11	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	99	99	98	50	43
11	HARNES	7	EC	.9	LB	A/A PRE								
11	AATREX	4	F	1.25	LB	A/A PRE								
12	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	99	99	99	57	57
12	HARNES	7	EC	.9	LB	A/A PRE								
12	AATREX	4	F	1.5	LB	A/A PRE								
13	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	98	70	78
13	HARNES	7	EC	.9	LB	A/A PRE								
13	BUCTRIL	2	EC	.25	LB	A/A EP								
13	AATREX	4	F	0.5	LB	A/A EP								
14	CHECK						0	0	0	0	0	0	0	0

Dept. of Agronomy, Univ. of KY  
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CORN PREEMERGENCE BALANCE

Trial ID: 97J03                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	DATST	IPOSS	XANST
Crop Code								
Part Rated								
Rating Data Type	STUNT	STUNT	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	V1	V3	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Grow Unit	Stg				
LSD (P=.05)	0.0	0.0	0.0	2.5	0.0	23.7	19.4	22.6	
Standard Deviation	0.0	0.0	0.0	1.5	0.0	14.1	11.6	13.4	
CV	.	.	.	1.61	0.0	17.05	25.81	26.68	

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CORN PREEMERGENCE BALANCE

Trial ID: 97J03 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	IPOSS	XANST
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow								
		Amt	Ds	Rate	Unit	Stg							
1	BALANCE	75	WG	1.13	OZ	A/A	PRE	0	83	96	52	27	27
2	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	85	93	57	27	37
3	BALANCE	75	WG	1.88	OZ	A/A	PRE	0	93	92	82	30	40
4	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	95	90	88	33	47
4	HARNES	7	EC	.9	LB	A/A	PRE						
5	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	96	90	92	30	47
5	HARNES	7	EC	1.35	LB	A/A	PRE						
6	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	95	95	93	33	47
6	HARNES	7	EC	.9	LB	A/A	PRE						
6	AATREX	4	F	1.25	LB	A/A	PRE						
7	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	98	95	92	45	63
7	HARNES	7	EC	.9	LB	A/A	PRE						
7	AATREX	4	F	1.5	LB	A/A	PRE						
8	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	90	95	92	45	53
8	AATREX	4	F	2	LB	A/A	PRE						
9	BALANCE	75	WG	1.88	OZ	A/A	PRE	0	99	90	95	40	58
9	HARNES	7	EC	.9	LB	A/A	PRE						
10	BALANCE	75	WG	1.88	OZ	A/A	PRE	0	98	92	93	43	43
10	HARNES	7	EC	1.35	LB	A/A	PRE						
11	BALANCE	75	WG	1.88	OZ	A/A	PRE	0	95	93	95	47	43
11	HARNES	7	EC	.9	LB	A/A	PRE						
11	AATREX	4	F	1.25	LB	A/A	PRE						
12	BALANCE	75	WG	1.88	OZ	A/A	PRE	0	93	88	95	43	43
12	HARNES	7	EC	.9	LB	A/A	PRE						
12	AATREX	4	F	1.5	LB	A/A	PRE						
13	BALANCE	75	WG	1.5	OZ	A/A	PRE	0	95	93	95	72	75
13	HARNES	7	EC	.9	LB	A/A	PRE						
13	BUCTRIL	2	EC	.25	LB	A/A	EP						
13	AATREX	4	F	0.5	LB	A/A	EP						
14	CHECK							0	0	0	0	0	0

CORN PREEMERGENCE BALANCE

Trial ID: 97J03      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	IPOSS	XANST
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow		
No. Name	Amt	Ds	Rate	Unit	Stg	
LSD (P=.05)	0.0		7.0		5.1	20.6
Standard Deviation	0.0		4.2		3.1	12.3
CV			4.83		3.57	15.36
						17.2
						20.5
						10.2
						12.2
						27.78
						27.39

Dept. of Agronomy, Univ. of KY  
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CORN PREEMERGENCE BALANCE

Trial ID: 97J03 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL LAMBSQUARTERS 3.DATST JIMSONWEED  
4.IPOHE IVYLEAF MG 5.XANST COCKLEBUR

Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 4-30-97  
Planting Method: ROWED Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: DRY Emergence Date: 5-15-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 2.7 % Sand: 7 % Silt: 64 % Clay: 30  
pH: 6.4 CEC: 18 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-27-97				
Time of Day:	2 PM	3 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	EP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	72 F	65 F				
% Relative Humidity:	50	70				
Wind Velocity, Unit:	6 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	65 F	67 F				
Soil Moisture:	ADEQUATE	EXCESSIVE				
% Cloud Cover:	50	20				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V1				
		3-4 in				

CORN PREEMERGENCE BALANCE

Trial ID: 97J03                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2 LVS 2 IN				
CHEAL		>50 M2 4 LVS 1 IN				
DATST		20 M2 1 LVS 2 IN				
IPOHE		4 M2 1 LVS 1 IN				
XANST		4 M2 2 LVS 1 IN 4 M2				

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	3.5 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg					
1	HARNESS XTRA	5.6	EC	3.22	LB A/A	EP		0	96	99	99	85 88 92
2	HARNESS XTRA	5.6	EC	3.22	LB A/A	MP		0	96	99	99	99 87 95
3	BULLET	4	F	3.75	LB A/A	MP		0	78	99	99	96 88 98
4	HARNESS	7	EC	2	LB A/A	PRE		0	66	66	66	66 66 52
4	PERMIT	75	DF	.031	LB A/A	8"C						
4	ACTIVATOR 90			.25	% V/V	8"C						
5	HARNESS	7	EC	2	LB A/A	PRE		0	99	99	99	99 99 99
5	PERMIT	75	DF	.031	LB A/A	8"C						
5	BANVEL	4	EC	.12	LB A/A	8"C						
5	ACTIVATOR 90			.25	% V/V	8"C						
6	HARNESS	7	EC	2	LB A/A	PRE		0	99	99	99	99 99 98
6	PERMIT	75	DF	.031	LB A/A	8"C						
6	WEEDONE LV4	3.8	E	.12	LB A/A	8"C						
6	ACTIVATOR 90			.25	% V/V	8"C						
7	HARNESS	7	EC	2	LB A/A	PRE		0	99	99	99	99 99 99
7	PERMIT	75	DF	.031	LB A/A	8"C						
7	AATREX	4	F	1	LB A/A	8"C						
7	ACTIVATOR 90			.25	% V/V	8"C						
8	HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE		0	99	99	99	99 99 87
8	PERMIT	75	DF	.031	LB A/A	8"C						
8	ACTIVATOR 90			.25	% V/V	8"C						
9	HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE		0	98	99	99	99 96 96
9	PERMIT	75	DF	.031	LB A/A	8"C						
9	BANVEL	4	EC	.12	LB A/A	8"C						
9	ACTIVATOR 90			.25	% V/V	8"C						
10	DUAL II	7.8	EC	2	LB A/A	PRE		2	99	99	99	99 99 99
10	EXCEED	57	DF	.036	LB A/A	8"C						
10	ACTIVATOR 90			.25	% V/V	8"C						
11	DUAL II	7.8	EC	1.5	LB A/A	PRE		0	99	99	99	99 95 96
11	SCORPION III	84.3	WG	.25	LB A/A	MP						
11	ACTIVATOR 90			.25	% V/V	MP						
11	LIQUID N		L	2.5	QT/A	MP						

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CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow						
		Amt	Ds	Rate	Unit	Stg					
12	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	99	99	99	99
12	RESOURCE	.86	EC	.027	LB	A/A MP					
12	SCORPION III	84.3	WG	.25	LB	A/A MP					
12	ACTIVATOR 90			.25	qt	V/V MP					
12	LIQUID N		L	2.5	QT/A	MP					
13	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	99	99	98	96
13	BASIS GOLD	89.5	DF	.79	LB	A/A MP					
13	COC		L	.5	QT/A	MP					
14	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	99	99	99	99
14	RESOURCE	.86	EC	.027	LB	A/A MP					
14	BASIS GOLD	89.5	DF	.79	LB	A/A MP					
14	COC		L	.5	QT/A	MP					
15	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	95	99	99	96
15	F 8426	50	DF	.008	LB	A/A MP					
15	COC		L	.5	QT/A	MP					
16	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	95	99	99	99
16	RESOURCE	.86	EC	.027	LB	A/A MP					
16	F 8426	50	DF	.008	LB	A/A MP					
16	COC		L	.5	QT/A	MP					
17	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	99	99	94	99
17	BEACON	75	DF	.036	LB	A/A MP					
17	COC		L	1	QT/A	MP					
18	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	96	99	92	99
18	RESOURCE	.86	EC	.027	LB	A/A LP					
18	BEACON	75	DF	.036	LB	A/A LP					
18	COC		L	1	QT/A	LP					
19	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	96	99	90	99
19	EXCEED	57	DF	.036	LB	A/A LP					
19	COC		L	1	QT/A	LP					
20	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	98	99	98	99
20	RESOURCE	.86	EC	.027	LB	A/A LP					
20	EXCEED	57	DF	.036	LB	A/A LP					
20	COC		L	1	QT/A	LP					
21	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	94	99	96	96
21	BANVEL	4	EC	.125	LB	A/A LP					



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CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	
22	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	97	99	96	96	98	92
22	RESOURCE	.86	EC	.027	LB	A/A LP							
22	BANVEL	4	EC	.125	LB	A/A LP							
23	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	96	99	99	99	98	98
23	SCORPION III	84.3	WG	.21	LB	A/A 6"C							
23	COC		L	1.2	QT/A	6"C							
24	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	96	99	95	96	95	88
24	HORNET	85.6	WG	.086	LB	A/A 6"C							
24	COC		L	1.2	QT/A	6"C							
25	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	98	99	99	99	95	90
25	HORNET	85.6	WG	.17	LB	A/A 6"C							
25	COC		L	1.2	QT/A	6"C							
26	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	94	99	88	98	93	88
26	HORNET	85.6	WG	.086	LB	A/A 12"C							
26	COC		L	1.2	QT/A	12"C							
27	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	93	99	92	98	96	95
27	HORNET	85.6	WG	.25	LB	A/A 12"C							
27	COC		L	1.2	QT/A	12"C							
28	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	93	99	88	98	96	92
28	HORNET	85.6	WG	.17	LB	A/A 12"C							
28	COC		L	1.2	QT/A	12"C							
LSD (P=.05)							0.9	19.5	17.6	18.2	18.1	18.8	15.0
Standard Deviation							0.5	11.9	10.8	11.1	11.1	11.5	9.2
CV							916.52	12.54	11.04	11.65	11.47	12.33	9.93

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CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow							
	Amt	Ds	Unit	Stg							
1 HARNESS XTRA	5.6	EC	3.22 LB A/A	EP	0	99	99	99	96	73	95
2 HARNESS XTRA	5.6	EC	3.22 LB A/A	MP	0	94	99	99	92	78	93
3 BULLET	4	F	3.75 LB A/A	MP	0	77	99	99	91	88	96
4 HARNESS	7	EC	2 LB A/A	PRE	0	65	66	65	66	66	52
4 PERMIT	75	DF	.031 LB A/A	8"C							
4 ACTIVATOR 90			.25 % V/V	8"C							
5 HARNESS	7	EC	2 LB A/A	PRE	0	98	99	99	99	96	95
5 PERMIT	75	DF	.031 LB A/A	8"C							
5 BANVEL	4	EC	.12 LB A/A	8"C							
5 ACTIVATOR 90			.25 % V/V	8"C							
6 HARNESS	7	EC	2 LB A/A	PRE	0	99	99	99	98	98	95
6 PERMIT	75	DF	.031 LB A/A	8"C							
6 WEEDONE LV4	3.8	E	.12 LB A/A	8"C							
6 ACTIVATOR 90			.25 % V/V	8"C							
7 HARNESS	7	EC	2 LB A/A	PRE	0	96	99	99	96	98	95
7 PERMIT	75	DF	.031 LB A/A	8"C							
7 AATREX	4	F	1 LB A/A	8"C							
7 ACTIVATOR 90			.25 % V/V	8"C							
8 HARNESS XTRA	5.6	EC	3.22 LB A/A	PRE	0	99	99	99	99	98	85
8 PERMIT	75	DF	.031 LB A/A	8"C							
8 ACTIVATOR 90			.25 % V/V	8"C							
9 HARNESS XTRA	5.6	EC	3.22 LB A/A	PRE	0	97	99	99	99	98	93
9 PERMIT	75	DF	.031 LB A/A	8"C							
9 BANVEL	4	EC	.12 LB A/A	8"C							
9 ACTIVATOR 90			.25 % V/V	8"C							
10 DUAL II	7.8	EC	2 LB A/A	PRE	3	99	99	99	99	98	98
10 EXCEED	57	DF	.036 LB A/A	8"C							
10 ACTIVATOR 90			.25 % V/V	8"C							
11 DUAL II	7.8	EC	1.5 LB A/A	PRE	0	99	99	99	99	92	93
11 SCORPION III	84.3	WG	.25 LB A/A	MP							
11 ACTIVATOR 90			.25 % V/V	MP							
11 LIQUID N		L	2.5 QT/A	MP							

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE

Trial ID: C7003  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg								
12	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	99	99	99	98	93	92
12	RESOURCE	.86	EC	.027	LB	A/A	MP							
12	SCORPION III	84.3	WG	.25	LB	A/A	MP							
12	ACTIVATOR 90			.25	%	V/V	MP							
12	LIQUID N		L	2.5	QT/A		MP							
13	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	98	99	99	95	77	93
13	BASIS GOLD	89.5	DF	.79	LB	A/A	MP							
13	COC		L	.5	QT/A		MP							
14	DUAL II	7.8	EC	1.5	LB	A/A	PRE	2	99	99	99	96	88	93
14	RESOURCE	.86	EC	.027	LB	A/A	MP							
14	BASIS GOLD	89.5	DF	.79	LB	A/A	MP							
14	COC		L	.5	QT/A		MP							
15	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	93	99	99	93	87	90
15	F 8426	50	DF	.008	LB	A/A	MP							
15	COC		L	.5	QT/A		MP							
16	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	92	99	99	94	87	92
16	RESOURCE	.86	EC	.027	LB	A/A	MP							
16	F 8426	50	DF	.008	LB	A/A	MP							
16	COC		L	.5	QT/A		MP							
17	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	99	99	96	96	96	85
17	BEACON	75	DF	.036	LB	A/A	MP							
17	COC		L	1	QT/A		MP							
18	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	96	99	92	99	98	92
18	RESOURCE	.86	EC	.027	LB	A/A	LP							
18	BEACON	75	DF	.036	LB	A/A	LP							
18	COC		L	1	QT/A		LP							
19	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	93	99	90	99	95	93
19	EXCEED	57	DF	.036	LB	A/A	LP							
19	COC		L	1	QT/A		LP							
20	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	95	99	98	99	98	93
20	RESOURCE	.86	EC	.027	LB	A/A	LP							
20	EXCEED	57	DF	.036	LB	A/A	LP							
20	COC		L	1	QT/A		LP							
21	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	94	99	96	96	93	82
21	BANVEL	4	EC	.125	LB	A/A	LP							

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Grow Unit	Stg							
22 DUAL II	7.8 EC		1.5 LB	A/A	PRE	2	96	99	98	98	95	92
22 RESOURCE	.86 EC		.027 LB	A/A	LP							
22 BANVEL	4 EC		.125 LB	A/A	LP							
23 DUAL II	7.8 EC		1.95 LB	A/A	PRE	0	95	99	99	98	95	95
23 SCORPION III	84.3 WG		.21 LB	A/A	6"C							
23 COC	L		1.2 QT/A		6"C							
24 DUAL II	7.8 EC		1.95 LB	A/A	PRE	0	96	99	95	95	96	88
24 HORNET	85.6 WG		.086 LB	A/A	6"C							
24 COC	L		1.2 QT/A		6"C							
25 DUAL II	7.8 EC		1.95 LB	A/A	PRE	0	96	99	99	99	95	92
25 HORNET	85.6 WG		.17 LB	A/A	6"C							
25 COC	L		1.2 QT/A		6"C							
26 DUAL II	7.8 EC		1.95 LB	A/A	PRE	0	93	99	85	98	95	90
26 HORNET	85.6 WG		.086 LB	A/A	12"C							
26 COC	L		1.2 QT/A		12"C							
27 DUAL II	7.8 EC		1.95 LB	A/A	PRE	2	90	99	96	99	98	96
27 HORNET	85.6 WG		.25 LB	A/A	12"C							
27 COC	L		1.2 QT/A		12"C							
28 DUAL II	7.8 EC		1.95 LB	A/A	PRE	2	88	66	92	99	96	93
28 HORNET	85.6 WG		.17 LB	A/A	12"C							
28 COC	L		1.2 QT/A		12"C							
LSD (P=.05)			2.5				19.2	25.2	17.7	18.6	20.9	15.2
Standard Deviation			1.5				11.7	15.4	10.9	11.4	12.8	9.3
CV			431.05				12.46	15.95	11.33	11.91	13.96	10.25

CORN POSTEMERGENCE

Trial ID: C7003      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Unit	Grow Stg							
1 HARNESS XTRA	5.6	EC	3.22	LB A/A	EP	0	96	99	99	93	75	90
2 HARNESS XTRA	5.6	EC	3.22	LB A/A	MP	0	87	99	99	94	83	90
3 BULLET	4	F	3.75	LB A/A	MP	0	55	99	66	99	93	60
4 HARNESS	7	EC	2	LB A/A	PRE	0	63	66	63	66	65	58
4 PERMIT	75	DF	.031	LB A/A	8"C							
4 ACTIVATOR 90			.25	‡ V/V	8"C							
5 HARNESS	7	EC	2	LB A/A	PRE	0	95	99	99	99	95	90
5 PERMIT	75	DF	.031	LB A/A	8"C							
5 BANVEL	4	EC	.12	LB A/A	8"C							
5 ACTIVATOR 90			.25	‡ V/V	8"C							
6 HARNESS	7	EC	2	LB A/A	PRE	0	96	99	99	99	95	93
6 PERMIT	75	DF	.031	LB A/A	8"C							
6 WEEDONE LV4	3.8	E	.12	LB A/A	8"C							
6 ACTIVATOR 90			.25	‡ V/V	8"C							
7 HARNESS	7	EC	2	LB A/A	PRE	0	93	99	99	99	96	92
7 PERMIT	75	DF	.031	LB A/A	8"C							
7 AATREX	4	F	1	LB A/A	8"C							
7 ACTIVATOR 90			.25	‡ V/V	8"C							
8 HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	96	99	99	99	95	78
8 PERMIT	75	DF	.031	LB A/A	8"C							
8 ACTIVATOR 90			.25	‡ V/V	8"C							
9 HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	95	99	99	99	96	93
9 PERMIT	75	DF	.031	LB A/A	8"C							
9 BANVEL	4	EC	.12	LB A/A	8"C							
9 ACTIVATOR 90			.25	‡ V/V	8"C							
10 DUAL II	7.8	EC	2	LB A/A	PRE	0	95	99	96	96	93	95
10 EXCEED	57	DF	.036	LB A/A	8"C							
10 ACTIVATOR 90			.25	‡ V/V	8"C							
11 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	99	99	99	96	92
11 SCORPION III	84.3	WG	.25	LB A/A	MP							
11 ACTIVATOR 90			.25	‡ V/V	MP							
11 LIQUID N	L		2.5	QT/A	MP							

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg							
12 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	99	99	99	95	90
12 RESOURCE	.86	EC	.027	LB A/A	MP							
12 SCORPION III	84.3	WG	.25	LB A/A	MP							
12 ACTIVATOR 90			.25	% V/V	MP							
12 LIQUID N		L	2.5	QT/A	MP							
13 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	99	99	99	78	85
13 BASIS GOLD	89.5	DF	.79	LB A/A	MP							
13 COC		L	.5	QT/A	MP							
14 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	99	99	99	87	85
14 RESOURCE	.86	EC	.027	LB A/A	MP							
14 BASIS GOLD	89.5	DF	.79	LB A/A	MP							
14 COC		L	.5	QT/A	MP							
15 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	88	99	99	99	83	87
15 F 8426	50	DF	.008	LB A/A	MP							
15 COC		L	.5	QT/A	MP							
16 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	90	99	95	99	87	82
16 RESOURCE	.86	EC	.027	LB A/A	MP							
16 F 8426	50	DF	.008	LB A/A	MP							
16 COC		L	.5	QT/A	MP							
17 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	99	95	96	90	67
17 BEACON	75	DF	.036	LB A/A	MP							
17 COC		L	1	QT/A	MP							
18 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	96	99	90	99	96	87
18 RESOURCE	.86	EC	.027	LB A/A	LP							
18 BEACON	75	DF	.036	LB A/A	LP							
18 COC		L	1	QT/A	LP							
19 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	99	88	99	95	88
19 EXCEED	57	DF	.036	LB A/A	LP							
19 COC		L	1	QT/A	LP							
20 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	96	99	99	99	95	85
20 RESOURCE	.86	EC	.027	LB A/A	LP							
20 EXCEED	57	DF	.036	LB A/A	LP							
20 COC		L	1	QT/A	LP							
21 DUAL II	7.8	EC	1.5	LB A/A	PRE	0	93	99	96	96	93	90
21 BANVEL	4	EC	.125	LB A/A	LP							

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DATST	CHEAL	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	0	95	99	99	99	95	87
22	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	95	99	99	99	95	87
22	RESOURCE	.86	EC	.027	LB	A/A LP							
22	BANVEL	4	EC	.125	LB	A/A LP							
23	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	88	99	99	99	93	85
23	SCORPION III	84.3	WG	.21	LB	A/A 6"C							
23	COC		L	1.2	QT/A	6"C							
24	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	96	99	93	93	92	88
24	HORNET	85.6	WG	.086	LB	A/A 6"C							
24	COC		L	1.2	QT/A	6"C							
25	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	96	99	93	96	95	90
25	HORNET	85.6	WG	.17	LB	A/A 6"C							
25	COC		L	1.2	QT/A	6"C							
26	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	90	99	91	96	95	72
26	HORNET	85.6	WG	.086	LB	A/A 12"C							
26	COC		L	1.2	QT/A	12"C							
27	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	92	99	99	99	98	93
27	HORNET	85.6	WG	.25	LB	A/A 12"C							
27	COC		L	1.2	QT/A	12"C							
28	DUAL II	7.8	EC	1.95	LB	A/A PRE	0	88	99	98	99	95	87
28	HORNET	85.6	WG	.17	LB	A/A 12"C							
28	COC		L	1.2	QT/A	12"C							
LSD (P=.05)							0.0	23.6	17.6	24.9	18.0	19.4	25.0
Standard Deviation							0.0	14.4	10.8	15.3	11.1	11.9	15.3
CV							.	15.84	11.04	16.13	11.43	13.07	17.99

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE

Trial ID: C7003 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546

Trial Status: COMPLETE Initiation Date: 4-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.DATST JIMSONWEED 3.CHEAL C. LAMBSQUARTER  
4.ABUTH VELVETLEAF 5.XANST C. COCKLEBUR 6.PHBPU T. MORNINGGLORY

Crop 1: ZEAMX Variety: PIONEER 3279 Planting Date: 4-30-97  
Planting Method: ROWED Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-15-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 2.9 % Sand: 6.7 % Silt: 63 % Clay: 30  
pH: 6.3 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-22-97	6-4-97	6-4-97	6-4-97	6-12-97
Time of Day:	3:00 PM	5:00 PM	2:30 PM	2:30 PM	2:30 PM	4:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	6" CORN	8" CORN	LP
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	62 F	54 F				
% Relative Humidity:	65	50				
Wind Velocity, Unit:	3.0 MPH	3.5 MPH	2.5 MPH	2.5 MPH	2.5 MPH	4.0 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	60 F	65 F				
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	40	30	50	50	50	40

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
DATST						
CHEAL						
ABUTH						
XANST						
PHBPU						



## CORN POSTEMERGENCE

Trial ID: C7003

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A		B		C		D		E		F	
Appl. Equipment:	4	WHEELER	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	30		30		30		30		30		30	
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004	8004	8004	8004	8004	8004	8004	8004	8004	8004	8004	8004
Boom Length, Unit:	5	FT	5	FT	5	FT	5	FT	5	FT	5	FT
Boom Height, Unit:	19	IN	19	IN	19	IN	19	IN	19	IN	19	IN
Ground Speed, Unit:	4	MPH	3.5	MPH	3.5	MPH	3.5	MPH	3.5	MPH	3.5	MPH
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24	GPA	24	GPA	24	GPA	24	GPA	24	GPA	24	GPA
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE II

Trial ID: C7014  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
										ZEAMX					
										INJURY CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL					
										PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT					
										2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS					
										P P P P P P P P					
										0 0 0 0 0 0 0 0					

Trt No.	Treatment Name	Form	Fm	Amt	Ds	Rate	Unit	Grow Stg							
1	DUAL II MAGNUM	7.6	EC	1.3	LB	A/A	PRE		0	98	98	99	99	95	96
1	EXCEED	57	DF	.036	LB	A/A	MP								
1	COC		L	1	QT/A		MP								
2	BICEP LITE II MAGNUM	6	SL	3.15	LB	A/A	PRE		0	96	99	99	99	99	96
2	EXCEED	57	DF	.036	LB	A/A	MP								
2	COC		L	1	QT/A		MP								
3	BICEP LITE II MAGNUM	6	SL	3.15	LB	A/A	PRE		2	96	99	99	98	85	93
3	TOUGH	3.75	EC	.704	LB	A/A	MP								
3	COC		L	1	QT/A		MP								
4	BICEP LITE II MAGNUM	6	SL	3.15	LB	A/A	PRE		2	98	99	99	99	96	96
4	EXCEED	57	DF	.029	LB	A/A	MP								
4	ACTION	5	W	.0036	LB	A/A	MP								
4	COC		L	1	QT/A		MP								
5	BICEP LITE II MAGNUM	6	SL	3.15	LB	A/A	PRE		0	98	99	99	99	96	98
5	EXCEED	57	DF	.029	LB	A/A	MP								
5	TOUGH	3.75	EC	.47	LB	A/A	MP								
5	COC		L	1	QT/A		MP								
6	BICEP LITE II MAGNUM	6	SL	3.15	LB	A/A	PRE		2	98	99	99	99	99	99
6	EXCEED	57	DF	.029	LB	A/A	MP								
6	CLARITY	4	E	.188	LB	A/A	MP								
6	ACTIVATOR 90			.25	g	V/V	MP								
7	DUAL II	7.8	EC	1.95	LB	A/A	PRE		0	98	99	99	99	72	90
7	ACTION	5	W	.0036	LB	A/A	MP								
7	COC		L	1	QT/A		MP								
8	DUAL II	7.8	EC	1.95	LB	A/A	PRE		0	95	98	99	99	83	90
8	ACTION	5	W	.0045	LB	A/A	MP								
8	COC		L	1	QT/A		MP								
9	DUAL II	7.8	EC	1.95	LB	A/A	PRE		0	98	99	99	99	98	98
9	ACTION	5	W	.0036	LB	A/A	MP								
9	EXCEED	57	DF	.035	LB	A/A	MP								
9	COC		L	1	QT/A		MP								
10	DUAL II	7.8	EC	1.95	LB	A/A	PRE		2	98	99	99	99	95	99
10	ACTION	5	W	.0036	LB	A/A	MP								
10	AATREX	4	F	1	LB	A/A	MP								
10	COC		L	1	QT/A		MP								

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CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg							
11	DUAL II	7.8	EC	1.95	LB A/A	PRE		0	99	96	99	99	88	88
11	ACTION	5	W	.0036	LB A/A	MP								
11	ACCENT	75	WG	.016	LB A/A	MP								
11	COC		L	1	QT/A	MP								
11	LIQUID N		L	2	QT/A	MP								
12	DUAL II	7.8	EC	1.95	LB A/A	PRE		2	95	98	99	99	95	99
12	ACTION	5	W	.0036	LB A/A	MP								
12	BEACON	75	DF	.018	LB A/A	MP								
12	COC		L	1	QT/A	MP								
12	LIQUID N		L	2	QT/A	MP								
13	PROWL	3.3	EC	1	LB A/A	PRE		5	98	99	99	99	82	88
13	AATREX	4	F	1	LB A/A	PRE								
13	ACCENT	75	WG	.016	LB A/A	2LC								
13	ACTIVATOR 90		L	.25	% V/V	2LC								
13	LIQUID N		L	1	QT/A	2LC								
14	PROWL	3.3	EC	1	LB A/A	PRE		0	95	99	99	99	83	90
14	AATREX	4	F	1	LB A/A	PRE								
14	ACCENT	75	WG	.016	LB A/A	4LC								
14	ACTIVATOR 90		L	.25	% V/V	4LC								
14	LIQUID N		L	1	QT/A	4LC								
15	PROWL	3.3	EC	1	LB A/A	4LC		0	88	99	99	99	91	99
15	AATREX	4	F	1	LB A/A	4LC								
15	ACCENT	75	WG	.016	LB A/A	4LC								
15	ACTIVATOR 90		L	.25	% V/V	4LC								
15	LIQUID N		L	1	QT/A	4LC								
16	DUAL II	7.8	EC	1.5	LB A/A	PRE		6	96	99	99	99	91	99
16	F 8426	50	DF	.008	LB A/A	MP								
16	AATREX	4	F	.5	LB A/A	MP								
16	ACTIVATOR 90		L	.25	% V/V	MP								
17	DUAL II	7.8	EC	1.5	LB A/A	PRE		6	98	99	99	99	95	96
17	F 8426	50	DF	.008	LB A/A	MP								
17	AATREX	4	F	.5	LB A/A	MP								
17	BANVEL	4	EC	.094	LB A/A	MP								
17	ACTIVATOR 90		L	.25	% V/V	MP								

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CORN POSTEMERGENCE II

Trial ID: C7014      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
Crop Code	ZEAMX						
Part Rated							
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval		2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type		P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg							
18	DUAL II	7.8	EC	1.5	LB A/A	PRE	13	99	99	99	99	96	99
18	F 8426	50	DF	.008	LB A/A	MP							
18	AATREX	4	F	.5	LB A/A	MP							
18	WEEDONE LV4	3.8	E	.125	LB A/A	MP							
18	ACTIVATOR 90			.25	1/4 V/V	MP							
19	DUAL II	7.8	EC	1.95	LB A/A	PRE	3	98	99	99	99	98	99
19	MARKSMAN	3.2	F	1.4	LB A/A	MP							
20	AXIOM	68	DF	.64	LB A/A	PRE	0	98	99	99	99	93	96
20	MARKSMAN	3.2	F	1.4	LB A/A	6"C							
21	AXIOM	68	DF	.64	LB A/A	PRE	2	96	99	99	99	85	90
21	SENCOR	75	DF	.094	LB A/A	6"C							
21	WEEDONE 638	2.8	E	.18	LB A/A	6"C							
22	AXIOM	68	DF	.64	LB A/A	PRE	2	93	99	99	99	90	92
22	SENCOR	75	DF	.094	LB A/A	6"C							
22	MARKSMAN	3.2	F	.8	LB A/A	6"C							
23	AXIOM	68	DF	.64	LB A/A	PRE	2	96	99	99	99	85	75
23	SENCOR	75	DF	.094	LB A/A	6"C							
23	BUCTRIL	2	EC	.25	LB A/A	6"C							
24	AXIOM	68	DF	.64	LB A/A	PRE	5	96	99	99	99	88	83
24	EXCEED	57	DF	.036	LB A/A	6"C							
24	COC		L	1	QT/A	6"C							
LSD (P=.05)							3.6	3.1	2.1	0.0	0.8	8.8	5.9
Standard Deviation							2.2	1.9	1.3	0.0	0.5	5.3	3.6
CV							101.77	1.97	1.28	0.0	0.48	5.88	3.8

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CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow								
		Amt	Ds	Rate	Unit	Stg							
1	DUAL II MAGNUM	7.6	EC	1.3	LB A/A	PRE	0	98	98	99	99	95	95
1	EXCEED	57	DF	.036	LB A/A	MP							
1	COC		L	1	QT/A	MP							
2	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	96	99	99	99	98	95
2	EXCEED	57	DF	.036	LB A/A	MP							
2	COC		L	1	QT/A	MP							
3	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	96	99	99	98	80	85
3	TOUGH	3.75	EC	.704	LB A/A	MP							
3	COC		L	1	QT/A	MP							
4	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	98	99	99	99	96	93
4	EXCEED	57	DF	.029	LB A/A	MP							
4	ACTION	5	W	.0036	LB A/A	MP							
4	COC		L	1	QT/A	MP							
5	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	98	99	99	99	95	95
5	EXCEED	57	DF	.029	LB A/A	MP							
5	TOUGH	3.75	EC	.47	LB A/A	MP							
5	COC		L	1	QT/A	MP							
6	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	96	99	99	99	98	96
6	EXCEED	57	DF	.029	LB A/A	MP							
6	CLARITY	4	E	.188	LB A/A	MP							
6	ACTIVATOR 90			.25	% V/V	MP							
7	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	96	96	99	99	70	85
7	ACTION	5	W	.0036	LB A/A	MP							
7	COC		L	1	QT/A	MP							
8	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	95	96	98	98	80	83
8	ACTION	5	W	.0045	LB A/A	MP							
8	COC		L	1	QT/A	MP							
9	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	96	99	99	99	93	93
9	ACTION	5	W	.0036	LB A/A	MP							
9	EXCEED	57	DF	.035	LB A/A	MP							
9	COC		L	1	QT/A	MP							
10	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	96	99	99	99	95	95
10	ACTION	5	W	.0036	LB A/A	MP							
10	AATREX	4	F	1	LB A/A	MP							
10	COC		L	1	QT/A	MP							

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CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
										ZEAMX					
										INJURY CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL					
										PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT					
										4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS					
										P P P P P P P P					
										0 0 0 0 0 0 0 0					

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg								
		Amt	Ds	Rate	Unit										
11	DUAL II	7.8	EC	1.95	LB A/A	PRE		0	98	96	99	99	88	83	
11	ACTION	5	W	.0036	LB A/A	MP									
11	ACCENT	75	WG	.016	LB A/A	MP									
11	COC		L	1	QT/A	MP									
11	LIQUID N		L	2	QT/A	MP									
12	DUAL II	7.8	EC	1.95	LB A/A	PRE		0	96	98	99	99	92	93	
12	ACTION	5	W	.0036	LB A/A	MP									
12	BEACON	75	DF	.018	LB A/A	MP									
12	COC		L	1	QT/A	MP									
12	LIQUID N		L	2	QT/A	MP									
13	PROWL	3.3	EC	1	LB A/A	PRE		0	98	99	99	99	50	82	
13	AATREX	4	F	1	LB A/A	PRE									
13	ACCENT	75	WG	.016	LB A/A	2LC									
13	ACTIVATOR 90			.25	1/2 V/V	2LC									
13	LIQUID N		L	1	QT/A	2LC									
14	PROWL	3.3	EC	1	LB A/A	PRE		0	95	99	99	99	82	87	
14	AATREX	4	F	1	LB A/A	PRE									
14	ACCENT	75	WG	.016	LB A/A	4LC									
14	ACTIVATOR 90			.25	1/2 V/V	4LC									
14	LIQUID N		L	1	QT/A	4LC									
15	PROWL	3.3	EC	1	LB A/A	4LC		0	88	99	99	99	95	92	
15	AATREX	4	F	1	LB A/A	4LC									
15	ACCENT	75	WG	.016	LB A/A	4LC									
15	ACTIVATOR 90			.25	1/2 V/V	4LC									
15	LIQUID N		L	1	QT/A	4LC									
16	DUAL II	7.8	EC	1.5	LB A/A	PRE		0	96	98	99	99	90	93	
16	F 8426	50	DF	.008	LB A/A	MP									
16	AATREX	4	F	.5	LB A/A	MP									
16	ACTIVATOR 90			.25	1/2 V/V	MP									
17	DUAL II	7.8	EC	1.5	LB A/A	PRE		0	98	99	99	99	92	92	
17	F 8426	50	DF	.008	LB A/A	MP									
17	AATREX	4	F	.5	LB A/A	MP									
17	BANVEL	4	EC	.094	LB A/A	MP									
17	ACTIVATOR 90			.25	1/2 V/V	MP									

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg							
18	DUAL II	7.8	EC	1.5	LB A/A	PRE	3	98	99	99	99	90	93
18	F 8426	50	DF	.008	LB A/A	MP							
18	AATREX	4	F	.5	LB A/A	MP							
18	WEEDONE LV4	3.8	E	.125	LB A/A	MP							
18	ACTIVATOR 90			.25	1/4 V/V	MP							
19	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	98	99	99	99	95	95
19	MARKSMAN	3.2	F	1.4	LB A/A	MP							
20	AXIOM	68	DF	.64	LB A/A	PRE	0	98	99	99	99	92	93
20	MARKSMAN	3.2	F	1.4	LB A/A	6"C							
21	AXIOM	68	DF	.64	LB A/A	PRE	0	96	99	99	99	68	77
21	SENCOR	75	DF	.094	LB A/A	6"C							
21	WEEDONE 638	2.8	E	.18	LB A/A	6"C							
22	AXIOM	68	DF	.64	LB A/A	PRE	0	93	99	99	99	88	90
22	SENCOR	75	DF	.094	LB A/A	6"C							
22	MARKSMAN	3.2	F	.8	LB A/A	6"C							
23	AXIOM	68	DF	.64	LB A/A	PRE	0	96	99	99	99	65	60
23	SENCOR	75	DF	.094	LB A/A	6"C							
23	BUCTRIL	2	EC	.25	LB A/A	6"C							
24	AXIOM	68	DF	.64	LB A/A	PRE	2	96	99	99	99	93	93
24	EXCEED	57	DF	.036	LB A/A	6"C							
24	COC		L	1	QT/A	6"C							
LSD (P=.05)							1.7	3.7	2.4	0.8	1.1	10.1	11.2
Standard Deviation							1.0	2.2	1.5	0.5	0.7	6.1	6.8
CV							424.93	2.33	1.48	0.48	0.68	7.09	7.63

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE II

Trial ID: C7014  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	ZEAMX	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
										INJURY CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL						
										PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT						
										8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS						
										P P P P P P P P						
										0 0 0 0 0 0 0 0						

Trt No.	Treatment Name	Form	Fm	Rate	Grow											
No.	Name	Amt	Ds	Rate	Unit	Stg										
1	DUAL II MAGNUM	7.6	EC	1.3	LB A/A	PRE	0	95	99	99	99	99	95	92		
1	EXCEED	57	DF	.036	LB A/A	MP										
1	COC		L	1	QT/A	MP										
2	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	96	99	99	99	99	96	90		
2	EXCEED	57	DF	.036	LB A/A	MP										
2	COC		L	1	QT/A	MP										
3	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	0	93	99	99	99	99	82	87		
3	TOUGH	3.75	EC	.704	LB A/A	MP										
3	COC		L	1	QT/A	MP										
4	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	3	95	99	99	99	99	98	92		
4	EXCEED	57	DF	.029	LB A/A	MP										
4	ACTION	5	W	.0036	LB A/A	MP										
4	COC		L	1	QT/A	MP										
5	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	3	95	99	99	94	99	93	90		
5	EXCEED	57	DF	.029	LB A/A	MP										
5	TOUGH	3.75	EC	.47	LB A/A	MP										
5	COC		L	1	QT/A	MP										
6	BICEP LITE II MAGNUM	6	SL	3.15	LB A/A	PRE	3	95	99	99	99	99	92	90		
6	EXCEED	57	DF	.029	LB A/A	MP										
6	CLARITY	4	E	.188	LB A/A	MP										
6	ACTIVATOR 90			.25	% V/V	MP										
7	DUAL II	7.8	EC	1.95	LB A/A	PRE	3	95	96	99	99	99	83	85		
7	ACTION	5	W	.0036	LB A/A	MP										
7	COC		L	1	QT/A	MP										
8	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	92	93	91	94	99	85	87		
8	ACTION	5	W	.0045	LB A/A	MP										
8	COC		L	1	QT/A	MP										
9	DUAL II	7.8	EC	1.95	LB A/A	PRE	3	93	99	99	99	99	96	88		
9	ACTION	5	W	.0036	LB A/A	MP										
9	EXCEED	57	DF	.035	LB A/A	MP										
9	COC		L	1	QT/A	MP										
10	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	96	99	99	99	99	96	92		
10	ACTION	5	W	.0036	LB A/A	MP										
10	AATREX	4	F	1	LB A/A	MP										
10	COC		L	1	QT/A	MP										



Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg								
11	DUAL II	7.8	EC	1.95	LB	A/A	PRE	2	95	99	99	99	88	88
11	ACTION	5	W	.0036	LB	A/A	MP							
11	ACCENT	75	WG	.016	LB	A/A	MP							
11	COC		L	1	QT/A		MP							
11	LIQUID N		L	2	QT/A		MP							
12	DUAL II	7.8	EC	1.95	LB	A/A	PRE	5	93	99	99	99	92	87
12	ACTION	5	W	.0036	LB	A/A	MP							
12	BEACON	75	DF	.018	LB	A/A	MP							
12	COC		L	1	QT/A		MP							
12	LIQUID N		L	2	QT/A		MP							
13	PROWL	3.3	EC	1	LB	A/A	PRE	0	90	99	99	99	43	78
13	AATREX	4	F	1	LB	A/A	PRE							
13	ACCENT	75	WG	.016	LB	A/A	2LC							
13	ACTIVATOR 90			.25	%	V/V	2LC							
13	LIQUID N		L	1	QT/A		2LC							
14	PROWL	3.3	EC	1	LB	A/A	PRE	2	92	99	99	99	78	85
14	AATREX	4	F	1	LB	A/A	PRE							
14	ACCENT	75	WG	.016	LB	A/A	4LC							
14	ACTIVATOR 90			.25	%	V/V	4LC							
14	LIQUID N		L	1	QT/A		4LC							
15	PROWL	3.3	EC	1	LB	A/A	4LC	0	63	99	99	99	88	90
15	AATREX	4	F	1	LB	A/A	4LC							
15	ACCENT	75	WG	.016	LB	A/A	4LC							
15	ACTIVATOR 90			.25	%	V/V	4LC							
15	LIQUID N		L	1	QT/A		4LC							
16	DUAL II	7.8	EC	1.5	LB	A/A	PRE	5	95	99	99	99	88	87
16	F 8426	50	DF	.008	LB	A/A	MP							
16	AATREX	4	F	.5	LB	A/A	MP							
16	ACTIVATOR 90			.25	%	V/V	MP							
17	DUAL II	7.8	EC	1.5	LB	A/A	PRE	2	95	99	99	94	91	90
17	F 8426	50	DF	.008	LB	A/A	MP							
17	AATREX	4	F	.5	LB	A/A	MP							
17	BANVEL	4	EC	.094	LB	A/A	MP							
17	ACTIVATOR 90			.25	%	V/V	MP							

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg							
18	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	95	99	99	99	88	90
18	F 8426	50	DF	.008	LB	A/A	MP							
18	AATREX	4	F	.5	LB	A/A	MP							
18	WEEDONE LV4	3.8	E	.125	LB	A/A	MP							
18	ACTIVATOR 90			.25	lb	V/V	MP							
19	DUAL II	7.8	EC	1.95	LB	A/A	PRE	0	95	99	99	99	92	87
19	MARKSMAN	3.2	F	1.4	LB	A/A	MP							
20	AXIOM	68	DF	.64	LB	A/A	PRE	0	96	99	99	99	93	90
20	MARKSMAN	3.2	F	1.4	LB	A/A	6"C							
21	AXIOM	68	DF	.64	LB	A/A	PRE	0	92	99	99	99	53	75
21	SENCOR	75	DF	.094	LB	A/A	6"C							
21	WEEDONE 638	2.8	E	.18	LB	A/A	6"C							
22	AXIOM	68	DF	.64	LB	A/A	PRE	2	92	99	99	99	90	88
22	SENCOR	75	DF	.094	LB	A/A	6"C							
22	MARKSMAN	3.2	F	.8	LB	A/A	6"C							
23	AXIOM	68	DF	.64	LB	A/A	PRE	0	93	99	99	99	58	70
23	SENCOR	75	DF	.094	LB	A/A	6"C							
23	BUCTRIL	2	EC	.25	LB	A/A	6"C							
24	AXIOM	68	DF	.64	LB	A/A	PRE	2	92	99	99	99	92	87
24	EXCEED	57	DF	.036	LB	A/A	6"C							
24	COC		L	1	QT/A		6"C							
LSD (P=.05)				4.6	10.6	2.5	2.4	4.5	16.8	9.9				
Standard Deviation				2.8	6.4	1.5	1.4	2.7	10.2	6.0				
CV				193.05	6.91	1.55	1.47	2.77	11.89	6.92				

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## CORN POSTEMERGENCE II

Trial ID: C7014 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL C.LAMBSQUARTERS 3.DATST JIMSONWEED  
4.ABUTH VELVETLEAF 5.XANST C. COCKLEBUR 6.PHBPU T. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 4-30-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 58 F Soil Moisture: NORMAL Emergence Date: 5-15-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY

Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-27-97	5-30-97	6-4-97	6-4-97	
Time of Day:	10:00 AM	2:00 PM	11:00 AM	4:00 PM	4:00 PM	
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	
Application Timing:	PRE	2 LF	6" CORN	4 LF	MP	
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	
Air Temp., Unit:	62 F	60 F	64 F	60 F	60 F	
% Relative Humidity:	80	82	80	92	92	
Wind Velocity, Unit:	4 MPH	5 MPH	3 MPH	5 MPH	5 MPH	
Dew Presence (Y/N):	N	N	N	N	N	
Soil Temp., Unit:	58 F	64 F	63 F	64 F	64 F	
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	
% Cloud Cover:	60	70	50	60	60	

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		2 LF	6" C	4 LF	MP	
		2 LVS	3-4 LVS	3-4 LVS	3-4 LVS	
		4 IN	7 IN	7 IN	7 IN	

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE II

Trial ID: C7014      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2 LF	6" C	4 LF	MP	
		1 LF	2 LVS	2 LVS	2 LVS	
		1 IN	2 IN	2 IN	2 IN	
CHEAL		6 LVS	6 LVS	6 LVS	6 LVS	
		1 IN	1.5 IN	1.5 IN	1.5 IN	
DATST		2 LVS	2 LVS	2 LVS	2 LVS	
		1 IN	1-2 IN	1-2 IN	1-2 IN	
ABUTH		2 LVS	2 LVS	2 LVS	2 LVS	
		1 IN	1 IN	1 IN	1 IN	
XANST		3 LVS	4 LVS	4 LVS	4 LVS	
		2 IN	3-4 IN	3-4 IN	3-4 IN	
PHBPU		COT	COT	COT	COT	
		1 IN	1-2 IN	1-2 IN	1-2 IN	

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code		ZEAMX				
Part Rated						
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	
1	BASIS	75	DF	.016	LB A/A	MP	0	97	83	93	80	93
1	BANVEL	4	EC	.125	LB A/A	MP						
1	COC		L	1	QT/A	MP						
1	LIQUID N		L	2	QT/A	MP						
1	CULTIVATION											
2	BASIS	75	DF	.016	LB A/A	MP	0	100	100	87	93	97
2	AATREX	4	F	.76	LB A/A	MP						
2	COC		L	1	QT/A	MP						
2	LIQUID N		L	2	QT/A	MP						
3	ACCENT	75	WG	.031	LB A/A	MP	0	97	83	87	80	77
3	BUCTRIL	2	EC	.25	LB A/A	MP						
3	ACTIVATOR 90			.25	% V/V	MP						
3	LIQUID N		L	2	QT/A	MP						
4	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	97	90	83	87	97
4	COC		L	1	QT/A	MP						
5	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	97	97	93	90	93
5	BANVEL	4	EC	.125	LB A/A	MP						
5	ACTIVATOR 90			.25	% V/V	MP						
6	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	100	77	93	97
6	AATREX	4	F	.25	LB A/A	MP						
6	COC		L	1	QT/A	MP						
7	DUAL II	7.8	EC	.75	LB A/A	PRE	0	100	100	80	90	93
7	BASIS GOLD	89.5	DF	.79	LB A/A	MP						
7	COC		L	1	QT/A	MP						
8	ACCENT	75	WG	.031	LB A/A	MP	0	93	93	80	80	97
8	AATREX	4	F	.5	LB A/A	MP						
8	ACTIVATOR 90			.25	% V/V	MP						
9	ACCENT	75	WG	.031	LB A/A	MP	0	100	83	87	90	93
9	AATREX	4	F	.5	LB A/A	MP						
9	BANVEL	4	EC	.125	LB A/A	MP						
9	ACTIVATOR 90			.25	% V/V	MP						
10	ACCENT	75	WG	.031	LB A/A	MP	0	100	97	90	93	90
10	AATREX	4	F	1	LB A/A	MP						
10	PROWL	3.3	EC	.625	LB A/A	MP						
10	ACTIVATOR 90			.25	% V/V	MP						

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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code						
Part Rated		ZEAMX				
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow						
		Amt	Ds	Rate	Unit	Stg						
11	ACCENT	75	WG	.031	LB A/A	MP	0	100	93	93	87	93
11	EXCEED	57	DF	.009	LB A/A	MP						
11	ACTIVATOR 90			.25	1/4 V/V	MP						
12	EXTRAZINE	90	DF	1.33	LB A/A	PRE	0	100	100	87	97	93
12	BASIS GOLD	89.5	DF	.79	LB A/A	MP						
12	COC		L	1	QT/A	MP						
12	LIQUID N		L	1	QT/A	MP						
13	BICEP II	5.9	F	.9	LB A/A	PRE	0	100	100	77	87	93
13	BASIS GOLD	89.5	DF	.79	LB A/A	MP						
13	COC		L	1	QT/A	MP						
13	LIQUID N		L	1	QT/A	MP						
14	SURPASS	6.4	EC	.83	LB A/A	PRE	0	100	100	83	93	97
14	BASIS GOLD	89.5	DF	.79	LB A/A	MP						
14	COC		L	1	QT/A	MP						
14	LIQUID N		L	1	QT/A	MP						
15	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	100	77	90	90
15	DUAL II	7.8	EC	.75	LB A/A	MP						
15	COC		L	1	QT/A	MP						
15	LIQUID N		L	2	QT/A	MP						
16	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	100	87	93	90
16	SURPASS	6.4	EC	.6	LB A/A	MP						
16	COC		L	1	QT/A	MP						
16	LIQUID N		L	2	QT/A	MP						
17	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	100	87	97	97
17	BICEP II	5.9	F	1.35	LB A/A	MP						
17	COC		L	1	QT/A	MP						
17	LIQUID N		L	2	QT/A	MP						
18	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	97	90	90	93
18	EXCEED	57	DF	.009	LB A/A	MP						
18	COC		L	1	QT/A	MP						
18	LIQUID N		L	2	QT/A	MP						
19	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	97	90	100	93
19	HORNET	85.6	WG	.09	LB A/A	MP						
19	COC		L	1	QT/A	MP						
19	LIQUID N		L	2	QT/A	MP						

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code	ZEAMX					
Part Rated						
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg						
20	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	97	93	87	90	93
20	TOUGH	3.75	EC	.47	LB	A/A	MP						
20	COC		L	1	QT/A		MP						
20	LIQUID N		L	2	QT/A		MP						
21	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	97	90	90	93
21	CLARITY	4	E	.125	LB	A/A	MP						
21	COC		L	1	QT/A		MP						
21	LIQUID N		L	2	QT/A		MP						
22	CHECK							0	0	0	0	0	0
	LSD (P=.05)							0.0	4.7	9.0	10.7	8.5	9.7
	Standard Deviation							0.0	2.9	5.4	6.5	5.2	5.9
	CV								3.02	5.97	7.92	6.01	6.62

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code		ZEAMX				
Part Rated						
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg						
1	BASIS	75	DF	.016	LB	A/A	MP	0	97	83	87	80	90
1	BANVEL	4	EC	.125	LB	A/A	MP						
1	COC		L	1	QT/A		MP						
1	LIQUID N		L	2	QT/A		MP						
1	CULTIVATION												
2	BASIS	75	DF	.016	LB	A/A	MP	0	100	93	83	90	90
2	AATREX	4	F	.76	LB	A/A	MP						
2	COC		L	1	QT/A		MP						
2	LIQUID N		L	2	QT/A		MP						
3	ACCENT	75	WG	.031	LB	A/A	MP	0	97	80	73	70	70
3	BUCTRIL	2	EC	.25	LB	A/A	MP						
3	ACTIVATOR 90			.25	%	V/V	MP						
3	LIQUID N		L	2	QT/A		MP						
4	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	97	83	77	87	90
4	COC		L	1	QT/A		MP						
5	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	97	90	87	90	93
5	BANVEL	4	EC	.125	LB	A/A	MP						
5	ACTIVATOR 90			.25	%	V/V	MP						
6	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	90	63	93	90
6	AATREX	4	F	.25	LB	A/A	MP						
6	COC		L	1	QT/A		MP						
7	DUAL II	7.8	EC	.75	LB	A/A	PRE	0	100	97	70	83	87
7	BASIS GOLD	89.5	DF	.79	LB	A/A	MP						
7	COC		L	1	QT/A		MP						
8	ACCENT	75	WG	.031	LB	A/A	MP	0	93	80	63	77	90
8	AATREX	4	F	.5	LB	A/A	MP						
8	ACTIVATOR 90			.25	%	V/V	MP						
9	ACCENT	75	WG	.031	LB	A/A	MP	0	100	80	87	87	90
9	AATREX	4	F	.5	LB	A/A	MP						
9	BANVEL	4	EC	.125	LB	A/A	MP						
9	ACTIVATOR 90			.25	%	V/V	MP						
10	ACCENT	75	WG	.031	LB	A/A	MP	0	100	90	83	90	90
10	AATREX	4	F	1	LB	A/A	MP						
10	PROWL	3.3	EC	.625	LB	A/A	MP						
10	ACTIVATOR 90			.25	%	V/V	MP						



Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE III

Trial ID: C7015 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg	SETFA	DIGSA	XANST	SIDSP	IPOHE	
11	ACCENT	75	WG	.031	LB	A/A	MP	0	100	87	77	83	87
11	EXCEED	57	DF	.009	LB	A/A	MP						
11	ACTIVATOR 90			.25	g	V/V	MP						
12	EXTRAZINE	90	DF	1.33	LB	A/A	PRE	0	100	90	80	87	90
12	BASIS GOLD	89.5	DF	.79	LB	A/A	MP						
12	COC		L	1	QT/A		MP						
12	LIQUID N		L	1	QT/A		MP						
13	BICEP II	5.9	F	.9	LB	A/A	PRE	0	100	97	63	83	87
13	BASIS GOLD	89.5	DF	.79	LB	A/A	MP						
13	COC		L	1	QT/A		MP						
13	LIQUID N		L	1	QT/A		MP						
14	SURPASS	6.4	EC	.83	LB	A/A	PRE	0	100	90	73	87	90
14	BASIS GOLD	89.5	DF	.79	LB	A/A	MP						
14	COC		L	1	QT/A		MP						
14	LIQUID N		L	1	QT/A		MP						
15	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	97	70	83	90
15	DUAL II	7.8	EC	.75	LB	A/A	MP						
15	COC		L	1	QT/A		MP						
15	LIQUID N		L	2	QT/A		MP						
16	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	90	80	90	90
16	SURPASS	6.4	EC	.6	LB	A/A	MP						
16	COC		L	1	QT/A		MP						
16	LIQUID N		L	2	QT/A		MP						
17	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	93	80	90	90
17	BICEP II	5.9	F	1.35	LB	A/A	MP						
17	COC		L	1	QT/A		MP						
17	LIQUID N		L	2	QT/A		MP						
18	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	90	87	90	93
18	EXCEED	57	DF	.009	LB	A/A	MP						
18	COC		L	1	QT/A		MP						
18	LIQUID N		L	2	QT/A		MP						
19	BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	100	90	83	93	90
19	HORNET	85.6	WG	.09	LB	A/A	MP						
19	COC		L	1	QT/A		MP						
19	LIQUID N		L	2	QT/A		MP						

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	SETFA	DIGSA	XANST	SIDSP	IPOHE	
20	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	97	87	73	90	87
20	TOUGH	3.75	EC	.47	LB A/A	MP						
20	COC		L	1	QT/A	MP						
20	LIQUID N		L	2	QT/A	MP						
21	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	100	90	87	90	90
21	CLARITY	4	E	.125	LB A/A	MP						
21	COC		L	1	QT/A	MP						
21	LIQUID N		L	2	QT/A	MP						
22	CHECK						0	0	0	0	0	0
LSD (P=.05)							0.0	4.7	9.5	12.0	7.3	6.8
Standard Deviation							0.0	2.9	5.7	7.3	4.4	4.1
CV							.	3.02	6.75	9.85	5.36	4.87

CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	0	70	70	77	57	80
1	BASIS	75	DF	.016	LB	A/A MP	0	70	70	77	57	80
1	BANVEL	4	EC	.125	LB	A/A MP						
1	COC		L	1	QT/A	MP						
1	LIQUID N		L	2	QT/A	MP						
1	CULTIVATION											
2	BASIS	75	DF	.016	LB	A/A MP	0	87	90	73	90	90
2	AATREX	4	F	.76	LB	A/A MP						
2	COC		L	1	QT/A	MP						
2	LIQUID N		L	2	QT/A	MP						
3	ACCENT	75	WG	.031	LB	A/A MP	0	70	67	70	60	70
3	BUCTRIL	2	EC	.25	LB	A/A MP						
3	ACTIVATOR 90		L	.25	%	V/V MP						
3	LIQUID N		L	2	QT/A	MP						
4	BASIS GOLD	89.5	DF	.79	LB	A/A MP	0	80	80	67	83	90
4	COC		L	1	QT/A	MP						
5	BASIS GOLD	89.5	DF	.79	LB	A/A MP	0	90	87	87	83	90
5	BANVEL	4	EC	.125	LB	A/A MP						
5	ACTIVATOR 90		L	.25	%	V/V MP						
6	BASIS GOLD	89.5	DF	.79	LB	A/A MP	0	87	90	60	83	87
6	AATREX	4	F	.25	LB	A/A MP						
6	COC		L	1	QT/A	MP						
7	DUAL II	7.8	EC	.75	LB	A/A PRE	0	93	97	60	80	87
7	BASIS GOLD	89.5	DF	.79	LB	A/A MP						
7	COC		L	1	QT/A	MP						
8	ACCENT	75	WG	.031	LB	A/A MP	0	70	70	57	77	87
8	AATREX	4	F	.5	LB	A/A MP						
8	ACTIVATOR 90		L	.25	%	V/V MP						
9	ACCENT	75	WG	.031	LB	A/A MP	0	80	80	80	83	87
9	AATREX	4	F	.5	LB	A/A MP						
9	BANVEL	4	EC	.125	LB	A/A MP						
9	ACTIVATOR 90		L	.25	%	V/V MP						
10	ACCENT	75	WG	.031	LB	A/A MP	0	93	90	70	90	90
10	AATREX	4	F	1	LB	A/A MP						
10	PROWL	3.3	EC	.625	LB	A/A MP						
10	ACTIVATOR 90		L	.25	%	V/V MP						

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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	DIGSA	XANST	SIDSP	IPOHE
Crop Code						
Part Rated		ZEAMX				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	0	80	70	67	83
11	ACCENT	75	WG	.031	LB A/A	MP	0	80	70	67	83
11	EXCEED	57	DF	.009	LB A/A	MP					
11	ACTIVATOR 90			.25	% V/V	MP					
12	EXTRAZINE	90	DF	1.33	LB A/A	PRE	0	90	90	70	87
12	BASIS GOLD	89.5	DF	.79	LB A/A	MP					
12	COC		L	1	QT/A	MP					
12	LIQUID N		L	1	QT/A	MP					
13	BICEP II	5.9	F	.9	LB A/A	PRE	0	93	93	60	77
13	BASIS GOLD	89.5	DF	.79	LB A/A	MP					
13	COC		L	1	QT/A	MP					
13	LIQUID N		L	1	QT/A	MP					
14	SURPASS	6.4	EC	.83	LB A/A	PRE	0	90	90	73	87
14	BASIS GOLD	89.5	DF	.79	LB A/A	MP					
14	COC		L	1	QT/A	MP					
14	LIQUID N		L	1	QT/A	MP					
15	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	97	97	57	83
15	DUAL II	7.8	EC	.75	LB A/A	MP					
15	COC		L	1	QT/A	MP					
15	LIQUID N		L	2	QT/A	MP					
16	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	90	87	73	83
16	SURPASS	6.4	EC	.6	LB A/A	MP					
16	COC		L	1	QT/A	MP					
16	LIQUID N		L	2	QT/A	MP					
17	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	97	93	70	90
17	BICEP II	5.9	F	1.35	LB A/A	MP					
17	COC		L	1	QT/A	MP					
17	LIQUID N		L	2	QT/A	MP					
18	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	80	87	80	87
18	EXCEED	57	DF	.009	LB A/A	MP					
18	COC		L	1	QT/A	MP					
18	LIQUID N		L	2	QT/A	MP					
19	BASIS GOLD	89.5	DF	.79	LB A/A	MP	0	83	87	83	90
19	HORNET	85.6	WG	.09	LB A/A	MP					
19	COC		L	1	QT/A	MP					
19	LIQUID N		L	2	QT/A	MP					

9-19-97 (C7015)

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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	DIGSA	KANST	SIDSP	IPOHE
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg							
20 BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	80	80	67	87	77
20 TOUGH	3.75	EC	.47	LB	A/A	MP						
20 COC		L	1	QT/A		MP						
20 LIQUID N		L	2	QT/A		MP						
21 BASIS GOLD	89.5	DF	.79	LB	A/A	MP	0	93	90	80	87	87
21 CLARITY	4	E	.125	LB	A/A	MP						
21 COC		L	1	QT/A		MP						
21 LIQUID N		L	2	QT/A		MP						
22 CHECK							0	0	0	0	0	0
LSD (P=.05)							0.0	10.2	10.7	12.9	8.0	9.0
Standard Deviation							0.0	6.2	6.5	7.8	4.8	5.5
CV								7.56	7.99	11.61	6.22	6.73

CORN POSTEMERGENCE III

Trial ID: C7015 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.XANST C. COCKLEBUR 3.SIDSP PRICKLY SIDA  
4.PHBPU T. MORNINGGLORY

Crop 1: ZEAMX Variety: PIONEER 3279 Planting Date: 4-30-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 58 F Soil Moisture: NORMAL Emergence Date: 5-15-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-30-97				
Time of Day:	5:00 PM	6:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	62 F	64 F				
% Relative Humidity:	60	70				
Wind Velocity, Unit:	5 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	59 F	62 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	45				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP				
		2 LF				
		6 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2.5"				
		3 LVS				
XANST		2"				
		4 LVS				
SIDSP		1"				
		2 LVS				
PHBPU		1"				
		2 LVS				

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CORN POSTEMERGENCE III

Trial ID: C7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				

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CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	ZEAMX	SETFA	XANST	CHEAL
Crop Code	INJURY CONTROL CONTROL CONTROL				INJURY CONTROL CONTROL CONTROL			
Part Rated	PERCENT PERCENT PERCENT PERCENT				PERCENT PERCENT PERCENT PERCENT			
Rating Data Type	2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS				4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS			
Rating Unit	P P P P				P P P P			
Rating Date	0 0 0 0				0 0 0 0			
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	ZEAMX	SETFA	XANST	CHEAL
1	FRONTIER	6	E	1.2	LB A/A	PRE	0	100	100	100	0	100	100	100
1	MARKSMAN	3.2	F	1.4	LB A/A	8"C								
2	FRONTIER	6	E	1.2	LB A/A	PRE	13	100	97	100	0	100	93	100
2	CLARITY	4	E	.5	LB A/A	5"C								
2	ACTIVATOR 90			.25	% V/V	5"C								
2	LIQUID N		L	2.5	QT/A	5"C								
3	GUARDSMAN	5	E	2.8	LB A/A	PRE	3	100	100	100	0	100	100	98
3	MARKSMAN	3.2	F	1.4	LB A/A	8"C								
4	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	100	98	100	0	100	98	100
4	BUCTRIL/ATRA	3	F	.75	LB A/A	8"C								
5	DUAL II	7.8	EC	1.95	LB A/A	PRE	0	100	95	93	0	100	97	93
5	EXCEED	57	DF	.036	LB A/A	8"C								
5	COC		L	1	QT/A	8"C								
6	HARNESS	7	EC	1.6	LB A/A	PRE	0	100	95	95	0	100	95	97
6	PERMIT	75	DF	.036	LB A/A	8"C								
6	COC		L	1	QT/A	8"C								
7	FRONTIER	6	E	1.2	LB A/A	PRE	0	98	95	100	0	100	95	100
7	DISTINCT	70	WG	.263	LB A/A	5"C								
7	ACTIVATOR 90			.25	% V/V	5"C								
7	LIQUID N		L	2	QT/A	5"C								
8	SURPASS	6.4	EC	1.6	LB A/A	PRE	5	100	97	100	0	100	97	100
8	SCORPION III	84.3	WG	.21	LB A/A	5"C								
8	ACTIVATOR 90			.25	% V/V	5"C								
9	FRONTIER	6	E	1.2	LB A/A	PRE	0	100	95	97	0	100	97	97
9	DISTINCT	70	WG	.175	LB A/A	8"C								
9	ACTIVATOR 90			.25	% V/V	8"C								
9	LIQUID N		L	2	QT/A	8"C								
10	SURPASS	6.4	EC	1.6	LB A/A	PRE	0	98	90	97	0	97	90	98
10	HORNET	85.6	WG	.021	LB A/A	8"C								
10	ACTIVATOR 90			.25	% V/V	8"C								
11	FRONTIER	6	E	1.2	LB A/A	PRE	3	100	95	100	0	98	95	100
11	LADDOK	5	FL	1.04	LB A/A	8"C								
11	COC		L	1	QT/A	8"C								



CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	CHEAL		SETFA	XANST	CHEAL
Crop Code		ZEAMX				ZEAMX		
Part Rated								
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval		2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type		P	P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg							
12	FRONTIER	6	E	1.2	LB A/A	PRE	3	100	100	100	0	100	100
12	BASAGRAN	4	E	.75	LB A/A	8"C							
12	CLARITY	4	E	.25	LB A/A	8"C							
12	LIQUID N		L	2	QT/A	8"C							
13	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	97	100	0	97	95
13	DISTINCT	70	WG	.175	LB A/A	5"C							
13	ACTIVATOR 90			.25	LB A/A	5"C							
13	LIQUID N		L	1	QT/A	5"C							
14	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	97	97	0	100	95
14	DISTINCT	70	WG	.263	LB A/A	5"C							
14	ACTIVATOR 90			.25	LB A/A	5"C							
14	LIQUID N		L	1	QT/A	5"C							
15	DUAL II	7.8	EC	1.2	LB A/A	PRE	5	100	90	78	0	97	95
15	DISTINCT	70	WG	.175	LB A/A	10"C							
15	ACTIVATOR 90			.25	LB A/A	10"C							
15	LIQUID N		L	1	QT/A	10"C							
16	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	85	73	0	100	93
16	DISTINCT	70	WG	.263	LB A/A	10"C							
16	ACTIVATOR 90			.25	LB A/A	10"C							
16	LIQUID N		L	1	QT/A	10"C							
17	DUAL II	7.8	EC	1.2	LB A/A	PRE	3	100	100	100	0	100	98
17	MARKSMAN	3.2	F	1.4	LB A/A	5"C							
18	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	97	98	98	0	95	95
18	SAN 821	5	EC	.5	LB A/A	5"C							
18	LIQUID N		L	1	QT/A	5"C							
19	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	95	98	0	97	95
19	SCORPION III	84.3	WG	.21	LB A/A	5"C							
19	ACTIVATOR 90			.25	1/2 V/V	5"C							
19	LIQUID N		L	2	QT/A	5"C							
20	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	85	97	0	100	85
20	DISTINCT	70	WG	.044	LB A/A	5"C							
20	ACTIVATOR 90			.25	LB A/A	5"C							
20	LIQUID N		L	2	QT/A	5"C							

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CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	ZEAMX	SETFA	XANST	CHEAL
Crop Code	INJURY CONTROL		CONTROL CONTROL		INJURY CONTROL		CONTROL CONTROL	
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form Amt	Fm Ds	Rate Rate	Grow Unit	Stg									
21 DUAL II	7.8	EC	1.2	LB	A/A	PRE	0	100	93	93	0	100	90	93
21 DISTINCT	70	WG	.088	LB	A/A	5"C								
21 ACTIVATOR 90			.25	LB	A/A	5"C								
21 LIQUID N		L	2	QT/A		5"C								
22 DUAL II	7.8	EC	1.2	LB	A/A	PRE	0	98	88	100	0	98	83	97
22 BASAGRAN	4	E	.75	LB	A/A	5"C								
22 ACTIVATOR 90			.25	LB	V/V	5"C								
22 LIQUID N		L	2	QT/A		5"C								
23 DUAL II	7.8	EC	1.2	LB	A/A	PRE	0	100	92	97	0	98	87	97
23 DISTINCT	70	WG	.044	LB	A/A	5"C								
23 BASAGRAN	4	E	.75	LB	A/A	5"C								
23 ACTIVATOR 90			.25	LB	V/V	5"C								
23 LIQUID N		L	2	QT/A		5"C								
24 DUAL II	7.8	EC	1.2	LB	A/A	PRE	0	100	92	98	0	100	92	98
24 DISTINCT	70	WG	.088	LB	A/A	5"C								
24 BASAGRAN	4	E	.75	LB	A/A	5"C								
24 ACTIVATOR 90			.25	LB	V/V	5"C								
24 LIQUID N		L	2	QT/A		5"C								
25 DUAL II	7.8	EC	1.2	LB	A/A	PRE	0	100	85	87	0	98	95	88
25 DISTINCT	70	WG	.044	LB	A/A	10"C								
25 ACTIVATOR 90			.25	LB	V/V	10"C								
25 LIQUID N		L	2	QT/A		10"C								
26 DUAL II	7.8	EC	1.2	LB	A/A	PRE	3	100	87	82	0	100	93	90
26 DISTINCT	70	WG	.088	LB	A/A	10"C								
26 ACTIVATOR 90			.25	LB	V/V	10"C								
26 LIQUID N		L	2	QT/A		10"C								
27 DUAL II	7.8	EC	1.2	LB	A/A	PRE	0	100	88	82	0	100	93	92
27 DISTINCT	70	WG	.175	LB	A/A	10"C								
27 ACTIVATOR 90			.25	LB	V/V	10"C								
27 LIQUID N		L	2	QT/A		10"C								
28 DUAL II	7.8	EC	1.2	LB	A/A	PRE	8	100	92	80	0	100	97	95
28 DISTINCT	70	WG	.263	LB	A/A	10"C								
28 ACTIVATOR 90			.25	LB	V/V	10"C								
28 LIQUID N		L	2	QT/A		10"C								

Dept. of Agronomy, Univ. of KY  
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CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	SETFA	XANST	CHEAL	
Crop Code	ZEAMX			ZEAMX			
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
29	DUAL II	7.8	EC	1.2	LB A/A	PRE	7	100	85	78	0	100	93	98
29	DISTINCT	70	WG	.35	LB A/A	10"C								
29	ACTIVATOR 90			.25	% V/V	10"C								
29	LIQUID N		L	2	QT/A	10"C								
30	DUAL II	7.8	EC	1.2	LB A/A	PRE	3	100	95	77	0	100	95	92
30	CLARITY	4	E	.25	LB A/A	10"C								
30	ACTIVATOR 90			.25	% V/V	10"C								
30	LIQUID N		L	2	QT/A	10"C								
31	DUAL II	7.8	EC	1.2	LB A/A	PRE	3	98	90	75	0	97	92	90
31	CLARITY	4	E	.125	LB A/A	10"C								
31	ACTIVATOR 90			.25	% V/V	10"C								
31	LIQUID N		L	2	QT/A	10"C								
32	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	97	98	82	0	97	98	82
32	BASAGRAN	4	E	.75	LB A/A	10"C								
32	ACTIVATOR 90			.25	% V/V	10"C								
32	LIQUID N		L	2	QT/A	10"C								
33	DUAL II	7.8	EC	1.2	LB A/A	PRE	7	100	93	88	0	93	93	93
33	DISTINCT	70	WG	.044	LB A/A	10"C								
33	BASAGRAN	4	E	.75	LB A/A	10"C								
33	ACTIVATOR 90			.25	% V/V	10"C								
33	LIQUID N		L	2	QT/A	10"C								
34	DUAL II	7.8	EC	1.2	LB A/A	PRE	3	98	100	88	0	98	97	97
34	DISTINCT	70	WG	.088	LB A/A	10"C								
34	BASAGRAN	4	E	.75	LB A/A	10"C								
34	ACTIVATOR 90			.25	% V/V	10"C								
34	LIQUID N		L	2	QT/A	10"C								
35	DUAL II	7.8	EC	1.2	LB A/A	PRE	7	100	97	85	0	100	98	98
35	DISTINCT	70	WG	.175	LB A/A	10"C								
35	BASAGRAN	4	E	.75	LB A/A	10"C								
35	ACTIVATOR 90			.25	% V/V	10"C								
35	LIQUID N		L	2	QT/A	10"C								
36	CHECK						0	0	0	0	0	0	0	0
	LSD (P=.05)						8.3	2.1	7.9	8.7	0.0	3.3	5.7	6.2
	Standard Deviation						5.1	1.3	4.9	5.3	0.0	2.0	3.5	3.8
	CV						232.21	1.31	5.34	5.95		2.11	3.83	4.06

CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	CHEAL
Crop Code		ZEAMX		
Part Rated				
Rating Data Type		INJURY CONTROL CONTROL CONTROL		
Rating Unit		PERCENT PERCENT PERCENT PERCENT		
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS		
PRM Data Type		P P P P		
# Subsamples, Dec.		0 0 0 0		

Trt No.	Treatment Name	Form	Fm	Rate	Grow				
		Amt	Ds	Unit	Stg				
1	FRONTIER	6	E	1.2 LB A/A	PRE	0	100	100	100
1	MARKSMAN	3.2	F	1.4 LB A/A	8"C				
2	FRONTIER	6	E	1.2 LB A/A	PRE	0	98	90	100
2	CLARITY	4	E	.5 LB A/A	5"C				
2	ACTIVATOR 90			.25 % V/V	5"C				
2	LIQUID N		L	2.5 QT/A	5"C				
3	GUARDSMAN	5	E	2.8 LB A/A	PRE	0	98	98	98
3	MARKSMAN	3.2	F	1.4 LB A/A	8"C				
4	DUAL II	7.8	EC	1.95 LB A/A	PRE	0	100	98	100
4	BUCTRIL/ATRA	3	F	.75 LB A/A	8"C				
5	DUAL II	7.8	EC	1.95 LB A/A	PRE	0	100	97	97
5	EXCEED	57	DF	.036 LB A/A	8"C				
5	COC		L	1 QT/A	8"C				
6	HARNESS	7	EC	1.6 LB A/A	PRE	0	98	97	98
6	PERMIT	75	DF	.036 LB A/A	8"C				
6	COC		L	1 QT/A	8"C				
7	FRONTIER	6	E	1.2 LB A/A	PRE	0	98	93	98
7	DISTINCT	70	WG	.263 LB A/A	5"C				
7	ACTIVATOR 90			.25 % V/V	5"C				
7	LIQUID N		L	2 QT/A	5"C				
8	SURPASS	6.4	EC	1.6 LB A/A	PRE	0	98	97	100
8	SCORPION III	84.3	WG	.21 LB A/A	5"C				
8	ACTIVATOR 90			.25 % V/V	5"C				
9	FRONTIER	6	E	1.2 LB A/A	PRE	0	100	97	97
9	DISTINCT	70	WG	.175 LB A/A	8"C				
9	ACTIVATOR 90			.25 % V/V	8"C				
9	LIQUID N		L	2 QT/A	8"C				
10	SURPASS	6.4	EC	1.6 LB A/A	PRE	0	97	88	98
10	HORNET	85.6	WG	.021 LB A/A	8"C				
10	ACTIVATOR 90			.25 % V/V	8"C				
11	FRONTIER	6	E	1.2 LB A/A	PRE	0	98	93	100
11	LADDOK	5	FL	1.04 LB A/A	8"C				
11	COC		L	1 QT/A	8"C				

CORN POSTEMERGENCE IV

Trial ID: C7016      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL
Crop Code	ZAMX		
Part Rated			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Form	Fm	Amt	Ds	Rate	Unit	Grow Stg				
12	FRONTIER	6	E	1.2	LB	A/A	PRE		0	97	97	100
12	BASAGRAN	4	E	.75	LB	A/A	8"C					
12	CLARITY	4	E	.25	LB	A/A	8"C					
12	LIQUID N		L	2	QT	A	8"C					
13	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	97	93	100
13	DISTINCT	70	WG	.175	LB	A/A	5"C					
13	ACTIVATOR 90			.25	LB	A/A	5"C					
13	LIQUID N		L	1	QT	A	5"C					
14	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	100	93	100
14	DISTINCT	70	WG	.263	LB	A/A	5"C					
14	ACTIVATOR 90			.25	LB	A/A	5"C					
14	LIQUID N		L	1	QT	A	5"C					
15	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	97	98	95
15	DISTINCT	70	WG	.175	LB	A/A	10"C					
15	ACTIVATOR 90			.25	LB	A/A	10"C					
15	LIQUID N		L	1	QT	A	10"C					
16	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	100	97	93
16	DISTINCT	70	WG	.263	LB	A/A	10"C					
16	ACTIVATOR 90			.25	LB	A/A	10"C					
16	LIQUID N		L	1	QT	A	10"C					
17	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	97	97	100
17	MARKSMAN	3.2	F	1.4	LB	A/A	5"C					
18	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	95	95	98
18	SAN 821	5	EC	.5	LB	A/A	5"C					
18	LIQUID N		L	1	QT	A	5"C					
19	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	93	97	98
19	SCORPION III	84.3	WG	.21	LB	A/A	5"C					
19	ACTIVATOR 90			.25	LB	V/V	5"C					
19	LIQUID N		L	2	QT	A	5"C					
20	DUAL II	7.8	EC	1.2	LB	A/A	PRE		0	100	85	98
20	DISTINCT	70	WG	.044	LB	A/A	5"C					
20	ACTIVATOR 90			.25	LB	A/A	5"C					
20	LIQUID N		L	2	QT	A	5"C					

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CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	CHEAL
Crop Code				
Part Rated		ZEAMX		
Rating Data Type		INJURY CONTROL CONTROL CONTROL		
Rating Unit		PERCENT PERCENT PERCENT PERCENT		
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS		
PRM Data Type		P P P P		
# Subsamples, Dec.		0 0 0 0		

Trt No.	Treatment Name	Form	Fm	Rate	Grow					
		Amt	Ds	Rate	Unit	Stg				
21	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	88	93
21	DISTINCT	70	WG	.088	LB A/A	5"C				
21	ACTIVATOR 90			.25	LB A/A	5"C				
21	LIQUID N		L	2	QT/A	5"C				
22	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	98	85	97
22	BASAGRAN	4	E	.75	LB A/A	5"C				
22	ACTIVATOR 90			.25	1/2 V/V	5"C				
22	LIQUID N		L	2	QT/A	5"C				
23	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	98	83	97
23	DISTINCT	70	WG	.044	LB A/A	5"C				
23	BASAGRAN	4	E	.75	LB A/A	5"C				
23	ACTIVATOR 90			.25	1/2 V/V	5"C				
23	LIQUID N		L	2	QT/A	5"C				
24	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	98	92	98
24	DISTINCT	70	WG	.088	LB A/A	5"C				
24	BASAGRAN	4	E	.75	LB A/A	5"C				
24	ACTIVATOR 90			.25	1/2 V/V	5"C				
24	LIQUID N		L	2	QT/A	5"C				
25	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	98	95	93
25	DISTINCT	70	WG	.044	LB A/A	10"C				
25	ACTIVATOR 90			.25	1/2 V/V	10"C				
25	LIQUID N		L	2	QT/A	10"C				
26	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	93	93
26	DISTINCT	70	WG	.088	LB A/A	10"C				
26	ACTIVATOR 90			.25	1/2 V/V	10"C				
26	LIQUID N		L	2	QT/A	10"C				
27	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	93	98
27	DISTINCT	70	WG	.175	LB A/A	10"C				
27	ACTIVATOR 90			.25	1/2 V/V	10"C				
27	LIQUID N		L	2	QT/A	10"C				
28	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	97	95
28	DISTINCT	70	WG	.263	LB A/A	10"C				
28	ACTIVATOR 90			.25	1/2 V/V	10"C				
28	LIQUID N		L	2	QT/A	10"C				

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CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	CHEAL
Crop Code		ZEAMX		
Part Rated				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow					
		Amt	Ds	Rate	Unit	Stg				
29	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	97	98
29	DISTINCT	70	WG	.35	LB A/A	10"C				
29	ACTIVATOR 90			.25	% V/V	10"C				
29	LIQUID N		L	2	QT/A	10"C				
30	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	98	95	92
30	CLARITY	4	E	.25	LB A/A	10"C				
30	ACTIVATOR 90			.25	% V/V	10"C				
30	LIQUID N		L	2	QT/A	10"C				
31	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	95	93	92
31	CLARITY	4	E	.125	LB A/A	10"C				
31	ACTIVATOR 90			.25	% V/V	10"C				
31	LIQUID N		L	2	QT/A	10"C				
32	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	97	98	83
32	BASAGRAN	4	E	.75	LB A/A	10"C				
32	ACTIVATOR 90			.25	% V/V	10"C				
32	LIQUID N		L	2	QT/A	10"C				
33	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	95	92	93
33	DISTINCT	70	WG	.044	LB A/A	10"C				
33	BASAGRAN	4	E	.75	LB A/A	10"C				
33	ACTIVATOR 90			.25	% V/V	10"C				
33	LIQUID N		L	2	QT/A	10"C				
34	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	98	97	97
34	DISTINCT	70	WG	.088	LB A/A	10"C				
34	BASAGRAN	4	E	.75	LB A/A	10"C				
34	ACTIVATOR 90			.25	% V/V	10"C				
34	LIQUID N		L	2	QT/A	10"C				
35	DUAL II	7.8	EC	1.2	LB A/A	PRE	0	100	98	98
35	DISTINCT	70	WG	.175	LB A/A	10"C				
35	BASAGRAN	4	E	.75	LB A/A	10"C				
35	ACTIVATOR 90			.25	% V/V	10"C				
35	LIQUID N		L	2	QT/A	10"C				
36	CHECK						0	30	0	0
	LSD (P=.05)						0.0	14.5	5.7	5.8
	Standard Deviation						0.0	8.9	3.5	3.6
	CV							9.24	3.79	3.8

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CORN POSTEMERGENCE IV

Trial ID: C7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1. SETFA GIANT FOXTAIL 2. XANST C. COCKLEBUR 3. CHEAL C. LAMBSQUARTER

Crop 1: ZEAMX Variety: PIONEER 3279 Planting Date: 4-30-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 58 F Soil Moisture: NORMAL Emergence Date: 5-15-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 2.9 % Sand: 9.2 % Silt: 50 % Clay: 41  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-30-97	6-4-97	6-12-97		
Time of Day:	5:00 PM	2:00 PM	4:00 PM	5:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	5" CORN	8" CORN	10" CORN		
Applic. Placement:	BROSOL	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	62 F	64 F	60 F	72 F		
% Relative Humidity:	60	72	90	90		
Wind Velocity, Unit:	2 MPH	3 MPH	2.5 MPH	3 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	58 F	62 F	61 F	70 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	50	30	30	40		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		5" C	8" C	10" C		
		3 LVS	4 LVS	6 LVS		
		5 IN	8 IN	10 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		4"	6"	10"		
		2 LVS	4 LVS	4 LV		
XANST		4"	6"	6-10"		
		4 LVS	5 LVS	6 LV		
CHEAL		2"	4"	8-10"		
		6 LVS	8 LVS	10 LV		



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## CORN POSTEMERGENCE IV

Trial ID: C7016  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		
Propellant:	CO2	CO2	CO2	CO2		

CORN POSTEMERGENCE V

Trial ID: C7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	IPOSS	XANST
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
1	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	63	58	66	61	20
1	TOUGH	3.75	EC	.235	LB A/A	MP						60
1	COC		L	1	QT/A	MP						
2	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	92	96	98	37
2	TOUGH	3.75	EC	.352	LB A/A	MP						86
2	COC		L	1	QT/A	MP						
3	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	90	98	92	37
3	TOUGH	3.75	EC	.469	LB A/A	MP						93
3	COC		L	1	QT/A	MP						
4	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	93	87	99	96	40
4	TOUGH	3.75	EC	.7	LB A/A	MP						88
4	COC		L	1	QT/A	MP						
5	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	88	82	99	99	68
5	ACTION	4.75	WP	.0036	LB A/A	MP						87
5	COC		L	1	QT/A	MP						
6	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	90	99	98	77
6	TOUGH	3.75	EC	.469	LB A/A	MP						91
6	ACTION	4.75	WP	.0036	LB A/A	MP						
6	COC		L	1	QT/A	MP						
7	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	90	99	96	72
7	TOUGH	3.75	EC	.7	LB A/A	MP						95
7	ACTION	4.75	WP	.0036	LB A/A	MP						
7	COC		L	1	QT/A	MP						
8	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	80	99	98	47
8	BEACON	75	DF	.018	LB A/A	MP						92
8	COC		L	1	QT/A	MP						
9	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	87	99	98	53
9	TOUGH	3.75	EC	.235	LB A/A	MP						93
9	BEACON	75	DF	.018	LB A/A	MP						
9	COC		L	1	QT/A	MP						
10	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	90	99	94	53
10	TOUGH	3.75	EC	.352	LB A/A	MP						93
10	BEACON	75	DF	.018	LB A/A	MP						
10	COC		L	1	QT/A	MP						

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CORN POSTEMERGENCE V

Trial ID: C7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	DATST	ABUTH	IPOSS	XANST
Crop Code							
Part Rated		ZEAMX					
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval		4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type		P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
11	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	93	90	99	95	52	96
11	TOUGH	3.75	EC	.469	LB	A/A	MP							
11	BEACON	75	DF	.018	LB	A/A	MP							
11	COC		L	1	QT/A		MP							
12	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	95	87	99	99	85	98
12	EXCEED	57	DF	.029	LB	A/A	MP							
12	COC		L	1	QT/A		MP							
13	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	90	88	99	99	83	96
13	TOUGH	3.75	EC	.235	LB	A/A	MP							
13	EXCEED	57	DF	.029	LB	A/A	MP							
13	COC		L	1	QT/A		MP							
14	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	94	92	99	99	80	99
14	TOUGH	3.75	EC	.352	LB	A/A	MP							
14	EXCEED	57	DF	.029	LB	A/A	MP							
14	COC		L	1	QT/A		MP							
15	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	96	95	99	96	73	98
15	TOUGH	3.75	EC	.469	LB	A/A	MP							
15	EXCEED	57	DF	.029	LB	A/A	MP							
15	COC		L	1	QT/A		MP							
16	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	99	99	99	99	98	99
16	BUCTRIL/ATRA	3	F	1.13	LB	A/A	MP							
16	COC		L	1	QT/A		MP							
17	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	99	99	99	99	96	99
17	TOUGH	3.75	EC	.352	LB	A/A	MP							
17	EXCEED	57	DF	.029	LB	A/A	MP							
17	AATREX	4	F	.75	LB	A/A	MP							
17	COC		L	1	QT/A		MP							
18	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	99	99	99	99	95	99
18	TOUGH	3.75	EC	.235	LB	A/A	MP							
18	BEACON	75	DF	.018	LB	A/A	MP							
18	AATREX	4	F	.75	LB	A/A	MP							
18	COC		L	1	QT/A		MP							
19	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	97	99	99	99	95	99
19	TOUGH	3.75	EC	.235	LB	A/A	MP							
19	ACTION	4.75	WP	.0036	LB	A/A	MP							
19	AATREX	4	F	.75	LB	A/A	MP							
19	COC		L	1	QT/A		MP							

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CORN POSTEMERGENCE V

Trial ID: C7017      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	DATST	ABUTH	IPOSS	XANST
Crop Code							
Part Rated		ZEAMX					
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval		4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type		P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate Rate	Grow Unit	Stg Stg				
20 CHECK						0	0	0	0
LSD (P=.05)						0.0	20.5	19.1	21.3
Standard Deviation						0.0	12.4	11.6	12.9
CV							14.12	13.65	13.98
									13.52
									16.43
									14.5

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CORN POSTEMERGENCE V

Trial ID: C7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	IPOSS	XANST
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	0 WEEKS	0 WEEKS	0 WEEKS	0 WEEKS	0 WEEKS	0 WEEKS	
							P	P	P	P	P	P	
							0	0	0	0	0	0	
1	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	63	58	66	65	0	57
1	TOUGH	3.75	EC	.235	LB A/A	MP							
1	COC		L	1	QT/A	MP							
2	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	93	90	98	99	0	88
2	TOUGH	3.75	EC	.352	LB A/A	MP							
2	COC		L	1	QT/A	MP							
3	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	90	99	96	10	91
3	TOUGH	3.75	EC	.469	LB A/A	MP							
3	COC		L	1	QT/A	MP							
4	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	90	99	98	13	93
4	TOUGH	3.75	EC	.7	LB A/A	MP							
4	COC		L	1	QT/A	MP							
5	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	92	73	99	99	43	90
5	ACTION	4.75	WP	.0036	LB A/A	MP							
5	COC		L	1	QT/A	MP							
6	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	93	88	99	99	58	91
6	TOUGH	3.75	EC	.469	LB A/A	MP							
6	ACTION	4.75	WP	.0036	LB A/A	MP							
6	COC		L	1	QT/A	MP							
7	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	90	99	99	50	96
7	TOUGH	3.75	EC	.7	LB A/A	MP							
7	ACTION	4.75	WP	.0036	LB A/A	MP							
7	COC		L	1	QT/A	MP							
8	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	95	73	99	99	57	95
8	BEACON	75	DF	.018	LB A/A	MP							
8	COC		L	1	QT/A	MP							
9	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	93	87	99	99	30	93
9	TOUGH	3.75	EC	.235	LB A/A	MP							
9	BEACON	75	DF	.018	LB A/A	MP							
9	COC		L	1	QT/A	MP							
10	DUAL II	7.8	EC	1.5	LB A/A	PRE	0	93	87	99	96	43	93
10	TOUGH	3.75	EC	.352	LB A/A	MP							
10	BEACON	75	DF	.018	LB A/A	MP							
10	COC		L	1	QT/A	MP							

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CORN POSTEMERGENCE V

Trial ID: C7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	IPOSS	XANST
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
11	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	95	90	99	99	17	96
11	TOUGH	3.75	EC	.469	LB	A/A	MP							
11	BEACON	75	DF	.018	LB	A/A	MP							
11	COC		L		1	QT/A	MP							
12	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	95	90	99	99	88	98
12	EXCEED	57	DF	.029	LB	A/A	MP							
12	COC		L		1	QT/A	MP							
13	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	93	87	99	99	85	99
13	TOUGH	3.75	EC	.235	LB	A/A	MP							
13	EXCEED	57	DF	.029	LB	A/A	MP							
13	COC		L		1	QT/A	MP							
14	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	93	92	99	99	82	99
14	TOUGH	3.75	EC	.352	LB	A/A	MP							
14	EXCEED	57	DF	.029	LB	A/A	MP							
14	COC		L		1	QT/A	MP							
15	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	95	92	99	99	83	96
15	TOUGH	3.75	EC	.469	LB	A/A	MP							
15	EXCEED	57	DF	.029	LB	A/A	MP							
15	COC		L		1	QT/A	MP							
16	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	99	99	99	99	95	99
16	BUCTRIL/ATRA	3	F	1.13	LB	A/A	MP							
16	COC		L		1	QT/A	MP							
17	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	98	99	99	99	95	99
17	TOUGH	3.75	EC	.352	LB	A/A	MP							
17	EXCEED	57	DF	.029	LB	A/A	MP							
17	AATREX	4	F	.75	LB	A/A	MP							
17	COC		L		1	QT/A	MP							
18	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	98	99	99	99	92	99
18	TOUGH	3.75	EC	.235	LB	A/A	MP							
18	BEACON	75	DF	.018	LB	A/A	MP							
18	AATREX	4	F	.75	LB	A/A	MP							
18	COC		L		1	QT/A	MP							
19	DUAL II	7.8	EC	1.5	LB	A/A	PRE	0	98	99	99	99	90	99
19	TOUGH	3.75	EC	.235	LB	A/A	MP							
19	ACTION	4.75	WP	.0036	LB	A/A	MP							
19	AATREX	4	F	.75	LB	A/A	MP							
19	COC		L		1	QT/A	MP							

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CORN POSTEMERGENCE V

Trial ID: C7017      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	ABUTH	IPOSS	XANST
Crop Code	ZEAMX					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment	Form Fm	Rate	Grow				
No. Name	Amt Ds	Rate	Unit	Stg			
20 CHECK					0	0	0
LSD (P=.05)					0.0	20.4	20.7
Standard Deviation					0.0	12.4	12.6
CV						13.97	15.03
							13.87
							13.74
							34.29
							13.84





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## CORN POSTEMERGENCE V

Trial ID: C7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
CHEAL		10 LVS				
		3-4 IN				
ABUTH		3 LVS				
		4 IN				
DATST		4 LVS				
		4-5 IN				
IPOSS		4 LVS				
		4-6 IN				

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

CORN POSTEMERGENCE IT III

Trial ID: C7010 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	XANST	IPOSS
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg						
1	LIGHTNING	70	DG	.056	LB A/A	SPK		0	83	95	85	78	53
1	LIQUID N		L	1	QT/A	SPK							
1	ACTIVATOR 90			.25	% V/V	SPK							
2	LIGHTNING	70	DG	.056	LB A/A	SPK		0	95	100	98	87	80
2	ATRAZINE	4	F	.76	LB A/A	SPK							
2	LIQUID N		L	1	QT/A	SPK							
2	ACTIVATOR 90			.25	% V/V	SPK							
3	LIGHTNING	70	DG	.056	LB A/A	SPK		0	95	100	98	92	68
3	BANVEL	4	EC	.125	LB A/A	SPK							
3	LIQUID N		L	1	QT/A	SPK							
3	ACTIVATOR 90			.25	% V/V	SPK							
4	LIGHTNING	70	DG	.056	LB A/A	SPK		2	90	100	97	88	65
4	PROWL	3.3	EC	1	LB A/A	SPK							
4	LIQUID N		L	1	QT/A	SPK							
4	ACTIVATOR 90			.25	% V/V	SPK							
5	BICEP II	5.9	F	1.8	LB A/A	PRE		0	100	100	100	90	87
5	LIGHTNING	70	DG	.056	LB A/A	MP							
5	LIQUID N		L	1	QT/A	MP							
5	ACTIVATOR 90			.25	% V/V	MP							
6	LIGHTNING	70	DG	.056	LB A/A	MP		0	100	100	100	95	87
6	LIQUID N		L	1	QT/A	MP							
6	ACTIVATOR 90			.25	% V/V	MP							
7	LIGHTNING	70	DG	.056	LB A/A	MP		0	100	100	100	93	88
7	LIQUID N		L	1	QT/A	MP							
7	SUNIT II		L	.75	QT/A	MP							
8	EXCEED	57	DF	.035	LB A/A	MP		0	100	100	100	97	92
8	ACCENT	75	WG	.016	LB A/A	MP							
8	LIQUID N		L	1	QT/A	MP							
8	ACTIVATOR 90			.25	% V/V	MP							
9	LIGHTNING	70	DG	.056	LB A/A	LLP		0	98	73	100	100	100
9	LIQUID N		L	1	QT/A	LLP							
9	ACTIVATOR 90			.25	% V/V	LLP							
10	LIGHTNING	70	DG	.056	LB A/A	LLP		0	98	75	100	100	100
10	LIQUID N		L	1	QT/A	LLP							
10	SUNIT II		L	.75	QT/A	LLP							

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CORN POSTEMERGENCE IT III

Trial ID: C7010                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	DATST	XANST	IPOSS
Crop Code	ZEAMX					
Part Rated						
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt Treatment No. Name	Form Fm Amt Ds	Rate Rate	Grow Unit Stg						
11 EXCEED	57 DF	.035 LB	A/A LLP	0	98	73	100	100	100
11 ACCENT	75 WG	.016 LB	A/A LLP						
11 LIQUID N	L	1 QT/A	LLP						
11 ACTIVATOR 90		.25 % V/V	LLP						
12 CHECK				0	0	0	0	0	0
LSD (P=.05)		1.4	5.8	5.2	4.1	4.7	13.4		
Standard Deviation		0.8	3.4	3.1	2.4	2.8	7.9		
CV		600.0	3.87	3.62	2.73	3.28	10.36		

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CORN POSTEMERGENCE IT III

Trial ID: C7010 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	XANST	IPOSS
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL CONTROL				
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT				
Rating Date					
Footnote Number					
Trt-Eval Interval	4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK				
PRM Data Type	P P P P P P				
# Subsamples, Dec.	0 0 0 0 0 0				

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg						
1 LIGHTNING	70	DG	.056	LB A/A	SPK	0	85	92	87	75	58
1 LIQUID N		L	1	QT/A	SPK						
1 ACTIVATOR 90			.25	% V/V	SPK						
2 LIGHTNING	70	DG	.056	LB A/A	SPK	0	95	100	100	87	82
2 ATRAZINE	4	F	.76	LB A/A	SPK						
2 LIQUID N		L	1	QT/A	SPK						
2 ACTIVATOR 90			.25	% V/V	SPK						
3 LIGHTNING	70	DG	.056	LB A/A	SPK	0	95	100	98	90	68
3 BANVEL	4	EC	.125	LB A/A	SPK						
3 LIQUID N		L	1	QT/A	SPK						
3 ACTIVATOR 90			.25	% V/V	SPK						
4 LIGHTNING	70	DG	.056	LB A/A	SPK	0	97	100	98	85	70
4 PROWL	3.3	EC	1	LB A/A	SPK						
4 LIQUID N		L	1	QT/A	SPK						
4 ACTIVATOR 90			.25	% V/V	SPK						
5 BICEP II	5.9	F	1.8	LB A/A	PRE	0	100	100	100	93	92
5 LIGHTNING	70	DG	.056	LB A/A	MP						
5 LIQUID N		L	1	QT/A	MP						
5 ACTIVATOR 90			.25	% V/V	MP						
6 LIGHTNING	70	DG	.056	LB A/A	MP	0	93	100	100	93	92
6 LIQUID N		L	1	QT/A	MP						
6 ACTIVATOR 90			.25	% V/V	MP						
7 LIGHTNING	70	DG	.056	LB A/A	MP	0	95	100	100	93	92
7 LIQUID N		L	1	QT/A	MP						
7 SUNIT II		L	.75	QT/A	MP						
8 EXCEED	57	DF	.035	LB A/A	MP	0	90	100	100	93	92
8 ACCENT	75	WG	.016	LB A/A	MP						
8 LIQUID N		L	1	QT/A	MP						
8 ACTIVATOR 90			.25	% V/V	MP						
9 LIGHTNING	70	DG	.056	LB A/A	LLP	0	100	77	100	100	100
9 LIQUID N		L	1	QT/A	LLP						
9 ACTIVATOR 90			.25	% V/V	LLP						
10 LIGHTNING	70	DG	.056	LB A/A	LLP	0	100	73	100	100	100
10 LIQUID N		L	1	QT/A	LLP						
10 SUNIT II		L	.75	QT/A	LLP						

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CORN POSTEMERGENCE IT III

Trial ID: C7010      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	XANST	IPOSS
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg							
11 EXCEED	57	DF	.035	LB	A/A	LLP	0	100	70	100	100	100
11 ACCENT	75	WG	.016	LB	A/A	LLP						
11 LIQUID N		L	1	QT/A		LLP						
11 ACTIVATOR 90			.25	%	V/V	LLP						
12 CHECK							0	0	0	0	0	0
LSD (P=.05)							0.0	4.9	4.9	5.5	5.7	13.2
Standard Deviation							0.0	2.9	2.9	3.2	3.3	7.8
CV								3.3	3.41	3.6	3.97	9.9

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CORN POSTEMERGENCE IT III

Trial ID: C7010      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	XANST	IPOSS
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Unit	Grow Stg						
1 LIGHTNING	70	DG	.056	LB A/A	SPK	0	92	87	95	60	67
1 LIQUID N		L	1	QT/A	SPK						
1 ACTIVATOR 90			.25	% V/V	SPK						
2 LIGHTNING	70	DG	.056	LB A/A	SPK	0	95	100	100	85	87
2 ATRAZINE	4	F	.76	LB A/A	SPK						
2 LIQUID N		L	1	QT/A	SPK						
2 ACTIVATOR 90			.25	% V/V	SPK						
3 LIGHTNING	70	DG	.056	LB A/A	SPK	0	92	100	100	73	80
3 BANVEL	4	EC	.125	LB A/A	SPK						
3 LIQUID N		L	1	QT/A	SPK						
3 ACTIVATOR 90			.25	% V/V	SPK						
4 LIGHTNING	70	DG	.056	LB A/A	SPK	0	95	100	100	75	82
4 PROWL	3.3	EC	1	LB A/A	SPK						
4 LIQUID N		L	1	QT/A	SPK						
4 ACTIVATOR 90			.25	% V/V	SPK						
5 BICEP II	5.9	F	1.8	LB A/A	PRE	0	95	99	99	93	92
5 LIGHTNING	70	DG	.056	LB A/A	MP						
5 LIQUID N		L	1	QT/A	MP						
5 ACTIVATOR 90			.25	% V/V	MP						
6 LIGHTNING	70	DG	.056	LB A/A	MP	0	92	99	99	93	90
6 LIQUID N		L	1	QT/A	MP						
6 ACTIVATOR 90			.25	% V/V	MP						
7 LIGHTNING	70	DG	.056	LB A/A	MP	0	93	99	99	88	90
7 LIQUID N		L	1	QT/A	MP						
7 SUNIT II		L	.75	QT/A	MP						
8 EXCEED	57	DF	.035	LB A/A	MP	0	92	99	99	90	90
8 ACCENT	75	WG	.016	LB A/A	MP						
8 LIQUID N		L	1	QT/A	MP						
8 ACTIVATOR 90			.25	% V/V	MP						
9 LIGHTNING	70	DG	.056	LB A/A	LLP	0	99	95	99	99	90
9 LIQUID N		L	1	QT/A	LLP						
9 ACTIVATOR 90			.25	% V/V	LLP						
10 LIGHTNING	70	DG	.056	LB A/A	LLP	0	99	95	99	98	92
10 LIQUID N		L	1	QT/A	LLP						
10 SUNIT II		L	.75	QT/A	LLP						

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CORN POSTEMERGENCE IT III

Trial ID: C7010                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	DATST	XANST	IPOSS
Crop Code	ZEAMX				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Unit	Grow						
No. Name	Amt	Ds	Rate	Unit	Stg						
11 EXCEED	57	DF	.035	LB A/A	LLP	0	96	93	99	99	88
11 ACCENT	75	WG	.016	LB A/A	LLP						
11 LIQUID N		L	1	QT/A	LLP						
11 ACTIVATOR 90			.25	¢ V/V	LLP						
12 CHECK						0	0	0	0	0	0
LSD (P=.05)			0.0			4.0	11.4	4.2	16.2		9.3
Standard Deviation			0.0			2.4	6.8	2.5	9.5		5.5
CV			.			2.74	7.61	2.76	12.0		6.93

CORN POSTEMERGENCE IT III

Trial ID: C7010                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL    2.CHEAL C.LAMBSQUARTERS    3.DATST JIMSONWEED  
4.XANST C. COCKLEBUR        5.PHBPU T. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN    Variety: GARST 8541 IT        Planting Date: 4-30-97  
Planting Method: ROWS                      Rate: 25,000 P/A              Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 60    F Soil Moisture: NORMAL        Emergence Date: 5-14-97

Plot Width, Unit: 5        FT        Plot Length, Unit: 44        FT        Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL        Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 2.5    % Sand: 6.7    % Silt: 63    % Clay: 30  
pH: 6.3    CEC: 17    Soil Name: MAURY                      Fertility Level: HIGH

Overall Moisture Conditions: HIGH EARLY LOW LATE  
Closest Weather Station: SPINDLETOP FARM                      Distance: 1        Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-16-97	5-30-97	6-12-97		
Time of Day:	3 PM	1 PM	2 PM	1 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	SPK	MP	LLP		
Applic. Placement:	SURFAC					
Air Temp., Unit:	72 F	61 F	70 F	75 F		
% Relative Humidity:	80	60	50	60		
Wind Velocity, Unit:	6 MPH	3 MPH	3 MPH	3 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	60 F	60 F	65 F	65 F		
Soil Moisture:	ADEQUATE	ADEQUATE	EXCESSIVE	EXCESSIVE		
% Cloud Cover:	20	30	30	20		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		SPK	MP	LLP		
			V-1	V3-V4		
			6 IN	12 IN		



CORN POSTEMERGENCE IT III

Trial ID: C7010                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		SPK	MP	LLP		
		1 LF	2 LVS	5 LVS		
		.5 IN	3 IN	8 IN		
CHEAL		COT	6 LVS	10 LVS		
		1 IN	2 IN	4-6 IN		
DATST		COT	2 LVS	4 LVS		
		.5 IN	4 IN	6 IN		
XANST		COT	3 LVS	5 LVS		
		.5 IN	4 IN	4-6 IN		
PHBPU		COT	1 LF	3 LVS		
		.5 IN	3 IN	5 IN		

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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CORN POSTEMERGENCE IT IV

Trial ID: C7013 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	IPOHE	ZEAMX	SETFA	XANST	IPOHE
Crop Code								
Part Rated								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	2WEEK	2WEEK	2WEEK	2WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	ZEAMX	SETFA	XANST	IPOHE	ZEAMX	SETFA	XANST	IPOHE	
1 LIGHTNING	70	DG	.056	LB	A/A	MP	8	98	92	95	7	95	92	95
1 LIQUID N		L	1	QT/A		MP								
1 ACTIVATOR 90			.25	%	V/V	MP								
2 LIGHTNING	70	DG	.056	LB	A/A	MP	5	100	97	95	3	98	97	95
2 BANVEL	4	EC	.125	LB	A/A	MP								
2 LIQUID N		L	1	QT/A		MP								
2 ACTIVATOR 90			.25	%	V/V	MP								
3 BICEP II	5.9	F	3.6	LB	A/A	PRE	0	98	80	88	0	98	75	87
4 DUAL II	7.8	EC	2	LB	A/A	PRE	0	98	95	97	0	98	95	97
4 MARKSMAN	3.2	F	1.2	LB	A/A	MP								
5 EXCEED	57	DF	.035	LB	A/A	MP	8	100	97	95	0	93	97	95
5 ACCENT	75	WG	.016	LB	A/A	MP								
5 LIQUID N		L	1	QT/A		MP								
5 ACTIVATOR 90			.25	%	V/V	MP								
6 CHECK							0	0	0	0	0	0	0	0
LSD (P=.05)							8.4	4.1	6.8	2.9	5.8	5.7	12.8	4.6
Standard Deviation							4.6	2.2	3.8	1.6	3.2	3.1	7.0	2.5
CV							128.07	2.71	4.91	2.02	189.74	3.87	9.25	3.24

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CORN POSTEMERGENCE IT IV

Trial ID: C7013 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	IPOHE
Crop Code		ZEAMX		
Part Rated				
Rating Data Type		INJURY CONTROL CONTROL CONTROL		
Rating Unit		PERCENT PERCENT PERCENT PERCENT		
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEK 8 WEEK 8 WEEK 8 WEEK		
PRM Data Type		P P P P		
# Subsamples, Dec.		0 0 0 0		

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg				
1	LIGHTNING	70	DG	.056	LB A/A	MP		3	95	92	95
1	LIQUID N		L	1	QT/A	MP					
1	ACTIVATOR 90			.25	% V/V	MP					
2	LIGHTNING	70	DG	.056	LB A/A	MP		0	98	97	95
2	BANVEL	4	EC	.125	LB A/A	MP					
2	LIQUID N		L	1	QT/A	MP					
2	ACTIVATOR 90			.25	% V/V	MP					
3	BICEP II	5.9	F	3.6	LB A/A	PRE		0	98	75	85
4	DUAL II	7.8	EC	2	LB A/A	PRE		0	98	95	97
4	MARKSMAN	3.2	F	1.2	LB A/A	MP					
5	EXCEED	57	DF	.035	LB A/A	MP		0	93	97	95
5	ACCENT	75	WG	.016	LB A/A	MP					
5	LIQUID N		L	1	QT/A	MP					
5	ACTIVATOR 90			.25	% V/V	MP					
6	CHECK							0	0	0	0
	LSD (P=.05)							4.3	5.7	12.8	4.3
	Standard Deviation							2.4	3.1	7.0	2.4
	CV							424.26	3.87	9.25	3.03

CORN POSTEMERGENCE IT IV

Trial ID: C7013 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.XANST C. COCKLEBUR 3.IPOHE I. MORNINGGLORY  
Crop 1: ZEAMX FIELD CORN Variety: GARST 8541 IT Planting Date: 4-30-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-15-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-30-97				
Time of Day:	4:00 PM	2:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	62 F	64 F				
% Relative Humidity:	70	75				
Wind Velocity, Unit:	4 MPH	3 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	58 F	60 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	40	20				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP 3 LVS 6 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP 3 LVS 2-4 IN				
XANST		4 LVS 4 IN				
IPOHE		1-2 LVS 2 IN				

## CORN POSTEMERGENCE IT IV

Trial ID: C7013

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				

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CORN POSTEMERGENCE IT JOHNSONGRASS

Trial ID: C7023 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMA	CHEAL	SORHA	ZEAMA	CHEAL	SORHA	ZEAMA	CHEAL	SORHA
Crop Code									
Part Rated									
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Footnote Number									
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow											
	Amt	Ds	Rate	Unit	Stg										
1 LIGHTNING	70	DG	.056	LB	A/A	MP	12	93	92	0	92	92	0	90	90
1 ACTIVATOR 90			.25	%	V/V	MP									
1 LIQUID N		L	1	QT/A	MP										
2 LIGHTNING	70	DG	.056	LB	A/A	LP	10	53	90	0	68	93	0	88	87
2 ACTIVATOR 90			.25	%	V/V	LP									
2 LIQUID N		L	1	QT/A	LP										
3 LIGHTNING	70	DG	.056	LB	A/A	MP	15	93	98	0	93	98	0	93	90
3 SUNIT		L	.75	QT/A	MP										
3 LIQUID N		L	1	QT/A	MP										
4 LIGHTNING	70	DG	.056	LB	A/A	LP	18	52	88	0	58	90	0	85	90
4 SUNIT		L	.75	QT/A	LP										
4 LIQUID N		L	1	QT/A	LP										
5 EXCEED	57	DF	.035	LB	A/A	MP	12	87	93	0	90	93	0	88	92
5 ACCENT	75	WG	.023	LB	A/A	MP									
5 ACTIVATOR 90			.25	%	V/V	MP									
6 RESOLVE	75	SG	.251	LB	A/A	MP	12	90	90	0	92	90	0	93	92
6 ACCENT	75	WG	.015	LB	A/A	MP									
6 ACTIVATOR 90			.25	%	V/V	MP									
6 LIQUID N		L	1	QT/A	MP										
7 RESOLVE	75	SG	.251	LB	A/A	LP	18	60	92	0	75	92	0	90	95
7 ACCENT	75	WG	.015	LB	A/A	LP									
7 ACTIVATOR 90			.25	%	V/V	LP									
7 LIQUID N		L	1	QT/A	LP										
8 CHECK							0	0	0	0	0	0	0	0	0
LSD (P=.05)							7.5	8.8	12.2	0.0	12.9	10.3	0.0	6.3	9.4
Standard Deviation							4.3	5.0	6.9	0.0	7.3	5.9	0.0	3.6	5.4
CV							35.41	7.64	8.63	.	10.35	7.23	.	4.61	6.79

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CORN POSTEMERGENCE IT JOHNSONGRASS

Trial ID: C7023 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS 2.CHEAL C.LAMBSQUARTERS

Crop 1: ZEAMX FIELD CORN Variety: GARST 8541 IT Planting Date: 5-7-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-20-97

Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.4 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY

Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-4-97	6-13-97				
Time of Day:	2:00 PM	11:30 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	MP	LP				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	60 F	72 F				
% Relative Humidity:	91	92				
Wind Velocity, Unit:	5 MPH	6 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	65 F	72 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	60	50				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	MP	LP				
Stage Scale:	V1	V3				
Height, Unit:	8 IN	14 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	MP	LP				
Stage Scale:	2 LVS	5 LVS				
Density, Unit:	8 IN	12 IN				
CHEAL						
Stage Scale:	6 LVS	10-15 LVS				
Density, Unit:	2 IN	12 IN				

## CORN POSTEMERGENCE IT JOHNSONGRASS

Trial ID: C7023                      Investigator:  
 Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				



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CORN POSTEMERGENCE LIBERTY

Trial ID: C7020 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	XANST	IPOHE	ZEAMX	SETFA	CHEAL	XANST	IPOHE	
Crop Code	ZEAMX		ZEAMX							
Part Rated										
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date										
Footnote Number										
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow											
		Amt	Ds	Rate	Unit	Stg										
1	LIBERTY	1.67	E	.27	LB	A/A MP	0	100	100	100	100	0	97	100	93	93
1	AATREX	4	F	.75	LB	A/A MP										
1	AMS	100	SG		3	LB A/A MP										
2	LIBERTY	1.67	E	.27	LB	A/A MP	0	100	100	100	100	0	90	100	80	70
2	AMS	100	SG		3	LB A/A MP										
2	LIBERTY	1.67	E	.27	LB	A/A IFN										
2	AMS	100	SG		3	LB A/A IFN										
3	AATREX	4	F	.75	LB	A/A PRE	0	100	100	97	97	0	90	100	80	80
3	LIBERTY	1.67	E	.27	LB	A/A MP										
3	AMS	100	SG		3	LB A/A MP										
4	AATREX	4	F	.75	LB	A/A PRE	0	100	100	100	97	0	90	100	80	77
4	LIBERTY	1.67	E	.36	LB	A/A MP										
4	AMS	100	SG		3	LB A/A MP										
5	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	100	100	100	100	0	100	100	83	80
5	LIBERTY	1.67	E	.27	LB	A/A MP										
5	AMS	100	SG		3	LB A/A MP										
6	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	100	100	100	97	0	100	100	80	80
6	LIBERTY	1.67	E	.36	LB	A/A MP										
6	AMS	100	SG		3	LB A/A MP										
7	LIBERTY	1.67	E	.36	LB	A/A MP	0	100	100	100	100	0	87	100	80	77
7	COC		L		1	QT/A MP										
7	AMS	100	SG		3	LB A/A MP										
8	RESOURCE	.86	EC	.027	LB	A/A MP	10	100	100	100	100	3	87	100	83	83
8	LIBERTY	1.67	E	.36	LB	A/A MP										
8	COC		L		1	QT/A MP										
8	AMS	100	SG		3	LB A/A MP										
9	LIBERTY	1.67	E	.36	LB	A/A LP	0	100	100	100	100	0	100	100	90	90
9	COC		L		1	QT/A LP										
9	AMS	100	SG		3	LB A/A LP										
10	RESOURCE	.86	EC	.027	LB	A/A LP	27	100	100	100	100	13	100	100	97	97
10	LIBERTY	1.67	E	.36	LB	A/A LP										
10	COC		L		1	QT/A LP										
10	AMS	100	SG		3	LB A/A LP										

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C7020      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	KANST	IPOHE	ZEAMX	SETFA	CHEAL	KANST	IPOHE
Crop Code										
Part Rated										
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date										
Footnote Number										
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Unit	Grow									
	Amt	Ds	Rate	Unit	Stg									
11 LIBERTY	1.67	E	.36	LB A/A	LLP	0	100	100	100	100	0	100	100	100
11 COC		L	1	QT/A	LLP									
11 AMS	100	SG	3	LB A/A	LLP									
12 RESOURCE	.86	EC	.027	LB A/A	LLP	30	100	100	100	100	27	100	100	100
12 LIBERTY	1.67	E	.36	LB A/A	LLP									
12 COC		L	1	QT/A	LLP									
12 AMS	100	SG	3	LB A/A	LLP									
13 ACCENT	75	WG	.031	LB A/A	MP	0	100	100	100	90	0	100	100	93
13 BUCTRIL/ATRA	3	F	.75	LB A/A	MP									
13 ACTIVATOR 90			.25	% V/V	MP									
13 LIQUID N		L	1	QT/A	MP									
14 BICEP II	5.9	F	3.6	LB A/A	PRE	0	100	100	87	83	0	100	100	73
LSD (P=.05)	2.6		0.0	0.0		3.7	4.7	4.6	4.7	4.7	0.0	9.4	7.2	
Standard Deviation	1.5		0.0	0.0		2.2	2.8	2.7	2.8	2.8	0.0	5.6	4.3	
CV	32.4		0.0	0.0		2.25	2.88	88.53	2.9	2.9	0.0	6.49	5.05	

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C7020 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	XANST	IPOHE	ZEAMX	SETFA	CHEAL	XANST	IPOHE
Crop Code	INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL				
Part Rated	PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT				
Rating Data Type	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS					8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS				
Rating Unit	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form	Fm	Rate	Grow											
		Amt	Ds	Rate	Unit	Stg										
1	LIBERTY	1.67	E	.27	LB	A/A MP	0	87	100	93	90	0	80	100	87	83
1	AATREX	4	F	.75	LB	A/A MP										
1	AMS	100	SG	3	LB	A/A MP										
2	LIBERTY	1.67	E	.27	LB	A/A MP	0	90	100	97	87	0	90	100	97	87
2	AMS	100	SG	3	LB	A/A MP										
2	LIBERTY	1.67	E	.27	LB	A/A IFN										
2	AMS	100	SG	3	LB	A/A IFN										
3	AATREX	4	F	.75	LB	A/A PRE	0	73	100	70	67	0	63	100	57	53
3	LIBERTY	1.67	E	.27	LB	A/A MP										
3	AMS	100	SG	3	LB	A/A MP										
4	AATREX	4	F	.75	LB	A/A PRE	0	70	100	67	70	0	60	100	60	60
4	LIBERTY	1.67	E	.36	LB	A/A MP										
4	AMS	100	SG	3	LB	A/A MP										
5	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	93	100	63	60	0	93	100	57	60
5	LIBERTY	1.67	E	.27	LB	A/A MP										
5	AMS	100	SG	3	LB	A/A MP										
6	DUAL II	7.8	EC	1.5	LB	A/A PRE	0	100	100	67	67	0	97	100	57	57
6	LIBERTY	1.67	E	.36	LB	A/A MP										
6	AMS	100	SG	3	LB	A/A MP										
7	LIBERTY	1.67	E	.36	LB	A/A MP	0	67	100	63	67	0	57	100	53	53
7	COC	L		1	QT/A	MP										
7	AMS	100	SG	3	LB	A/A MP										
8	RESOURCE	.86	EC	.027	LB	A/A MP	0	60	100	70	73	0	53	100	57	57
8	LIBERTY	1.67	E	.36	LB	A/A MP										
8	COC	L		1	QT/A	MP										
8	AMS	100	SG	3	LB	A/A MP										
9	LIBERTY	1.67	E	.36	LB	A/A LP	0	80	100	85	80	0	75	100	75	70
9	COC	L		1	QT/A	LP										
9	AMS	100	SG	3	LB	A/A LP										
10	RESOURCE	.86	EC	.027	LB	A/A LP	3	77	100	83	87	0	70	100	73	70
10	LIBERTY	1.67	E	.36	LB	A/A LP										
10	COC	L		1	QT/A	LP										
10	AMS	100	SG	3	LB	A/A LP										

CORN POSTEMERGENCE LIBERTY

Trial ID: C7020      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	XANST	IPOHE	SETFA	CHEAL	XANST	IPOHE	
Crop Code	ZEAMX				ZEAMX				
Part Rated									
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Footnote Number									
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow											
	Amt	Ds	Rate	Unit	Stg										
11 LIBERTY	1.67	E	.36	LB A/A	LLP	0	90	100	97	90	0	87	93	90	83
11 COC		L	1	QT/A	LLP										
11 AMS	100	SG	3	LB A/A	LLP										
12 RESOURCE	.86	EC	.027	LB A/A	LLP	0	90	97	90	90	0	80	97	87	77
12 LIBERTY	1.67	E	.36	LB A/A	LLP										
12 COC		L	1	QT/A	LLP										
12 AMS	100	SG	3	LB A/A	LLP										
13 ACCENT	75	WG	.031	LB A/A	MP	0	90	100	93	87	0	83	100	77	73
13 BUCTRIL/ATRA	3	F	.75	LB A/A	MP										
13 ACTIVATOR 90			.25	% V/V	MP										
13 LIQUID N		L	1	QT/A	MP										
14 BICEP II	5.9	F	3.6	LB A/A	PRE	0	100	100	67	60	0	100	100	60	57
LSD (P=.05)			2.6				6.9	2.6	11.8	10.1	0.0	8.4	3.6	10.8	9.3
Standard Deviation			1.5				4.1	1.5	7.0	6.0	0.0	5.0	2.1	6.5	5.5
CV			648.07				4.95	1.55	8.88	7.87	.	6.47	2.16	9.18	8.24

CORN POSTEMERGENCE LIBERTY

Trial ID: C7020                      Investigator:  
Location: LEXINGTON, KY.              Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA	MP	LP	LLP			
	2 LVS	3 LVS	4 LVS			
	4 IN	3-4 IN	10 IN			
CHEAL	6 LVS	6 LVS	10 LVS			
	2 IN	5 IN	8-10 IN			
XANST	4 LVS	5 LVS	6 LVS			
	4 IN	6 IN	6-10 IN			
IPOSS	2 LVS	3 LVS	3 LVS			
	4 IN	6 IN	6 IN			

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

CORN POSTEMERGENCE LIBERTY

Trial ID: C7020                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 4-30-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL C.LAMBSQUARTERS 3.XANST C. COCKLEBUR  
4.IPOSS MORNINGGLORY

Crop 1: ZEAMX FIELD CORN    Variety: PIONEER 34A55 LL    Planting Date: 4-30-97  
Planting Method: ROW                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 58 F    Soil Moisture: NORMAL                      Emergence Date: 5-15-97

Plot Width, Unit: 5 FT    Plot Length, Unit: 44 FT    Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 3                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5    CEC: 17    Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP                      Distance: 1.5    Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-97	5-30-97	6-4-97	6-12-97		
Time of Day:	3:00 PM	1:00 PM	5:00 PM	12:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	LP	LLP		
Applic. Placement:	BROSOL	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	61 F	64 F	61 F	71 F		
% Relative Humidity:	88	92	91	93		
Wind Velocity, Unit:	3 MPH	3 MPH	5 MPH	4 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	61 F	63 F	64 F	71 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	40	40	60	70		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP	LP	LLP		
		V 1	V-2	V3-V4		
		6 IN	8 IN	12 IN		

CORN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: C7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SORHA			CHEAL			SORHA			CHEAL		
Crop Code	ZEAMX			ZEAMX			ZEAMX			ZEAMX		
Part Rated	INJURY CONTROL CONTROL			INJURY CONTROL CONTROL			INJURY CONTROL CONTROL			INJURY CONTROL CONTROL		
Rating Data Type	PERCENT PERCENT PERCENT			PERCENT PERCENT PERCENT			PERCENT PERCENT PERCENT			PERCENT PERCENT PERCENT		
Rating Unit												
Rating Date												
Footnote Number												
Trt-Eval Interval	2 WEEK			2 WEEKS			4 WEEK			4 WEEKS		
PRM Data Type	P			P			P			P		
# Subsamples, Dec.	0			0			0			0		

Trt Treatment No. Name	Form	Fm	Rate	Grow											
	Amt	Ds	Rate	Unit	Stg										
1 LIBERTY	1.67	E	.36	LB	A/A	12J	0	68	95	0	68	95	0	80	95
1 AMS	100	SG	3	LB	A/A	12J									
2 LIBERTY	1.67	E	.27	LB	A/A	12J	0	72	82	0	72	82	0	67	78
2 AMS	100	SG	3	LB	A/A	12J									
3 LIBERTY	1.67	E	.27	LB	A/A	12J	0	75	92	0	75	92	0	73	92
3 AMS	100	SG	3	LB	A/A	12J									
3 LIBERTY	1.67	E	.27	LB	A/A	20"C									
3 AMS	100	SG	3	LB	A/A	20"C									
4 DUAL II	7.8	EC	1.95	LB	A/A	PRE	0	75	93	0	75	93	0	85	95
4 LIBERTY	1.67	E	.27	LB	A/A	12J									
4 AMS	100	SG	3	LB	A/A	12J									
5 AATREX	4	F	1.5	LB	A/A	PRE	0	75	93	0	75	93	0	72	93
5 LIBERTY	1.67	E	.36	LB	A/A	12J									
5 AMS	100	SG	3	LB	A/A	12J									
6 LIBERTY	1.67	E	.27	LB	A/A	12J	0	93	85	0	93	85	0	85	83
6 ACCENT	75	WG	.016	LB	A/A	12J									
6 COC		L	1	QT/A		12J									
6 AMS	100	SG	3	LB	A/A	12J									
7 ACCENT	75	WG	.016	LB	A/A	12J	0	85	83	0	85	83	0	73	78
7 BEACON	75	DF	.018	LB	A/A	12J									
7 COC		L	1	QT/A		12J									
8 EXCEED	57	DF	.018	LB	A/A	12J	0	95	90	0	95	90	0	95	90
8 ACCENT	75	WG	.016	LB	A/A	12J									
8 COC		L	1	QT/A		12J									
LSD (P=.05)							0.0	23.6	12.5	0.0	23.6	12.5	0.0	23.5	16.2
Standard Deviation							0.0	13.5	7.2	0.0	13.5	7.2	0.0	13.4	9.3
CV								16.91	8.04		16.91	8.04		17.03	10.51

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: C7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS 2.CHEAL C.LAMBSQUARTERS  
Crop 1: ZEAMX FIELD CORN Variety: PIONEER 34A55 LL Planting Date: 5-7-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-20-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-4-97	7-8-97			
Time of Day:	4:00 PM	1:00 PM	2:30 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	12" J	20" C			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	54 F	60 F	72 F			
% Relative Humidity:	73	92	88			
Wind Velocity, Unit:	4 MPH	5 MPH	6 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	55 F	62 F	74 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	70	60	40			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		12"J	20"C			
		V-1	V-3			
		8 IN	20 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		12"J	20"C			
		3 LVS	2 LVS			
		12 IN	8 IN			
CHEAL		>10 LVS	4 LVS			
		2-3 IN	4 IN			



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: C7021                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004 DG	8004 DG	8004 DG			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN			
Boom Length, Unit:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			

CORN POSTEMERGENCE ROUNDUP

Trial ID: C7025 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	IPOHE	ZEAMX	SETFA	CHEAL	IPOHE	XANST
Crop Code	ZEAMX			ZEAMX				
Part Rated								
Rating Data Type	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL
Rating Unit	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS
PRM Data Type	P P P P	P P P P	P P P P	P P P P	P P P P	P P P P	P P P P	P P P P
# Subsamples, Dec.	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow									
		Amt	Ds			Stg									
1	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	87	97	80	3	77	90	70	67
2	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	83	100	80	0	63	87	60	67
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	100	100	90	0	90	100	80	73
3	HARNES	7	EC	1.5	LB A/A	MP									
4	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	97	100	93	10	90	97	90	83
4	PERMIT	75	DF	.032	LB A/A	MP									
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	0	100	100	80	0	90	100	73	80
5	HARNES XTRA	5.6	EC	2.33	LB A/A	MP									
6	HARNES	7	EC	2	LB A/A	PRE	3	97	97	93	0	83	87	90	80
6	ROUNDUP ULTRA	4	AS	1	LB A/A	MP									
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	97	100	90	0	90	100	87	83
7	AATREX	4	F	1	LB A/A	MP									
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	100	100	90	3	90	100	73	87
8	HARNES	7	EC	1	LB A/A	MP									
8	PERMIT	75	DF	.032	LB A/A	MP									
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	100	100	97	0	87	100	83	87
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	+2W									
10	ACCENT	75	WG	.031	LB A/A	MP	0	97	93	87	0	83	90	73	87
10	BANVEL	4	EC	.25	LB A/A	MP									
10	ACTIVATOR 90			.25	qt V/V	MP									
10	LIQUID N.		L	4	QT/A	MP									
11	ACCENT	75	WG	.016	LB A/A	MP	13	97	87	80	3	87	73	77	70
11	BEACON	75	DF	.018	LB A/A	MP									
11	COC		L	1	QT/A	MP									
12	EXCEED	57	DF	.036	LB A/A	MP	13	83	90	90	17	77	90	90	87
12	COC		L	1	QT/A	MP									
13	DUAL II	7.8	EC	2	LB A/A	PRE	0	100	100	93	0	100	100	90	90
13	MARKSMAN	3.2	F	1.4	LB A/A	MP									
14	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	100	97	77	0	90	97	77	50
15	BICEP II	5.9	F	3.6	LB A/A	PRE	0	100	93	90	0	93	87	83	63

CORN POSTEMERGENCE ROUNDUP

Trial ID: C7025                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	IPOHE	SETFA	CHEAL	IPOHE	XANST
Crop Code	ZEAMX		ZEAMX				
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow											
No. Name	Amt	Ds	Rate	Unit	Stg										
16 HARNESS XTRA	5.6	EC	3.22	LB	A/A	PRE	0	100	97	93	0	83	97	93	60
17 BASIS GOLD	89.5	DF	.79	LB	A/A	MP	7	100	100	100	7	90	100	93	83
17 COC		L		1	QT/A	MP									
17 LIQUID N		L		2	QT/A	MP									
18 CHECK							0	0	0	0	0	0	0	0	0
LSD (P=.05)							8.9	7.4	6.0	16.8	8.5	9.3	9.7	20.1	12.8
Standard Deviation							5.3	4.4	3.6	10.1	5.1	5.6	5.8	12.0	7.7
CV							169.05	4.86	3.89	12.04	211.95	6.88	6.58	15.67	10.7

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CORN POSTEMERGENCE ROUNDUP

Trial ID: C7025      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	IPOHE	XANST
Crop Code	ZEAMX			
Part Rated				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
1	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	70	90	60	50
2	ROUNDUP ULTRA	4	AS	1	LB	A/A MP	0	60	80	47	53
3	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	87	100	77	60
3	HARNES	7	EC	1.5	LB	A/A MP					
4	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	73	97	80	77
4	PERMIT	75	DF	.032	LB	A/A MP					
5	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	83	100	63	63
5	HARNES XTRA	5.6	EC	2.33	LB	A/A MP					
6	HARNES	7	EC	2	LB	A/A PRE	0	80	87	73	73
6	ROUNDUP ULTRA	4	AS	1	LB	A/A MP					
7	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	83	100	77	73
7	AATREX	4	F	1	LB	A/A MP					
8	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	87	100	60	77
8	HARNES	7	EC	1	LB	A/A MP					
8	PERMIT	75	DF	.032	LB	A/A MP					
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	87	100	80	77
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A +2W					
10	ACCENT	75	WG	.031	LB	A/A MP	0	80	90	50	83
10	BANVEL	4	EC	.25	LB	A/A MP					
10	ACTIVATOR 90			.25	%	V/V MP					
10	LIQUID N		L	4	QT/A	MP					
11	ACCENT	75	WG	.016	LB	A/A MP	0	83	67	53	67
11	BEACON	75	DF	.018	LB	A/A MP					
11	COC		L	1	QT/A	MP					
12	EXCEED	57	DF	.036	LB	A/A MP	3	63	87	83	83
12	COC		L	1	QT/A	MP					
13	DUAL II	7.8	EC	2	LB	A/A PRE	0	100	100	87	90
13	MARKSMAN	3.2	F	1.4	LB	A/A MP					
14	GUARDSMAN	5	E	2.8	LB	A/A PRE	0	87	97	70	63
15	BICEP II	5.9	F	3.6	LB	A/A PRE	0	93	87	73	53

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CORN POSTEMERGENCE ROUNDUP

Trial ID: C7025      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	IPOHE	XANST
Crop Code	ZEAMX			
Part Rated				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
		Amt	Ds	Rate	Unit	Stg	P	P	P	P	P
16	HARNESX XTRA	5.6	EC	3.22	LB	A/A PRE	0	73	97	83	60
17	BASIS GOLD	89.5	DF	.79	LB	A/A MP	3	90	100	93	77
17	COC		L	1	QT/A	MP					
17	LIQUID N		L	2	QT/A	MP					
18	CHECK						0	0	0	0	0
	LSD (P=.05)						3.3	13.2	11.1	22.3	16.1
	Standard Deviation						2.0	7.9	6.7	13.4	9.7
	CV						527.2	10.31	7.6	19.93	14.77

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## CORN POSTEMERGENCE ROUNDUP

Trial ID: C7025                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	+2 WK			
		3 LVS	1 LF			
		2 IN	2 IN			
XANST		3 LVS	2 LVS			
		4 IN	2 IN			
CHEAL		6 LVS	4 LVS			
		2.5 IN	1 IN			
IPOSS		2 LF	1 LF			
		2 IN	2 IN			

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004	8004	8004			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN			
Boom Length, Unit:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			

CORN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: C7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SORHA	CHEAL	SORHA	CHEAL	SORHA	CHEAL	SORHA	CHEAL
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX	
Part Rated	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit								
Rating Date								
Footnote Number								
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow							
		Amt	Ds			Stg							
1	HARNES	7	EC	2	LB A/A	PRE	0	77	100	0	70	100	0
1	ROUNDUP ULTRA	4	AS	1	LB A/A	8J							50
2	HARNES XTRA	5.6	EC	3.22	LB A/A	PRE	0	83	100	0	78	100	0
2	ROUNDUP ULTRA	4	AS	1	LB A/A	8J							65
3	HARNES	7	EC	2	LB A/A	PRE	0	88	100	0	83	97	0
3	ROUNDUP ULTRA	4	AS	1.5	LB A/A	16J							75
4	HARNES XTRA	5.6	EC	3.22	LB A/A	PRE	0	92	100	0	85	100	0
4	ROUNDUP ULTRA	4	AS	1.5	V/V	16J							82
5	HARNES	7	EC	1.33	LB A/A	8J	0	80	100	0	78	97	0
5	ROUNDUP ULTRA	4	AS	1	LB A/A	8J							57
6	HARNES XTRA	5.6	EC	2.2	LB A/A	8J	0	80	100	0	77	100	0
6	ROUNDUP ULTRA	4	AS	1	LB A/A	8J							70
7	BICEP II	5.9	F	3.6	LB A/A	PRE	0	88	100	0	90	100	0
7	ACCENT	75	WG	.031	LB A/A	16J							88
7	COC		L	1	QT/A	16J							
7	LIQUID N		L	1	QT/A	16J							
8	BICEP II	5.9	F	3.6	LB A/A	PRE	0	87	100	0	85	100	0
8	EXCEED	57	DF	.036	LB A/A	16J							85
8	COC		L	1	QT/A	16J							
8	LIQUID N		L	1	QT/A	16J							
9	PRINCEP	4	F	1.5	LB A/A	PRE	0	92	100	0	95	100	0
9	AATREX	4	F	1	LB A/A	PRE							95
9	ACCENT	75	WG	.031	LB A/A	16J							
9	COC		L	1	QT/A	16J							
9	LIQUID N		L	1	QT/A	16J							
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	16J	0	85	82	0	78	88	0
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	+2W							77
11	ACCENT	75	WG	.016	LB A/A	16J	3	93	52	0	90	47	0
11	BEACON	75	DF	.018	LB A/A	16J							90
11	COC		L	1	QT/A	16J							30
12	CHECK						0	0	0	0	0	0	0

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CORN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: C7019                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SORHA			CHEAL			SORHA			CHEAL		
Crop Code	ZEAMX			ZEAMX			ZEAMX			ZEAMX		
Part Rated	INJURY CONTROL			CONTROL			INJURY CONTROL			CONTROL		
Rating Data Type	PERCENT			PERCENT			PERCENT			PERCENT		
Rating Unit	PERCENT			PERCENT			PERCENT			PERCENT		
Rating Date	PERCENT			PERCENT			PERCENT			PERCENT		
Footnote Number	PERCENT			PERCENT			PERCENT			PERCENT		
Trt-Eval Interval	2 WEEKS			2 WEEKS			4 WEEKS			4 WEEKS		
PRM Data Type	P			P			P			P		
# Subsamples, Dec.	0			0			0			0		

Trt Treatment	Form	Fm	Rate	Grow									
No. Name	Amt	Ds	Rate	Unit	Stg								
LSD (P=.05)	2.8	10.7	10.5	0.0	13.6	7.5	0.0	20.4	5.0				
Standard Deviation	1.7	6.3	6.2	0.0	8.0	4.4	0.0	12.0	3.0				
CV	600.0	8.03	7.21	.	10.58	5.15	.	17.31	3.53				



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CORN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: C7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS 2.CHEAL C.LAMBSEQUARTERS  
Crop 1: ZEAMX FIELD CORN Variety: NATALIE Planting Date: 5-7-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-20-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-4-97	6-13-97			
Time of Day:	4:00 PM	2:00 PM	3:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	8" J	16" J			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	54 F	60 F	72 F			
% Relative Humidity:	80	93	91			
Wind Velocity, Unit:	4 MPH	4 MPH	6 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	55 F	63 F	71 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	60	70	40			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V-1	V-3	V-4		
		6 IN	14 IN	18 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		8"J	16"J	+2WK		
		2 LVS	3 LVS	2 LVS		
		8 IN	14 IN	6 IN		
CHEAL		6 LVS	10 LVS			
		2 IN	10 IN			

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## CORN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: C7019

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7022                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SORHA			CHEAL			SORHA			CHEAL		
Crop Code	ZEAMX			ZEAMX			ZEAMX			ZEAMX		
Part Rated												
Rating Data Type	INJURY CONTROL			CONTROL			INJURY CONTROL			CONTROL		
Rating Unit	PERCENT			PERCENT			PERCENT			PERCENT		
Rating Date												
Footnote Number												
Trt-Eval Interval	2 WEEKS			2 WEEKS			4 WEEKS			4 WEEKS		
PRM Data Type	P			P			P			P		
# Subsamples, Dec.	0			0			0			0		

Trt Treatment	Form Fm		Rate	Grow							
No. Name	Amt	Ds	Rate	Unit	Stg						
LSD (P=.05)	4.1		9.4		8.1	4.1	10.7	7.0	4.9	21.5	6.7
Standard Deviation	2.4		5.5		4.8	2.4	6.3	4.2	2.9	12.7	4.0
CV	160.3		7.16		6.03	66.74	8.92	5.33	115.47	19.6	5.17

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Weed Science Field Research

CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7022 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS 2.CHEAL C.LAMBSQUARTERS  
Crop 1: ZEAMX FIELD CORN Variety: DEKALB 683SR Planting Date: 5-7-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-22-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-4-97	6-13-97			
Time of Day:	1:00 PM	3:00 PM	1:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	8" CORN	12" CORN			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	54 F	60 F	72 F			
% Relative Humidity:	71	88	90			
Wind Velocity, Unit:	2 MPH	3 MPH	2 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	55 F	63 F	71 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	40	50	30			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		8" C	12" C			
		V-1	V-3			
		8 IN	12 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		2 LVS	4 LVS			
		8 IN	12 IN			
CHEAL		6 LVS	9 LVS			
		3 IN	4 IN			

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CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7022

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACK PACK	BACK PACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004 DG	8004 DG	8004 DG			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN			
Boom Length, Unit:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			

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NO-TILL CORN STALKLAND

Trial ID: C7004

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

Weed Code	SETFA	AMACH	SOLCA	AMPAL	SETFA	AMACH	SOLCA	AMPAL
Crop Code	ZEAMX				ZEAMX			
Part Rated	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Rating Date	P	P	P	P	P	P	P	P
Footnote Number	0	0	0	0	0	0	0	0
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg										
1 HARNESS XTRA	5.6	EC	3.22	LB	A/A PRE	0	100	100	83	85	0	90	100	87	90
1 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
1 WEEDONE LV4	3.8	E	.5	LB	A/A PRE										
2 HARNESS XTRA	5.6	EC	3.22	LB	A/A PRE	0	100	100	83	83	0	93	93	87	85
2 AATREX	4	F	.5	LB	A/A PRE										
2 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
2 WEEDONE LV4	3.8	E	.5	LB	A/A PRE										
3 HARNESS XTRA	5.6	EC	3.22	LB	A/A PRE	0	100	100	85	87	0	90	97	88	88
3 PRINCEP	4	F	1	LB	A/A PRE										
3 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
3 WEEDONE LV4	3.8	E	.5	LB	A/A PRE										
4 BULLET	4	F	3.75	LB	A/A PRE	0	100	97	83	83	0	90	93	85	85
4 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
4 WEEDONE LV4	3.8	E	.5	LB	A/A PRE										
5 MON 58430	3.8	E	2	LB	A/A PRE	0	100	100	80	82	0	95	100	85	85
5 AATREX	4	F	1.5	LB	A/A PRE										
5 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
5 WEEDONE LV4	3.8	E	.5	LB	A/A PRE										
6 FULTIME	4	CS	2.7	LB	A/A PRE	0	100	100	83	83	0	92	100	85	85
6 AATREX	4	F	.42	LB	A/A PRE										
6 GRAMOXONE EXTRA	2.5	AS	.625	LB	A/A PRE										
6 WEEDONE LV4	3.8	E	.47	LB	A/A PRE										
6 ACTIVATOR 90			.25	%	V/V PRE										
7 FULTIME	4	CS	3	LB	A/A PRE	0	100	100	87	88	0	90	97	87	85
7 AATREX	4	F	.3	LB	A/A PRE										
7 GRAMOXONE EXTRA	2.5	AS	.625	LB	A/A PRE										
7 WEEDONE LV4	3.8	E	.47	LB	A/A PRE										
7 ACTIVATOR 90			.25	%	V/V PRE										
8 FULTIME	4	CS	2.7	LB	A/A PRE	0	100	100	75	78	0	88	83	77	80
8 AATREX	4	F	.42	LB	A/A PRE										
8 TOUCHDOWN	6	EC	1	LB	A/A PRE										
8 ACTIVATOR 90			.25	%	V/V PRE										
9 FULTIME	4	CS	2.7	LB	A/A PRE	0	100	100	82	83	0	90	97	83	82
9 AATREX	4	F	.3	LB	A/A PRE										
9 TOUCHDOWN	6	EC	1	LB	A/A PRE										
9 ACTIVATOR 90			.25	%	V/V PRE										

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN STALKLAND

Trial ID: C7004 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	ZEAMX	SETFA	AMACH	SOLCA	AMPAL	ZEAMX	SETFA	AMACH	SOLCA	AMPAL	
										INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	
										4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	
										P	P	P	P	P	P	P	P	P	P	
										0	0	0	0	0	0	0	0	0	0	
Trt Treatment No. Name	Form	Fm	Rate	Grow																
	Amt	Ds	Rate	Unit	Stg															
10 BICEP II	5.9	F	3.5	LB A/A	PRE	0	100	100	82	82	0	100	90	85	85					
10 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
11 BICEP II MAGNUM	5.5	F	2.89	LB A/A	PRE	0	100	100	78	80	0	92	90	83	80					
11 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
12 DUAL II MAGNUM	7.6	EC	1.25	LB A/A	PRE	10	90	100	93	97	0	90	100	95	97					
12 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
12 EXCEED	57	DF	.036	LB A/A	MP															
12 COC		L	1	QT/A	MP															
13 FRONTIER	6	E	1.3	LB A/A	PRE	7	97	100	93	85	0	97	100	95	88					
13 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
13 MARKSMAN	3.2	F	1.4	LB A/A	6"C															
14 FRONTIER	6	E	1.3	LB A/A	PRE	10	90	90	90	83	0	90	90	90	82					
14 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
14 CLARITY	4	E	.5	LB A/A	6"C															
14 ACTIVATOR 90			.25	1/2 V/V	6"C															
14 LIQUID N		L	2	QT/A	6"C															
15 GUARDSMAN	5	E	2.8	LB A/A	PRE	7	90	93	92	85	0	90	93	92	85					
15 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
15 CLARITY	4	E	.5	LB A/A	6"C															
15 ACTIVATOR 90			.25	1/2 V/V	6"C															
15 LIQUID N		L	2	QT/A	6"C															
16 GUARDSMAN	5	E	2.8	LB A/A	PRE	0	93	97	93	88	0	93	97	93	88					
16 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
16 MARKSMAN	3.2	F	1.4	LB A/A	6"C															
17 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	95	97	98	77	0	95	97	98	77					
17 WEEDONE LV4	3.8	E	.5	LB A/A	PRE															
17 MARKSMAN	3.2	F	1.4	LB A/A	6"C															
18 BROADSTRIKE + DUAL S	7.75	SC	1.93	LB A/A	PRE	7	100	100	85	87	0	90	93	87	82					
18 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
19 BROADSTRIKE + DUAL S	7.75	SC	2.12	LB A/A	PRE	0	100	100	82	85	0	93	90	83	82					
19 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE															
20 HARNESS	7	EC	1.8	LB A/A	PRE	3	100	100	90	90	0	90	90	87	83					
20 HORNET	85.6	WG	.21	LB A/A	PRE															
20 ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE															

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Weed Science Field Research

NO-TILL CORN STALKLAND

Trial ID: C7004  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	AMACH	SOLCA	AMPAL	SETFA	AMACH	SOLCA	AMPAL
Crop Code	ZEAMX				ZEAMX			
Part Rated	INJURY CONTROL CONTROL CONTROL CONTROL				INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
PRM Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
# Subsamples, Dec.	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	4 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P
21 HARNESS	7	EC	1.8	LB	A/A PRE	0	100	100	90	92	0	88	88	87
21 HORNET	85.6	WG	.26	LB	A/A PRE									
21 ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE									
22 HARNESS XTRA	5.6	EC	3.22	LB	A/A PRE	0	100	100	82	82	0	90	90	85
22 ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE									
23 BAY 06550	80	DF	2	LB	A/A PRE	0	100	100	83	87	0	93	90	87
23 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
23 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
24 AXIOM	68	DF	.34	LB	A/A PRE	0	100	100	82	82	0	93	77	77
24 BALANCE	75	WG	.07	LB	A/A PRE									
24 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
24 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
25 AXIOM	68	DF	.34	LB	A/A PRE	0	100	100	80	80	0	92	90	83
25 BALANCE	75	WG	.07	LB	A/A PRE									
25 AATREX	4	F	1.1	LB	A/A PRE									
25 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
25 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
26 AXIOM	68	DF	.64	LB	A/A PRE	0	100	100	83	87	0	95	90	87
26 AATREX	4	F	1.5	LB	A/A PRE									
26 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
26 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
27 AXIOM	68	DF	.64	LB	A/A PRE	10	90	90	93	63	0	90	90	93
27 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
27 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
27 EXCEED	57	DF	.036	LB	A/A MP									
27 COC		L	1	QT/A	MP									
28 AXIOM	68	DF	.64	LB	A/A PRE	10	95	100	93	88	0	97	100	93
28 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
28 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
28 SENCOR	75	DF	.094	LB	A/A 6"C									
28 MARKSMAN	3.2	F	1.4	LB	A/A 6"C									
29 AXIOM	68	DF	.64	LB	A/A PRE	0	90	93	93	85	0	93	95	95
29 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
29 WEEDONE LV4	3.8	E	.5	LB	A/A PRE									
29 MARKSMAN	3.2	F	1.4	LB	A/A 6"C									



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NO-TILL CORN STALKLAND

Trial ID: C7004  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	AMACH	SOLCA	AMPAL	SETFA	AMACH	SOLCA	AMPAL
Crop Code	ZEAMX				ZEAMX			
Part Rated								
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Unit	Grow	Stg										
30 ROUNDUP ULTRA	4	AS	1	LB	A/A	PRE	0	90	97	97	58	0	90	97	97	58
30 MARKSMAN	3.2	F	1.4	LB	A/A	6"C										
31 TOUCHDOWN	6	EC	1	LB	A/A	PRE	10	90	97	93	90	0	90	97	93	90
31 ACTIVATOR 90			.25	g	V/V	PRE										
31 MARKSMAN	3.2	F	1.4	LB	A/A	6"C										
32 LIBERTY	1.67	E	.36	LB	A/A	PRE	0	88	100	97	88	0	88	100	97	88
32 AMS	100	SG	2	LB/A		PRE										
32 MARKSMAN	3.2	F	1.4	LB	A/A	6"C										
LSD (P=.05)			3.3					4.1	4.5	9.2	20.0	0.0	6.2	10.2	8.7	20.0
Standard Deviation			2.0					2.5	2.7	5.7	12.3	0.0	3.8	6.2	5.4	12.2
CV			87.99					2.58	2.77	6.5	14.69	.	4.12	6.66	6.07	14.64

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN STALKLAND

Trial ID: C7004 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMACH SMOOTH PIGWEED 3.SOLCA HORSENETTLE  
4.AMPAL HONEYVINE MILK.

Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-7-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-22-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 2.9 % Sand: 6.7 % Silt: 63 % Clay: 30  
pH: 6.3 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 2 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-7-97	6-5-97	6-5-97			
Time of Day:	3:00 PM	4:30 PM	4:30 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	6" CORN			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	55 F	61 F	61 F			
% Relative Humidity:	70	90	90			
Wind Velocity, Unit:	2.5 MPH	5 MPH	5 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	58 F	64 F	64 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	60	40	40			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V2	V2			
		6 IN	6 IN			

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## NO-TILL CORN STALKLAND

Trial ID: C7004

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

	WEED STAGE AT EACH APPLICATION			D	E	F
	A	B	C			
SETFA		MP 2 LVS 2-3 IN	6" C 2 LVS 2-3 IN			
AMACH		4 LVS 1-2 IN	4 LVS 1-2 IN			
SOLCA		2 LVS 2 IN	2 LVS 2 IN			
AMPAL		3 LVS 4 IN	3 LVS 4 IN			

	APPLICATION EQUIPMENT			D	E	F
	A	B	C			
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004	8004	8004			
Boom Length, Unit:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			

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NO-TILL CORN II

Trial ID: C7005  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code														
Crop Code														
Part Rated														
Rating Data Type														
Rating Unit														
Rating Date														
Footnote Number														
Trt-Eval Interval														
PRM Data Type														
# Subsamples, Dec.														

Trt No.	Treatment Name	Form Fm		Rate	Unit	Grow Stg	Zeamx		Setfa		Cheal		Abuth			
		Amt	Ds				INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT			
1	ROUNDUP ULTRA	4	AS	.67	LB A/A	PRE	0	90	97	93	70	87	0	77	97	93
1	PEAK	57	WG	.036	LB A/A	MP										
1	ACTIVATOR 90			.25	% V/V	MP										
2	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	87	100	93	73	83	0	77	100	93
2	PEAK	57	WG	.036	LB A/A	MP										
2	ACTIVATOR 90			.25	% V/V	MP										
3	ROUNDUP ULTRA	4	AS	.93	LB A/A	PRE	0	97	100	97	70	87	0	77	100	97
3	PEAK	57	WG	.036	LB A/A	MP										
3	ACTIVATOR 90			.25	% V/V	MP										
4	ROUNDUP ULTRA	4	AS	.67	LB A/A	PRE	0	100	100	97	100	93	0	100	100	97
4	HARNES	7	EC	1.75	LB A/A	PRE										
4	AATREX	4	F	1.31	LB A/A	PRE										
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	100	100	93	100	93	0	100	100	93
5	HARNES	7	EC	2	LB A/A	PRE										
5	AATREX	4	F	1.5	LB A/A	PRE										
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	100	100	97	100	90	0	100	100	97
6	HARNES	7	EC	2	LB A/A	PRE										
6	AATREX	4	F	1.5	LB A/A	PRE										
6	LIQUID N		L	160	QT/A	PRE										
7	MON 58440	4.25	E	3.72	LB A/A	PRE	0	93	100	90	93	90	0	93	100	90
8	MON 58440	4.25	E	4.25	LB A/A	PRE	0	100	100	93	100	93	0	100	100	93
9	MON 58442	4.25	EC	3.72	LB A/A	PRE	0	100	100	100	100	90	0	100	100	100
10	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	97	100	97	97	83	0	97	100	97
11	MON 58442	4.25	EC	5.31	LB A/A	PRE	0	100	100	100	100	93	0	100	100	100
12	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	97	100	97	97	93	0	97	100	97
12	AMS	100	SG	17	LB A/100 GAL	PRE										
13	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	100	100	93	100	93	0	100	100	93
13	WEEDONE LV4	3.8	E	.5	LB A/A	PRE										
14	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	97	100	93	97	83	0	97	100	93
14	WEEDONE LV4	3.8	E	.5	LB A/A	PRE										
14	AMS	100	SG	17	LB A/100 GAL	PRE										

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NO-TILL CORN II

Trial ID: C7005 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	ABUTH	GGGGG	BBBBB	ZEAMX	SETFA	CHEAL	ABUTH
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate Rate	Unit Unit	Grow Stg										
15	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	87	100	93	87	83	0	87	100	93
15	AMS	100	SG	17	LB A/100 GAL	PRE										
15	LIQUID N		L	160	QT/A	PRE										
16	MON 58442	4.25	EC	3.72	LB A/A	PRE	0	100	100	87	100	87	0	100	100	87
16	AMS	100	SG	17	LB A/100 GAL	PRE										
17	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	93	100	83	93	83	0	93	100	83
17	LIQUID N		L	160	QT/A	PRE										
18	MON 58442	4.25	EC	5.13	LB A/A	PRE	0	100	100	93	100	93	0	100	100	93
18	AMS	100	SG	17	LB A/100 GAL	PRE										
19	EXTRAZINE	90	DF	4	LB A/A	PRE	0	100	100	83	100	83	0	100	100	83
19	COC		L	1	QT/A	PRE										
20	EXTRAZINE	90	DF	4	LB A/A	PRE	0	100	100	90	100	90	0	100	100	90
20	WEEDONE LV4	3.8	E	.5	LB A/A	PRE										
20	COC		L	1	QT/A	PRE										
21	EXTRAZINE	90	DF	4	LB A/A	PRE	0	93	100	83	93	80	0	93	100	83
21	WEEDONE LV4	3.8	E	.5	LB A/A	PRE										
21	COC		L	1	QT/A	PRE										
21	LIQUID N		L	160	QT/A	PRE										
22	BICEP II	5.9	F	3.6	LB A/A	PRE	0	100	100	100	100	90	0	100	100	100
22	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE										
22	ACTIVATOR 90			.25	% V/V	PRE										

LSD (P=.05)	0.0	6.2	2.0	9.9	7.7	12.3	0.0	6.6	2.0	9.9
Standard Deviation	0.0	3.8	1.2	6.0	4.7	7.4	0.0	4.0	1.2	6.0
CV	.	3.9	1.23	6.45	4.99	8.43	.	4.19	1.23	6.45

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN II

Trial ID: C7005 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	ABUTH
Crop Code	ZEAMX		
Part Rated			
Rating Data Type	INJURY CONTROL CONTROL CONTROL		
Rating Unit	PERCENT PERCENT PERCENT PERCENT		
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS		
PRM Data Type	P P P P		
# Subsamples, Dec.	0 0 0 0		

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg				
1	ROUNDUP ULTRA	4 AS		.67 LB	A/A	PRE	0	40	100	90
1	PEAK	57 WG		.036 LB	A/A	MP				
1	ACTIVATOR 90			.25 %	V/V	MP				
2	ROUNDUP ULTRA	4 AS		.75 LB	A/A	PRE	0	53	100	90
2	PEAK	57 WG		.036 LB	A/A	MP				
2	ACTIVATOR 90			.25 %	V/V	MP				
3	ROUNDUP ULTRA	4 AS		.93 LB	A/A	PRE	0	53	100	90
3	PEAK	57 WG		.036 LB	A/A	MP				
3	ACTIVATOR 90			.25 %	V/V	MP				
4	ROUNDUP ULTRA	4 AS		.67 LB	A/A	PRE	0	83	100	83
4	HARNES	7 EC		1.75 LB	A/A	PRE				
4	AATREX	4 F		1.31 LB	A/A	PRE				
5	ROUNDUP ULTRA	4 AS		.75 LB	A/A	PRE	0	87	100	77
5	HARNES	7 EC		2 LB	A/A	PRE				
5	AATREX	4 F		1.5 LB	A/A	PRE				
6	ROUNDUP ULTRA	4 AS		.75 LB	A/A	PRE	0	87	100	77
6	HARNES	7 EC		2 LB	A/A	PRE				
6	AATREX	4 F		1.5 LB	A/A	PRE				
6	LIQUID N	L		160 QT	A	PRE				
7	MON 58440	4.25 E		3.72 LB	A/A	PRE	0	70	100	73
8	MON 58440	4.25 E		4.25 LB	A/A	PRE	0	90	100	87
9	MON 58442	4.25 EC		3.72 LB	A/A	PRE	0	80	100	87
10	MON 58442	4.25 EC		4.25 LB	A/A	PRE	0	83	100	80
11	MON 58442	4.25 EC		5.31 LB	A/A	PRE	0	87	100	87
12	MON 58442	4.25 EC		4.25 LB	A/A	PRE	0	83	100	80
12	AMS	100 SG		17 LB	A/100 GAL	PRE				
13	MON 58442	4.25 EC		4.25 LB	A/A	PRE	0	90	100	80
13	WEEDONE LV4	3.8 E		.5 LB	A/A	PRE				
14	MON 58442	4.25 EC		4.25 LB	A/A	PRE	0	80	100	73
14	WEEDONE LV4	3.8 E		.5 LB	A/A	PRE				
14	AMS	100 SG		17 LB	A/100 GAL	PRE				

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Weed Science Field Research

NO-TILL CORN II

Trial ID: C7005      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	ABUTH
Crop Code		ZEAMX		
Part Rated				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg				
15 MON 58442	4.25	EC	4.25	LB A/A	PRE	0	67	100	73
15 AMS	100	SG	17	LB A/100 GAL	PRE				
15 LIQUID N		L	160	QT/A	PRE				
16 MON 58442	4.25	EC	3.72	LB A/A	PRE	0	77	100	73
16 AMS	100	SG	17	LB A/100 GAL	PRE				
17 MON 58442	4.25	EC	4.25	LB A/A	PRE	0	73	100	70
17 LIQUID N		L	160	QT/A	PRE				
18 MON 58442	4.25	EC	5.13	LB A/A	PRE	0	80	100	87
18 AMS	100	SG	17	LB A/100 GAL	PRE				
19 EXTRAZINE	90	DF	4	LB A/A	PRE	0	77	100	70
19 COC		L	1	QT/A	PRE				
20 EXTRAZINE	90	DF	4	LB A/A	PRE	0	80	100	83
20 WEEDONE LV4	3.8	E	.5	LB A/A	PRE				
20 COC		L	1	QT/A	PRE				
21 EXTRAZINE	90	DF	4	LB A/A	PRE	0	77	100	67
21 WEEDONE LV4	3.8	E	.5	LB A/A	PRE				
21 COC		L	1	QT/A	PRE				
21 LIQUID N		L	160	QT/A	PRE				
22 BICEP II	5.9	F	3.6	LB A/A	PRE	0	90	100	83
22 GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE				
22 ACTIVATOR 90			.25	% V/V	PRE				

LSD (P=.05)	0.0	12.9	0.0	14.8
Standard Deviation	0.0	7.8	0.0	8.9
CV		10.21	0.0	11.18

NO-TILL CORN II

Trial ID: C7005                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

**GENERAL TRIAL INFORMATION**

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 5-22-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA GIANT FOXTAIL    2.CHEAL COMMON LAMBSQ    3.ABUTH VELVETLEAF  
Crop 1: ZEAMX FIELD CORN    Variety: PIONEER 3279                      Planting Date: 5-22-97  
Planting Method: ROWED                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Soil Temperature: 60 F    Row Spacing: 30 IN                      Seed Bed: CLODDY  
Soil Moisture: DRY                      Emergence Date: 6-2-97  
Plot Width, Unit: 5 FT                      Plot Length, Unit: 44 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

Texture: SILT LOAM                      % OM: 3                      % Sand: 6.7                      % Silt: 63                      % Clay: 30  
pH: 6.5    CEC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM                      Distance: 2                      Unit: MI

**APPLICATION DESCRIPTION**

	A	B	C	D	E	F
Application Date:	5-22-97	6-20-97				
Time of Day:	1 PM	1 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	FOLIAR	FOLIAR				
Air Temp., Unit:	70 F	80 F				
% Relative Humidity:	30	40				
Wind Velocity, Unit:	3 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	65 F	75 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	10				

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	PRE	MP V5 18 IN				

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
SETFA		3 LF 4 IN				
CHEAL		6 LF 3 IN				
ABUTH		3 LF 2 IN				



## NO-TILL CORN II

Trial ID: C7005

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACK	PACK	BACK	PACK		
Operating Pressure:	30		30			
Nozzle Type:	FLAT	FAN	FLAT	FAN		
Nozzle Size:	8004	DG	8004	DG		
Nozzle Spacing, Unit:	20	IN	20	IN		
Boom Length, Unit:	5	FT	5	FT		
Boom Height, Unit:	19	IN	19	IN		
Ground Speed, Unit:	3.5	MPH	3.5	MPH		
Carrier:	H2O/LIQ	N	H2O/LIQ	N		
Propellant:	CO2		CO2			

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NO-TILL CORN III

Trial ID: C7005-2  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST
Crop Code	INJURY CONTROL			INJURY CONTROL			INJURY CONTROL		
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS			4 WEEKS			8 WEEKS		
Rating Unit	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0
Footnote Number									
Trt-Eval Interval									
PRM Data Type									
# Subsamples, Dec.									

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST
1	ROUNDUP ULTRA	4	AS	.67	LB A/A	PRE	0	88	87	0	70	87	0	53	88
1	PEAK	57	WG	.036	LB A/A	MP									
1	ACTIVATOR 90			.25	% V/V	MP									
2	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	90	93	0	73	87	0	48	85
2	PEAK	57	WG	.036	LB A/A	MP									
2	ACTIVATOR 90			.25	% V/V	MP									
3	ROUNDUP ULTRA	4	AS	.93	LB A/A	PRE	0	98	93	0	70	87	0	43	85
3	PEAK	57	WG	.036	LB A/A	MP									
3	ACTIVATOR 90			.25	% V/V	MP									
4	ROUNDUP ULTRA	4	AS	.67	LB A/A	PRE	0	78	97	0	77	93	0	67	93
4	HARNES	7	EC	1.75	LB A/A	PRE									
4	AATREX	4	F	1.31	LB A/A	PRE									
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	85	85	0	82	75	0	75	73
5	HARNES	7	EC	2	LB A/A	PRE									
5	AATREX	4	F	1.5	LB A/A	PRE									
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	92	100	0	77	100	0	68	97
6	HARNES	7	EC	2	LB A/A	PRE									
6	AATREX	4	F	1.5	LB A/A	PRE									
6	LIQUID N		L	160	QT/A	PRE									
7	MON 58440	4.25	E	3.72	LB A/A	PRE	0	87	97	0	80	97	0	77	97
8	MON 58440	4.25	E	4.25	LB A/A	PRE	0	92	97	0	88	97	0	85	97
9	MON 58442	4.25	EC	3.72	LB A/A	PRE	0	85	90	0	83	92	0	68	93
10	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	87	95	0	82	93	0	83	93
11	MON 58442	4.25	EC	5.31	LB A/A	PRE	0	87	100	0	83	98	0	80	98
12	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	92	90	0	83	87	0	82	83
12	AMS	100	SG	17	LB A/100 GAL	PRE									
13	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	95	98	0	92	98	0	92	98
13	WEEDONE LV4	3.8	E	.5	LB A/A	PRE									
14	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	98	98	0	97	98	0	90	98
14	WEEDONE LV4	3.8	E	.5	LB A/A	PRE									
14	AMS	100	SG	17	LB A/100 GAL	PRE									

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NO-TILL CORN III

Trial ID: C7005-2 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST
										INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL
										PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT
										2 WEEKS 2 WEEKS 2 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS	8 WEEKS 8 WEEKS 8 WEEKS	2 WEEKS 2 WEEKS 2 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS	8 WEEKS 8 WEEKS 8 WEEKS	2 WEEKS 2 WEEKS 2 WEEKS	4 WEEKS 4 WEEKS 4 WEEKS	8 WEEKS 8 WEEKS 8 WEEKS
										P P P	P P P	P P P	P P P	P P P	P P P	P P P	P P P	P P P
										0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST	ZEAMA	SETFA	XANST
15	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	80	98	0	63	97	0	55	97			
15	AMS	100	SG	17	LB A/100	GAL PRE												
15	LIQUID N		L	160	QT/A	PRE												
16	MON 58442	4.25	EC	3.72	LB A/A	PRE	0	93	100	0	83	100	0	73	100			
16	AMS	100	SG	17	LB A/100	GAL PRE												
17	MON 58442	4.25	EC	4.25	LB A/A	PRE	0	87	97	0	57	95	0	57	95			
17	LIQUID N		L	160	QT/A	PRE												
18	MON 58442	4.25	EC	5.13	LB A/A	PRE	0	70	92	0	70	88	0	70	88			
18	AMS	100	SG	17	LB A/100	GAL PRE												
19	EXTRAZINE	90	DF	4	LB A/A	PRE	0	25	88	0	23	83	0	23	83			
19	COC		L	1	QT/A	PRE												
20	EXTRAZINE	90	DF	4	LB A/A	PRE	0	98	98	0	87	97	0	82	97			
20	WEEDONE LV4	3.8	E	.5	LB A/A	PRE												
20	COC		L	1	QT/A	PRE												
21	EXTRAZINE	90	DF	4	LB A/A	PRE	0	90	100	0	75	98	0	73	98			
21	WEEDONE LV4	3.8	E	.5	LB A/A	PRE												
21	COC		L	1	QT/A	PRE												
21	LIQUID N		L	160	QT/A	PRE												
22	BICEP II	5.9	F	3.6	LB A/A	PRE	0	95	100	0	90	100	0	88	100			
22	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE												
22	ACTIVATOR 90			.25	% V/V	PRE												

LSD (P=.05)	0.0	15.9	12.2	0.0	17.2	13.4	0.0	16.8	14.0
Standard Deviation	0.0	9.7	7.4	0.0	10.4	8.1	0.0	10.2	8.5
CV	.	11.22	7.74	.	13.62	8.74	.	14.62	9.14

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NO-TILL CORN III

Trial ID: C7005-2 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1. SETFA GIANT FOXTAIL 2. XANST C. COCKLEBUR  
Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-30-97  
Planting Method: ROWED Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: CLODDY  
Soil Temperature: 60 F Soil Moisture: WET Emergence Date: 6-10-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 40 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3.3 % Sand: 6.7 % Silt: 63 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM Distance: 2 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-30-97	6-20-97				
Time of Day:	5 PM	1 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	FOLIAR	FOLIAR				
Air Temp., Unit:	70 F	80 F				
% Relative Humidity:	30	40				
Wind Velocity, Unit:	3 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	65 F	75 F				
Soil Moisture:	EXCESSIVE	ADEQUATE				
% Cloud Cover:	20	10				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	PRE	MP				
		V5				
		18	IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	4 -6 IN	6 IN				
Stage Scale:	3 LF	5 LF				
Weed 2 XANST Stage:	3 IN	3 IN				
Stage Scale:	3 LF	3 LF				

NO-TILL CORN III

Trial ID: C7005-2            Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACK	PACK	BACK	PACK		
Operating Pressure:	30		30			
Nozzle Type:	FLAT	FAN	FLAT	FAN		
Nozzle Size:	8004	DG	8004	DG		
Nozzle Spacing, Unit:	20	IN	20	IN		
Boom Height, Unit:	19	IN	19	IN		
Ground Speed, Unit:	3.5	MPH	3.5	MPH		
Carrier:	WATER		WATER			
Propellant:	CO2		CO2			

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NO-TILL CORN BALANCE

Trial ID: 97J12 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	AMACH	ABUTH	DATST	IPOSS
Crop Code	STUNT	STUNT	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type									
Rating Unit									
Rating Date									
Footnote Number									
Trt-Eval Interval	V1	V3	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg									
1	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	2	93	99	99	99	88	63
1	HARNES	7	EC	1	LB	A/A PRE									
1	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
2	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	2	96	99	98	98	94	80
2	HARNES	7	EC	1.25	LB	A/A PRE									
2	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
3	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	96	99	99	99	99	80
3	AATREX	4	F	1.5	LB	A/A PRE									
3	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
4	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	2	96	99	99	99	99	82
4	HARNES	7	EC	1	LB	A/A PRE									
4	AATREX	4	F	1.25	LB	A/A PRE									
4	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
5	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	99	99	99	99	99	95
5	HARNES	7	EC	1	LB	A/A PRE									
5	AATREX	4	F	1.5	LB	A/A PRE									
5	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
6	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	99	99	99	99	99	87
6	HARNES	7	EC	1	LB	A/A PRE									
6	AATREX	4	F	1.25	LB	A/A PRE									
6	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
7	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	0	99	99	99	99	99	83
7	HARNES	7	EC	1	LB	A/A PRE									
7	AATREX	4	F	1.5	LB	A/A PRE									
7	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
8	EXP31430A	4.3	SC	1.34	LB	A/A PRE	0	0	2	95	99	99	99	98	88
8	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
9	EXP31430A	4.3	SC	1.61	LB	A/A PRE	0	0	2	92	99	99	99	99	85
9	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									
10	EXP31498A	4.4	EC	1.1	LB	A/A PRE	0	0	0	95	99	99	99	93	82
10	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE									
11	BICEP II	5.9	F	3.5	LB	A/A PRE	0	0	0	98	99	99	99	99	83
11	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK									

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NO-TILL CORN BALANCE

Trial ID: 97J12                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	AMACH	ABUTH	DATST	IPOSS
Crop Code	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	AMACH	ABUTH	DATST	IPOSS
Part Rated	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	AMACH	ABUTH	DATST	IPOSS
Rating Data Type	STUNT	STUNT	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	V1	V3	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow					
No. Name	Amt	Ds	Rate	Unit	Stg				
LSD (P=.05)	0.0	0.0	3.6	3.9	0.0	1.2	1.2	7.4	14.5
Standard Deviation	0.0	0.0	2.1	2.3	0.0	0.7	0.7	4.3	8.5
CV	.	.	256.2	2.36	0.0	0.7	0.7	4.47	10.34

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE

Trial ID: 97J12  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	AMACH	ABUTH	DATST	IPOSS
Crop Code	ZEAMX						
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg							
1	BALANCE	75	WG	1.5	OZ	A/A PRE	0	73	98	57	99	90	50
1	HARNES	7	EC	1	LB	A/A PRE							
1	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
2	BALANCE	75	WG	1.5	OZ	A/A PRE	0	82	99	70	98	93	63
2	HARNES	7	EC	1.25	LB	A/A PRE							
2	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
3	BALANCE	75	WG	1.5	OZ	A/A PRE	0	83	99	83	99	96	72
3	AATREX	4	F	1.5	LB	A/A PRE							
3	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
4	BALANCE	75	WG	1.5	OZ	A/A PRE	0	72	99	77	93	99	75
4	HARNES	7	EC	1	LB	A/A PRE							
4	AATREX	4	F	1.25	LB	A/A PRE							
4	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
5	BALANCE	75	WG	1.5	OZ	A/A PRE	0	83	99	88	99	99	87
5	HARNES	7	EC	1	LB	A/A PRE							
5	AATREX	4	F	1.5	LB	A/A PRE							
5	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
6	BALANCE	75	WG	1.88	OZ	A/A PRE	0	82	99	87	99	99	83
6	HARNES	7	EC	1	LB	A/A PRE							
6	AATREX	4	F	1.25	LB	A/A PRE							
6	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
7	BALANCE	75	WG	1.88	OZ	A/A PRE	0	88	99	88	99	99	85
7	HARNES	7	EC	1	LB	A/A PRE							
7	AATREX	4	F	1.5	LB	A/A PRE							
7	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
8	EXP31430A	4.3	SC	1.34	LB	A/A PRE	0	70	99	83	99	96	78
8	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE							
9	EXP31430A	4.3	SC	1.61	LB	A/A PRE	0	77	99	80	98	99	78
9	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							
10	EXP31498A	4.4	EC	1.1	LB	A/A PRE	0	73	99	80	99	93	60
10	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE							
11	BICEP II	5.9	F	3.5	LB	A/A PRE	0	91	99	87	88	99	87
11	ROUNDUP ULTRA	4	AS	1	LB	A/A 1WK							



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE

Trial ID: 97J12                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	AMACH	ABUTH	DATST	IPOSS
Crop Code							
Part Rated		ZEAMX					
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow			
No. Name	Amt	Ds	Rate	Unit	Stg		
LSD (P=.05)			0.0	17.0	1.2	16.1	5.9
Standard Deviation			0.0	10.0	0.7	9.5	3.5
CV				12.59	0.7	11.82	3.57

NO-TILL CORN BALANCE

Trial ID: 97J12                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 4-25-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL    2.CHEAL LAMBSQUARTERS    3.ABUTH VELVETLEAF  
4.DATST JIMSONWEED

Crop 1: ZEAMX FIELD CORN    Variety: PIONEER 3279                      Planting Date: 5-2-97  
Planting Method: ROWED                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: SMOOTH/TRASHY  
Soil Temperature: 62 F    Soil Moisture: DRY                      Emergence DATE: 5-17-97

Plot Width, Unit: 5 FT                      Plot Length, Unit: 44 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 2.9    % Sand: 8    % Silt: 66    % Clay: 26  
pH: 6.5    CEC: 17    Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM                      Distance: 2                      Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-25-97	5-2-97				
Time of Day:	3 PM	2 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	7DAP	PRE				
Applic. Placement:	BROFOL	BROSOI				
Air Temp., Unit:	60 F	70 F				
% Relative Humidity:	20	30				
Wind Velocity, Unit:	3 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	60 F	62 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	30				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
Density, Unit:	>70 M2					
CHEAL						
Density, Unit:	> 20 M2					
ABUTH						
Density, Unit:	4 M2					
DATST						
Density, Unit:	2 M2					

## NO-TILL CORN BALANCE

Trial ID: 97J12

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	4 WHEELER				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE BURNDOWN

Trial ID: 97J13 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	POLPY	AMBTR	IPOHE	AMACH	ZEAMX
Crop Code								
Part Rated								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	V1	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	V3
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	ZEAMX	SETFA	CHEAL	POLPY	AMBTR	IPOHE	AMACH	ZEAMX
1	BALANCE	75	WG	1.88	OZ A/A	EPP	0	90	99	53	60	50	80	0
2	BALANCE	75	WG	2.25	OZ A/A	EPP	0	93	99	63	43	53	82	0
3	BALANCE	75	WG	1.88	OZ A/A	EPP	0	93	99	80	99	60	87	0
3	AMS	100	SG	17	LB/100 GAL	EPP								
3	ACTIVATOR 90			.5	% V/V	EPP								
4	BALANCE	75	WG	2.25	OZ A/A	EPP	0	93	99	87	70	52	85	0
4	AMS	100	SG	17	LB/100 GAL	EPP								
4	ACTIVATOR 90			.5	% V/V	EPP								
5	BALANCE	75	WG	1.88	OZ A/A	EPP	0	93	99	75	66	43	73	0
5	ACTIVATOR 90			.5	% V/V	EPP								
6	BALANCE	75	WG	2.25	OZ A/A	EPP	0	93	99	93	99	37	70	0
6	ACTIVATOR 90			.5	% V/V	EPP								
7	BALANCE	75	WG	1.88	OZ A/A	EPP	0	93	99	92	73	58	92	0
7	COC		L	1.5	QT/A	EPP								
8	BALANCE	75	WG	2.25	OZ A/A	EPP	0	95	99	75	88	63	92	0
8	COC		L	1.5	QT/A	EPP								
9	BALANCE	75	WG	1.88	OZ A/A	EPP	0	86	99	60	85	30	85	0
9	LIQUID N		L	4	QT/A	EPP								
10	BALANCE	75	WG	2.25	OZ A/A	EPP	0	96	98	98	99	57	87	0
10	LIQUID N		L	4	QT/A	EPP								
11	BALANCE	75	WG	1.88	OZ A/A	EPP	0	83	98	95	99	30	88	0
11	LIQUID N		L	20	GAL/A	EPP								
12	BALANCE	75	WG	2.25	OZ A/A	EPP	0	83	99	90	88	43	83	0
12	LIQUID N		L	20	GAL/A	EPP								
13	LIQUID N		L	20	GAL/A	EPP	0	0	0	0	0	0	0	0
14	BICEP II	5.9	F	3.5	LB A/A	EPP	0	96	99	99	99	94	98	0
14	ROUNDUP ULTRA	4	AS	1	LB A/A	EPP								
LSD (P=.05)							0.0	11.7	1.5	24.4	26.0	21.0	23.0	0.0
Standard Deviation							0.0	7.0	0.9	14.5	15.5	12.5	13.7	0.0
CV								8.23	0.97	19.18	20.31	26.14	17.43	

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE BURNDOWN

Trial ID: 97J13 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	POLPY	AMBTR	IPOHE	AMACH	ZEAMX
Crop Code	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	CAN. CL.
Rating Unit	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0
Footnote Number							
Trt-Eval Interval							
PRM Data Type							
# Subsamples, Dec.							

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	SETFA	CHEAL	POLPY	AMBTR	IPOHE	AMACH	ZEAMX
1	BALANCE	75	WG	1.88	OZ A/A	EPP	95	99	52	47	50	57	0
2	BALANCE	75	WG	2.25	OZ A/A	EPP	98	99	43	27	50	63	0
3	BALANCE	75	WG	1.88	OZ A/A	EPP	96	99	78	88	57	43	0
3	AMS	100	SG	17	LB/100 GAL	EPP							
3	ACTIVATOR 90			.5	% V/V	EPP							
4	BALANCE	75	WG	2.25	OZ A/A	EPP	96	99	72	68	37	50	0
4	AMS	100	SG	17	LB/100 GAL	EPP							
4	ACTIVATOR 90			.5	% V/V	EPP							
5	BALANCE	75	WG	1.88	OZ A/A	EPP	95	99	40	93	43	43	0
5	ACTIVATOR 90			.5	% V/V	EPP							
6	BALANCE	75	WG	2.25	OZ A/A	EPP	92	99	93	96	27	57	0
6	ACTIVATOR 90			.5	% V/V	EPP							
7	BALANCE	75	WG	1.88	OZ A/A	EPP	93	99	88	76	47	50	0
7	COC		L	1.5	QT/A	EPP							
8	BALANCE	75	WG	2.25	OZ A/A	EPP	95	99	50	90	57	53	0
8	COC		L	1.5	QT/A	EPP							
9	BALANCE	75	WG	1.88	OZ A/A	EPP	98	98	37	92	30	63	0
9	LIQUID N		L	4	QT/A	EPP							
10	BALANCE	75	WG	2.25	OZ A/A	EPP	92	96	83	88	37	58	0
10	LIQUID N		L	4	QT/A	EPP							
11	BALANCE	75	WG	1.88	OZ A/A	EPP	92	96	82	92	27	48	0
11	LIQUID N		L	20	GAL/A	EPP							
12	BALANCE	75	WG	2.25	OZ A/A	EPP	60	66	58	82	27	37	0
12	LIQUID N		L	20	GAL/A	EPP							
13	LIQUID N		L	20	GAL/A	EPP	25	33	25	0	17	17	0
14	BICEP II	5.9	F	3.5	LB A/A	EPP	95	99	94	90	85	96	0
14	ROUNDUP ULTRA		4 AS	1	LB A/A	EPP							
	LSD (P=.05)						31.8	37.8	54.3	19.3	33.9	42.3	0.0
	Standard Deviation						18.9	22.5	32.3	11.5	20.2	25.2	0.0
	CV						21.73	24.62	50.56	15.67	48.12	47.91	

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE BURNDOWN

Trial ID: 97J13 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-22-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40456

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL COMMON LAMBSQ. 3.POLPY PENN. SMARTWEED  
4.AMBTR GIANT RAGWEED 5.IPOHE IVYLEAF MG.

Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-30-97  
Planting Method: ROWED Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM/TRASHY  
Soil Temperature: 62 D Soil Moisture: SLIGHTLY WET Emergence Date: 6-5-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 25 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM Distance: 2 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-22-97					
Time of Day:	11:30 AM					
Application Method:	SPRAY					
Application Timing:	EPP					
Applic. Placement:	BROFOL					
Air Temp., Unit:	65 F					
% Relative Humidity:	20					
Wind Velocity, Unit:	3 MPH					
Dew Presence (Y/N):	N					
Soil Temp., Unit:	70 F					
Soil Moisture:	EXCESSIVE					
% Cloud Cover:	10					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## NO-TILL CORN BALANCE BURNDOWN

Trial ID: 97J13                      Investigator:  
 Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	1 LF					
Stage Scale:	1 IN					
Density, Unit:	>50 M2					
Weed 2 CHEAL Stage:	6 LVS					
Stage Scale:	4 IN					
Density, Unit:	>20 M2					
Weed 3 POLPY Stage:	2 LVS					
Stage Scale:	3 IN					
Density, Unit:	4 M2					
Weed 4 AMBTR Stage:	2 LVS					
Stage Scale:	2 IN					
Density, Unit:	4 M2					
Weed 5 IPOHE Stage:	2 LVS					
Stage Scale:	2 INS					
Density, Unit:	4 M2					

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK					
Operating Pressure:	30					
Nozzle Type:	FLAT FAN					
Nozzle Size:	8004 DG					
Nozzle Spacing, Unit:	20 IN					
Boom Length, Unit:	5 FT					
Boom Height, Unit:	19 IN					
Ground Speed, Unit:	3.5 MPH					
Carrier:	WATER/N					
Spray Volume, Unit:	20 GPA					
Propellant:	CO2					

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE BURNDOWN II

Trial ID: 97J13-2 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	ZEAMX	SETFA	XANST	CHEAL
Crop Code	CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL						
Part Rated	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT						
Rating Data Type	CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL						
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT						
Rating Date	CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL						
Footnote Number	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT						
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEK	V1	3 WEEK	3 WEEK	3WEEK
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	SETFA	XANST	CHEAL	ZEAMX	SETFA	XANST	CHEAL
1	BALANCE	75	WG	1.88	OZ A/A	EPP	90	80	92	0	72	13	80
2	BALANCE	75	WG	2.25	OZ A/A	EPP	90	83	95	0	77	13	90
3	BALANCE	75	WG	1.88	OZ A/A	EPP	90	85	90	0	70	10	92
3	AMS	100	SG	17	LB/100	GAL EPP							
3	ACTIVATOR 90			.5	% V/V	EPP							
4	BALANCE	75	WG	2.25	OZ A/A	EPP	90	83	95	0	83	12	90
4	AMS	100	SG	17	LB/100	GAL EPP							
4	ACTIVATOR 90			.5	% V/V	EPP							
5	BALANCE	75	WG	1.88	OZ A/A	EPP	90	82	95	0	77	13	90
5	ACTIVATOR 90			.5	% V/V	EPP							
6	BALANCE	75	WG	2.25	OZ A/A	EPP	90	75	92	0	77	7	92
6	ACTIVATOR 90			.5	% V/V	EPP							
7	BALANCE	75	WG	1.88	OZ A/A	EPP	90	80	95	0	77	33	90
7	COC		L	1.5	QT/A	EPP							
8	BALANCE	75	WG	2.25	OZ A/A	EPP	90	77	80	0	77	13	90
8	COC		L	1.5	QT/A	EPP							
9	BALANCE	75	WG	1.88	OZ A/A	EPP	90	83	90	0	70	10	90
9	LIQUID N		L	4	QT/A	EPP							
10	BALANCE	75	WG	2.25	OZ A/A	EPP	90	85	95	0	72	10	90
10	LIQUID N		L	4	QT/A	EPP							
11	BALANCE	75	WG	1.88	OZ A/A	EPP	90	83	95	0	72	13	90
11	LIQUID N		L	20	GAL/A	EPP							
12	BALANCE	75	WG	2.25	OZ A/A	EPP	90	75	95	0	73	20	90
12	LIQUID N		L	20	GAL/A	EPP							
13	LIQUID N		L	20	GAL/A	EPP	30	23	0	0	0	0	0
14	BICEP II	5.9	F	3.5	LB A/A	EPP	97	88	100	0	92	50	97
14	ROUNDUP ULTRA	4	AS	1	LB A/A	EPP							

LSD (P=.05)	23.4	21.5	13.0	0.0	10.1	19.9	3.2
Standard Deviation	13.9	12.8	7.8	0.0	6.0	11.9	1.9
CV	16.14	16.53	9.0	.	8.53	76.01	2.3



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE BURNDOWN II

Trial ID: 97J13-2 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code					
Crop Code					
Part Rated					
Rating Data Type					
Rating Unit					
Rating Date					
Footnote Number					
Trt-Eval Interval					
PRM Data Type					
# Subsamples, Dec.					

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	ZEAMX CONTROL PERCENT	ZEAMX CONTROL PERCENT	SETFA CONTROL PERCENT	XANST CONTROL PERCENT	CHEAL CONTROL PERCENT
1	BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	72	10	80
2	BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	77	10	90
3	BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	70	3	92
3	AMS	100	SG	17	LB/100 GAL	EPP					
3	ACTIVATOR 90			.5	% V/V	EPP					
4	BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	83	32	90
4	AMS	100	SG	17	LB/100 GAL	EPP					
4	ACTIVATOR 90			.5	% V/V	EPP					
5	BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	77	7	90
5	ACTIVATOR 90			.5	% V/V	EPP					
6	BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	77	0	92
6	ACTIVATOR 90			.5	% V/V	EPP					
7	BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	77	10	90
7	COC		L	1.5	QT/A	EPP					
8	BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	77	10	90
8	COC		L	1.5	QT/A	EPP					
9	BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	70	3	90
9	LIQUID N		L	4	QT/A	EPP					
10	BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	72	7	90
10	LIQUID N		L	4	QT/A	EPP					
11	BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	72	10	90
11	LIQUID N		L	20	GAL/A	EPP					
12	BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	73	20	90
12	LIQUID N		L	20	GAL/A	EPP					
13	LIQUID N		L	20	GAL/A	EPP	0	0	0	3	0
14	BICEP II	5.9	F	3.5	LB A/A	EPP	0	0	82	60	97
14	ROUNDUP ULTRA	4	AS	1	LB A/A	EPP					
LSD (P=.05)							0.0	0.0	13.0	25.4	3.2
Standard Deviation							0.0	0.0	7.8	15.2	1.9
CV									11.13	114.65	2.3

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN BALANCE BURNDOWN II

Trial ID: 97J13-2 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-30-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.XANST COCKLEBUR 3.CHEAL C. LAMBSQUARTER  
Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-30-97  
Planting Method: ROWED Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM/TRASHY  
Soil Temperature: 62 D Soil Moisture: SLIGHTLY WET Emergence Date: 6-5-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 40 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 25 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM Distance: 1 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-30-97					
Time of Day:	5 PM					
Application Method:	SPRAY					
Application Timing:	EPP					
Applic. Placement:	BROFOL					
Air Temp., Unit:	75 F					
% Relative Humidity:	40					
Wind Velocity, Unit:	3 MPH					
Dew Presence (Y/N):	N					
Soil Temp., Unit:	65 F					
Soil Moisture:	EXCESSIVE					
% Cloud Cover:	20					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	NA					

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	2 LF					
Stage Scale:	3 IN					
Density, Unit:	>50 M2					
Weed 2 XANST Stage:	3 LF					
Stage Scale:	4 IN					
Density, Unit:	4 M2					
Weed 3 CHEAL Stage:	5 LF					
Stage Scale:	2IN					
Density, Unit:	10 M2					

Dept. of Agronomy, Univ. of KY  
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## NO-TILL CORN BALANCE BURNDOWN II

Trial ID: 97J13-2                      Investigator:  
Location: LEXINGTON, KY.              Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK					
Operating Pressure:	30					
Nozzle Type:	FLAT FAN					
Nozzle Size:	8004 DG					
Nozzle Spacing, Unit:	20 IN					
Boom Length, Unit:	5 FT					
Boom Height, Unit:	19 IN					
Ground Speed, Unit:	3.5 MPH					
Carrier:	WATER/N					
Spray Volume, Unit:	20 GPA					
Propellant:	CO2					

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN EARLY PREPLANT

Trial ID: C7007      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	ABUTH	ZEAMX	SETFA	XANST	IPOHE	ABUTH
Crop Code	ZEAMX				ZEAMX				
Part Rated	INJURY CONTROL				INJURY CONTROL				
Rating Data Type	CONTROL				CONTROL				
Rating Unit	CONTROL				CONTROL				
Rating Date	CONTROL				CONTROL				
Footnote Number	CONTROL				CONTROL				
Trt-Eval Interval	CONTROL				CONTROL				
PRM Data Type	CONTROL				CONTROL				
# Subsamples, Dec.	CONTROL				CONTROL				

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	
1	BICEP II	5.9	F	3.6	LB A/A	4WK	0	87	87	90	80	0	87	87	83	77
1	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK										
2	BICEP II	5.9	F	3.6	LB A/A	PRE	0	100	83	87	80	0	97	83	83	77
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
3	FULTIME	4	CS	3.3	LB A/A	4WK	0	100	87	87	80	0	83	87	83	70
3	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK										
4	FULTIME	4	CS	3.3	LB A/A	PRE	0	100	90	83	87	0	100	87	77	80
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
5	AXIOM	68	DF	.64	LB A/A	4WK	0	100	83	83	83	0	90	80	73	77
5	AATREX	4	F	1.5	LB A/A	4WK										
5	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK										
6	AXIOM	68	DF	.64	LB A/A	PRE	0	100	87	83	83	0	100	87	77	77
6	AATREX	4	F	1.5	LB A/A	PRE										
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
7	BAY 06550	80	DF	2.4	LB A/A	4WK	0	100	67	87	70	0	90	63	73	67
7	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK										
8	BAY 06550	80	DF	2.4	LB A/A	PRE	0	100	77	87	87	0	97	73	77	83
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
9	AXIOM	68	DF	.34	LB A/A	PRE	0	100	77	80	77	0	87	70	77	80
9	BALANCE	75	WG	.07	LB A/A	PRE										
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
10	AXIOM	68	DF	.34	LB A/A	PRE	0	97	80	90	83	0	90	80	83	87
10	BALANCE	75	WG	.07	LB A/A	PRE										
10	AATREX	4	F	1	LB A/A	PRE										
10	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
11	BICEP LITE II MAGNUM	6	SL	3.91	LB A/A	2WK	0	100	83	87	77	0	87	80	80	70
11	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK										
12	SURPASS 100	5	SC	3.25	LB A/A	2WK	0	100	83	87	77	0	93	80	83	70
12	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK										
13	HARNESX XTRA	5.6	EC	3.36	LB A/A	2WK	0	100	83	87	80	0	80	83	80	80
13	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK										

Dept. of Agronomy, Univ. of KY  
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NO-TILL CORN EARLY PREPLANT

Trial ID: C7007 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	ABUTH	ZEAMX	SETFA	XANST	IPOHE	ABUTH	
Crop Code	ZEAMX					ZEAMX				
Part Rated	INJURY CONTROL					INJURY CONTROL				
Rating Data Type	CONTROL					CONTROL				
Rating Unit	CONTROL					CONTROL				
Rating Date	CONTROL					CONTROL				
Footnote Number	CONTROL					CONTROL				
Trt-Eval Interval	CONTROL					CONTROL				
PRM Data Type	CONTROL					CONTROL				
# Subsamples, Dec.	CONTROL					CONTROL				

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P
14 GUARDSMAN	5	E	2.8	LB A/A	2WK	0	100	77	87	67	0	90	73	83	57
14 ROUNDUP ULTRA	4	AS	1	LB A/A	2WK										
15 BICEP II MAGNUM	5.5	F	2.89	LB A/A	PRE	0	100	83	90	87	0	97	80	87	80
15 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
16 SURPASS 100	5	SC	2.75	LB A/A	PRE	0	100	87	87	83	0	93	83	80	77
16 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
17 HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	100	80	87	77	0	100	77	83	70
17 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
18 GUARDSMAN	5	E	2.8	LB A/A	PRE	0	100	87	90	87	0	97	87	83	73
18 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
19 FULTIME	4	CS	3	LB A/A	PRE	0	100	90	93	83	0	100	87	83	67
19 AATREX	4	F	.3	LB A/A	PRE										
19 PRINCEP	4	F	.5	LB A/A	PRE										
19 GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE										
19 WEEDONE LV4	3.8	E	.47	LB A/A	PRE										
19 ACTIVATOR 90			.25	% V/V	PRE										
20 SELECT	2	EC	.047	LB A/A	1WK	0	100	87	90	87	0	100	83	83	70
20 WEEDONE LV4	3.8	E	.5	LB A/A	1WK										
20 COC		L	1	QT/A	1WK										
20 BICEP II	5.9	F	3.6	LB A/A	PRE										
21 SELECT	2	EC	.063	LB A/A	1WK	0	100	93	93	87	0	100	87	80	67
21 WEEDONE LV4	3.8	E	.5	LB A/A	1WK										
21 COC		L	1	QT/A	1WK										
21 BICEP II	5.9	F	3.6	LB A/A	PRE										
22 SELECT	2	EC	.125	LB A/A	1WK	0	100	90	90	83	0	100	87	83	70
22 WEEDONE LV4	3.8	E	.5	LB A/A	1WK										
22 COC		L	1	QT/A	1WK										
22 BICEP II	5.9	F	3.6	LB A/A	PRE										
23 SELECT	2	EC	.063	LB A/A	1WK	0	100	93	93	80	0	100	90	80	77
23 DUAL II	7.8	EC	2	LB A/A	1WK										
23 WEEDONE LV4	3.8	E	.5	LB A/A	1WK										
23 COC		L	1	QT/A	1WK										
23 AATREX	4	F	1.5	LB A/A	PRE										

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN EARLY PREPLANT

Trial ID: C7007 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	ABUTH		SETFA	XANST	IPOHE	ABUTH
Crop Code	ZEAMX				ZEAMX				
Part Rated									
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit									
Rating Date									
Footnote Number									
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	
24	SELECT	2	EC	.063	LB	A/A 1WK	0	100	93	97	87	0	100	87	90	77
24	SURPASS	6.4	EC	1.8	LB	A/A 1WK										
24	WEEDONE LV4	3.8	E	.5	LB	A/A 1WK										
24	COC		L	1	QT/A	1WK										
24	AATREX	4	F	1.5	LB	A/A PRE										
25	SELECT	2	EC	.063	LB	A/A 1WK	0	100	87	93	80	0	90	87	83	73
25	FRONTIER	6	E	.42	LB	A/A 1WK										
25	WEEDONE LV4	3.8	E	.5	LB	A/A 1WK										
25	COC		L	1	QT/A	1WK										
25	AATREX	4	F	1.5	LB	A/A PRE										
26	SELECT	2	EC	.063	LB	A/A 1WK	0	100	90	93	83	0	83	87	87	77
26	HORNET	85.6	WG	.25	LB	A/A 1WK										
26	WEEDONE LV4	3.8	E	.5	LB	A/A 1WK										
26	COC		L	1	QT/A	1WK										
26	AATREX	4	F	1.5	LB	A/A PRE										
27	HARNES XTRA	5.6	EC	3.36	LB	A/A 2WK	0	100	83	93	80	0	83	77	80	67
27	ROUNDUP ULTRA	4	AS	1	LB	A/A 2WK										
27	WEEDONE LV4	3.8	E	.5	LB	A/A 2WK										
28	HARNES XTRA	5.6	EC	3.36	LB	A/A 2WK	0	100	90	90	80	0	97	87	80	70
28	AATREX	4	F	.5	LB	A/A 2WK										
28	ROUNDUP ULTRA	4	AS	1	LB	A/A 2WK										
28	WEEDONE LV4	3.8	E	.5	LB	A/A 2WK										
29	HARNES XTRA	5.6	EC	3.36	LB	A/A 2WK	0	100	87	90	73	0	83	83	80	70
29	PRINCEP	4	F	1	LB	A/A 2WK										
29	ROUNDUP ULTRA	4	AS	1	LB	A/A 2WK										
29	WEEDONE LV4	3.8	E	.5	LB	A/A 2WK										
30	BULLET	4	F	4	LB	A/A 2WK	0	100	83	90	67	0	87	80	87	63
30	ROUNDUP ULTRA	4	AS	1	LB	A/A 2WK										
30	WEEDONE LV4	3.8	E	.5	LB	A/A 2WK										
31	MON 58430	3.8	E	2	LB	A/A 2WK	0	100	80	87	60	0	90	77	83	67
31	ROUNDUP ULTRA	4	AS	1	LB	A/A 2WK										
31	WEEDONE LV4	3.8	E	.5	LB	A/A 2WK										
32	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE	0	100	73	90	63	0	63	63	83	50
LSD (P=.05)							0.0	6.9	12.6	8.6	20.0	0.0	12.7	13.0	11.6	17.5
Standard Deviation							0.0	4.2	7.7	5.3	12.3	0.0	7.8	8.0	7.1	10.7
CV								4.25	9.16	5.93	15.47		8.47	9.82	8.72	14.84

Dept. of Agronomy, Univ. of KY  
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NO-TILL CORN EARLY PREPLANT

Trial ID: C7007      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	ABUTH
Crop Code	ZEAMX			
Part Rated				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg					
1	BICEP II	5.9	F	3.6	LB A/A	4WK	0	57	67	83	67
1	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK					
2	BICEP II	5.9	F	3.6	LB A/A	PRE	0	87	83	83	67
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
3	FULTIME	4	CS	3.3	LB A/A	4WK	0	60	73	80	67
3	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK					
4	FULTIME	4	CS	3.3	LB A/A	PRE	0	73	83	73	73
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
5	AXIOM	68	DF	.64	LB A/A	4WK	0	70	67	73	70
5	AATREX	4	F	1.5	LB A/A	4WK					
5	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK					
6	AXIOM	68	DF	.64	LB A/A	PRE	0	77	80	73	77
6	AATREX	4	F	1.5	LB A/A	PRE					
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
7	BAY O6550	80	DF	2.4	LB A/A	4WK	0	77	47	67	57
7	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK					
8	BAY O6550	80	DF	2.4	LB A/A	PRE	0	83	63	63	77
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
9	AXIOM	68	DF	.34	LB A/A	PRE	0	67	63	77	77
9	BALANCE	75	WG	.07	LB A/A	PRE					
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
10	AXIOM	68	DF	.34	LB A/A	PRE	0	77	70	77	83
10	BALANCE	75	WG	.07	LB A/A	PRE					
10	AATREX	4	F	1	LB A/A	PRE					
10	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
11	BICEP LITE II MAGNUM	6	SL	3.91	LB A/A	2WK	0	77	63	77	67
11	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK					
12	SURPASS 100	5	SC	3.25	LB A/A	2WK	0	57	70	83	70
12	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK					
13	HARNESS XTRA	5.6	EC	3.36	LB A/A	2WK	0	30	80	80	80
13	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK					

NO-TILL CORN EARLY PREPLANT

Trial ID: C7007                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	ABUTH
Crop Code	ZEAMX			
Part Rated				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg					
14 GUARDSMAN	5	E	2.8	LB A/A	2WK	0	60	57	67	47
14 ROUNDUP ULTRA	4	AS	1	LB A/A	2WK					
15 BICEP II MAGNUM	5.5	F	2.89	LB A/A	PRE	0	77	70	83	73
15 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
16 SURPASS 100	5	SC	2.75	LB A/A	PRE	0	67	73	77	73
16 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
17 HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	70	53	80	70
17 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
18 GUARDSMAN	5	E	2.8	LB A/A	PRE	0	70	73	80	67
18 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
19 FULTIME	4	CS	3	LB A/A	PRE	0	70	77	80	77
19 AATREX	4	F	.3	LB A/A	PRE					
19 PRINCEP	4	F	.5	LB A/A	PRE					
19 GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE					
19 WEEDONE LV4	3.8	E	.47	LB A/A	PRE					
19 ACTIVATOR 90			.25	% V/V	PRE					
20 SELECT	2	EC	.047	LB A/A	1WK	0	77	80	83	70
20 WEEDONE LV4	3.8	E	.5	LB A/A	1WK					
20 COC		L	1	QT/A	1WK					
20 BICEP II	5.9	F	3.6	LB A/A	PRE					
21 SELECT	2	EC	.063	LB A/A	1WK	0	83	80	77	63
21 WEEDONE LV4	3.8	E	.5	LB A/A	1WK					
21 COC		L	1	QT/A	1WK					
21 BICEP II	5.9	F	3.6	LB A/A	PRE					
22 SELECT	2	EC	.125	LB A/A	1WK	0	80	83	80	60
22 WEEDONE LV4	3.8	E	.5	LB A/A	1WK					
22 COC		L	1	QT/A	1WK					
22 BICEP II	5.9	F	3.6	LB A/A	PRE					
23 SELECT	2	EC	.063	LB A/A	1WK	0	87	83	80	60
23 DUAL II	7.8	EC	2	LB A/A	1WK					
23 WEEDONE LV4	3.8	E	.5	LB A/A	1WK					
23 COC		L	1	QT/A	1WK					
23 AATREX	4	F	1.5	LB A/A	PRE					



Dept. of Agronomy, Univ. of KY  
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NO-TILL CORN EARLY PREPLANT

Trial ID: C7007      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	ABUTH
Crop Code	ZEAMX			
Part Rated				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg					
24 SELECT	2 EC		.063	LB A/A	1WK	0	77	77	90	67
24 SURPASS	6.4 EC		1.8	LB A/A	1WK					
24 WEEDONE LV4	3.8 E		.5	LB A/A	1WK					
24 COC	L		1	QT/A	1WK					
24 AATREX	4 F		1.5	LB A/A	PRE					
25 SELECT	2 EC		.063	LB A/A	1WK	0	67	83	80	67
25 FRONTIER	6 E		.42	LB A/A	1WK					
25 WEEDONE LV4	3.8 E		.5	LB A/A	1WK					
25 COC	L		1	QT/A	1WK					
25 AATREX	4 F		1.5	LB A/A	PRE					
26 SELECT	2 EC		.063	LB A/A	1WK	0	63	90	87	77
26 HORNET	85.6 WG		.25	LB A/A	1WK					
26 WEEDONE LV4	3.8 E		.5	LB A/A	1WK					
26 COC	L		1	QT/A	1WK					
26 AATREX	4 F		1.5	LB A/A	PRE					
27 HARNESS XTRA	5.6 EC		3.36	LB A/A	2WK	0	47	77	80	70
27 ROUNDUP ULTRA	4 AS		1	LB A/A	2WK					
27 WEEDONE LV4	3.8 E		.5	LB A/A	2WK					
28 HARNESS XTRA	5.6 EC		3.36	LB A/A	2WK	0	53	83	77	63
28 AATREX	4 F		.5	LB A/A	2WK					
28 ROUNDUP ULTRA	4 AS		1	LB A/A	2WK					
28 WEEDONE LV4	3.8 E		.5	LB A/A	2WK					
29 HARNESS XTRA	5.6 EC		3.36	LB A/A	2WK	0	53	77	80	53
29 PRINCEP	4 F		1	LB A/A	2WK					
29 ROUNDUP ULTRA	4 AS		1	LB A/A	2WK					
29 WEEDONE LV4	3.8 E		.5	LB A/A	2WK					
30 BULLET	4 F		4	LB A/A	2WK	0	57	73	83	70
30 ROUNDUP ULTRA	4 AS		1	LB A/A	2WK					
30 WEEDONE LV4	3.8 E		.5	LB A/A	2WK					
31 MON 58430	3.8 E		2	LB A/A	2WK	0	60	63	70	63
31 ROUNDUP ULTRA	4 AS		1	LB A/A	2WK					
31 WEEDONE LV4	3.8 E		.5	LB A/A	2WK					
32 ROUNDUP ULTRA	4 AS		1	LB A/A	PRE	0	33	57	83	50
LSD (P=.05)			0.0			0.0	12.6	20.7	16.2	16.3
Standard Deviation			0.0			0.0	7.7	12.7	9.9	10.0
CV							11.52	17.45	12.67	14.71

NO-TILL CORN EARLY PREPLANT

Trial ID: C7007                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

**GENERAL TRIAL INFORMATION**

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 5-7-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA GIANT FOXTAIL    2.XANST C. COCKLEBUR    3.IPOHE I. MORNINGGLORY  
4.ABUTH VELVETLEAF

Crop 1: ZEAMX FIELD CORN    Variety: PIONEER 3279                      Planting Date: 5-7-97  
Planting Method: ROW                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 60 F    Soil Moisture: NORMAL                      Emergence Date: 5-21-97

Plot Width, Unit: 5 FT                      Plot Length, Unit: 44 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

Texture: SILT LOAM                      % OM: 3                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5    CEC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP                      Distance: 1.5    Unit: MI

**APPLICATION DESCRIPTION**

	A	B	C	D	E	F
Application Date:	4-8-97	4-24-97	5-5-97	5-7-97		
Time of Day:	11:00 AM	2:00 PM	1:00 PM	3:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	4 WK	2 WK	1 WK	PRE		
Applic. Placement:	BROSOI	BROSOI	BROSOI	BROSOI		
Air Temp., Unit:	44 F	49 F	56 F	55 F		
% Relative Humidity:	40	73	63	55		
Wind Velocity, Unit:	5 MPH	4 MPH	4 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	50 F	52 F	55 F	60 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	50	60	75	40		

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
ZEAMX						

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
SETFA						
XANST						
IPOHE						
ABUTH						

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Weed Science Field Research

## NO-TILL CORN EARLY PREPLANT

Trial ID: C7007

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	4 WHEELER	4 WHEELER	4 WHEELER		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		
Propellant:	CO2	CO2	CO2	CO2		

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	CONAR	POLPY	CHEAL	SETFA	ZEAMX	CONAR	POLPY	CHEAL
Crop Code	ZEAMX				ZEAMX			
Part Rated	INJURY CONTROL CONTROL CONTROL CONTROL				INJURY CONTROL CONTROL CONTROL			
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEKS				4 WEEKS			
Rating Date	P	P	P	P	P	P	P	P
Footnote Number	0	0	0	0	0	0	0	0
Trt-Eval Interval	2 WEEKS				4 WEEKS			
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow										
No.	Name	Amt	Ds	Rate	Unit	Stg									
1	DUAL II MAGNUM	7.6	EC	1.56	LB A/A	4WK	0	87	88	80	97	0	87	88	72
1	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK									
1	CLARITY	4	S	.5	LB A/A	MP									
1	ACTIVATOR 90			.25	% V/V	MP									
2	TOPNOTCH	3.2	CS	2	LB A/A	4WK	0	82	93	93	98	0	80	92	82
2	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK									
2	CLARITY	4	S	.5	LB A/A	MP									
2	ACTIVATOR 90			.25	% V/V	MP									
3	FRONTIER	6	E	1.4	LB A/A	4WK	0	93	95	88	92	0	87	93	85
3	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK									
3	CLARITY	4	S	.5	LB A/A	MP									
3	ACTIVATOR 90			.25	% V/V	MP									
4	SURPASS	6.4	EC	2	LB A/A	4WK	0	87	78	85	98	0	87	72	75
4	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK									
4	CLARITY	4	S	.5	LB A/A	MP									
4	ACTIVATOR 90			.25	% V/V	MP									
5	HARNESS	7	EC	2	LB A/A	4WK	0	82	90	92	93	0	77	73	87
5	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK									
5	CLARITY	4	S	.5	LB A/A	MP									
5	ACTIVATOR 90			.25	% V/V	MP									
6	AXIOM	68	DF	.64	LB A/A	4WK	0	87	87	78	97	0	83	87	70
6	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK									
6	CLARITY	4	S	.5	LB A/A	MP									
6	ACTIVATOR 90			.25	% V/V	MP									
7	DUAL II MAGNUM	7.6	EC	1.56	LB A/A	2WK	0	90	98	88	100	0	88	98	77
7	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK									
7	CLARITY	4	S	.5	LB A/A	MP									
7	ACTIVATOR 90			.25	% V/V	MP									
8	TOPNOTCH	3.2	CS	2	LB A/A	2WK	0	93	100	100	100	0	92	98	97
8	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK									
8	CLARITY	4	S	.5	LB A/A	MP									
8	ACTIVATOR 90			.25	% V/V	MP									
9	FRONTIER	6	E	1.4	LB A/A	2WK	0	93	95	93	100	0	92	92	82
9	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK									
9	CLARITY	4	S	.5	LB A/A	MP									
9	ACTIVATOR 90			.25	% V/V	MP									

NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	CONAR	POLPY	CHEAL	SETFA	CONAR	POLPY	CHEAL	
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX	
Part Rated	INJURY CONTROL		CONTROL CONTROL		INJURY CONTROL		CONTROL CONTROL	
Rating Data Type	PERCENT PERCENT		PERCENT PERCENT		PERCENT PERCENT		PERCENT PERCENT	
Rating Unit	2 WEEKS		2 WEEKS		4 WEEKS		4 WEEKS	
Rating Date	P		P		P		P	
Footnote Number	0		0		0		0	
Trt-Eval Interval	0		0		0		0	
PRM Data Type	0		0		0		0	
# Subsamples, Dec.	0		0		0		0	

Trt Treatment No. Name	Form Fm	Rate	Grow	ZEAMX		ZEAMX		ZEAMX		ZEAMX			
	Ant	Ds	Unit	Stg	INJURY CONTROL	CONTROL CONTROL	INJURY CONTROL	CONTROL CONTROL	INJURY CONTROL	CONTROL CONTROL	INJURY CONTROL		
10 SURPASS	6.4	EC	2 LB A/A	2WK	0	95	97	100	100	0	92	92	87
10 ROUNDUP ULTRA	4	AS	1 LB A/A	2WK									
10 CLARITY	4	S	.5 LB A/A	MP									
10 ACTIVATOR 90			.25 % V/V	MP									
11 HARNESS	7	EC	2 LB A/A	2WK	0	97	98	98	98	0	97	97	88
11 ROUNDUP ULTRA	4	AS	1 LB A/A	2WK									
11 CLARITY	4	S	.5 LB A/A	MP									
11 ACTIVATOR 90			.25 % V/V	MP									
12 AXIOM	68	DF	.64 LB A/A	2WK	0	88	90	100	100	0	88	85	95
12 ROUNDUP ULTRA	4	AS	1 LB A/A	2WK									
12 CLARITY	4	S	.5 LB A/A	MP									
12 ACTIVATOR 90			.25 % V/V	MP									
13 DUAL II MAGNUM	7.6	EC	1.25 LB A/A	PRE	0	92	95	100	100	0	92	92	97
13 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE									
13 CLARITY	4	S	.5 LB A/A	MP									
13 ACTIVATOR 90			.25 % V/V	MP									
14 TOPNOTCH	3.2	CS	2 LB A/A	PRE	0	95	100	100	100	0	92	100	100
14 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE									
14 CLARITY	4	S	.5 LB A/A	MP									
14 ACTIVATOR 90			.25 % V/V	MP									
15 FRONTIER	6	E	1.3 LB A/A	PRE	0	97	98	100	100	0	97	98	100
15 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE									
15 CLARITY	4	S	.5 LB A/A	MP									
15 ACTIVATOR 90			.25 % V/V	MP									
16 SURPASS	6.4	EC	2 LB A/A	PRE	0	95	100	100	100	0	93	100	98
16 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE									
16 CLARITY	4	S	.5 LB A/A	MP									
16 ACTIVATOR 90			.25 % V/V	MP									
17 HARNESS	7	EC	2 LB A/A	PRE	0	97	70	100	100	0	97	100	100
17 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE									
17 CLARITY	4	S	.5 LB A/A	MP									
17 ACTIVATOR 90			.25 % V/V	MP									
18 AXIOM	68	DF	.47 LB A/A	PRE	0	90	100	100	100	0	93	100	100
18 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE									
18 CLARITY	4	S	.5 LB A/A	MP									
18 ACTIVATOR 90			.25 % V/V	MP									

NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	CONAR	POLPY	CHEAL	SETFA	CONAR	POLPY	CHEAL
Crop Code	ZEAMX			ZEAMX			
Part Rated	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0
-----							
Trt Treatment	Form Fm	Rate	Grow				
No. Name	Amt Ds	Rate	Unit	Stg			
=====							
LSD (P=.05)	0.0	11.1	24.1	9.3	6.2	0.0	12.4
Standard Deviation	0.0	6.7	14.5	5.6	3.7	0.0	7.5
CV	.	7.32	15.57	5.9	3.77	.	8.33
							10.67
							8.44

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NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	CONAR	POLPY	CHEAL
Crop Code		ZEAMX		
Part Rated				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
		Amt	Ds	Rate	Unit	P	P	P	P	P
						0	0	0	0	0
1	DUAL II MAGNUM	7.6	EC	1.56	LB A/A	4WK	80	0	87	88
1	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK				
1	CLARITY	4	S	.5	LB A/A	MP				
1	ACTIVATOR 90			.25	% V/V	MP				
2	TOPNOTCH	3.2	CS	2	LB A/A	4WK	92	0	80	92
2	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK				
2	CLARITY	4	S	.5	LB A/A	MP				
2	ACTIVATOR 90			.25	% V/V	MP				
3	FRONTIER	6	E	1.4	LB A/A	4WK	68	0	87	93
3	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK				
3	CLARITY	4	S	.5	LB A/A	MP				
3	ACTIVATOR 90			.25	% V/V	MP				
4	SURPASS	6.4	EC	2	LB A/A	4WK	85	0	87	72
4	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK				
4	CLARITY	4	S	.5	LB A/A	MP				
4	ACTIVATOR 90			.25	% V/V	MP				
5	HARNESS	7	EC	2	LB A/A	4WK	75	0	77	73
5	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK				
5	CLARITY	4	S	.5	LB A/A	MP				
5	ACTIVATOR 90			.25	% V/V	MP				
6	AXIOM	68	DF	.64	LB A/A	4WK	77	0	83	87
6	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK				
6	CLARITY	4	S	.5	LB A/A	MP				
6	ACTIVATOR 90			.25	% V/V	MP				
7	DUAL II MAGNUM	7.6	EC	1.56	LB A/A	2WK	88	0	88	98
7	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK				
7	CLARITY	4	S	.5	LB A/A	MP				
7	ACTIVATOR 90			.25	% V/V	MP				
8	TOPNOTCH	3.2	CS	2	LB A/A	2WK	90	0	92	98
8	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK				
8	CLARITY	4	S	.5	LB A/A	MP				
8	ACTIVATOR 90			.25	% V/V	MP				
9	FRONTIER	6	E	1.4	LB A/A	2WK	82	0	92	92
9	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK				
9	CLARITY	4	S	.5	LB A/A	MP				
9	ACTIVATOR 90			.25	% V/V	MP				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	CONAR	POLPY	CHEAL
Crop Code	ZEAMX			
Part Rated				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow	SETFA	CONAR	POLPY	CHEAL
		Amt	Ds	Rate	Unit				
10	SURPASS	6.4	EC	2	LB A/A 2WK	88	0	92	87
10	ROUNDUP ULTRA	4	AS	1	LB A/A 2WK				
10	CLARITY	4	S	.5	LB A/A MP				
10	ACTIVATOR 90			.25	% V/V MP				
11	HARNESS	7	EC	2	LB A/A 2WK	85	0	97	88
11	ROUNDUP ULTRA	4	AS	1	LB A/A 2WK				
11	CLARITY	4	S	.5	LB A/A MP				
11	ACTIVATOR 90			.25	% V/V MP				
12	AXIOM	68	DF	.64	LB A/A 2WK	93	0	88	95
12	ROUNDUP ULTRA	4	AS	1	LB A/A 2WK				
12	CLARITY	4	S	.5	LB A/A MP				
12	ACTIVATOR 90			.25	% V/V MP				
13	DUAL II MAGNUM	7.6	EC	1.25	LB A/A PRE	92	0	92	97
13	ROUNDUP ULTRA	4	AS	1	LB A/A PRE				
13	CLARITY	4	S	.5	LB A/A MP				
13	ACTIVATOR 90			.25	% V/V MP				
14	TOPNOTCH	3.2	CS	2	LB A/A PRE	95	0	92	100
14	ROUNDUP ULTRA	4	AS	1	LB A/A PRE			100	100
14	CLARITY	4	S	.5	LB A/A MP				
14	ACTIVATOR 90			.25	% V/V MP				
15	FRONTIER	6	E	1.3	LB A/A PRE	93	0	97	100
15	ROUNDUP ULTRA	4	AS	1	LB A/A PRE				
15	CLARITY	4	S	.5	LB A/A MP				
15	ACTIVATOR 90			.25	% V/V MP				
16	SURPASS	6.4	EC	2	LB A/A PRE	92	0	93	98
16	ROUNDUP ULTRA	4	AS	1	LB A/A PRE			100	
16	CLARITY	4	S	.5	LB A/A MP				
16	ACTIVATOR 90			.25	% V/V MP				
17	HARNESS	7	EC	2	LB A/A PRE	90	0	97	100
17	ROUNDUP ULTRA	4	AS	1	LB A/A PRE			70	
17	CLARITY	4	S	.5	LB A/A MP				
17	ACTIVATOR 90			.25	% V/V MP				
18	AXIOM	68	DF	.47	LB A/A PRE	88	0	93	100
18	ROUNDUP ULTRA	4	AS	1	LB A/A PRE			100	
18	CLARITY	4	S	.5	LB A/A MP				
18	ACTIVATOR 90			.25	% V/V MP				



NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA		CONAR	POLPY	CHEAL
Crop Code			ZEAMX		
Part Rated					
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Fm		Rate	Grow						
	Ant	Ds	Rate	Unit	Stg					
LSD (P=.05)	13.9	0.0	12.4	26.8	12.4					
Standard Deviation	8.3	0.0	7.5	16.1	7.5					
CV	9.67	.	8.33	17.76	8.44					

NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.POLPY PENN. SMARTWEED 3.CHEAL C.LAMBSQUARTERS

Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-7-96  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 59 F Soil Moisture: NORMAL Emergence Date: 5-22-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-10-97	4-24-97	5-7-97	6-4-97		
Time of Day:	10:00 AM	11:00 AM	2:00 PM	4:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	4 WK	2 WK	PRE	MP		
Applic. Placement:	BROSIOI	BROSIOI	BROSIOI	BROFOL		
Air Temp., Unit:	42 F	49 F	55 F	60 F		
% Relative Humidity:	50	70	60	91		
Wind Velocity, Unit:	5 MPH	4 MPH	4 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	47 F	54 F	58 F	64 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	70	60	70	60		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX				MP		
				3 LVS		
				6 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA				MP		
				3 LVS		
				3-4 IN		
POLPY				6 LVS		
				4-5 IN		
CHEAL				>10 LVS		
				1-4 IN		

## NO-TILL CORN EARLY PREPLANT II

Trial ID: C7008

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	4 WHEELER	4 WHEELER	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 MPH	25 MPH	25 MPH	25 MPH		
Propellant:	CO2	CO2	CO2	CO2		

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Weed Science Field Research

NO-TILL CORN EARLY PREPLANT BALANCE

Trial ID: 97J11 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	ZEAMX	ZEAMX	IPOHE	SETFA	GGGGG	BBBBB	ZEAMX	IPOHE	SETFA	ABUTH
Crop Code										
Part Rated										
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date										
Footnote Number										
Trt-Eval Interval	V 1	V 3 4	WEEKS 4	WEEKS 4	8 WEEKS 8	8 WEEKS 8	8 WEEKS 8	8 WEEKS 8	8 WEEKS 8	8 WEEKS 8
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg										
1 BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	90	97	53	60	0	53	57	67
1 HARNESS	7	EC	.79	LB A/A	EPP										
1 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
2 BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	93	100	60	70	0	60	60	83
2 HARNESS	7	EC	1	LB A/A	EPP										
2 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
3 BALANCE	75	WG	1.88	OZ A/A	EPP	0	0	90	100	63	63	0	60	60	73
3 HARNESS	7	EC	1.25	LB A/A	EPP										
3 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
4 BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	97	93	57	80	0	70	57	83
4 HARNESS	7	EC	.79	LB A/A	EPP										
4 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
5 BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	90	100	67	70	0	60	67	80
5 HARNESS	7	EC	1	LB A/A	EPP										
5 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
6 BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	90	97	60	77	0	60	60	87
6 HARNESS	7	EC	1.25	LB A/A	EPP										
6 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
7 BALANCE	75	WG	2.25	OZ A/A	EPP	0	0	90	100	70	87	0	90	70	90
7 AATREX	4	F	2	LB A/A	EPP										
7 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
8 EXP31498A	4.4	EC	1.38	LB A/A	EPP	0	0	90	100	60	63	0	57	60	73
8 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
9 EXP31498A	4.4	EC	1.65	LB A/A	EPP	0	0	90	100	70	60	0	53	70	70
9 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
10 EXP31430A	4.3	SC	1.34	LB A/A	EPP	0	0	90	97	60	83	0	73	60	83
10 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
11 EXP31430A	4.3	SC	1.61	LB A/A	EPP	0	0	97	93	60	87	0	90	60	93
11 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										
12 BICEP II	5.9	F	3.5	LB A/A	EPP	0	0	97	100	87	87	0	90	87	87
12 ROUNDUP ULTRA	4	AS	1	LB A/A	EPP										

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL CORN EARLY PREPLANT BALANCE

Trial ID: 97J11                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	ZEAMX		ZEAMX	IPOHE	SETFA	GGGGG	BBBBB	ZEAMX	IPOHE	SETFA	ABUTH	
Crop Code	ZEAMX		ZEAMX	IPOHE	SETFA	GGGGG	BBBBB	ZEAMX	IPOHE	SETFA	ABUTH	
Part Rated	ZEAMX		ZEAMX	IPOHE	SETFA	GGGGG	BBBBB	ZEAMX	IPOHE	SETFA	ABUTH	
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date												
Footnote Number												
Trt-Eval Interval	V 1	V 3	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	
PRM Data Type	P	P	P	P	P	P	P	P	P	P	P	
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	
Trt Treatment	Form	Fm	Rate	Grow								
No. Name	Amt	Ds	Rate	Unit	Stg							
=====												
LSD (P=.05)	0.0	0.0	5.6	5.8	16.5	8.8	0.0	12.3	16.8	13.9		
Standard Deviation	0.0	0.0	3.3	3.4	9.8	5.2	0.0	7.3	9.9	8.2		
CV	.	.	3.63	3.51	15.27	7.04	.	10.67	15.51	10.16		

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NO-TILL CORN EARLY PREPLANT BALANCE

Trial ID: 97J11 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-25-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.IPOHE IVYLEAF 3.ABUTH VELVETLEAF  
Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-2-97  
Planting Method: ROWED Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: SMOOTH/TRASHY  
Soil Temperature: 62 F Soil Moisture: DRY Emergence Date: 5-17-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 2.9 % Sand: 8 % Silt: 66 % Clay: 26  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP FARM Distance: 2 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-24-97					
Time of Day:	3 PM					
Application Method:	SPRAY					
Application Timing:	EPP					
Applic. Placement:	BROSOI					
Air Temp., Unit:	60 F					
% Relative Humidity:	20					
Wind Velocity, Unit:	3 MPH					
Dew Presence (Y/N):	N					
Soil Temp., Unit:	58 F					
Soil Moisture:	ADEQUATE					
% Cloud Cover:	20					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
Density, Unit:	>50	M2				
IPOHE						
Density, Unit:	6	M2				
ABUTH						
Density, Unit:	4	M2				

NO-TILL CORN EARLY PREPLANT BALANCE

Trial ID: 97J11                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4	WHEELER				
Operating Pressure:	30					
Nozzle Type:	FLAT	FAN				
Nozzle Size:	8004	DG				
Nozzle Spacing, Unit:	20	IN				
Boom Length, Unit:	5	FT				
Boom Height, Unit:	19	IN				
Ground Speed, Unit:	4	MPH				
Carrier:	WATER					
Spray Volume, Unit:	24	GPA				
Propellant:	CO2					

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SOYBEAN PREEMERGENCE

Trial ID: S7011  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB	GLYMA	SETFA	XANST	AMBTR	GLYMA	SETFA	XANST	AMBTR
Crop Code										
Part Rated										
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date										
Footnote Number										
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg	GGGGG	BBBBB	GLYMA	SETFA	XANST	AMBTR	GLYMA	SETFA	XANST	AMBTR
1	SQUADRON	2.33	EC	.87	LB	A/A	PRE	97	50	0	97	47	50	0	97	13	13
1	PROWL	3.3	EC	.5	LB	A/A	PRE										
2	DETAIL	4.1	EC	1.03	LB	A/A	PRE	100	53	0	100	50	53	0	100	17	17
3	TURBO	8	EC	2.25	LB	A/A	PRE	100	23	0	100	20	27	0	100	10	10
3	FIRSTRATE	84	W	.016	LB	A/A	PRE										
4	TURBO	8	EC	2.25	LB	A/A	PRE	97	17	0	97	17	23	0	97	10	10
4	AUTHORITY BROADLEAF						PRE										
4	AUTHORITY	75	DF	.1	LB	A/A	PRE										
4	CLASSIC	25	DF	.02	LB	A/A	PRE										
5	TURBO	8	EC	2.25	LB	A/A	PRE	100	27	0	100	23	30	0	100	10	13
5	CANOPY	75	DF	.14	LB	A/A	PRE										
6	AXIOM	68	DF	.64	LB	A/A	PRE	100	43	0	100	43	47	0	100	13	13
6	CANOPY	75	DF	.28	LB	A/A	PRE										
7	AXIOM	68	DF	.64	LB	A/A	PRE	100	75	0	100	75	72	0	100	23	17
7	AUTHORITY BROADLEAF						PRE										
7	AUTHORITY	75	DF	.2	LB	A/A	PRE										
7	CLASSIC	25	DF	.04	LB	A/A	PRE										
8	AXIOM	68	DF	.73	LB	A/A	PRE	100	75	0	100	78	75	0	100	37	38
8	FIRSTRATE	84	W	.031	LB	A/A	PRE										
9	AUTHORITY BROADLEAF						PRE	82	63	0	82	63	63	0	85	30	17
9	AUTHORITY	75	DF	.2	LB	A/A	PRE										
9	CLASSIC	25	DF	.04	LB	A/A	PRE										
10	AUTHORITY BROADLEAF						PRE	97	42	0	97	43	40	0	97	20	27
10	AUTHORITY	75	DF	.2	LB	A/A	PRE										
10	CLASSIC	25	DF	.04	LB	A/A	PRE										
10	MATADOR	.88	E	.055	LB	A/A	MP										
10	ACTIVATOR 90			.25	%	V/V	MP										
11	AUTHORITY BROADLEAF						PRE	70	88	0	70	87	93	0	55	87	90
11	AUTHORITY	75	DF	.2	LB	A/A	PRE										
11	CLASSIC	25	DF	.04	LB	A/A	PRE										
11	SKIRMISH	25	DF	.008	LB	A/A	MP										
11	ACTIVATOR 90			.25	%	V/V	MP										



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SOYBEAN PREEMERGENCE

Trial ID: S7011 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GGGGG	BBBBB	GLYMA	SETFA	XANST	AMBTR	GLYMA	SETFA	XANST	AMBTR	
			CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
			4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GGGGG	BBBBB	GLYMA	SETFA	XANST	AMBTR	GLYMA	SETFA	XANST	AMBTR
12	AUTHORITY BROADLEAF	75	DF	.2	LB A/A	PRE	98	90	0	98	90	93	0	98	85	83
12	AUTHORITY	25	DF	.04	LB A/A	PRE										
12	CLASSIC	.88	E	.055	LB A/A	MP										
12	MATADOR	25	DF	.008	LB A/A	MP										
12	SKIRMISH			.25	% V/V	MP										
12	ACTIVATOR 90															
13	AUTHORITY BROADLEAF	75	DF	.2	LB A/A	PRE	97	57	0	97	57	57	0	97	20	13
13	AUTHORITY	25	DF	.04	LB A/A	PRE										
13	CLASSIC	7.8	EC	1	LB A/A	PRE										
13	DUAL II															
14	AUTHORITY BROADLEAF	75	DF	.2	LB A/A	PRE	100	72	0	100	72	72	0	100	40	30
14	AUTHORITY	25	DF	.04	LB A/A	PRE										
14	CLASSIC	3	ME	.75	LB A/A	PRE										
14	COMMAND															
15	AUTHORITY BROADLEAF	75	DF	.2	LB A/A	PRE	92	90	0	92	88	95	0	88	87	95
15	AUTHORITY	25	DF	.04	LB A/A	PRE										
15	CLASSIC	7.8	EC	1	LB A/A	PRE										
15	DUAL II	25	DF	.008	LB A/A	MP										
15	SKIRMISH			.25	% V/V	MP										
15	ACTIVATOR 90															
16	AUTHORITY	75	DF	.25	LB A/A	PRE	82	82	0	82	82	82	0	83	42	43
16	FIRSTRATE	84	W	.033	LB A/A	PRE										
17	COMMAND	3	ME	1	LB A/A	PRE	100	50	0	100	50	50	0	100	23	23
18	PROWL	3.3	EC	1	LB A/A	PRE	93	3	0	93	3	3	0	97	3	3
19	COMMAND	3	ME	.75	LB A/A	PRE	100	68	0	100	68	73	0	100	38	43
19	PURSUIT	70	DF	.063	LB A/A	MP										
19	SUNIT II	L		.75	QT/A	MP										
19	LIQUID N	L		1	QT/A	MP										
20	COMMAND	3	ME	.75	LB A/A	PRE	100	40	0	100	37	43	0	100	13	50
20	GALAXY	3.67	EC	.92	LB A/A	MP										
20	COC	L		1	QT/A	MP										
21	V-53482	50	WP	.063	LB A/A	PRE	100	3	0	100	3	3	0	100	0	3
21	DUAL II	7.8	EC	1.95	LB A/A	PRE										
21	SELECT	2	EC	.094	LB A/A	LP										
21	COC	L		1	QT/A	LP										

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SOYBEAN PREEMERGENCE

Trial ID: S7011 Investigator:  
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Weed Code	GGGGG	BBBBB	GLYMA	SETFA	XANST	AMBTR	GLYMA	SETFA	XANST	AMBTR
Crop Code										
Part Rated										
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date										
Footnote Number										
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow											
No.	Name	Amt	Ds	Rate	Unit	Stg										
22	V-53482	50	WP	.078	LB	A/A PRE	100	7	0	100	7	7	0	100	0	7
22	DUAL II	7.8	EC	1.95	LB	A/A PRE										
22	SELECT	2	EC	.094	LB	A/A LP										
22	COC	L		1	QT/A	LP										
23	V-53482	50	WP	.094	LB	A/A PRE	100	20	0	100	20	20	0	100	3	17
23	DUAL II	7.8	EC	1.95	LB	A/A PRE										
23	SELECT	2	EC	.094	LB	A/A LP										
23	COC	L		1	QT/A	LP										
24	AUTHORITY	75	DF	.25	LB	A/A PRE	100	13	0	100	13	13	0	100	3	10
24	DUAL II	7.8	EC	1.95	LB	A/A PRE										
24	SELECT	2	EC	.094	LB	A/A LP										
24	COC	L		1	QT/A	LP										
25	AUTHORITY	75	DF	.313	LB	A/A PRE	100	7	0	100	7	7	0	100	0	7
25	DUAL II	7.8	EC	1.95	LB	A/A PRE										
25	SELECT	2	EC	.094	LB	A/A LP										
25	COC	L		1	QT/A	LP										
26	AUTHORITY	75	DF	.375	LB	A/A PRE	100	7	0	100	7	7	0	100	0	3
26	DUAL II	7.8	EC	1.95	LB	A/A PRE										
26	SELECT	2	EC	.094	LB	A/A LP										
26	COC	L		1	QT/A	LP										
27	BROADSTRIKE + DUAL S	7.75	SC	1.93	LB	A/A PRE	100	53	0	100	53	53	0	93	17	23
28	BROADSTRIKE + DUAL S	7.75	SC	1.93	LB	A/A PRE	100	43	0	100	43	43	0	100	13	20
28	SENCOR	75	DF	.19	LB	A/A PRE										
29	BROADSTRIKE + DUAL S	7.75	SC	1.93	LB	A/A PRE	100	72	0	100	72	75	0	97	33	33
29	CANOPY	75	DF	.19	LB	A/A PRE										
30	BROADSTRIKE + DUAL S	7.75	SC	1.93	LB	A/A PRE	100	68	0	100	68	72	0	100	23	27
30	SCEPTER	70	WG	.031	LB	A/A PRE										
31	BROADSTRIKE	80	WG	.062	LB	A/A PRE	100	60	0	100	60	70	0	100	40	60
31	STRONGARM	84	WG	.008	LB	A/A PRE										
31	SELECT	2	EC	.094	LB	A/A MP										
31	COC	L		1	QT/A	MP										
32	STRONGARM	84	WG	.024	LB	A/A PRE	97	77	0	97	87	93	0	97	73	93
32	SELECT	2	EC	.094	LB	A/A MP										
32	COC	L		1	QT/A	MP										

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Weed Code	GGGGG	BBBBB	GLYMA	SETFA	XANST	AMBTR	GLYMA	SETFA	XANST	AMBTR					
Crop Code															
Part Rated															
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Date															
Footnote Number															
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS					
PRM Data Type	P	P	P	P	P	P	P	P	P	P					
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0					
-----															
Trt Treatment	Form	Fm	Rate	Grow											
No. Name	Amt	Ds	Rate	Unit	Stg										
=====															
33 FIRSTRATE	84	W	.032	LB	A/A PRE	97	53	0	97	55	57	0	97	20	27
33 SELECT	2	EC	.094	LB	A/A MP										
33 COC		L		1	QT/A MP										
34 CHECK						0	0	0	0	0	0	0	0	0	0
LSD (P=.05)						7.6	19.7	0.0	7.6	20.1	21.2	0.0	7.5	21.0	26.5
Standard Deviation						4.6	12.1	0.0	4.6	12.3	13.0	0.0	4.6	12.9	16.2
CV						4.93	25.78	.	4.93	26.35	26.52	.	4.92	51.66	56.35

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE II

Trial ID: S7015      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	CHEAL	AMBTR	CHEAL	AMBTR	CHEAL	AMBTR
Crop Code	GLYMA		GLYMA		GLYMA	
Part Rated						
Rating Data Type	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL	INJURY CONTROL CONTROL
Rating Unit	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow								
		Amt	Ds	Unit	Stg								
1	PURSUIT	70	DF	.032 LB A/A	MP	2	30	85	0	30	37	0	0
1	COC		L	.5 QT/A	MP								
1	LIQUID N		L	2 QT/A	MP								
1	SELECT	2	EC	.094 LB A/A	+1W								
1	COC		L	1 QT/A	+1W								
2	PURSUIT	70	DF	.063 LB A/A	MP	2	30	88	0	30	43	0	0
2	COC		L	.5 QT/A	MP								
2	LIQUID N		L	2 QT/A	MP								
2	SELECT	2	EC	.094 LB A/A	+1W								
2	COC		L	1 QT/A	+1W								
3	STELLAR	3.10	EC	.17 LB A/A	MP	10	95	85	0	87	60	0	0
3	PURSUIT	70	DF	.032 LB A/A	MP								
3	COC		L	.5 QT/A	MP								
3	LIQUID N		L	2 QT/A	MP								
3	SELECT	2	EC	.094 LB A/A	+1W								
3	COC		L	1 QT/A	+1W								
4	RAPTOR	1	E	.016 LB A/A	MP	2	68	58	0	63	20	0	0
4	COC		L	.5 QT/A	MP								
4	LIQUID N		L	2 QT/A	MP								
4	SELECT	2	EC	.094 LB A/A	+1W								
4	COC		L	1 QT/A	+1W								
5	RAPTOR	1	E	.032 LB A/A	MP	5	75	82	0	65	37	0	0
5	COC		L	.5 QT/A	MP								
5	LIQUID N		L	2 QT/A	MP								
5	SELECT	2	EC	.094 LB A/A	+1W								
5	COC		L	1 QT/A	+1W								
6	STELLAR	3.10	EC	.17 LB A/A	MP	10	95	85	0	87	53	0	0
6	RAPTOR	1	E	.016 LB A/A	MP								
6	COC		L	.5 QT/A	MP								
6	LIQUID N		L	2 QT/A	MP								
6	SELECT	2	EC	.094 LB A/A	+1W								
6	COC		L	1 QT/A	+1W								
7	GALAXY	3.67	EC	.46 LB A/A	MP	0	90	23	0	90	0	0	0
7	COC		L	.5 QT/A	MP								
7	SELECT	2	EC	.094 LB A/A	+1W								
7	COC		L	1 QT/A	+1W								

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SOYBEAN POSTEMERGENCE II

Trial ID: S7015 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	CHEAL	AMBTR	CHEAL	AMBTR	CHEAL	AMBTR
Crop Code	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
Part Rated	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg								
8	GALAXY	3.67	EC	.92	LB	A/A	MP	0	93	50	0	90	7	0	0
8	COC	L		.5	QT/A		MP								
8	SELECT	2	EC	.094	LB	A/A	+1W								
8	COC	L		1	QT/A		+1W								
9	STELLAR	3.10	EC	.17	LB	A/A	MP	10	95	90	0	90	63	0	0
9	GALAXY	3.67	EC	.46	LB	A/A	MP								
9	COC	L		.5	QT/A		MP								
9	SELECT	2	EC	.094	LB	A/A	+1W								
9	COC	L		1	QT/A		+1W								
10	CLASSIC	25	DF	.006	LB	A/A	MP	0	40	80	0	40	50	0	0
10	COC	L		.5	QT/A		MP								
10	SELECT	2	EC	.094	LB	A/A	+1W								
10	COC	L		1	QT/A		+1W								
11	CLASSIC	25	DF	.012	LB	A/A	MP	0	43	88	0	43	78	0	0
11	COC	L		.5	QT/A		MP								
11	SELECT	2	EC	.094	LB	A/A	+1W								
11	COC	L		1	QT/A		+1W								
12	STELLAR	3.10	EC	.17	LB	A/A	MP	5	92	92	0	80	90	0	43
12	CLASSIC	25	DF	.006	LB	A/A	MP								
12	COC	L		.5	QT/A		MP								
12	SELECT	2	EC	.094	LB	A/A	+1W								
12	COC	L		1	QT/A		+1W								
13	STELLAR	3.10	EC	.17	LB	A/A	MP	10	95	86	0	90	65	0	0
13	COC	L		.5	QT/A		MP								
13	SELECT	2	EC	.094	LB	A/A	+1W								
13	COC	L		1	QT/A		+1W								
14	STELLAR	3.10	EC	.12	LB	A/A	MP	10	95	85	0	87	50	0	0
14	COC	L		.5	QT/A		MP								
14	LIQUID N	L		2	QT/A		MP								
14	SELECT	2	EC	.094	LB	A/A	+1W								
14	COC	L		1	QT/A		+1W								
15	STELLAR	3.10	EC	.17	LB	A/A	MP	12	95	88	0	88	53	0	0
15	COC	L		.5	QT/A		MP								
15	LIQUID N	L		2	QT/A		MP								
15	SELECT	2	EC	.094	LB	A/A	+1W								
15	COC	L		1	QT/A		+1W								

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE II

Trial ID: S7015  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GLYMA	CHEAL	AMBTR	GLYMA	CHEAL	AMBTR	GLYMA	AMBTR
										INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT
										2 WEEK P	2 WEEK P	2 WEEK P	4 WEEK P	4 WEEK P	WEEK P	8 WEEK P	8 WEEK P
										0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	CHEAL	AMBTR	GLYMA	CHEAL	AMBTR	GLYMA	AMBTR
22	CLASSIC	25	DF	.008	LB	A/A MP	0	30	90	0	30	70	0	10
	COC		L	.5	QT/A	MP								
22	LIQUID N		L	2	QT/A	MP								
22	SELECT	2	EC	.094	LB	A/A +1W								
	COC		L	1	QT/A	+1W								
23	STELLAR	3.10	EC	.12	LB	A/A MP	10	95	85	0	90	70	0	0
	PURSUIT	70	DF	.032	LB	A/A MP								
	COC		L	.5	QT/A	MP								
	LIQUID N		L	2	QT/A	MP								
	SELECT	2	EC	.094	LB	A/A +1W								
	COC		L	1	QT/A	+1W								
24	STELLAR	3.10	EC	.12	LB	A/A MP	10	95	92	0	90	75	0	0
	PURSUIT	70	DF	.063	LB	A/A MP								
	COC		L	.5	QT/A	MP								
	LIQUID N		L	2	QT/A	MP								
	SELECT	2	EC	.094	LB	A/A +1W								
	COC		L	1	QT/A	+1W								
25	STELLAR	3.10	EC	.17	LB	A/A MP	10	95	88	0	88	70	0	0
	PURSUIT	70	DF	.032	LB	A/A MP								
	COC		L	.5	QT/A	MP								
	LIQUID N		L	2	QT/A	MP								
	SELECT	2	EC	.094	LB	A/A +1W								
	COC		L	1	QT/A	+1W								
26	STELLAR	3.10	EC	.17	LB	A/A MP	8	95	85	0	90	55	0	0
	PURSUIT	70	DF	.063	LB	A/A MP								
	COC		L	.5	QT/A	MP								
	LIQUID N		L	2	QT/A	MP								
	SELECT	2	EC	.094	LB	A/A +1W								
	COC		L	1	QT/A	+1W								
LSD (P=.05)							4.7	9.3	8.7	0.0	10.3	17.8	0.0	15.8
Standard Deviation							2.9	5.6	5.3	0.0	6.3	10.8	0.0	9.6
CV							44.35	6.97	6.55	.	8.23	19.72	.	169.61

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## SOYBEAN POSTEMERGENCE II

Trial ID: S7015

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				

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SOYBEAN POSTEMERGENCE III

Trial ID: S7023  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	SETFA	XANST	CHEAL
Crop Code	GLYMA			GLYMA		
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	2 WEEKS	2 WEEKS	2 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	1 WEEK P	1 WEEK P	1 WEEK P	1 WEEK P	2 WEEKS P	2 WEEKS P	2 WEEKS P	2 WEEKS P
1 RESOURCE	.86	EC	.027	LB A/A	MP	20	72	95	90	13	60	93	88
1 BASAGRAN	4	E	.5	LB A/A	MP								
1 COC		L	.5	QT/A	MP								
1 LIQUID N		L	1	QT/A	MP								
1 SELECT	2	EC	.094	LB A/A	1WK								
1 COC		L	1	QT/A	+1W								
2 RESOURCE	.86	EC	.027	LB A/A	MP	27	70	93	92	20	67	92	92
2 COBRA	2	EC	.094	LB A/A	MP								
2 COC		L	.5	QT/A	MP								
2 LIQUID N		L	1	QT/A	MP								
2 SELECT	2	EC	.094	LB A/A	+1W								
2 COC		L	1	QT/A	+1W								
3 RESOURCE	.86	EC	.027	LB A/A	MP	13	75	90	95	7	73	90	95
3 CLASSIC	25	DF	.006	LB A/A	MP								
3 COC		L	.5	QT/A	MP								
3 LIQUID N		L	1	QT/A	MP								
3 SELECT	2	EC	.094	LB A/A	+1W								
3 COC		L	1	QT/A	+1W								
4 RESOURCE	.86	EC	.027	LB A/A	MP	23	98	97	93	20	97	95	92
4 PURSUIT	70	DF	.063	LB A/A	MP								
4 COC		L	.5	QT/A	MP								
4 LIQUID N		L	1	QT/A	MP								
4 SELECT	2	EC	.094	LB A/A	+1W								
4 COC		L	1	QT/A	+1W								
5 RESOURCE	.86	EC	.027	LB A/A	MP	20	88	98	88	13	92	97	88
5 SCEPTER	70	WG	.063	LB A/A	MP								
5 COC		L	.5	QT/A	MP								
5 LIQUID N		L	1	QT/A	MP								
5 SELECT	2	EC	.094	LB A/A	+1W								
5 COC		L	1	QT/A	+1W								
6 RESOURCE	.86	EC	.027	LB A/A	MP	40	95	97	95	30	95	93	88
6 COBRA	2	EC	.094	LB A/A	MP								
6 SELECT	2	EC	.094	LB A/A	MP								
6 COC		L	.5	QT/A	MP								
6 LIQUID N		L	1	QT/A	MP								



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SOYBEAN POSTEMERGENCE III

Trial ID: S7023 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
										INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
										1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
										P	P	P	P	P	P	P	P
										0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Rate	Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
7	RESOURCE	.86	EC	.027	LB	A/A	MP		30	98	92	97	20	98	90	95
7	PURSUIT	70	DF	.063	LB	A/A	MP									
7	SELECT	2	EC	.094	LB	A/A	MP									
7	COC	L		.5	QT/A		MP									
7	LIQUID N	L		1	QT/A		MP									
8	RESOURCE	.86	EC	.027	LB	A/A	MP		40	95	97	95	30	95	93	95
8	COBRA	2	EC	.063	LB	A/A	MP									
8	PURSUIT	70	DF	.063	LB	A/A	MP									
8	COC	L		.5	QT/A		MP									
8	LIQUID N	L		1	QT/A		MP									
8	SELECT	2	EC	.094	LB	A/A	+1W									
8	COC	L		.5	QT/A		+1W									
8	LIQUID N	L		1	QT/A		+1W									
9	RESOURCE	.86	EC	.027	LB	A/A	MP		33	85	100	100	30	83	97	100
9	COBRA	2	EC	.094	LB	A/A	MP									
9	BASAGRAN	4	E	.5	LB	A/A	MP									
9	COC	L		.5	QT/A		MP									
9	LIQUID N	L		1	QT/A		MP									
9	SELECT	2	EC	.094	LB	A/A	+1W									
9	COC	L		.5	QT/A		+1W									
9	LIQUID N	L		1	QT/A		+1W									
10	RESOURCE	.86	EC	.027	LB	A/A	MP		33	88	93	95	23	88	90	93
10	STORM	4	EC	.75	LB	A/A	MP									
10	COC	L		.5	QT/A		MP									
10	LIQUID N	L		1	QT/A		MP									
10	SELECT	2	EC	.094	LB	A/A	+1W									
10	COC	L		.5	QT/A		+1W									
10	LIQUID N	L		1	QT/A		+1W									
11	RESOURCE	.86	EC	.027	LB	A/A	MP		23	88	98	95	20	88	93	93
11	REFLEX	2	EC	.25	LB	A/A	MP									
11	COC	L		.5	QT/A		MP									
11	LIQUID N	L		1	QT/A		MP									
11	SELECT	2	EC	.094	LB	A/A	+1W									
11	COC	L		.5	QT/A		+1W									
11	LIQUID N	L		1	QT/A		+1W									

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE III

Trial ID: S7023  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
Crop Code	INJURY CONTROL CONTROL CONTROL		INJURY CONTROL CONTROL CONTROL		INJURY CONTROL CONTROL CONTROL		INJURY CONTROL CONTROL CONTROL	
Part Rated	PERCENT PERCENT PERCENT PERCENT		PERCENT PERCENT PERCENT PERCENT		PERCENT PERCENT PERCENT PERCENT		PERCENT PERCENT PERCENT PERCENT	
Rating Data Type	1 WEEK 1 WEEK 1 WEEK 1 WEEK		2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS		2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS		2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS	
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
No.	Name	Amt	Ds	Rate	Unit	Stg								
12	RESOURCE	.86	EC	.027	LB A/A	MP	17	62	92	95	13	60	90	95
12	PINNACLE	25	DF	.004	LB A/A	MP								
12	ACTIVATOR 90			.25	g V/V	MP								
12	SELECT	2	EC	.094	LB A/A	+1W								
12	COC		L	.5	QT/A	+1W								
12	LIQUID N		L	1	QT/A	+1W								
13	SELECT	2	EC	.063	LB A/A	MP	7	100	20	10	0	100	20	10
13	COC		L	1	QT/A	MP								
14	SELECT	2	EC	.094	LB A/A	MP	27	100	93	90	23	97	90	82
14	COBRA	2	EC	.125	LB A/A	MP								
14	COC		L	.5	LB A/A	MP								
14	LIQUID N		L	2	QT/A	MP								
15	SELECT	2	EC	.094	LB A/A	MP	10	100	92	83	10	100	90	78
15	PURSUIT	70	DF	.063	LB A/A	MP								
15	COC		L	1	LB A/A	MP								
15	LIQUID N		L	1	QT/A	MP								
16	SELECT	2	EC	.094	LB A/A	MP	7	97	93	68	0	97	93	68
16	CLASSIC	25	DF	.008	LB A/A	MP								
16	COC		L	.5	LB A/A	MP								
16	LIQUID N		L	1	QT/A	MP								
17	SELECT	2	EC	.094	LB A/A	MP	40	100	95	90	30	95	87	83
17	COBRA	2	EC	.2	LB A/A	MP								
17	COC		L	.5	LB A/A	MP								
17	LIQUID N		L	1	QT/A	MP								
18	SELECT	2	EC	.094	LB A/A	MP	10	95	83	85	7	95	77	78
18	BASAGRAN	4	E	.75	LB A/A	MP								
18	COC		L	1	LB A/A	MP								
18	LIQUID N		L	1	QT/A	MP								
19	SELECT	2	EC	.094	LB A/A	MP	40	98	98	93	37	98	93	92
19	PURSUIT	70	DF	.063	LB A/A	MP								
19	COBRA	2	EC	.125	LB A/A	MP								
19	COC		L	.5	LB A/A	MP								
19	LIQUID N		L	2	QT/A	MP								

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE III

Trial ID: S7023 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
Crop Code	INJURY CONTROL		CONTROL CONTROL		INJURY CONTROL		CONTROL CONTROL	
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form	Fm	Rate	Grow										
	Amt	Ds	Rate	Unit	Stg									
20 SELECT	2	EC	.094	LB	A/A	MP	27	97	100	100	20	93	95	100
20 PINNACLE	25	DF	.004	LB	A/A	MP								
20 COBRA	2	EC	.125	LB	A/A	MP								
20 COC	L		.5	LB	A/A	MP								
20 LIQUID N	L		1	QT/A		MP								
21 SELECT	2	EC	.094	LB	A/A	MP	23	95	98	92	20	95	97	92
21 CLASSIC	25	DF	.008	LB	A/A	MP								
21 COBRA	2	EC	.125	LB	A/A	MP								
21 COC	L		.5	LB	A/A	MP								
22 SELECT	2	EC	.094	LB	A/A	MP	33	97	95	93	30	93	87	87
22 BASAGRAN	4	E	.5	LB	A/A	MP								
22 COBRA	2	EC	.125	LB	A/A	MP								
22 COC	L		.5	LB	A/A	MP								
22 LIQUID N	L		2	QT/A		MP								
LSD (P=.05)			8.4				8.4	13.6	10.9	8.2	6.7	13.6	12.2	7.6
Standard Deviation			5.1				5.1	8.3	6.6	5.0	4.1	8.3	7.4	4.6
CV			20.55				20.55	9.13	7.24	5.63	21.46	9.27	8.37	5.36

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE III

Trial ID: S7023      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
										INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL				
										PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
										4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
										P	P	P	P	P	P	P	P
										0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
1	RESOURCE	.86	EC	.027	LB A/A	MP	7	82	78	83	0	92	67	63
1	BASAGRAN	4	E	.5	LB A/A	MP								
1	COC		L	.5	QT/A	MP								
1	LIQUID N		L	1	QT/A	MP								
1	SELECT	2	EC	.094	LB A/A	1WK								
1	COC		L	1	QT/A	+1W								
2	RESOURCE	.86	EC	.027	LB A/A	MP	3	90	78	78	0	90	63	33
2	COBRA	2	EC	.094	LB A/A	MP								
2	COC		L	.5	QT/A	MP								
2	LIQUID N		L	1	QT/A	MP								
2	SELECT	2	EC	.094	LB A/A	+1W								
2	COC		L	1	QT/A	+1W								
3	RESOURCE	.86	EC	.027	LB A/A	MP	0	87	92	88	0	97	92	75
3	CLASSIC	25	DF	.006	LB A/A	MP								
3	COC		L	.5	QT/A	MP								
3	LIQUID N		L	1	QT/A	MP								
3	SELECT	2	EC	.094	LB A/A	+1W								
3	COC		L	1	QT/A	+1W								
4	RESOURCE	.86	EC	.027	LB A/A	MP	3	95	90	90	0	98	90	83
4	PURSUIT	70	DF	.063	LB A/A	MP								
4	COC		L	.5	QT/A	MP								
4	LIQUID N		L	1	QT/A	MP								
4	SELECT	2	EC	.094	LB A/A	+1W								
4	COC		L	1	QT/A	+1W								
5	RESOURCE	.86	EC	.027	LB A/A	MP	0	93	90	80	0	93	90	63
5	SCEPTER	70	WG	.063	LB A/A	MP								
5	COC		L	.5	QT/A	MP								
5	LIQUID N		L	1	QT/A	MP								
5	SELECT	2	EC	.094	LB A/A	+1W								
5	COC		L	1	QT/A	+1W								
6	RESOURCE	.86	EC	.027	LB A/A	MP	3	88	80	65	0	85	80	43
6	COBRA	2	EC	.094	LB A/A	MP								
6	SELECT	2	EC	.094	LB A/A	MP								
6	COC		L	.5	QT/A	MP								
6	LIQUID N		L	1	QT/A	MP								

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE III

Trial ID: S7023  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	SETFA	XANST	CHEAL	
Crop Code	GLYMA			GLYMA			
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg									
7 RESOURCE	.86	EC	.027	LB	A/A	MP	3	93	90	90	0	93	90	92
7 PURSUIT	70	DF	.063	LB	A/A	MP								
7 SELECT	2	EC	.094	LB	A/A	MP								
7 COC		L	.5	QT/A		MP								
7 LIQUID N		L	1	QT/A		MP								
8 RESOURCE	.86	EC	.027	LB	A/A	MP	13	95	93	90	0	95	87	83
8 COBRA	2	EC	.063	LB	A/A	MP								
8 PURSUIT	70	DF	.063	LB	A/A	MP								
8 COC		L	.5	QT/A		MP								
8 LIQUID N		L	1	QT/A		MP								
8 SELECT	2	EC	.094	LB	A/A	+1W								
8 COC		L	.5	QT/A		+1W								
8 LIQUID N		L	1	QT/A		+1W								
9 RESOURCE	.86	EC	.027	LB	A/A	MP	10	90	90	90	0	93	77	87
9 COBRA	2	EC	.094	LB	A/A	MP								
9 BASAGRAN	4	E	.5	LB	A/A	MP								
9 COC		L	.5	QT/A		MP								
9 LIQUID N		L	1	QT/A		MP								
9 SELECT	2	EC	.094	LB	A/A	+1W								
9 COC		L	.5	QT/A		+1W								
9 LIQUID N		L	1	QT/A		+1W								
10 RESOURCE	.86	EC	.027	LB	A/A	MP	7	92	82	85	0	92	63	73
10 STORM	4	EC	.75	LB	A/A	MP								
10 COC		L	.5	QT/A		MP								
10 LIQUID N		L	1	QT/A		MP								
10 SELECT	2	EC	.094	LB	A/A	+1W								
10 COC		L	.5	QT/A		+1W								
10 LIQUID N		L	1	QT/A		+1W								
11 RESOURCE	.86	EC	.027	LB	A/A	MP	3	97	87	85	0	97	83	68
11 REFLEX	2	EC	.25	LB	A/A	MP								
11 COC		L	.5	QT/A		MP								
11 LIQUID N		L	1	QT/A		MP								
11 SELECT	2	EC	.094	LB	A/A	+1W								
11 COC		L	.5	QT/A		+1W								
11 LIQUID N		L	1	QT/A		+1W								

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE III

Trial ID: S7023  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
Crop Code	INJURY CONTROL CONTROL CONTROL				INJURY CONTROL CONTROL CONTROL			
Part Rated	PERCENT PERCENT PERCENT PERCENT				PERCENT PERCENT PERCENT PERCENT			
Rating Data Type	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS				8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS			
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
12 RESOURCE	.86	EC	.027	LB A/A	MP	0	85	83	85	0	93	58	80
12 PINNACLE	25	DF	.004	LB A/A	MP								
12 ACTIVATOR 90			.25	qt V/V	MP								
12 SELECT	2	EC	.094	LB A/A	+1W								
12 COC		L	.5	QT/A	+1W								
12 LIQUID N		L	1	QT/A	+1W								
13 SELECT	2	EC	.063	LB A/A	MP	0	100	0	0	0	100	0	0
13 COC		L	1	QT/A	MP								
14 SELECT	2	EC	.094	LB A/A	MP	3	85	90	55	0	85	90	17
14 COBRA	2	EC	.125	LB A/A	MP								
14 COC		L	.5	LB A/A	MP								
14 LIQUID N		L	2	QT/A	MP								
15 SELECT	2	EC	.094	LB A/A	MP	0	92	88	62	0	92	85	40
15 PURSUIT	70	DF	.063	LB A/A	MP								
15 COC		L	1	LB A/A	MP								
15 LIQUID N		L	1	QT/A	MP								
16 SELECT	2	EC	.094	LB A/A	MP	0	97	77	67	0	97	77	7
16 CLASSIC	25	DF	.008	LB A/A	MP								
16 COC		L	.5	LB A/A	MP								
16 LIQUID N		L	1	QT/A	MP								
17 SELECT	2	EC	.094	LB A/A	MP	13	85	87	53	0	82	87	23
17 COBRA	2	EC	.2	LB A/A	MP								
17 COC		L	.5	LB A/A	MP								
17 LIQUID N		L	1	QT/A	MP								
18 SELECT	2	EC	.094	LB A/A	MP	0	93	67	47	0	93	50	27
18 BASAGRAN	4	E	.75	LB A/A	MP								
18 COC		L	1	LB A/A	MP								
18 LIQUID N		L	1	QT/A	MP								
19 SELECT	2	EC	.094	LB A/A	MP	17	90	90	90	7	90	88	80
19 PURSUIT	70	DF	.063	LB A/A	MP								
19 COBRA	2	EC	.125	LB A/A	MP								
19 COC		L	.5	LB A/A	MP								
19 LIQUID N		L	2	QT/A	MP								

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE III

Trial ID: S7023  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
Crop Code	INJURY CONTROL CONTROL CONTROL				INJURY CONTROL CONTROL CONTROL			
Part Rated	PERCENT PERCENT PERCENT PERCENT				PERCENT PERCENT PERCENT PERCENT			
Rating Data Type	4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS				8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS			
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg								
20	SELECT	2	EC	.094	LB	A/A	MP	0	85	90	90	0	77	80	90
20	PINNACLE	25	DF	.004	LB	A/A	MP								
20	COBRA	2	EC	.125	LB	A/A	MP								
20	COC	L		.5	LB	A/A	MP								
20	LIQUID N	L		1	QT/A		MP								
21	SELECT	2	EC	.094	LB	A/A	MP	0	85	90	83	0	85	90	60
21	CLASSIC	25	DF	.008	LB	A/A	MP								
21	COBRA	2	EC	.125	LB	A/A	MP								
21	COC	L		.5	LB	A/A	MP								
22	SELECT	2	EC	.094	LB	A/A	MP	3	82	83	85	0	70	67	60
22	BASAGRAN	4	E	.5	LB	A/A	MP								
22	COBRA	2	EC	.125	LB	A/A	MP								
22	COC	L		.5	LB	A/A	MP								
22	LIQUID N	L		2	QT/A		MP								
LSD (P=.05)								6.7	7.3	13.0	15.9	2.0	10.1	22.7	20.5
Standard Deviation								4.1	4.4	7.9	9.6	1.2	6.1	13.7	12.4
CV								99.14	4.94	9.67	12.89	406.2	6.78	18.29	21.89

## SOYBEAN POSTEMERGENCE III

Trial ID: S7023 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1. SEFTA GIANT FOXTAIL 2. XANST C. COCKLEBUR 3. CHEAL C. LAMBSQUARTERS  
Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-7-97  
Planting Method: ROW Rate: 12 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 59 F Soil Moisture: NORMAL Emergence Date: 5-21-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: MAURY % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-2-97	6-11-97				
Time of Day:	1:00 PM	3:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	MP	1 WK				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	62 F	68 F				
% Relative Humidity:	75	95				
Wind Velocity, Unit:	5 MPH	3 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	70 F	68 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	40				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	MP	1 WK				
Stage Scale:	UNIFOL	1 TRIFOL				
Height, Unit:	2 IN	4 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SEFTA Stage:	MP	1 WK				
Stage Scale:	2 LF	2 LF				
Density, Unit:	3 IN	3 IN				
XANST						
Stage Scale:	4 LF					
Density, Unit:	4 IN					
CHEAL						
Stage Scale:	8 LF					
Density, Unit:	1.5 IN					



## SOYBEAN POSTEMERGENCE IIII

Trial ID: S7023

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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Weed Science Field Research

SOYBEAN POSTEMERGENCE IV

Trial ID: S7024 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	DIGSA	CHEAL	GLYMA	SETFA	DIGSA	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
1	STELLAR	3.10	EC	.121	LB A/A	MP	3	40	47	77	0	37	50	77
1	COC		L	.5	QT/A	MP								
1	SELECT	2	EC	.094	LB A/A	+1W								
1	COC		L	1	QT/A	+1W								
2	RAPTOR	1	E	.032	LB A/A	MP	0	93	83	77	0	90	87	53
2	COC		L	.5	QT/A	MP								
2	LIQUID N		L	2	QT/A	MP								
2	SELECT	2	EC	.094	LB A/A	+1W								
2	COC		L	1	QT/A	+1W								
3	STELLAR	3.10	EC	.121	LB A/A	MP	3	100	87	90	0	90	90	80
3	RAPTOR	1	E	.032	LB A/A	MP								
3	COC		L	.5	QT/A	MP								
3	LIQUID N		L	2	QT/A	MP								
3	SELECT	2	EC	.094	LB A/A	+1W								
3	COC		L	1	QT/A	+1W								
4	EXPERT	75	WG	.059	LB A/A	MP	0	77	73	93	0	77	70	63
4	ACTIVATOR 90			.25	% V/V	MP								
4	LIQUID N		L	2	QT/A	MP								
4	SELECT	2	EC	.094	LB A/A	+1W								
4	COC		L	1	QT/A	+1W								
5	STELLAR	3.10	EC	.121	LB A/A	MP	0	80	70	83	0	73	73	70
5	EXPERT	75	WG	.059	LB A/A	MP								
5	ACTIVATOR 90			.25	% V/V	MP								
5	LIQUID N		L	2	QT/A	MP								
5	SELECT	2	EC	.094	LB A/A	+1W								
5	COC		L	1	QT/A	+1W								
6	FIRSTRATE	84	W	.016	LB A/A	MP	0	60	77	43	0	63	77	13
6	COC		L	.5	QT/A	MP								
6	SELECT	2	EC	.094	LB A/A	+1W								
6	COC		L	1	QT/A	+1W								
7	STELLAR	3.10	EC	.121	LB A/A	MP	0	73	83	77	0	73	83	53
7	FIRSTRATE	84	W	.016	LB A/A	MP								
7	COC		L	.5	QT/A	MP								
7	SELECT	2	EC	.094	LB A/A	+1W								
7	COC		L	1	QT/A	+1W								

SOYBEAN POSTEMERGENCE IV

Trial ID: S7024 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	DIGSA	CHEAL	GLYMA	SETFA	DIGSA	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Amt	Ds	Rate	Unit	Grow Stg	GLYMA	SETFA	DIGSA	CHEAL
8	STELLAR	3.10	EC	.12	LB	A/A	LP		0	70	73	63
8	COC		L	.5	QT/A		LP					
8	LIQUID N		L	2	QT/A		LP					
8	SELECT	2	EC	.125	LB	A/A	+1W					
8	COC		L	1	QT/A		+1W					
9	STELLAR	3.10	EC	.17	LB	A/A	LP		3	60	60	67
9	COC		L	.5	QT/A		LP					
9	LIQUID N		L	2	QT/A		LP					
9	SELECT	2	EC	.125	LB	A/A	+1W					
9	COC		L	1	QT/A		+1W					
10	STELLAR	3.10	EC	.12	LB	A/A	LP		0	57	77	57
10	BASAGRAN	4	E	.5	LB	A/A	LP					
10	COC		L	.5	QT/A		LP					
10	LIQUID N		L	2	QT/A		LP					
10	SELECT	2	EC	.125	LB	A/A	+1W					
10	COC		L	1	QT/A		+1W					
11	STELLAR	3.10	EC	.17	LB	A/A	LP		0	50	67	60
11	BASAGRAN	4	E	.5	LB	A/A	LP					
11	COC		L	.5	QT/A		LP					
11	LIQUID N		L	2	QT/A		LP					
11	SELECT	2	EC	.125	LB	A/A	+1W					
11	COC		L	1	QT/A		+1W					
12	BASAGRAN	4	E	.5	LB	A/A	LP		0	53	83	33
12	COC		L	.5	QT/A		LP					
12	LIQUID N		L	2	QT/A		LP					
12	SELECT	2	EC	.125	LB	A/A	+1W					
12	COC		L	1	QT/A		+1W					
13	STELLAR	3.10	EC	.12	LB	A/A	LP		3	50	57	77
13	PINNACLE	25	DF	.002	LB	A/A	LP					
13	COC		L	.5	QT/A		LP					
13	LIQUID N		L	2	QT/A		LP					
13	SELECT	2	EC	.125	LB	A/A	+1W					
13	COC		L	1	QT/A		+1W					
14	STELLAR	3.10	EC	.17	LB	A/A	LP		0	47	50	57
14	PINNACLE	25	DF	.002	LB	A/A	LP					
14	COC		L	.5	QT/A		LP					
14	LIQUID N		L	2	QT/A		LP					
14	SELECT	2	EC	.125	LB	A/A	+1W					
14	COC		L	1	QT/A		+1W					

SOYBEAN POSTEMERGENCE IV

Trial ID: S7024  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	DIGSA	CHEAL	GLYMA	SETFA	DIGSA	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	DIGSA	CHEAL	GLYMA	SETFA	DIGSA	CHEAL
15	PINNACLE	25	DF	.002	LB A/A	LP	0	43	70	57	0	17	73	40
15	COC		L	.5	QT/A	LP								
15	LIQUID N		L	2	QT/A	LP								
15	SELECT	2	EC	.125	LB A/A	+1W								
15	COC		L	1	QT/A	+1W								
16	STELLAR	3.10	EC	.12	LB A/A	LP	3	60	73	57	0	60	73	30
16	CLASSIC	25	DF	.008	LB A/A	LP								
16	COC		L	.5	QT/A	LP								
16	LIQUID N		L	2	QT/A	LP								
16	SELECT	2	EC	.125	LB A/A	+1W								
16	COC		L	1	QT/A	+1W								
17	STELLAR	3.10	EC	.17	LB A/A	LP	3	70	70	63	0	60	70	20
17	CLASSIC	25	DF	.008	LB A/A	LP								
17	COC		L	.5	QT/A	LP								
17	LIQUID N		L	2	QT/A	LP								
17	SELECT	2	EC	.125	LB A/A	+1W								
17	COC		L	1	QT/A	+1W								
18	CLASSIC	25	DF	.008	LB A/A	LP	0	67	83	37	0	73	83	17
18	COC		L	.5	QT/A	LP								
18	LIQUID N		L	2	QT/A	LP								
18	SELECT	2	EC	.125	LB A/A	+1W								
18	COC		L	1	QT/A	+1W								
19	STELLAR	3.10	EC	.12	LB A/A	LP	7	77	70	80	7	73	70	63
19	SCEPTER	70	WG	.063	LB A/A	LP								
19	COC		L	.5	QT/A	LP								
19	LIQUID N		L	2	QT/A	LP								
19	SELECT	2	EC	.125	LB A/A	+1W								
19	COC		L	1	QT/A	+1W								
20	STELLAR	3.10	EC	.17	LB A/A	LP	0	67	63	70	0	67	60	37
20	SCEPTER	70	WG	.063	LB A/A	LP								
20	COC		L	.5	QT/A	LP								
20	LIQUID N		L	2	QT/A	LP								
20	SELECT	2	EC	.125	LB A/A	+1W								
20	COC		L	1	QT/A	+1W								
21	SCEPTER	70	WG	.063	LB A/A	LP	0	73	83	43	0	70	83	10
21	COC		L	.5	QT/A	LP								
21	LIQUID N		L	2	QT/A	LP								
21	SELECT	2	EC	.125	LB A/A	+1W								
21	COC		L	1	QT/A	+1W								

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE IV

Trial ID: S7024      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	DIGSA	CHEAL	GLYMA	SETFA	DIGSA	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	DIGSA	CHEAL	GLYMA	SETFA	DIGSA	CHEAL
22 PURSUIT	70 DF		.063	LB A/A	LP	0	97	97	53	0	90	90	20
22 SUNIT II	L		.75	QT/A	LP								
22 LIQUID N	L		1	QT/A	LP								
22 SELECT	2 EC		.125	LB A/A	+1W								
22 COC	L		1	QT/A	+1W								
LSD (P=.05)			5.4				14.2	17.0	10.7	2.0	15.4	15.5	17.9
Standard Deviation			3.3				8.6	10.3	6.5	1.2	9.3	9.4	10.9
CV			271.41				12.97	14.16	10.08	406.2	14.62	12.94	26.66

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## SOYBEAN POSTEMERGENCE IV

Trial ID: S7024                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 5-7-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.DIGSA LARGE CRABGRASS 3.CHEAL C.LAMBSQUARTERS

Crop 1: GLXMA SOYBEAN                      Variety: ASGROW 4501RR/STS                      Planting Date: 5-7-97  
Planting Method: ROW                      Rate: 12                      S/ROW-FT                      Depth: 1.5 IN  
Soil Temperature: 58                      Row Spacing: 30 IN                      Seed Bed: MEDIUM  
F Soil Moisture: NORMAL                      Emergence Date: 5-21-97

Plot Width, Unit: 5 FT                      Plot Length, Unit: 44 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 3                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CRC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY

Closest Weather Station: SPINDLETOP                      Distance: 1.0                      Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-2-97	6-9-97	6-13-97	6-20-97		
Time of Day:	4:00 PM	3:00 PM	2:00 PM	11:00 AM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	MP	+1 WEEK	LP	+1 WEEK		
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	72 F	60 F	70 F	80 F		
% Relative Humidity:	80	95	77	75		
Wind Velocity, Unit:	5 MPH	3 MPH	4 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	70 F	63 F	71 F	75 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	70	30	40		

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	MP	+1 WK	LP	+1 WK		
Stage Scale:	UNIFOL	1 TRIFOL	2 TRIFOL	3 TRIFOL		
Height, Unit:	4 IN	5 IN	7 IN	10 IN		

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	MP	+1 WK	LP	+1 WK		
Stage Scale:	2 LVS	3 LVS	4 LVS	5 LVS		
Density, Unit:	4 IN	5 IN	4-6 IN	8 IN		
DIGSA						
Stage Scale:	1 LF	2 LVS	4 LVS	5 LVS		
Density, Unit:	2 IN	3 IN	4 IN	6 IN		
CHEAL						
Stage Scale:	6 LVS		12 LVS			
Density, Unit:	2 I		4-8 IN			

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## SOYBEAN POSTEMERGENCE IV

Trial ID: S7024  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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SOYBEAN POSTEMERGENCE V

Trial ID: S7016  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	GLYMA	SETFA	CHEAL	XANST
Crop Code								
Part Rated								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg									
1	FIRSTRATE	84	W	.016	LB	A/A	MP	0	100	50	93	0	100	30	100
1	SELECT	2	EC	.094	LB	A/A	MP								
1	COC	L		1	QT/A		MP								
2	FIRSTRATE	84	W	.016	LB	A/A	MP	0	77	57	90	0	80	37	97
2	BROADSTRIKE	80	WG	.006	LB	A/A	MP								
2	SELECT	2	EC	.094	LB	A/A	MP								
2	COC	L		1	QT/A		MP								
3	FIRSTRATE	84	W	.016	LB	A/A	MP	0	100	90	88	0	87	97	88
3	ROUNDUP ULTRA	4	AS	.375	LB	A/A	MP								
4	FIRSTRATE	84	W	.016	LB	A/A	MP	7	97	90	90	0	83	100	90
4	BROADSTRIKE	80	WG	.006	LB	A/A	MP								
4	ROUNDUP ULTRA	4	AS	.375	LB	A/A	MP								
5	FIRSTRATE	84	W	.016	LB	A/A	MP	0	100	100	90	0	83	100	87
5	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP								
6	FIRSTRATE	84	W	.016	LB	A/A	MP	0	100	97	90	0	87	100	90
6	BROADSTRIKE	80	WG	.006	LB	A/A	MP								
6	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP								
7	CLASSIC	25	DF	.008	LB	A/A	MP	3	100	82	88	0	90	100	88
7	ROUNDUP ULTRA	4	AS	.375	LB	A/A	MP								
8	CLASSIC	25	DF	.008	LB	A/A	MP	3	100	97	90	0	90	100	90
8	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP								
9	FRONTIER	6	E	.94	LB	A/A	MP	10	100	90	83	0	90	100	78
9	ROUNDUP ULTRA	4	AS	.38	LB	A/A	MP								
10	FRONTIER	6	E	.94	LB	A/A	MP	3	100	97	88	0	90	100	82
10	ROUNDUP ULTRA	4	AS	.5	LB	A/A	MP								
11	ROUNDUP ULTRA	4	AS	.38	LB	A/A	MP	17	100	92	87	0	92	100	82
11	STORM	4	EC	1	LB	A/A	MP								
12	ROUNDUP ULTRA	4	AS	.38	LB	A/A	MP	0	100	83	83	0	87	97	80
12	PURSUIT	70	DF	.031	LB	A/A	MP								
13	ROUNDUP ULTRA	4	AS	.38	LB	A/A	MP	17	100	85	85	3	90	100	87
13	PURSUIT	70	DF	.063	LB	A/A	MP								
14	ROUNDUP ULTRA	4	AS	.38	LB	A/A	MP	3	93	90	87	0	75	100	82



Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE V

Trial ID: S7016  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	GLYMA	SETFA	CHEAL	XANST
Crop Code								
Part Rated								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	GLYMA	SETFA	CHEAL	XANST
15 ROUNDUP ULTRA	4	AS	.5	LB A/A	MP	0	97	90	83	0	77	100	78
16 ROUNDUP ULTRA	4	AS	.5	LB A/A	MP	3	90	88	87	0	90	100	83
16 ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
17 ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	3	93	93	87	0	73	100	80
18 ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	0	90	93	83	0	92	100	88
18 ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
LSD (P=.05)			6.8				5.2	7.1	7.2	2.3	6.4	3.9	8.3
Standard Deviation			4.1				3.1	4.2	4.3	1.4	3.9	2.4	5.0
CV			104.98				3.23	4.88	4.94	734.85	4.46	2.56	5.8

SOYBEAN POSTEMERGENCE V

Trial ID: S7016  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	XANST
Crop Code		GLYMA		
Part Rated				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg				
1	FIRSTRATE	84	W	.016	LB A/A	MP	0	100	0	100
1	SELECT	2	EC	.094	LB A/A	MP				
1	COC	L		1	QT/A	MP				
2	FIRSTRATE	84	W	.016	LB A/A	MP	0	77	7	97
2	BROADSTRIKE	80	WG	.006	LB A/A	MP				
2	SELECT	2	EC	.094	LB A/A	MP				
2	COC	L		1	QT/A	MP				
3	FIRSTRATE	84	W	.016	LB A/A	MP	0	75	93	85
3	ROUNDUP ULTRA	4	AS	.375	LB A/A	MP				
4	FIRSTRATE	84	W	.016	LB A/A	MP	0	73	100	90
4	BROADSTRIKE	80	WG	.006	LB A/A	MP				
4	ROUNDUP ULTRA	4	AS	.375	LB A/A	MP				
5	FIRSTRATE	84	W	.016	LB A/A	MP	0	75	100	87
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP				
6	FIRSTRATE	84	W	.016	LB A/A	MP	0	80	100	85
6	BROADSTRIKE	80	WG	.006	LB A/A	MP				
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP				
7	CLASSIC	25	DF	.008	LB A/A	MP	0	83	100	87
7	ROUNDUP ULTRA	4	AS	.375	LB A/A	MP				
8	CLASSIC	25	DF	.008	LB A/A	MP	0	85	100	87
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP				
9	FRONTIER	6	E	.94	LB A/A	MP	0	90	100	33
9	ROUNDUP ULTRA	4	AS	.38	LB A/A	MP				
10	FRONTIER	6	E	.94	LB A/A	MP	0	90	90	37
10	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP				
11	ROUNDUP ULTRA	4	AS	.38	LB A/A	MP	0	87	100	43
11	STORM	4	EC	1	LB A/A	MP				
12	ROUNDUP ULTRA	4	AS	.38	LB A/A	MP	0	87	97	62
12	PURSUIT	70	DF	.031	LB A/A	MP				
13	ROUNDUP ULTRA	4	AS	.38	LB A/A	MP	0	90	100	78
13	PURSUIT	70	DF	.063	LB A/A	MP				
14	ROUNDUP ULTRA	4	AS	.38	LB A/A	MP	0	53	100	40

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE V

Trial ID: S7016  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	XANST
Crop Code	GLYMA		
Part Rated			
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Grow Unit	Stg				
15	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP	0	60	90	40
16	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP	0	87	97	80
16	ROUNDUP ULTRA	4	AS	.5	LB	A/A LP				
17	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	57	90	43
18	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP	0	88	100	78
18	ROUNDUP ULTRA	4	AS	.75	LB	A/A LP				
LSD (P=.05)							0.0	13.2	10.5	21.4
Standard Deviation							0.0	7.9	6.3	12.8
CV							.	9.9	7.26	18.44

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE V

Trial ID: S7016 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL C. LAMBSQUARTER 3.XANST C. COCKLEBUR

Crop 1: GLXMA Variety: ASGROW 4501 Planting Date: 5-7-97  
Planting Method: ROW Rate: 12 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: NORMAL Emergence Date: 5-21-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-2-97	6-19-97				
Time of Day:	2:00 PM	11:00 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	MP	LP				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	70 F	74 F				
% Relative Humidity:	80	83				
Wind Velocity, Unit:	4 MPH	3 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	68 F	73 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	50	60				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	MP	LP				
Stage Scale:	UNIFOL	2 TRIFOL				
Height, Unit:	4 IN	8 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	MP	LP				
Stage Scale:	3 LF	3 LF				
Density, Unit:	4 IN	4 IN				
CHEAL						
Stage Scale:	6 LF	4 LF				
Density, Unit:	2-3 IN	2-3 IN				
XANST						
Stage Scale:	4 LF	4 LF				
Density, Unit:	4 IN	6 IN				

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Weed Science Field Research

SOYBEAN POSTEMERGENCE V

Trial ID: S7016

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004	8004				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	POLPE	GLYMA	SETFA	XANST	CHEAL	POLPE
Crop Code	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg										
1	COBRA	2	EC	.094	LB A/A	MP	3	67	80	87	70	0	97	67	67	30
1	COC	L		.5	QT/A	MP										
1	SELECT	2	EC	.094	LB A/A	+1W										
1	COC	L		1	QT/A	+1W										
2	COBRA	2	EC	.125	LB A/A	MP	3	70	83	83	68	0	93	53	50	27
2	COC	L		.5	QT/A	MP										
2	SELECT	2	EC	.094	LB A/A	+1W										
2	COC	L		1	QT/A	+1W										
3	COBRA	2	EC	.156	LB A/A	MP	10	73	83	83	73	0	90	67	60	43
3	COC	L		.5	QT/A	MP										
3	SELECT	2	EC	.094	LB A/A	+1W										
3	COC	L		1	QT/A	+1W										
4	COBRA	2	EC	.188	LB A/A	MP	10	80	77	87	73	0	90	57	63	40
4	COC	L		.5	QT/A	MP										
4	SELECT	2	EC	.094	LB A/A	+1W										
4	COC	L		1	QT/A	+1W										
5	COBRA	2	EC	.125	LB A/A	MP	10	87	80	80	63	0	83	40	33	23
5	SELECT	2	EC	.094	LB A/A	MP										
5	COC	L		.5	QT/A	MP										
6	COBRA	2	EC	.15	LB A/A	MP	10	82	78	73	72	0	78	47	30	30
6	SELECT	2	EC	.094	LB A/A	MP										
6	COC	L		.5	QT/A	MP										
7	COBRA	2	EC	.125	LB A/A	MP	17	83	85	93	100	0	73	65	77	87
7	PURSUIT	70	DF	.063	LB A/A	MP										
7	SELECT	2	EC	.094	LB A/A	MP										
7	COC	L		1	QT/A	MP										
8	COBRA	2	EC	.125	LB A/A	MP	7	77	83	77	93	0	85	68	62	87
8	CLASSIC	25	DF	.006	LB A/A	MP										
8	COC	L		.5	QT/A	MP										
8	SELECT	2	EC	.094	LB A/A	+1W										
8	COC	L		1	QT/A	+1W										
9	COBRA	2	EC	.125	LB A/A	MP	3	67	78	83	93	0	97	47	60	70
9	BASAGRAN	4	E	.5	LB A/A	MP										
9	COC	L		.5	QT/A	MP										
9	SELECT	2	EC	.094	LB A/A	+1W										
9	COC	L		1	QT/A	+1W										

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	POLPE	GLYMA	SETFA	XANST	CHEAL	POLPE
Crop Code	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg										
10	COBRA	2	EC	.194	LB A/A	MP	10	77	80	85	70	0	97	53	57	33
10	COC	L		.5	QT/A	MP										
10	SELECT	2	EC	.094	LB A/A	+1W										
10	COC	L		1	QT/A	+1W										
11	SELECT	2	EC	.094	LB A/A	MP	0	97	67	37	100	0	97	33	10	100
11	COC	L		1	QT/A	MP										
11	RESOURCE	.86	EC	.027	LB A/A	LLP										
11	PINNACLE	25	DF	.0016	LB A/A	LLP										
11	COC	L		.5	QT/A	LLP										
11	LIQUID N	L		2	QT/A	LLP										
12	SELECT	2	EC	.094	LB A/A	MP	0	85	70	37	100	0	85	47	23	100
12	COC	L		1	QT/A	MP										
12	RESOURCE	.86	EC	.027	LB A/A	LLP										
12	PINNACLE	25	DF	.002	LB A/A	LLP										
12	COC	L		.5	QT/A	LLP										
12	LIQUID N	L		2	QT/A	LLP										
13	SELECT	2	EC	.094	LB A/A	MP	0	97	57	17	93	0	97	37	7	93
13	COC	L		1	QT/A	MP										
13	PINNACLE	25	DF	.0016	LB A/A	LLP										
13	COC	L		.5	QT/A	LLP										
13	LIQUID N	L		2	QT/A	LLP										
14	SELECT	2	EC	.094	LB A/A	MP	0	100	43	27	97	0	100	20	7	97
14	COC	L		1	QT/A	MP										
14	PINNACLE	25	DF	.002	LB A/A	LLP										
14	COC	L		.5	QT/A	LLP										
14	LIQUID N	L		2	QT/A	LLP										
15	SELECT	2	EC	.094	LB A/A	MP	0	100	67	30	90	0	100	37	17	83
15	COC	L		1	QT/A	MP										
15	PINNACLE	25	DF	.004	LB A/A	LLP										
15	COC	L		.5	QT/A	LLP										
15	LIQUID N	L		2	QT/A	LLP										
16	POAST	1.53	EC	.29	LB A/A	MP	0	87	67	88	97	0	80	33	67	80
16	BLAZER	2	L	.38	LB A/A	MP										
17	POAST	1.53	EC	.29	LB A/A	MP	3	87	77	90	100	0	80	37	60	80
17	BLAZER	2	L	.38	LB A/A	MP										
17	COC	L		1	QT/A	MP										

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	POLPE	GLYMA	SETFA	XANST	CHEAL	POLPE	
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA		GLYMA	
Part Rated	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg	GLYMA	SETFA	XANST	CHEAL	POLPE	GLYMA	SETFA	XANST	CHEAL	POLPE
18	POAST	1.53	EC	.29	LB A/A	MP		3	87	75	80	97	0	75	30	50	87
18	BLAZER	2	L	.38	LB A/A	MP											
18	ACTIVATOR 90			.25	QT/V/V	MP											
19	TYPHOON	1.41	E	.46	LB A/A	MP		3	90	88	93	97	0	78	70	73	87
19	COC		L	1	QT/A	MP											
20	TYPHOON	1.41	E	.56	LB A/A	MP		0	87	83	92	100	0	80	62	62	90
20	COC		L	1	QT/A	MP											
21	POAST HC	3.5	EC	.19	LB A/A	MP		0	100	0	0	0	0	100	0	0	0
21	COC		L	1.25	QT/A	MP											
22	POAST PLUS	1	E	.19	LB A/A	MP		0	100	0	0	0	0	100	0	0	0
22	COC		L	1.25	QT/A	MP											
23	STORM	4	EC	.75	LB A/A	MP		7	100	85	85	100	0	83	67	70	87
23	POAST HC	3.5	EC	.28	LB A/A	MP											
23	COC		L	1.25	QT/A	MP											
24	STORM	4	EC	.75	LB A/A	MP		3	90	77	88	97	0	82	53	60	87
24	COC		L	1.25	QT/A	MP											
24	POAST HC	3.5	EC	.28	LB A/A	+1W											
24	COC		L	1.25	QT/A	+1W											
LSD (P=.05)								8.6	14.8	15.6	17.4	11.2	0.0	10.0	38.2	23.6	14.9
Standard Deviation								5.2	9.0	9.4	10.5	6.8	0.0	6.1	23.1	14.3	9.0
CV								121.34	10.4	13.6	15.83	8.4	.	6.85	51.0	32.25	14.04



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SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	POLPE
Crop Code	GLYMA			
Part Rated				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	0	97	42	63	10
1	COBRA	2	EC	.094	LB A/A	MP	0	97	42	63	10
1	COC	L		.5	QT/A	MP					
1	SELECT	2	EC	.094	LB A/A	+1W					
1	COC	L		1	QT/A	+1W					
2	COBRA	2	EC	.125	LB A/A	MP	0	93	53	47	17
2	COC	L		.5	QT/A	MP					
2	SELECT	2	EC	.094	LB A/A	+1W					
2	COC	L		1	QT/A	+1W					
3	COBRA	2	EC	.156	LB A/A	MP	0	90	53	47	20
3	COC	L		.5	QT/A	MP					
3	SELECT	2	EC	.094	LB A/A	+1W					
3	COC	L		1	QT/A	+1W					
4	COBRA	2	EC	.188	LB A/A	MP	0	93	30	57	20
4	COC	L		.5	QT/A	MP					
4	SELECT	2	EC	.094	LB A/A	+1W					
4	COC	L		1	QT/A	+1W					
5	COBRA	2	EC	.125	LB A/A	MP	0	83	23	17	17
5	SELECT	2	EC	.094	LB A/A	MP					
5	COC	L		.5	QT/A	MP					
6	COBRA	2	EC	.15	LB A/A	MP	0	78	23	20	20
6	SELECT	2	EC	.094	LB A/A	MP					
6	COC	L		.5	QT/A	MP					
7	COBRA	2	EC	.125	LB A/A	MP	0	70	50	70	87
7	PURSUIT	70	DF	.063	LB A/A	MP					
7	SELECT	2	EC	.094	LB A/A	MP					
7	COC	L		1	QT/A	MP					
8	COBRA	2	EC	.125	LB A/A	MP	0	85	58	47	87
8	CLASSIC	25	DF	.006	LB A/A	MP					
8	COC	L		.5	QT/A	MP					
8	SELECT	2	EC	.094	LB A/A	+1W					
8	COC	L		1	QT/A	+1W					
9	COBRA	2	EC	.125	LB A/A	MP	0	97	30	60	67
9	BASAGRAN	4	E	.5	LB A/A	MP					
9	COC	L		.5	QT/A	MP					
9	SELECT	2	EC	.094	LB A/A	+1W					
9	COC	L		1	QT/A	+1W					

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SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	POLPE
Crop Code	GLYMA			
Part Rated				
Rating Data Type	CONTROL	INJURY CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg					
10 COBRA	2 EC		.194	LB A/A	MP	0	97	37	43	17
10 COC	L		.5	QT/A	MP					
10 SELECT	2 EC		.094	LB A/A	+1W					
10 COC	L		1	QT/A	+1W					
11 SELECT	2 EC		.094	LB A/A	MP	0	97	37	10	100
11 COC	L		1	QT/A	MP					
11 RESOURCE	.86 EC		.027	LB A/A	LLP					
11 PINNACLE	25 DF		.0016	LB A/A	LLP					
11 COC	L		.5	QT/A	LLP					
11 LIQUID N	L		2	QT/A	LLP					
12 SELECT	2 EC		.094	LB A/A	MP	0	85	43	20	100
12 COC	L		1	QT/A	MP					
12 RESOURCE	.86 EC		.027	LB A/A	LLP					
12 PINNACLE	25 DF		.002	LB A/A	LLP					
12 COC	L		.5	QT/A	LLP					
12 LIQUID N	L		2	QT/A	LLP					
13 SELECT	2 EC		.094	LB A/A	MP	0	97	37	7	93
13 COC	L		1	QT/A	MP					
13 PINNACLE	25 DF		.0016	LB A/A	LLP					
13 COC	L		.5	QT/A	LLP					
13 LIQUID N	L		2	QT/A	LLP					
14 SELECT	2 EC		.094	LB A/A	MP	0	100	23	7	97
14 COC	L		1	QT/A	MP					
14 PINNACLE	25 DF		.002	LB A/A	LLP					
14 COC	L		.5	QT/A	LLP					
14 LIQUID N	L		2	QT/A	LLP					
15 SELECT	2 EC		.094	LB A/A	MP	0	100	20	17	83
15 COC	L		1	QT/A	MP					
15 PINNACLE	25 DF		.004	LB A/A	LLP					
15 COC	L		.5	QT/A	LLP					
15 LIQUID N	L		2	QT/A	LLP					
16 POAST	1.53 EC		.29	LB A/A	MP	0	83	7	67	80
16 BLAZER	2 L		.38	LB A/A	MP					
17 POAST	1.53 EC		.29	LB A/A	MP	0	80	10	57	80
17 BLAZER	2 L		.38	LB A/A	MP					
17 COC	L		1	QT/A	MP					

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SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	POLPE
Crop Code	GLYMA			
Part Rated				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	0	75	13	40	87
18	POAST	1.53	EC	.29	LB A/A	MP	0	75	13	40	87
18	BLAZER	2	L	.38	LB A/A	MP					
18	ACTIVATOR 90			.25	lb V/V	MP					
19	TYPHOON	1.41	E	.46	LB A/A	MP	0	78	53	63	87
19	COC		L	1	QT/A	MP					
20	TYPHOON	1.41	E	.56	LB A/A	MP	0	80	43	53	90
20	COC		L	1	QT/A	MP					
21	POAST HC	3.5	EC	.19	LB A/A	MP	0	100	13	0	0
21	COC		L	1.25	QT/A	MP					
22	POAST PLUS	1	E	.19	LB A/A	MP	0	100	0	0	0
22	COC		L	1.25	QT/A	MP					
23	STORM	4	EC	.75	LB A/A	MP	0	83	47	53	87
23	POAST HC	3.5	EC	.28	LB A/A	MP					
23	COC		L	1.25	QT/A	MP					
24	STORM	4	EC	.75	LB A/A	MP	0	87	17	57	87
24	COC		L	1.25	QT/A	MP					
24	POAST HC	3.5	EC	.28	LB A/A	+1W					
24	COC		L	1.25	QT/A	+1W					
LSD (P=.05)							0.0	10.0	30.8	25.3	13.7
Standard Deviation							0.0	6.1	18.6	15.3	8.3
CV							.	6.85	58.6	39.99	13.93

Dept. of Agronomy, Univ. of KY  
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## SOYBEAN POSTEMERGENCE VI

Trial ID: S7025 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-6-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.XANST C. COCKLEBUR 3.CHEAL C.LAMBSQUARTERS  
4.POLPY P. SMARTWEED

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-6-97  
Planting Method: ROW Rate: 12 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 63 F Soil Moisture: NORMAL Emergence Date: 5-20-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-30-97	6-7-97	6-13-97	6-19-97		
Time of Day:	2:00 PM	3:00 PM	11:00 AM	3:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	MP	+1W	LLP	+1W		
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	59 F	60 F	72 F	75 F		
% Relative Humidity:	80	85	91	80		
Wind Velocity, Unit:	2.5 MPH	4 MPH	5 MPH	3.5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	64 F	62 F	71 F	75 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	60	30	50	40		

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	MP	1 WEEK	LLP	1 WEEK		
Stage Scale:	UNIFOL	1 TRIFOL	2 TRIFOL	3 TRIFOL		
Height, Unit:	3 IN	4 IN	8 IN	10 IN		

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## SOYBEAN POSTEMERGENCE VI

Trial ID: S7025  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	MP	1 WEEK	LLP	1 WEEK		
Stage Scale:	2 LVS	3 LVS	5 LVS	6 LVS		
Density, Unit:	2 IN	3 IN	6 IN	8 IN		
XANST						
Stage Scale:	4 LVS		6 LVS			
Density, Unit:	4 IN		6 IN			
CHEAL						
Stage Scale:	6 LVS		10 LVS			
Density, Unit:	2 IN		4 IN			
POLPY						
Stage Scale:	2 LVS		4 LVS			
Density, Unit:	2 IN		5 IN			

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004	8004	8004	8004		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7034      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	POLPY	GLYMA	SETFA	XANST	CHEAL	POLPY	
Crop Code	GLYMA					GLYMA				
Part Rated	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt Treatment	Form Fm	Rate	Grow											
No. Name	Amt Ds	Rate	Unit	Stg										
1 LIBERTY	1.67 E	.27 LB	A/A	MP	0	90	93	100	100	0	93	83	100	100
1 AMS	100 SG	3 LB	A/A	MP										
1 LIBERTY	1.67 E	.27 LB	A/A	LP										
1 AMS	100 SG	3 LB	A/A	LP										
2 LIBERTY	1.67 E	.36 LB	A/A	MP	0	95	97	100	100	0	93	83	100	100
2 AMS	100 SG	3 LB	A/A	MP										
2 LIBERTY	1.67 E	.27 LB	A/A	LP										
2 AMS	100 SG	3 LB	A/A	LP										
3 LIBERTY	1.67 E	.27 LB	A/A	MP	0	90	100	98	100	0	92	93	98	100
3 AMS	100 SG	3 LB	A/A	MP										
3 LIBERTY	1.67 E	.36 LB	A/A	LP										
3 AMS	100 SG	3 LB	A/A	LP										
4 PROWL	3.3 EC	1 LB	A/A	PRE	0	100	93	100	100	0	95	83	100	100
4 LIBERTY	1.67 E	.27 LB	A/A	MP										
4 AMS	100 SG	3 LB	A/A	MP										
5 PROWL	3.3 EC	1 LB	A/A	PRE	0	100	97	100	100	0	95	87	100	100
5 LIBERTY	1.67 E	.36 LB	A/A	MP										
5 AMS	100 SG	3 LB	A/A	MP										
6 LIBERTY	1.67 E	.36 LB	A/A	MP	0	95	90	100	100	0	85	90	97	100
6 AMS	100 SG	3 LB	A/A	MP										
7 LIBERTY	1.67 E	.36 LB	A/A	LP	0	97	100	95	97	0	97	97	95	97
7 AMS	100 SG	3 LB	A/A	LP										
8 PURSUIT	70 DF	.063 LB	A/A	MP	0	97	93	85	100	0	98	87	82	100
8 SUNIT II	L	.75 QT/A		MP										
8 LIQUID N	L	1 QT/A		MP										
9 PROWL	3.3 EC	1.24 LB	A/A	PRE	0	83	43	98	100	0	63	37	95	100
10 CANOPY	75 DF	.28 LB	A/A	PRE	0	98	100	100	100	0	97	100	100	100
10 LIBERTY	1.67 E	.27 LB	A/A	MP										
10 AMS	100 SG	3 LB	A/A	MP										
11 CANOPY	75 DF	.28 LB	A/A	PRE	0	55	90	48	70	0	27	77	45	70
12 CHECK					0	0	0	0	0	0	0	0	0	0

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SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7034 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	POLPY	GLYMA	SETFA	XANST	CHEAL	POLPY
Crop Code	INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL				
Part Rated	PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT				
Rating Data Type	2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS 2 WEEKS					4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS 4 WEEKS				
Rating Unit	P P P P P					P P P P P				
Rating Date	0 0 0 0 0					0 0 0 0 0				
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										
-----										
Trt Treatment	Form Fm	Rate	Grow							
No. Name	Amt Ds	Rate	Unit Stg							
=====										
LSD (P=.05)	0.0	7.8	20.9	7.1	3.7	0.0	9.9	21.4	7.1	3.7
Standard Deviation	0.0	4.6	12.4	4.2	2.2	0.0	5.9	12.6	4.2	2.2
CV	.	5.5	14.88	4.89	2.48	.	7.51	16.54	5.0	2.48

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Weed Science Field Research

SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7034 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	POLPY
Crop Code	GLYMA			
Part Rated				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	POLPY
1	LIBERTY	1.67	E	.27	LB A/A	MP	0	93	83	98	100
1	AMS	100	SG	3	LB A/A	MP					
1	LIBERTY	1.67	E	.27	LB A/A	LP					
1	AMS	100	SG	3	LB A/A	LP					
2	LIBERTY	1.67	E	.36	LB A/A	MP	0	93	80	97	100
2	AMS	100	SG	3	LB A/A	MP					
2	LIBERTY	1.67	E	.27	LB A/A	LP					
2	AMS	100	SG	3	LB A/A	LP					
3	LIBERTY	1.67	E	.27	LB A/A	MP	0	88	90	98	100
3	AMS	100	SG	3	LB A/A	MP					
3	LIBERTY	1.67	E	.36	LB A/A	LP					
3	AMS	100	SG	3	LB A/A	LP					
4	PROWL	3.3	EC	1	LB A/A	PRE	0	93	77	97	100
4	LIBERTY	1.67	E	.27	LB A/A	MP					
4	AMS	100	SG	3	LB A/A	MP					
5	PROWL	3.3	EC	1	LB A/A	PRE	0	95	80	100	100
5	LIBERTY	1.67	E	.36	LB A/A	MP					
5	AMS	100	SG	3	LB A/A	MP					
6	LIBERTY	1.67	E	.36	LB A/A	MP	0	72	90	95	100
6	AMS	100	SG	3	LB A/A	MP					
7	LIBERTY	1.67	E	.36	LB A/A	LP	0	95	97	95	97
7	AMS	100	SG	3	LB A/A	LP					
8	PURSUIT	70	DF	.063	LB A/A	MP	0	98	87	73	100
8	SUNIT II		L	.75	QT/A	MP					
8	LIQUID N		L	1	QT/A	MP					
9	PROWL	3.3	EC	1.24	LB A/A	PRE	0	45	20	95	100
10	CANOPY	75	DF	.28	LB A/A	PRE	0	97	100	100	100
10	LIBERTY	1.67	E	.27	LB A/A	MP					
10	AMS	100	SG	3	LB A/A	MP					
11	CANOPY	75	DF	.28	LB A/A	PRE	0	27	73	45	70
12	CHECK						0	0	0	0	0



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7034                      Investigator:  
Location: LEXINGTON, KY.          Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	CHEAL	POLPY
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL				
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT				
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS				
PRM Data Type	P P P P P				
# Subsamples, Dec.	0 0 0 0 0				

Trt Treatment	Form Fm	Rate	Grow		
No. Name	Amt Ds	Rate Unit	Stg		
LSD (P=.05)		0.0 17.4 15.4 8.0 3.7			
Standard Deviation		0.0 10.3 9.1 4.7 2.2			
CV		. 13.77 12.48 5.73 2.48			

SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7034 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL C.LAMBSQUARTERS 3.POLPY PENN. SMARTWEED

Crop 1: GLXMA SOYBEAN Variety: ASGROW 2704LL Planting Date: 5-7-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 59 F Soil Moisture: NORMAL Emergence Date: 5-22-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-7-97	6-4-97	6-19-97			
Time of Day:	4:00 PM	6:00 PM	3:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	LP			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	55 F	60 F	74 F			
% Relative Humidity:	62	91	82			
Wind Velocity, Unit:	3 MPH	4 MPH	3 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	61 F	63 F	68 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	30	20	40			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		MP	LP			
		1 TRIFOL	2 TRIFOL			
		4 IN	7 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	LP			
		3 LVS	4 LVS			
		3 IN	8 IN			
CHEAL		>10 LVS	>10 LVS			
		2-3 IN	4 IN			
POLPY		6-8 LVS	8-10 LVS			
		4 IN	8 IN			

## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7034

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

	APPLICATION EQUIPMENT						
	A	B		C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK		BACKPACK			
Operating Pressure:	30	30		30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN			
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH			
Carrier:	WATER	WATER		WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2		CO2			

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SOYBEAN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: S7035 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SORHA	CHEAL	GLYMA	SORHA	CHEAL	GLYMA	SORHA	CHEAL
Crop Code	INJURY CONTROL CONTROL			INJURY CONTROL CONTROL			INJURY CONTROL CONTROL		
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Rating Unit	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0
Footnote Number									
Trt-Eval Interval									
PRM Data Type									
# Subsamples, Dec.									

Trt No.	Treatment Name	Form	Fm	Rate	Grow										
		Amt	Ds	Rate	Unit	Stg									
1	LIBERTY	1.67	E	.36	LB	A/A 12J	7	83	97	0	73	97	0	57	97
1	AMS	100	SG	3	LB	A/A 12J									
2	LIBERTY	1.67	E	.36	LB	A/A 18J	7	85	93	0	85	90	0	83	90
2	AMS	100	SG	3	LB	A/A 18J									
3	LIBERTY	1.67	E	.27	LB	A/A 12J	3	90	93	0	82	93	0	90	93
3	AMS	100	SG	3	LB	A/A 12J									
3	LIBERTY	1.67	E	.27	LB	A/A +2W									
3	AMS	100	SG	3	LB	A/A +2W									
4	LIBERTY	1.67	E	.36	LB	A/A 12J	0	78	90	0	72	90	0	100	90
4	AMS	100	SG	3	LB	A/A 12J									
4	LIBERTY	1.67	E	.27	LB	A/A +2W									
4	AMS	100	SG	3	LB	A/A +2W									
5	LIBERTY	1.67	E	.27	LB	A/A 12J	10	90	100	0	87	100	0	82	100
5	PURSUIT	70	DF	.063	LB	A/A 12J									
5	AMS	100	SG	3	LB	A/A 12J									
5	COC		L	.5	QT/A	12J									
6	PURSUIT	2	EC	.063	LB	A/A 12J	13	90	73	0	93	83	0	93	87
6	COC		L	.5	QT/A	12J									
6	LIQUID N		L	1	QT/A	12J									
7	PROWL	3.3	EC	1	LB	A/A PRE	20	88	100	0	90	100	0	85	100
7	PURSUIT	70	DF	.063	LB	A/A 12J									
7	COC		L	.5	QT/A	12J									
7	LIQUID N		L	1	QT/A	12J									
8	PROWL	3.3	EC	1	LB	A/A PRE	10	85	100	0	82	100	0	75	100
8	LIBERTY	1.67	E	.27	LB	A/A 12J									
8	AMS	100	SG	3	LB	A/A 12J									
9	FUSION	2.66	EC	.21	LB	A/A 12J	0	97	17	0	93	10	0	93	7
9	MSO		L	1	QT/A	12J									
9	LIQUID N		L	1	QT/A	12J									
10	SELECT	2	EC	.125	LB	A/A 12J	0	93	3	0	90	3	0	90	0
10	COC		L	1	QT/A	12J									
11	POAST	1.53	EC	.188	LB	A/A 12J	0	87	7	0	83	7	0	83	3
11	COC		L	1	QT/A	12J									

SOYBEAN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: S7035 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code													
Crop Code													
Part Rated													
Rating Data Type													
Rating Unit													
Rating Date													
Footnote Number													
Trt-Eval Interval													
PRM Data Type													
# Subsamples, Dec.													
Trt Treatment	Form Fm	Rate	Grow										
No. Name	Amt Ds	Rate Unit	Stg										
=====													
12 POAST HC	3.5 EC	.188 LB A/A	12J	0	90	7	0	88	7	0	88	0	
12 COC	L	1.25 QT/A	12J										
LSD (P=.05)				7.2	14.4	12.8	0.0	19.1	8.7	0.0	24.0	8.0	
Standard Deviation				4.3	8.5	7.6	0.0	11.3	5.1	0.0	14.2	4.7	
CV				73.1	9.67	11.67	.	13.31	7.92	.	16.66	7.42	

SOYBEAN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: S7035 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS 2.CHEAL C.LAMBSQUARTERS  
Crop 1: GLXMA SOYBEAM Variety: ASGROW 2704LL Planting Date: 5-7-97  
Planting Method: ROW Rate: 12 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 59 F Soil Moisture: NORMAL Emergence Date: 5-21-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 35 FT Reps: 3  
Site Type: FILED  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-4-97	6-13-97	7-8-97		
Time of Day:	3:00 PM	2:00 PM	11:00 AM	1:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	12"J	18"J	+2WK		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	54 F	59 F	75 F	77 F		
% Relative Humidity:	81	92	88	72		
Wind Velocity, Unit:	3 MPH	5 MPH	4 MPH	3 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	54 F	63 F	71 F	76 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	30	10	20		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	PRE	12"J	18"J	+2WK		
		1 TRIFOL	2 TRIFOL	3 TRIFOL		
		6 IN	8 IN	11 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		12"J	18"J	+2WK		
		2 LF	4 LF	2 LF		
		12 IN	18 IN	6-8 IN		
CHEAL		6-8 LVS	>10 LVS			
		6 IN	10 IN			

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Weed Science Field Research

## SOYBEAN POSTEMERGENCE LIBERTY JOHNSONGRASS

Trial ID: S7035

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

SOYBEAN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: S7033 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SORHA		CHEAL		SORHA		CHEAL	
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA	
Part Rated	INJURY CONTROL	CONTROL PERCENT	CONTROL PERCENT	INJURY CONTROL	CONTROL PERCENT	CONTROL PERCENT	INJURY CONTROL	CONTROL PERCENT
Rating Data Type	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Date	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Footnote Number	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Trt-Eval Interval	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
PRM Data Type	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
# Subsamples, Dec.	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	2 WEEKS P	2 WEEKS P	2 WEEKS P	4 WEEKS P	4 WEEKS P	4 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P
1 ROUNDUP ULTRA	4	AS	.75	LB A/A	12J	3	80	97	0	62	98	0	47	97
2 ROUNDUP ULTRA	4	AS	1	LB A/A	12J	3	87	97	0	73	97	0	55	97
3 ROUNDUP ULTRA	4	AS	.75	LB A/A	18J	3	72	85	0	85	90	0	85	92
4 ROUNDUP ULTRA	4	AS	1	LB A/A	18J	7	87	90	0	92	95	0	92	95
5 SELECT	2	EC	.125	LB A/A	12J	0	90	15	0	78	15	0	75	12
5 COC	L		1	QT/A	12J									
6 SELECT	2	EC	.125	LB A/A	18J	0	80	38	0	95	30	0	95	15
6 COC	L		1	QT/A	18J									
7 FUSION	2.66	EC	.21	LB A/A	12J	0	95	30	0	92	30	0	87	15
7 COC	L		1	QT/A	12J									
8 FUSION	2.66	EC	.25	LB A/A	12J	0	97	30	0	87	28	0	87	20
8 COC	L		1	QT/A	12J									
9 FUSION	2.66	EC	.21	LB A/A	18J	0	80	22	0	95	22	0	95	17
9 COC	L		1	QT/A	18J									
10 FUSION	2.66	EC	.25	LB A/A	18J	0	77	28	0	83	27	0	93	13
10 COC	L		1	QT/A	18J									
11 CONCLUDE EXTRA		GB	.875	LB A/A	12J	32	97	100	13	82	98	0	78	97
11 COC	L		1	QT/A	12J									
12 CONCLUDE EXTRA		GB	.875	LB A/A	18J	37	93	98	22	93	87	0	88	78
12 COC	L		1	QT/A	18J									
13 ASSURE II	0.8	EC	.06	LB A/A	12J	0	97	10	0	90	13	0	90	7
13 COC	L		1	QT/A	12J									
14 ASSURE II	0.8	EC	.06	LB A/A	18J	13	88	43	3	93	30	0	93	13
14 COC	L		1	QT/A	18J									
15 PURSUIT	70	DF	.063	LB A/A	12J	35	88	90	13	83	88	0	77	75
15 COC	L		.75	QT/A	12J									
15 LIQUID N	L		1	QT/A	12J									
16 PURSUIT	70	DF	.063	LB A/A	18J	32	87	63	15	95	67	0	95	53
16 COC	L		.75	QT/A	18J									
16 LIQUID N	L		1	QT/A	18J									



SOYBEAN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: S7033 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SORHA			CHEAL						
										GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA				
										INJURY CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	
										PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
										2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	
										P	P	P	P	P	P	P	P	P	
										0	0	0	0	0	0	0	0	0	
Trt Treatment	Form	Fm	Rate	Unit	Grow														
No. Name	Amt	Ds	Rate	Unit	Stg														
17 POAST PLUS	1	E	.188	LB A/A	12J	7	98	25	0	93	25	0	93	15					
17 COC		L		1 QT/A	12J														
18 POAST PLUS	1	E	.28	LB A/A	18J	0	80	17	0	85	17	0	88	8					
18 COC		L		1 QT/A	18J														
19 POAST HC	3.5	EC	.188	LB A/A	12J	0	98	22	0	98	15	0	97	15					
19 COC		L		1 QT/A	12J														
20 POAST HC	3.5	EC	.28	LB A/A	18J	0	88	23	0	93	23	0	90	12					
20 COC		L		1 QT/A	18J														
LSD (P=.05)						10.7	16.3	16.2	9.1	14.5	13.1	0.0	14.2	13.1					
Standard Deviation						6.5	9.9	9.8	5.5	8.8	7.9	0.0	8.6	8.0					
CV						75.58	11.26	19.21	165.99	10.05	15.97	.	10.15	18.85					

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## SOYBEAN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: S7033 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-7-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1. SORHA JOHNSONGRASS 2. CHEAL C. LAMBSQUARTERS

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-7-97  
Planting Method: ROW Rate: 12 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 58 F Soil Moisture: NORMAL Emergence Date: 5-22-97

Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY

Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-4-97	6-13-97				
Time of Day:	6:30 PM	11:00 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	12"J	18"J				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	60 F	75 F				
% Relative Humidity:	92	91				
Wind Velocity, Unit:	2 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	63 F	71 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	40				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	12"J	18"J				
Stage Scale:	1 TRIFOL	2 TRIFOL				
Height, Unit:	3 IN	8 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	12"J	18"J				
Stage Scale:	3 LVS	5 LVS				
CHEAL						
Stage Scale:	8 LVS	>10 LVS				
Density, Unit:	2.5 IN	10 IN				

## SOYBEAN POSTEMERGENCE ROUNDUP JOHNSONGRASS

Trial ID: S7033                      Investigator:  
 Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	IPOHE	GLYMA	SETFA	AMBTR	IPOHE
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg								
1	SELECT	2	EC	.031	LB A/A	1WK	0	78	100	90	12	95	100	90
1	WEEDONE LV4	3.8	E	.5	LB A/A	1WK								
1	COC		L	1	QT/A	1WK								
1	LIQUID N		L	1	QT/A	1WK								
1	SELECT	2	EC	.094	LB A/A	MP								
1	PURSUIT	70	DF	.063	LB A/A	MP								
1	COBRA	2	EC	.125	LB A/A	MP								
1	COC		L	1	QT/A	MP								
1	LIQUID N		L	1	QT/A	MP								
2	SELECT	2	EC	.047	LB A/A	1WK	0	82	95	92	12	95	98	92
2	WEEDONE LV4	3.8	E	.5	LB A/A	1WK								
2	COC		L	1	QT/A	1WK								
2	LIQUID N		L	1	QT/A	1WK								
2	SELECT	2	EC	.094	LB A/A	MP								
2	PURSUIT	70	DF	.063	LB A/A	MP								
2	COBRA	2	EC	.125	LB A/A	MP								
2	COC		L	1	QT/A	MP								
2	LIQUID N		L	1	QT/A	MP								
3	SELECT	2	EC	.063	LB A/A	1WK	0	73	97	90	12	88	97	92
3	WEEDONE LV4	3.8	E	.5	LB A/A	1WK								
3	COC		L	1	QT/A	1WK								
3	LIQUID N		L	1	QT/A	1WK								
3	SELECT	2	EC	.094	LB A/A	MP								
3	PURSUIT	70	DF	.063	LB A/A	MP								
3	COBRA	2	EC	.125	LB A/A	MP								
3	COC		L	1	QT/A	MP								
3	LIQUID N		L	1	QT/A	MP								
4	SELECT	2	EC	.078	LB A/A	1WK	0	80	93	95	8	92	93	93
4	WEEDONE LV4	3.8	E	.5	LB A/A	1WK								
4	COC		L	1	QT/A	1WK								
4	LIQUID N		L	1	QT/A	1WK								
4	SELECT	2	EC	.094	LB A/A	MP								
4	PURSUIT	70	DF	.063	LB A/A	MP								
4	COBRA	2	EC	.125	LB A/A	MP								
4	COC		L	1	QT/A	MP								
4	LIQUID N		L	1	QT/A	MP								



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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	IPOHE		SETFA	AMBTR	IPOHE
Crop Code								
Part Rated								
Rating Data Type								
Rating Unit								
Rating Date								
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	AMBTR	IPOHE	GLYMA	SETFA	AMBTR	IPOHE
						INJURY CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
						2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
						P	P	P	P	P	P	P	P
						0	0	0	0	0	0	0	0
9 ROUNDUP ULTRA	4	AS	.5	LB A/A	1WK	0	73	98	87	10	83	98	92
9 WEEDONE LV4	3.8	E	.5	LB A/A	1WK								
9 AMS	100	SG	17	LB A/100 GAL	1WK								
9 SELECT	2	EC	.094	LB A/A	MP								
9 PURSUIT	70	DF	.063	LB A/A	MP								
9 COBRA	2	EC	.125	LB A/A	MP								
9 COC		L	1	QT/A	MP								
9 LIQUID N		L	1	QT/A	MP								
10 CANOPY XL						0	82	95	97	0	95	98	100
10 AUTHORITY	75	DF	.106	LB A/A	2WK								
10 CLASSIC	25	DF	.021	LB A/A	2WK								
10 COC		L	1	QT/A	2WK								
10 ROUNDUP ULTRA	4	AS	.625	LB A/A	MP								
11 CANOPY XL						0	93	92	85	0	95	98	92
11 AUTHORITY	75	DF	.106	LB A/A	2WK								
11 CLASSIC	25	DF	.021	LB A/A	2WK								
11 COC		L	1	QT/A	2WK								
11 ROUNDUP ULTRA	4	AS	.625	LB A/A	MP								
11 CLASSIC	25	DF	.005	LB A/A	MP								
11 ACTIVATOR 90			.25	% V/V	MP								
12 CANOPY XL						0	97	93	90	0	98	97	88
12 AUTHORITY	75	DF	.106	LB A/A	2WK								
12 CLASSIC	25	DF	.021	LB A/A	2WK								
12 DUAL II	7.8	EC	2	LB A/A	2WK								
12 COC		L	1	QT/A	2WK								
12 ROUNDUP ULTRA	4	AS	.625	LB A/A	MP								
13 CANOPY XL						0	98	98	92	0	98	98	92
13 AUTHORITY	75	DF	.199	LB A/A	2WK								
13 CLASSIC	25	DF	.04	LB A/A	2WK								
13 COC		L	1	QT/A	2WK								
13 ROUNDUP ULTRA	4	AS	.5	LB A/A	MP								
14 CANOPY XL						0	97	95	95	0	95	95	92
14 AUTHORITY	75	DF	.106	LB A/A	2WK								
14 CLASSIC	25	DF	.021	LB A/A	2WK								
14 COC		L	1	QT/A	2WK								
14 SYNCHRONY STS	25	DF	.013	LB A/A	MP								
14 POAST PLUS	1	E	.188	LB A/A	MP								
14 ASSURE II	0.8	EC	.055	LB A/A	MP								
14 COC		L	1	QT/A	MP								

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GLYMA	SETFA	AMBTR	IPOHE	GLYMA	SETFA	AMBTR	IPOHE
										INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL				
										2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
										P	P	P	P	P	P	P	P
										0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	AMBTR	IPOHE	GLYMA	SETFA	AMBTR	IPOHE
15	COVER	75	DF	.188	LB A/A	2WK	0	92	67	90	0	93	83	97
15	COC		L	1	QT/A	2WK								
15	SYNCHRONY STS	25	DF	.013	LB A/A	MP								
15	POAST PLUS	1	E	.188	LB A/A	MP								
15	ASSURE II	0.8	EC	.055	LB A/A	MP								
15	COC		L	1	QT/A	MP								
16	COVER	75	DF	.188	LB A/A	2WK	0	82	78	90	0	72	85	93
16	DUAL II	7.8	EC	2	LB A/A	2WK								
16	COC		L	1	QT/A	2WK								
16	SYNCHRONY STS	25	DF	.013	LB A/A	MP								
16	COC		L	1	QT/A	MP								
17	CANOPY XL						0	90	80	83	0	95	95	92
17	AUTHORITY	75	DF	.067	LB A/A	2WK								
17	CLASSIC	25	DF	.014	LB A/A	2WK								
17	COC		L	1	QT/A	2WK								
17	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP								
18	CANOPY XL						0	97	95	93	0	97	80	93
18	AUTHORITY	75	DF	.199	LB A/A	2WK								
18	CLASSIC	25	DF	.04	LB A/A	2WK								
18	COC		L	1	QT/A	2WK								
18	ASSURE II	0.8	EC	.055	LB A/A	MP								
18	COC		L	1	QT/A	MP								
19	AUTHORITY BROADLEAF						0	100	93	92	0	97	80	92
19	AUTHORITY	75	DF	.2	LB A/A	1WK								
19	CLASSIC	25	DF	.04	LB A/A	1WK								
19	COMMAND	3	ME	.75	LB A/A	1WK								
19	ROUNDUP ULTRA	4	AS	.75	LB A/A	1WK								
20	CHECK						0	0	0	0	0	0	0	0
21	AUTHORITY BROADLEAF						0	100	100	97	0	95	97	93
21	AUTHORITY	75	DF	.2	LB A/A	3WK								
21	CLASSIC	25	DF	.04	LB A/A	3WK								
21	COMMAND	3	ME	.75	LB A/A	3WK								
21	WEEDONE LV4	3.8	E	.5	LB A/A	3WK								
21	COC		L	1	QT/A	3WK								

LSD (P=.05)	0.0	14.7	10.5	13.8	7.3	9.7	10.8	8.7
Standard Deviation	0.0	8.9	6.4	8.4	4.4	5.9	6.5	5.3
CV	.	10.67	7.27	9.75	98.91	6.64	7.27	5.99

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	IPOHE
Crop Code	GLYMA		
Part Rated			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate Unit	Grow Stg	8 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P
1	SELECT	2	EC	.031 LB A/A	1WK	18	90	100	90
1	WEEDONE LV4	3.8	E	.5 LB A/A	1WK				
1	COC		L	1 QT/A	1WK				
1	LIQUID N		L	1 QT/A	1WK				
1	SELECT	2	EC	.094 LB A/A	MP				
1	PURSUIT	70	DF	.063 LB A/A	MP				
1	COBRA	2	EC	.125 LB A/A	MP				
1	COC		L	1 QT/A	MP				
1	LIQUID N		L	1 QT/A	MP				
2	SELECT	2	EC	.047 LB A/A	1WK	18	95	98	90
2	WEEDONE LV4	3.8	E	.5 LB A/A	1WK				
2	COC		L	1 QT/A	1WK				
2	LIQUID N		L	1 QT/A	1WK				
2	SELECT	2	EC	.094 LB A/A	MP				
2	PURSUIT	70	DF	.063 LB A/A	MP				
2	COBRA	2	EC	.125 LB A/A	MP				
2	COC		L	1 QT/A	MP				
2	LIQUID N		L	1 QT/A	MP				
3	SELECT	2	EC	.063 LB A/A	1WK	22	88	97	90
3	WEEDONE LV4	3.8	E	.5 LB A/A	1WK				
3	COC		L	1 QT/A	1WK				
3	LIQUID N		L	1 QT/A	1WK				
3	SELECT	2	EC	.094 LB A/A	MP				
3	PURSUIT	70	DF	.063 LB A/A	MP				
3	COBRA	2	EC	.125 LB A/A	MP				
3	COC		L	1 QT/A	MP				
3	LIQUID N		L	1 QT/A	MP				
4	SELECT	2	EC	.078 LB A/A	1WK	15	92	93	93
4	WEEDONE LV4	3.8	E	.5 LB A/A	1WK				
4	COC		L	1 QT/A	1WK				
4	LIQUID N		L	1 QT/A	1WK				
4	SELECT	2	EC	.094 LB A/A	MP				
4	PURSUIT	70	DF	.063 LB A/A	MP				
4	COBRA	2	EC	.125 LB A/A	MP				
4	COC		L	1 QT/A	MP				
4	LIQUID N		L	1 QT/A	MP				



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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	IPOHE
Crop Code	GLYMA		
Part Rated			
Rating Data Type	INJURY CONTROL CONTROL CONTROL		
Rating Unit	PERCENT PERCENT PERCENT PERCENT		
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS		
PRM Data Type	P P P P		
# Subsamples, Dec.	0 0 0 0		

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg				
5	SELECT	2	EC	.094	LB A/A	1WK	17	95	97	87
5	WEEDONE LV4	3.8	E	.5	LB A/A	1WK				
5	COC		L	1	QT/A	1WK				
5	LIQUID N		L	1	QT/A	1WK				
5	SELECT	2	EC	.094	LB A/A	MP				
5	PURSUIT	70	DF	.063	LB A/A	MP				
5	COBRA	2	EC	.125	LB A/A	MP				
5	COC		L	1	QT/A	MP				
5	LIQUID N		L	1	QT/A	MP				
6	SELECT	2	EC	.047	LB A/A	1WK	15	97	98	90
6	WEEDONE LV4	3.8	E	.5	LB A/A	1WK				
6	PROWL	3.3	EC	1	LB A/A	1WK				
6	COC		L	1	QT/A	1WK				
6	LIQUID N		L	1	QT/A	1WK				
6	SELECT	2	EC	.094	LB A/A	MP				
6	PURSUIT	70	DF	.063	LB A/A	MP				
6	COBRA	2	EC	.125	LB A/A	MP				
6	COC		L	1	QT/A	MP				
6	LIQUID N		L	1	QT/A	MP				
7	SELECT	2	EC	.063	LB A/A	1WK	18	93	98	97
7	WEEDONE LV4	3.8	E	.5	LB A/A	1WK				
7	PROWL	3.3	EC	1	LB A/A	1WK				
7	COC		L	1	QT/A	1WK				
7	LIQUID N		L	1	QT/A	1WK				
7	SELECT	2	EC	.094	LB A/A	MP				
7	PURSUIT	70	DF	.063	LB A/A	MP				
7	COBRA	2	EC	.125	LB A/A	MP				
7	COC		L	1	QT/A	MP				
7	LIQUID N		L	1	QT/A	MP				
8	SELECT	2	EC	.043	LB A/A	1WK	15	90	95	90
8	COC		L	1	QT/A	1WK				
8	LIQUID N		L	1	QT/A	1WK				
8	SELECT	2	EC	.094	LB A/A	MP				
8	PURSUIT	70	DF	.063	LB A/A	MP				
8	COBRA	2	EC	.125	LB A/A	MP				
8	COC		L	1	QT/A	MP				
8	LIQUID N		L	1	QT/A	MP				

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	IPOHE
Crop Code	GLYMA		
Part Rated			
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg				
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	1WK	18	83	98	92
9	WEEDONE LV4	3.8	E	.5	LB A/A	1WK				
9	AMS	100	SG	17	LB A/100 GAL	1WK				
9	SELECT	2	EC	.094	LB A/A	MP				
9	PURSUIT	70	DF	.063	LB A/A	MP				
9	COBRA	2	EC	.125	LB A/A	MP				
9	COC		L	1	QT/A	MP				
9	LIQUID N		L	1	QT/A	MP				
10	CANOPY XL						0	95	98	100
10	AUTHORITY	75	DF	.106	LB A/A	2WK				
10	CLASSIC	25	DF	.021	LB A/A	2WK				
10	COC		L	1	QT/A	2WK				
10	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP				
11	CANOPY XL						0	95	98	87
11	AUTHORITY	75	DF	.106	LB A/A	2WK				
11	CLASSIC	25	DF	.021	LB A/A	2WK				
11	COC		L	1	QT/A	2WK				
11	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP				
11	CLASSIC	25	DF	.005	LB A/A	MP				
11	ACTIVATOR 90			.25	% V/V	MP				
12	CANOPY XL						0	98	97	88
12	AUTHORITY	75	DF	.106	LB A/A	2WK				
12	CLASSIC	25	DF	.021	LB A/A	2WK				
12	DUAL II	7.8	EC	2	LB A/A	2WK				
12	COC		L	1	QT/A	2WK				
12	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP				
13	CANOPY XL						0	98	98	92
13	AUTHORITY	75	DF	.199	LB A/A	2WK				
13	CLASSIC	25	DF	.04	LB A/A	2WK				
13	COC		L	1	QT/A	2WK				
13	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP				
14	CANOPY XL						0	95	95	95
14	AUTHORITY	75	DF	.106	LB A/A	2WK				
14	CLASSIC	25	DF	.021	LB A/A	2WK				
14	COC		L	1	QT/A	2WK				
14	SYNCHRONY STS	25	DF	.013	LB A/A	MP				
14	POAST PLUS	1	E	.188	LB A/A	MP				
14	ASSURE II	0.8	EC	.055	LB A/A	MP				
14	COC		L	1	QT/A	MP				

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	IPOHE
Crop Code				
Part Rated				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	AMBTR	IPOHE
15	COVER	75	DF	.188	LB A/A	2WK	0	92	93	97
15	COC		L	1	QT/A	2WK				
15	SYNCHRONY STS	25	DF	.013	LB A/A	MP				
15	POAST PLUS	1	E	.188	LB A/A	MP				
15	ASSURE II	0.8	EC	.055	LB A/A	MP				
15	COC		L	1	QT/A	MP				
16	COVER	75	DF	.188	LB A/A	2WK	0	75	88	93
16	DUAL II	7.8	EC	2	LB A/A	2WK				
16	COC		L	1	QT/A	2WK				
16	SYNCHRONY STS	25	DF	.013	LB A/A	MP				
16	COC		L	1	QT/A	MP				
17	CANOPY XL						0	95	92	90
17	AUTHORITY	75	DF	.067	LB A/A	2WK				
17	CLASSIC	25	DF	.014	LB A/A	2WK				
17	COC		L	1	QT/A	2WK				
17	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP				
18	CANOPY XL						0	97	95	93
18	AUTHORITY	75	DF	.199	LB A/A	2WK				
18	CLASSIC	25	DF	.04	LB A/A	2WK				
18	COC		L	1	QT/A	2WK				
18	ASSURE II	0.8	EC	.055	LB A/A	MP				
18	COC		L	1	QT/A	MP				
19	AUTHORITY BROADLEAF						0	97	95	92
19	AUTHORITY	75	DF	.2	LB A/A	1WK				
19	CLASSIC	25	DF	.04	LB A/A	1WK				
19	COMMAND	3	ME	.75	LB A/A	1WK				
19	ROUNDUP ULTRA	4	AS	.75	LB A/A	1WK				
20	CHECK						0	0	0	0
21	AUTHORITY BROADLEAF						3	95	100	93
21	AUTHORITY	75	DF	.2	LB A/A	3WK				
21	CLASSIC	25	DF	.04	LB A/A	3WK				
21	COMMAND	3	ME	.75	LB A/A	3WK				
21	WEEDONE LV4	3.8	E	.5	LB A/A	3WK				
21	COC		L	1	QT/A	3WK				

LSD (P=.05)	5.9	10.0	5.7	9.4
Standard Deviation	3.6	6.1	3.5	5.7
CV	47.17	6.86	3.79	6.47

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546

Trial Status: COMPLETE Initiation Date: 4-24-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED 3.IPOSS MORNINGGLORY

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1.0 IN  
Soil Temperature: 55 F Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6.1 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 2 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-24-97	4-30-97	5-5-97	6-20-97		
Time of Day:	10:00 AM	4:00 PM	3:00 PM	2:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	3 WK	2 WK	1 WK	MP		
Applic. Placement:	BROSOI	BROSOI	BROSOI	BROFOL		
Air Temp., Unit:	49 F	62 F	56 F	72 F		
% Relative Humidity:	70	80	80	85		
Wind Velocity, Unit:	4 MPH	3 MPH	3 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	50 F	58 F	52 F	77 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	40	40	30		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA				MP		
				2 TRIFOL		
				8 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA				3 LVS		
				2-4 IN		
AMBTR				6-7 LVS		
				5-6 IN		
IPOSS				2 LVS		
				4 IN		

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S7017                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	4 WHEELER	4 WHEELER	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Rating Unit	P	P	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0	0	0
Footnote Number												
Trt-Eval Interval												
PRM Data Type												
# Subsamples, Dec.												

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
1	SELECT	2	EC	.031	LB A/A	1WK	0	77	99	96	99	90	7	85	99	99	99	96
1	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
1	COC		L	1	QT/A	1WK												
1	LIQUID N		L	1	QT/A	1WK												
1	SELECT	2	EC	.094	LB A/A	MP												
1	PURSUIT	70	DF	.063	LB A/A	MP												
1	COBRA	2	EC	.125	LB A/A	MP												
1	COC		L	1	QT/A	MP												
1	LIQUID N		L	1	QT/A	MP												
2	SELECT	2	EC	.047	LB A/A	1WK	0	83	99	96	99	90	3	88	99	99	99	99
2	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
2	COC		L	1	QT/A	1WK												
2	LIQUID N		L	1	QT/A	1WK												
2	SELECT	2	EC	.094	LB A/A	MP												
2	PURSUIT	70	DF	.063	LB A/A	MP												
2	COBRA	2	EC	.125	LB A/A	MP												
2	COC		L	1	QT/A	MP												
2	LIQUID N		L	1	QT/A	MP												
3	SELECT	2	EC	.063	LB A/A	1WK	0	78	99	91	99	83	7	85	99	99	99	96
3	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
3	COC		L	1	QT/A	1WK												
3	LIQUID N		L	1	QT/A	1WK												
3	SELECT	2	EC	.094	LB A/A	MP												
3	PURSUIT	70	DF	.063	LB A/A	MP												
3	COBRA	2	EC	.125	LB A/A	MP												
3	COC		L	1	QT/A	MP												
3	LIQUID N		L	1	QT/A	MP												
4	SELECT	2	EC	.078	LB A/A	1WK	0	83	96	90	91	83	2	92	99	99	99	99
4	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
4	COC		L	1	QT/A	1WK												
4	LIQUID N		L	1	QT/A	1WK												
4	SELECT	2	EC	.094	LB A/A	MP												
4	PURSUIT	70	DF	.063	LB A/A	MP												
4	COBRA	2	EC	.125	LB A/A	MP												
4	COC		L	1	QT/A	MP												
4	LIQUID N		L	1	QT/A	MP												

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Rating Unit	P	P	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0	0	0
Footnote Number												
Trt-Eval Interval												
PRM Data Type												
# Subsamples, Dec.												

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
5	SELECT	2	EC	.094	LB A/A	1WK	0	82	99	90	99	77	5	88	99	99	99	99
5	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
5	COC		L	1	QT/A	1WK												
5	LIQUID N		L	1	QT/A	1WK												
5	SELECT	2	EC	.094	LB A/A	MP												
5	PURSUIT	70	DF	.063	LB A/A	MP												
5	COBRA	2	EC	.125	LB A/A	MP												
5	COC		L	1	QT/A	MP												
5	LIQUID N		L	1	QT/A	MP												
6	SELECT	2	EC	.047	LB A/A	1WK	0	88	99	99	99	78	3	93	99	99	99	96
6	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
6	PROWL	3.3	EC	.5	LB A/A	1WK												
6	COC		L	1	QT/A	1WK												
6	LIQUID N		L	1	QT/A	1WK												
6	SELECT	2	EC	.094	LB A/A	MP												
6	PURSUIT	70	DF	.063	LB A/A	MP												
6	COBRA	2	EC	.125	LB A/A	MP												
6	COC		L	1	QT/A	MP												
6	LIQUID N		L	1	QT/A	MP												
7	SELECT	2	EC	.063	LB A/A	1WK	0	90	99	99	99	99	2	93	99	99	99	99
7	WEEDONE LV4	3.8	E	.5	LB A/A	1WK												
7	PROWL	3.3	EC	1	LB A/A	1WK												
7	COC		L	1	QT/A	1WK												
7	LIQUID N		L	1	QT/A	1WK												
7	SELECT	2	EC	.094	LB A/A	MP												
7	PURSUIT	70	DF	.063	LB A/A	MP												
7	COBRA	2	EC	.125	LB A/A	MP												
7	COC		L	1	QT/A	MP												
7	LIQUID N		L	1	QT/A	MP												
8	SELECT	2	EC	.043	LB A/A	1WK	0	83	90	85	75	42	7	92	99	99	99	81
8	COC		L	1	QT/A	1WK												
8	LIQUID N		L	1	QT/A	1WK												
8	SELECT	2	EC	.094	LB A/A	MP												
8	PURSUIT	70	DF	.063	LB A/A	MP												
8	COBRA	2	EC	.125	LB A/A	MP												
8	COC		L	1	QT/A	MP												
8	LIQUID N		L	1	QT/A	MP												

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Rating Unit	P	P	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0	0	0
Footnote Number												
Trt-Eval Interval												
PRM Data Type												
# Subsamples, Dec.												

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
9 ROUNDUP ULTRA	4 AS		.5 LB	A/A	1WK	0	77	99	96	99	83	18	88	99	99	99	99
9 WEEDONE LV4	3.8 E		.5 LB	A/A	1WK												
9 AMS	100 SG		17 LB	A/100 GAL	1WK												
9 SELECT	2 EC		.094 LB	A/A	MP												
9 PURSUIT	70 DF		.063 LB	A/A	MP												
9 COBRA	2 EC		.125 LB	A/A	MP												
9 COC	L		1 QT/A		MP												
9 LIQUID N	L		1 QT/A		MP												
10 CANOPY XL						0	87	99	99	99	93	0	95	99	99	99	99
10 AUTHORITY	75 DF		.106 LB	A/A	2WK												
10 CLASSIC	25 DF		.021 LB	A/A	2WK												
10 COC	L		1 QT/A		2WK												
10 ROUNDUP ULTRA	4 AS		.625 LB	A/A	MP												
11 CANOPY XL						0	87	99	96	99	91	0	95	99	99	99	99
11 AUTHORITY	75 DF		.106 LB	A/A	2WK												
11 CLASSIC	25 DF		.021 LB	A/A	2WK												
11 COC	L		1 QT/A		2WK												
11 ROUNDUP ULTRA	4 AS		.625 LB	A/A	MP												
11 CLASSIC	25 DF		.005 LB	A/A	MP												
11 ACTIVATOR 90			.25 %	V/V	MP												
12 CANOPY XL						0	90	99	99	96	90	0	94	99	99	99	99
12 AUTHORITY	75 DF		.106 LB	A/A	2WK												
12 CLASSIC	25 DF		.021 LB	A/A	2WK												
12 DUAL II	7.8 EC		2 LB	A/A	2WK												
12 COC	L		1 QT/A		2WK												
12 ROUNDUP ULTRA	4 AS		.625 LB	A/A	MP												
13 CANOPY XL						0	60	66	66	66	66	0	93	99	99	99	93
13 AUTHORITY	75 DF		.199 LB	A/A	2WK												
13 CLASSIC	25 DF		.04 LB	A/A	2WK												
13 COC	L		1 QT/A		2WK												
13 ROUNDUP ULTRA	4 AS		.5 LB	A/A	MP												
14 CANOPY XL						0	83	99	99	99	99	0	95	99	99	99	99
14 AUTHORITY	75 DF		.106 LB	A/A	2WK												
14 CLASSIC	25 DF		.021 LB	A/A	2WK												
14 COC	L		1 QT/A		2WK												
14 SYNCHRONY STS	25 DF		.013 LB	A/A	MP												
14 POAST PLUS	1 E		.188 LB	A/A	MP												
14 ASSURE II	0.8 EC		.055 LB	A/A	MP												
14 COC	L		1 QT/A		MP												



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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR						
										INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT						
										2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK						
										P	P	P	P	P	P	P	P	P	P	P	P						
										0	0	0	0	0	0	0	0	0	0	0	0						
15 COVER										75	DF	.188	LB A/A	2WK		0	83	99	96	86	76	0	88	99	99	99	80
15 COC											L	1 QT/A	2WK														
15 SYNCHRONY STS										25	DF	.013	LB A/A	MP													
15 POAST PLUS										1	E	.188	LB A/A	MP													
15 ASSURE II										0.8	EC	.055	LB A/A	MP													
15 COC											L	1 QT/A	MP														
16 COVER										75	DF	.188	LB A/A	2WK		0	93	99	99	99	65	0	82	99	99	99	73
16 DUAL II										7.8	EC	2	LB A/A	2WK													
16 COC											L	1 QT/A	2WK														
16 SYNCHRONY STS										25	DF	.013	LB A/A	MP													
16 COC											L	1 QT/A	MP														
17 CANOPY XL																0	85	99	96	99	96	0	95	99	99	99	99
17 AUTHORITY										75	DF	.067	LB A/A	2WK													
17 CLASSIC										25	DF	.014	LB A/A	2WK													
17 COC											L	1 QT/A	2WK														
17 ROUNDUP ULTRA										4	AS	.625	LB A/A	MP													
18 CANOPY XL																0	87	99	99	99	99	0	95	99	99	99	96
18 AUTHORITY										75	DF	.199	LB A/A	2WK													
18 CLASSIC										25	DF	.04	LB A/A	2WK													
18 COC											L	1 QT/A	2WK														
18 ASSURE II										0.8	EC	.055	LB A/A	MP													
18 COC											L	1 QT/A	MP														
19 AUTHORITY BROADLEAF																0	98	99	96	99	99	0	95	99	99	96	90
19 AUTHORITY										75	DF	.2	LB A/A	1WK													
19 CLASSIC										25	DF	.04	LB A/A	1WK													
19 COMMAND										3	ME	.75	LB A/A	1WK													
19 ROUNDUP ULTRA										4	AS	.75	LB A/A	1WK													
20 CHECK																0	0	0	0	0	0	0	0	0	0	0	0
21 AUTHORITY BROADLEAF																0	98	99	96	99	99	0	95	99	94	99	99
21 AUTHORITY										75	DF	.2	LB A/A	3WK													
21 CLASSIC										25	DF	.04	LB A/A	3WK													
21 COMMAND										3	ME	.75	LB A/A	3WK													
21 WEEDONE LV4										3.8	E	.5	LB A/A	3WK													
21 COC											L	1 QT/A	3WK														
LSD (P=.05)																0.0	20.2	20.9	22.0	21.5	29.2	4.8	6.1	0.0	2.9	1.9	13.4
Standard Deviation																0.0	12.2	12.6	13.4	13.0	17.7	2.9	3.7	0.0	1.8	1.1	8.5
CV																	15.19	13.72	14.89	14.41	21.86	113.94	4.26	0.0	1.88	1.2	9.5

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	0	91	99	99	96	91
1	SELECT	2	EC	.031	LB A/A	LWK	0	91	99	99	96	91
1	WEEDONE LV4	3.8	E	.5	LB A/A	LWK						
1	COC		L	1	QT/A	LWK						
1	LIQUID N		L	1	QT/A	LWK						
1	SELECT	2	EC	.094	LB A/A	MP						
1	PURSUIT	70	DF	.063	LB A/A	MP						
1	COBRA	2	EC	.125	LB A/A	MP						
1	COC		L	1	QT/A	MP						
1	LIQUID N		L	1	QT/A	MP						
2	SELECT	2	EC	.047	LB A/A	LWK	0	87	99	99	99	78
2	WEEDONE LV4	3.8	E	.5	LB A/A	LWK						
2	COC		L	1	QT/A	LWK						
2	LIQUID N		L	1	QT/A	LWK						
2	SELECT	2	EC	.094	LB A/A	MP						
2	PURSUIT	70	DF	.063	LB A/A	MP						
2	COBRA	2	EC	.125	LB A/A	MP						
2	COC		L	1	QT/A	MP						
2	LIQUID N		L	1	QT/A	MP						
3	SELECT	2	EC	.063	LB A/A	LWK	0	92	99	99	99	82
3	WEEDONE LV4	3.8	E	.5	LB A/A	LWK						
3	COC		L	1	QT/A	LWK						
3	LIQUID N		L	1	QT/A	LWK						
3	SELECT	2	EC	.094	LB A/A	MP						
3	PURSUIT	70	DF	.063	LB A/A	MP						
3	COBRA	2	EC	.125	LB A/A	MP						
3	COC		L	1	QT/A	MP						
3	LIQUID N		L	1	QT/A	MP						
4	SELECT	2	EC	.078	LB A/A	LWK	0	96	99	99	99	93
4	WEEDONE LV4	3.8	E	.5	LB A/A	LWK						
4	COC		L	1	QT/A	LWK						
4	LIQUID N		L	1	QT/A	LWK						
4	SELECT	2	EC	.094	LB A/A	MP						
4	PURSUIT	70	DF	.063	LB A/A	MP						
4	COBRA	2	EC	.125	LB A/A	MP						
4	COC		L	1	QT/A	MP						
4	LIQUID N		L	1	QT/A	MP						

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Weed Science Field Research

MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code						
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
5	SELECT	2	EC	.094	LB A/A	1WK	0	93	99	99	99	87
5	WEEDONE LV4	3.8	E	.5	LB A/A	1WK						
5	COC		L	1	QT/A	1WK						
5	LIQUID N		L	1	QT/A	1WK						
5	SELECT	2	EC	.094	LB A/A	MP						
5	PURSUIT	70	DF	.063	LB A/A	MP						
5	COBRA	2	EC	.125	LB A/A	MP						
5	COC		L	1	QT/A	MP						
5	LIQUID N		L	1	QT/A	MP						
6	SELECT	2	EC	.047	LB A/A	1WK	0	95	99	99	99	80
6	WEEDONE LV4	3.8	E	.5	LB A/A	1WK						
6	PROWL	3.3	EC	.5	LB A/A	1WK						
6	COC		L	1	QT/A	1WK						
6	LIQUID N		L	1	QT/A	1WK						
6	SELECT	2	EC	.094	LB A/A	MP						
6	PURSUIT	70	DF	.063	LB A/A	MP						
6	COBRA	2	EC	.125	LB A/A	MP						
6	COC		L	1	QT/A	MP						
6	LIQUID N		L	1	QT/A	MP						
7	SELECT	2	EC	.063	LB A/A	1WK	0	99	99	99	99	87
7	WEEDONE LV4	3.8	E	.5	LB A/A	1WK						
7	PROWL	3.3	EC	1	LB A/A	1WK						
7	COC		L	1	QT/A	1WK						
7	LIQUID N		L	1	QT/A	1WK						
7	SELECT	2	EC	.094	LB A/A	MP						
7	PURSUIT	70	DF	.063	LB A/A	MP						
7	COBRA	2	EC	.125	LB A/A	MP						
7	COC		L	1	QT/A	MP						
7	LIQUID N		L	1	QT/A	MP						
8	SELECT	2	EC	.043	LB A/A	1WK	0	96	99	99	99	71
8	COC		L	1	QT/A	1WK						
8	LIQUID N		L	1	QT/A	1WK						
8	SELECT	2	EC	.094	LB A/A	MP						
8	PURSUIT	70	DF	.063	LB A/A	MP						
8	COBRA	2	EC	.125	LB A/A	MP						
8	COC		L	1	QT/A	MP						
8	LIQUID N		L	1	QT/A	MP						

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code						
Part Rated						
Rating Data Type						
Rating Unit						
Rating Date						
Footnote Number						
Trt-Eval Interval						
PRM Data Type						
# Subsamples, Dec.						
	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
	P	P	P	P	P	P
	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg						
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	1WK	0	85	99	99	99	88
9	WEEDONE LV4	3.8	E	.5	LB A/A	1WK						
9	AMS	100	SG	17	LB A/100 GAL	1WK						
9	SELECT	2	EC	.094	LB A/A	MP						
9	PURSUIT	70	DF	.063	LB A/A	MP						
9	COBRA	2	EC	.125	LB A/A	MP						
9	COC		L	1	QT/A	MP						
9	LIQUID N		L	1	QT/A	MP						
10	CANOPY XL						0	98	99	99	99	99
10	AUTHORITY	75	DF	.106	LB A/A	2WK						
10	CLASSIC	25	DF	.021	LB A/A	2WK						
10	COC		L	1	QT/A	2WK						
10	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP						
11	CANOPY XL						0	98	99	99	99	96
11	AUTHORITY	75	DF	.106	LB A/A	2WK						
11	CLASSIC	25	DF	.021	LB A/A	2WK						
11	COC		L	1	QT/A	2WK						
11	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP						
11	CLASSIC	25	DF	.005	LB A/A	MP						
11	ACTIVATOR 90			.25	% V/V	MP						
12	CANOPY XL						0	98	99	99	99	99
12	AUTHORITY	75	DF	.106	LB A/A	2WK						
12	CLASSIC	25	DF	.021	LB A/A	2WK						
12	DUAL II	7.8	EC	2	LB A/A	2WK						
12	COC		L	1	QT/A	2WK						
12	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP						
13	CANOPY XL						0	98	99	99	99	88
13	AUTHORITY	75	DF	.199	LB A/A	2WK						
13	CLASSIC	25	DF	.04	LB A/A	2WK						
13	COC		L	1	QT/A	2WK						
13	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP						
14	CANOPY XL						0	95	99	91	99	87
14	AUTHORITY	75	DF	.106	LB A/A	2WK						
14	CLASSIC	25	DF	.021	LB A/A	2WK						
14	COC		L	1	QT/A	2WK						
14	SYNCHRONY STS	25	DF	.013	LB A/A	MP						
14	POAST PLUS	1	E	.188	LB A/A	MP						
14	ASSURE II	0.8	EC	.055	LB A/A	MP						
14	COC		L	1	QT/A	MP						

MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
Crop Code						
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	POLPY	SOLPT	AMBEL	AMBTR
15	COVER	75	DF	.188	LB A/A	2WK	0	93	99	91	99	66
15	COC		L	1	QT/A	2WK						
15	SYNCHRONY STS	25	DF	.013	LB A/A	MP						
15	POAST PLUS	1	E	.188	LB A/A	MP						
15	ASSURE II	0.8	EC	.055	LB A/A	MP						
15	COC		L	1	QT/A	MP						
16	COVER	75	DF	.188	LB A/A	2WK	0	85	99	99	99	50
16	DUAL II	7.8	EC	2	LB A/A	2WK						
16	COC		L	1	QT/A	2WK						
16	SYNCHRONY STS	25	DF	.013	LB A/A	MP						
16	COC		L	1	QT/A	MP						
17	CANOPY XL						0	99	99	99	99	94
17	AUTHORITY	75	DF	.067	LB A/A	2WK						
17	CLASSIC	25	DF	.014	LB A/A	2WK						
17	COC		L	1	QT/A	2WK						
17	ROUNDUP ULTRA	4	AS	.625	LB A/A	MP						
18	CANOPY XL						0	98	99	99	99	94
18	AUTHORITY	75	DF	.199	LB A/A	2WK						
18	CLASSIC	25	DF	.04	LB A/A	2WK						
18	COC		L	1	QT/A	2WK						
18	ASSURE II	0.8	EC	.055	LB A/A	MP						
18	COC		L	1	QT/A	MP						
19	AUTHORITY BROADLEAF						0	93	99	99	99	75
19	AUTHORITY	75	DF	.2	LB A/A	1WK						
19	CLASSIC	25	DF	.04	LB A/A	1WK						
19	COMMAND	3	ME	.75	LB A/A	1WK						
19	ROUNDUP ULTRA	4	AS	.75	LB A/A	1WK						
20	CHECK						0	0	0	0	0	0
21	AUTHORITY BROADLEAF						0	93	99	91	98	93
21	AUTHORITY	75	DF	.2	LB A/A	3WK						
21	CLASSIC	25	DF	.04	LB A/A	3WK						
21	COMMAND	3	ME	.75	LB A/A	3WK						
21	WEEDONE LV4	3.8	E	.5	LB A/A	3WK						
21	COC		L	1	QT/A	3WK						

LSD (P=.05)	0.0	7.9	0.0	8.2	2.0	22.6
Standard Deviation	0.0	4.8	0.0	5.0	1.2	13.7
CV	.	5.33	0.0	5.33	1.29	16.92

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 4-24-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.POLPY PENN. SMARTWEED 3.SOLPT E.B. NIGHTSHADE  
4.AMBEL COMMON RAGWEED 5.AMBTR GIANT RAGWEED

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 55 F Soil Moisture: NORMAL Emergence Date: 5-22-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: MINIMUM-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINLETOP Distance: 2 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-24-97	4-30-97	5-5-97	6-20-97		
Time of Day:	11:00 AM	1:00 PM	2:00 PM	1:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	3 WK	2 WK	1 WK	MP		
Applic. Placement:	BROSIOI	BROSIOI	BROSIOI	BROFOL		
Air Temp., Unit:	49 F	62 F	56 F	80 F		
% Relative Humidity:	80	77	75	80		
Wind Velocity, Unit:	3 MPH	4 MPH	2 MPH	3 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	55 F	58 F	53 F	75 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	35	40	40		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA				MP		
				2 TRIFOL		
				10 IN		

MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S7019                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA				3 LVS		
				2-4 IN		
POLPY				>10 LVS		
				3-5 IN		
SOLPT				6-8 LVS		
				3-4 IN		
AMBEL				>10 LVS		
				4-5 IN		
AMBTR				5 LVS		
				4-5 IN		

APPLICATION EQUIPMENT

	A		B		C		D	E	F
Appl. Equipment:	4	WHEELER	4	WHEELER	4	WHEELER	BACKPACK		
Operating Pressure:	30		30		30		30		
Nozzle Type:	FLAT	FAN	FLAT	FAN	FLAT	FAN	FLAT	FAN	
Nozzle Size:	8004	DG	8004	DG	8004	DG	8004	DG	
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN	20	IN	
Boom Length, Unit:	6.33	FT	6.33	FT	6.33	FT	6.33	FT	
Boom Height, Unit:	19	IN	19	IN	19	IN	19	IN	
Ground Speed, Unit:	4	MPH	4	MPH	4	MPH	4	MPH	
Carrier:	WATER		WATER		WATER		WATER		
Spray Volume, Unit:	24	GPA	24	GPA	24	GPA	24	GPA	
Propellant:	CO2		CO2		CO2		CO2		

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NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Amt	Ds	Rate	Unit	Grow Stg						
1	PROWL	3.3	EC	1		LB	A/A	PRE	3	100	87	90	72	87
1	TOUCHDOWN BTU	5	SL	1		LB	A/A	PRE						
1	ACTIVATOR 90			.5		%	V/V	PRE						
1	PURSUIT	70	DF	.063		LB	A/A	MP						
1	ACTIVATOR 90			.25		%	V/V	MP						
1	LIQUID N		L	1		QT	A	MP						
2	PROWL	3.3	EC	1		LB	A/A	PRE	3	90	95	87	87	97
2	TOUCHDOWN BTU	5	SL	1		LB	A/A	PRE						
2	ACTIVATOR 90			.5		%	V/V	PRE						
2	PURSUIT	70	DF	.063		LB	A/A	MP						
2	STATUS	2	EC	.156		LB	A/A	MP						
2	ACTIVATOR 90			.25		%	V/V	MP						
2	LIQUID N		L	1		QT	A	MP						
3	PROWL	3.3	EC	1		LB	A/A	PRE	15	97	90	90	93	93
3	TOUCHDOWN BTU	5	SL	1		LB	A/A	PRE						
3	ACTIVATOR 90			.5		%	V/V	PRE						
3	PURSUIT	70	DF	.063		LB	A/A	MP						
3	RAPTOR	1	E	.032		LB	A/A	MP						
3	ACTIVATOR 90			.25		%	V/V	MP						
3	LIQUID N		L	1		QT	A	MP						
4	TOUCHDOWN BTU	5	SL	1		LB	A/A	PRE	0	98	88	77	87	87
4	ACTIVATOR 90			.5		%	V/V	PRE						
4	RAPTOR	1	E	.032		LB	A/A	MP						
4	ACTIVATOR 90			.25		%	V/V	MP						
4	LIQUID N		L	1		QT	A	MP						
5	SQUADRON	2.33	EC	.87		LB	A/A	PRE	0	85	83	73	68	68
5	PROWL	3.3	EC	.5		LB	A/A	PRE						
5	TOUCHDOWN BTU	5	SL	1		LB	A/A	PRE						
5	ACTIVATOR 90			.5		%	V/V	PRE						
6	DETAIL	4.1	EC	1.03		LB	A/A	PRE	0	98	77	73	45	68
6	TOUCHDOWN BTU	5	SL	1		LB	A/A	PRE						
6	ACTIVATOR 90			.5		%	V/V	PRE						
6	PRESTIGE	1	E	.156		LB	A/A	MP						
6	COC		L	1		QT	A	MP						
7	SENCOR	75	DF	.188		LB	A/A	PRE	0	100	100	92	100	100
7	ROUNDUP ULTRA	4	AS	1		LB	A/A	PRE						
7	ROUNDUP ULTRA	4	AS	.75		LB	A/A	MP						



NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA					
Part Rated						
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval		4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg						
8	TURBO	8	EC	1.25	LB	A/A PRE	0	92	90	87	93	100
8	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE						
8	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP						
9	AXIOM	68	DF	.47	LB	A/A PRE	0	93	98	87	100	100
9	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE						
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP						
10	AXIOM	68	DF	.64	LB	A/A PRE	0	93	98	87	100	100
10	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE						
10	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP						
11	AUTHORITY BROADLEAF						0	100	98	82	75	88
11	AUTHORITY	75	DF	.2	LB	A/A PRE						
11	CLASSIC	25	DF	.04	LB	A/A PRE						
11	COMMAND	3	ME	.75	LB	A/A PRE						
11	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE						
12	AUTHORITY BROADLEAF						0	100	98	78	73	73
12	AUTHORITY	75	DF	.2	LB	A/A PRE						
12	CLASSIC	25	DF	.04	LB	A/A PRE						
12	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE						
13	AUTHORITY BROADLEAF						0	100	98	78	90	87
13	AUTHORITY	75	DF	.2	LB	A/A PRE						
13	CLASSIC	25	DF	.04	LB	A/A PRE						
13	WEEDONE LV4	3.8	E	.5	LB	A/A PRE						
13	COC		L	1	QT/A	PRE						
14	TOUCHDOWN BTU	5	SL	.5	LB	A/A PRE	3	93	87	68	100	100
14	WEEDONE LV4	3.8	E	.47	LB	A/A PRE						
14	ACTIVATOR 90			.5	%	V/V PRE						
14	AMS	100	SG	7.8	LB/A	PRE						
14	FUSION	2.66	EC	.21	LB	A/A MP						
14	FLEXSTAR HL	1.88	CS	.35	LB	A/A MP						
14	MSO		L	1	QT/A	MP						
14	LIQUID N		L	2.5	QT/A	MP						

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NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit					
Rating Date					
Footnote Number					
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow							
		Amt	Ds	Rate	Unit	Stg						
15	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE	5	98	90	80	100	100
15	WEEDONE LV4	3.8	E	.47	LB A/A	PRE						
15	ACTIVATOR 90			.5	% V/V	PRE						
15	AMS	100	SG	7.8	LB/A	PRE						
15	FUSION	2.66	EC	.21	LB A/A	MP						
15	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
15	MSO		L	1	QT/A	MP						
15	LIQUID N		L	2.5	QT/A	MP						
16	GRAMOXONE EXTRA	2.5	AS	.781	LB A/A	PRE	7	97	90	78	100	100
16	WEEDONE LV4	3.8	E	.47	LB A/A	PRE						
16	ACTIVATOR 90			.25	% V/V	PRE						
16	FUSION	2.66	EC	.21	LB A/A	MP						
16	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
16	MSO		L	1	QT/A	MP						
16	LIQUID N		L	2.5	QT/A	MP						
17	GRAMOXONE EXTRA	2.5	AS	.781	LB A/A	PRE	3	98	93	87	100	100
17	SENCOR	75	DF	.094	LB A/A	PRE						
17	ACTIVATOR 90			.25	% V/V	PRE						
17	FUSION	2.66	EC	.21	LB A/A	MP						
17	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
17	MSO		L	1	QT/A	MP						
17	LIQUID N		L	2.5	QT/A	MP						
18	GRAMOXONE EXTRA	2.5	AS	.781	LB A/A	PRE	0	95	92	83	77	100
18	CANOPY	75	DF	.094	LB A/A	PRE						
18	ACTIVATOR 90			.25	% V/V	PRE						
18	FUSION	2.66	EC	.21	LB A/A	MP						
18	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
18	MSO		L	1	QT/A	MP						
18	LIQUID N		L	2.5	QT/A	MP						
19	STRONGARM	84	WG	.023	LB A/A	PRE	0	93	100	92	100	100
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE						
19	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP						
20	STRONGARM	84	WG	.008	LB A/A	PRE	0	100	100	83	93	93
20	BROADSTRIKE	80	WG	.062	LB A/A	PRE						
20	DUAL II	7.8	EC	1.95	LB A/A	PRE						
20	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE						
21	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	98	88	97	100
21	FIRSTRATE	84	W	.016	LB A/A	MP						
21	ROUNDUP ULTRA	4	AS	.375	LB A/A	MP						

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NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA					
Part Rated						
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow								
	Ant	Ds	Rate	Unit	Stg							
22 ROUNDUP ULTRA	4	AS	1	LB	A/A	PRE	0	100	93	80	100	100
22 FIRSTRATE	84	W	.016	LB	A/A	MP						
22 BROADSTRIKE	80	WG	.006	LB	A/A	MP						
22 ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP						
LSD (P=.05)							4.9	8.7	15.9	12.2	21.8	11.4
Standard Deviation							2.9	5.3	9.6	7.4	13.2	6.9
CV							161.67	5.49	10.34	8.96	14.87	7.45

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg						
1	PROWL	3.3	EC	1	LB A/A	PRE		0	100	87	90	62	87
1	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE							
1	ACTIVATOR 90			.5	% V/V	PRE							
1	PURSUIT	70	DF	.063	LB A/A	MP							
1	ACTIVATOR 90			.25	% V/V	MP							
1	LIQUID N		L	1	QT/A	MP							
2	PROWL	3.3	EC	1	LB A/A	PRE		3	90	95	88	83	97
2	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE							
2	ACTIVATOR 90			.5	% V/V	PRE							
2	PURSUIT	70	DF	.063	LB A/A	MP							
2	STATUS	2	EC	.156	LB A/A	MP							
2	ACTIVATOR 90			.25	% V/V	MP							
2	LIQUID N		L	1	QT/A	MP							
3	PROWL	3.3	EC	1	LB A/A	PRE		10	97	90	90	93	93
3	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE							
3	ACTIVATOR 90			.5	% V/V	PRE							
3	PURSUIT	70	DF	.063	LB A/A	MP							
3	RAPTOR	1	E	.032	LB A/A	MP							
3	ACTIVATOR 90			.25	% V/V	MP							
3	LIQUID N		L	1	QT/A	MP							
4	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE		0	98	88	80	90	90
4	ACTIVATOR 90			.5	% V/V	PRE							
4	RAPTOR	1	E	.032	LB A/A	MP							
4	ACTIVATOR 90			.25	% V/V	MP							
4	LIQUID N		L	1	QT/A	MP							
5	SQUADRON	2.33	EC	.87	LB A/A	PRE		0	83	83	73	68	68
5	PROWL	3.3	EC	.5	LB A/A	PRE							
5	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE							
5	ACTIVATOR 90			.5	% V/V	PRE							
6	DETAIL	4.1	EC	1.03	LB A/A	PRE		0	98	77	73	45	68
6	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE							
6	ACTIVATOR 90			.5	% V/V	PRE							
6	PRESTIGE	1	E	.156	LB A/A	MP							
6	COC		L	1	QT/A	MP							
7	SENCOR	75	DF	.188	LB A/A	PRE		0	100	100	92	100	100
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE							
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP							

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg						
8	TURBO	8	EC	1.25	LB	A/A	PRE	0	95	90	87	93	100
8	ROUNDUP ULTRA	4	AS	1	LB	A/A	PRE						
8	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP						
9	AXIOM	68	DF	.47	LB	A/A	PRE	0	97	98	87	100	100
9	ROUNDUP ULTRA	4	AS	1	LB	A/A	PRE						
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP						
10	AXIOM	68	DF	.64	LB	A/A	PRE	0	95	98	87	100	100
10	ROUNDUP ULTRA	4	AS	1	LB	A/A	PRE						
10	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP						
11	AUTHORITY BROADLEAF							0	97	98	87	77	90
11	AUTHORITY	75	DF	.2	LB	A/A	PRE						
11	CLASSIC	25	DF	.04	LB	A/A	PRE						
11	COMMAND	3	ME	.75	LB	A/A	PRE						
11	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE						
12	AUTHORITY BROADLEAF							0	93	98	80	83	83
12	AUTHORITY	75	DF	.2	LB	A/A	PRE						
12	CLASSIC	25	DF	.04	LB	A/A	PRE						
12	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE						
13	AUTHORITY BROADLEAF							0	100	98	83	90	87
13	AUTHORITY	75	DF	.2	LB	A/A	PRE						
13	CLASSIC	25	DF	.04	LB	A/A	PRE						
13	WEEDONE LV4	3.8	E	.5	LB	A/A	PRE						
13	COC		L	1	QT/A		PRE						
14	TOUCHDOWN BTU	5	SL	.5	LB	A/A	PRE	2	93	87	73	100	100
14	WEEDONE LV4	3.8	E	.47	LB	A/A	PRE						
14	ACTIVATOR 90			.5	1/2	V/V	PRE						
14	AMS	100	SG	7.8	LB/A		PRE						
14	FUSION	2.66	EC	.21	LB	A/A	MP						
14	FLEXSTAR HL	1.88	CS	.35	LB	A/A	MP						
14	M50		L	1	QT/A		MP						
14	LIQUID N		L	2.5	QT/A		MP						

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow	SETFA	XANST	IPOHE	AMBTR	AMBEL		
		Amt	Ds	Rate	Unit							
15	TOUCHDOWN BTU	5	SL	1	LB A/A	PRE	3	98	90	82	100	100
15	WEEDONE LV4	3.8	E	.47	LB A/A	PRE						
15	ACTIVATOR 90			.5	% V/V	PRE						
15	AMS	100	SG	7.8	LB/A	PRE						
15	FUSION	2.66	EC	.21	LB A/A	MP						
15	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
15	MSO		L	1	QT/A	MP						
15	LIQUID N		L	2.5	QT/A	MP						
16	GRAMOXONE EXTRA	2.5	AS	.781	LB A/A	PRE	3	97	90	82	100	100
16	WEEDONE LV4	3.8	E	.47	LB A/A	PRE						
16	ACTIVATOR 90			.25	% V/V	PRE						
16	FUSION	2.66	EC	.21	LB A/A	MP						
16	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
16	MSO		L	1	QT/A	MP						
16	LIQUID N		L	2.5	QT/A	MP						
17	GRAMOXONE EXTRA	2.5	AS	.781	LB A/A	PRE	2	98	93	87	100	100
17	SENCOR	75	DF	.094	LB A/A	PRE						
17	ACTIVATOR 90			.25	% V/V	PRE						
17	FUSION	2.66	EC	.21	LB A/A	MP						
17	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
17	MSO		L	1	QT/A	MP						
17	LIQUID N		L	2.5	QT/A	MP						
18	GRAMOXONE EXTRA	2.5	AS	.781	LB A/A	PRE	0	95	92	83	83	100
18	CANOPY	75	DF	.094	LB A/A	PRE						
18	ACTIVATOR 90			.25	% V/V	PRE						
18	FUSION	2.66	EC	.21	LB A/A	MP						
18	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP						
18	MSO		L	1	QT/A	MP						
18	LIQUID N		L	2.5	QT/A	MP						
19	STRONGARM	84	WG	.023	LB A/A	PRE	0	93	100	92	100	100
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE						
19	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP						
20	STRONGARM	84	WG	.008	LB A/A	PRE	0	100	100	87	93	93
20	BROADSTRIKE	80	WG	.062	LB A/A	PRE						
20	DUAL II	7.8	EC	1.95	LB A/A	PRE						
20	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE						
21	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	98	88	97	100
21	FIRSTRATE	84	W	.016	LB A/A	MP						
21	ROUNDUP ULTRA	4	AS	.375	LB A/A	MP						

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	XANST	IPOHE	AMBTR	AMBEL
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow	SETFA	XANST	IPOHE	AMBTR	AMBEL		
	Amt	Ds	Rate	Unit	Stg						
22 ROUNDUP ULTRA	4	AS	1 LB	A/A	PRE	0	100	93	85	100	100
22 FIRSTRATE	84	W	.016 LB	A/A	MP						
22 BROADSTRIKE	80	WG	.006 LB	A/A	MP						
22 ROUNDUP ULTRA	4	AS	.75 LB	A/A	MP						
LSD (P=.05)						2.9	6.9	15.9	10.8	22.2	9.6
Standard Deviation						1.7	4.2	9.6	6.5	13.5	5.8
CV						164.62	4.36	10.34	7.76	15.13	6.2

NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Trial Status: COMPLETE                      Initiation Date: 5-12-97                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1. SEFTA GIANT FOXTAIL    2. AMBTR GIANT RAGWEED    3. AMBEL COMMON RAGWEED  
4. IPOSS MORNINGGLORY

Crop 1: GLXMA SOYBEAN                      Variety: ASGROW 4501RR/STS                      Planting Date: 5-12-97  
Planting Method: DRILLED                      Rate: 3                      S/ROW-FT                      Depth: 1                      IN  
Row Spacing: 8                      IN                      Seed Bed: MEDIUM  
Soil Temperature: 55                      F                      Soil Moisture: NORMAL                      Emergence Date: 5-22-97

Plot Width, Unit: 6.33    FT                      Plot Length, Unit: 30                      FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 4.8                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 27                      Soil Name: LANTON                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINLETOP                      Distance: 2                      Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-20-97				
Time of Day:	2:00 PM	6:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	54    F	74    F				
% Relative Humidity:	80	75				
Wind Velocity, Unit:	4    MPH	5    MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	55    F	77    F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	20				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		MP				
		2 TRIFOL				
		8    IN				



NO-TILL SOYBEAN FULL SEASON

Trial ID: S7020                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SEFTA		MP				
		4 LVS				
		3-4 IN				
AMBTR		6-7 LVS				
		4-6 IN				
AMBEL		>10 LVS				
		3-5 IN				
IPOSS		4 LVS				
		2-3 IN				

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	6.33 FT	6.33 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SETFA	AMBTR	AMBEL	IPOHE	GLYMA	SETFA	AMBTR	AMBEL	IPOHE
										GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	
										INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL				
										PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT				
										3 WEEKS 3 WEEKS 3 WEEKS 3 WEEKS 3 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS				
										P P P P P	P P P P P	P P P P P	P P P P P	P P P P P				
										0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0				

Trt No.	Treatment Name	Form	Fm	Rate	Grow													
		Amt	Ds	Rate	Unit	Stg												
1	SELECT	2	EC	.047	LB A/A	PRE	3	80	97	97	80	3	80	97	97	80		
1	WEEDONE LV4	3.8	E	.5	LB A/A	PRE												
1	V 53482	50	WP	.078	LB A/A	PRE												
1	LEXONE	75	DF	.311	LB A/A	PRE												
1	COC		L	.5	QT/A	PRE												
1	STELLAR	3.10	EC	.17	LB A/A	+5W												
1	SELECT	2	EC	.094	LB A/A	+5W												
1	COC		L	1	QT/A	+5W												
2	SELECT	2	EC	.047	LB A/A	PRE	7	87	100	100	90	0	83	100	100	83		
2	WEEDONE LV4	3.8	E	.5	LB A/A	PRE												
2	V 53482	50	WP	.094	LB A/A	PRE												
2	LEXONE	75	DF	.311	LB A/A	PRE												
2	COC		L	.5	QT/A	PRE												
2	STELLAR	3.10	EC	.17	LB A/A	+5W												
2	SELECT	2	EC	.094	LB A/A	+5W												
2	COC		L	1	QT/A	+5W												
3	SELECT	2	EC	.047	LB A/A	PRE	3	90	100	100	87	3	90	100	97	87		
3	WEEDONE LV4	3.8	E	.5	LB A/A	PRE												
3	V 53482	50	WP	.078	LB A/A	PRE												
3	COC		L	.5	QT/A	PRE												
3	STELLAR	3.10	EC	.17	LB A/A	+5W												
3	SELECT	2	EC	.094	LB A/A	+5W												
3	COC		L	1	QT/A	+5W												
4	SELECT	2	EC	.047	LB A/A	PRE	17	87	97	100	77	7	77	97	100	77		
4	WEEDONE LV4	3.8	E	.5	LB A/A	PRE												
4	V 53482	50	WP	.094	LB A/A	PRE												
4	COC		L	.5	QT/A	PRE												
4	STELLAR	3.10	EC	.17	LB A/A	+5W												
4	SELECT	2	EC	.094	LB A/A	+5W												
4	COC		L	1	QT/A	+5W												
5	CANOPY	75	DF	.33	LB A/A	PRE	13	90	90	100	90	3	90	77	100	90		
5	COC		L	1	QT/A	PRE												
5	STELLAR	3.10	EC	.17	LB A/A	+5W												
5	SELECT	2	EC	.094	LB A/A	+5W												
5	COC		L	1	QT/A	+5W												
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	7	87	93	100	90	0	83	97	100	87		
6	STELLAR	3.10	EC	.17	LB A/A	+5W												
6	SELECT	2	EC	.094	LB A/A	+5W												
6	COC		L	1	QT/A	+5W												

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	AMBEL	IPOHE	GLYMA	SETFA	AMBTR	AMBEL	IPOHE
Crop Code	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Part Rated	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS
Rating Data Type	P	P	P	P	P	P	P	P	P	P
Rating Unit	0	0	0	0	0	0	0	0	0	0
Rating Date										
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow										
		Amt	Ds	Rate	Unit	Stg										
7	V 53482	50	WP	.078	LB	A/A PRE	0	97	100	100	90	0	97	100	100	87
7	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
7	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP										
8	V 53482	50	WP	.094	LB	A/A PRE	0	83	100	100	87	0	90	100	100	87
8	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE										
8	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP										
9	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE	0	97	100	100	90	0	97	100	100	90
9	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP										
10	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	100	97	93	90	0	100	100	100	90
10	ROUNDUP ULTRA	4	AS	1	LB	A/A 6"W										
11	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	97	100	97	90	0	100	100	97	87
11	ROUNDUP ULTRA	4	AS	1	LB	A/A 6"W										
11	ROUNDUP ULTRA	4	AS	.5	LB	A/A +3"W										
12	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	93	100	100	93	0	100	100	100	90
12	CANOPY	75	DF	.375	LB	A/A PRE										
12	ROUNDUP ULTRA	4	AS	.5	LB	A/A 6"W										
13	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	3	80	93	77	83	0	77	87	63	83
13	SQUADRON	2.33	EC	.87	LB	A/A PRE										
14	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	80	77	90	80	0	80	73	87	80
14	SQUADRON	2.33	EC	.87	LB	A/A PRE										
14	PROWL	3.3	EC	.25	LB	A/A PRE										
15	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	3	97	100	93	90	0	100	100	100	90
15	SQUADRON	2.33	EC	.44	LB	A/A PRE										
15	ROUNDUP ULTRA	4	AS	.5	LB	A/A 6"W										
16	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	3	90	100	97	90	0	90	97	93	90
16	PROWL	3.3	EC	1	LB	A/A PRE										
16	PURSUIT	70	DF	.063	LB	A/A MP										
16	SUNIT II		L	.5	QT/A	MP										
16	LIQUID N		L	1	QT/A	MP										
17	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	97	100	100	93	0	97	100	100	90
17	REFLEX	2	EC	.375	LB	A/A MP										
17	FUSION	2.66	EC	.21	LB	A/A MP										
17	COC		L	1	QT/A	MP										
17	LIQUID N		L	2.5	QT/A	MP										

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	AMBEL	IPOHE	GLYMA	SETFA	AMBTR	AMBEL	IPOHE
Crop Code	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS
Rating Unit	P	P	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0	0	0
Footnote Number										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg										
18 ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	3	97	100	100	90	0	97	100	100	90
18 CONCLUDE EXTRA	GB		.875	LB A/A	MP										
18 COC	L		1	QT/A	MP										
19 ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	10	67	97	100	87	7	63	97	100	87
19 PURSUIT	70	DF	.063	LB A/A	MP										
19 STATUS	2	EC	.19	LB A/A	MP										
19 SUNIT II	L		.5	QT/A	MP										
19 LIQUID N	L		1	QT/A	MP										
20 ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	93	100	100	90	0	93	97	100	90
20 ASSURE II	0.8	EC	.055	LB A/A	MP										
20 CLASSIC	25	DF	.005	LB A/A	MP										
20 PINNACLE	25	DF	.002	LB A/A	MP										
20 COC	L		1	QT/A	MP										
21 ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	23	93	100	87	0	23	80	100	87
21 CLASSIC	25	DF	.012	LB A/A	MP										
21 ACTIVATOR 90			.25	% V/V	MP										
22 ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	83	97	100	90	0	80	90	90	90
22 AUTHORITY BROADLEAF															
22 AUTHORITY	75	DF	.2	LB A/A	PRE										
22 CLASSIC	25	DF	.04	LB A/A	PRE										
LSD (P=.05)			7.3				10.7	10.6	7.4	6.9	4.6	11.8	12.5	10.2	7.0
Standard Deviation			4.4				6.5	6.4	4.5	4.2	2.8	7.1	7.6	6.2	4.2
CV			132.41				7.52	6.64	4.62	4.75	260.75	8.3	7.96	6.43	4.86

NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	AMBEL	IPOHE
Crop Code		GLYMA			
Part Rated					
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Date					
Footnote Number					
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P	P
# Subsamples, Dec.		0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
1	SELECT	2	EC	.047	LB A/A	PRE	0	67	87	97	77
1	WEEDONE LV4	3.8	E	.5	LB A/A	PRE					
1	V 53482	50	WP	.078	LB A/A	PRE					
1	LEXONE	75	DF	.311	LB A/A	PRE					
1	COC		L	.5	QT/A	PRE					
1	STELLAR	3.10	EC	.17	LB A/A	+5W					
1	SELECT	2	EC	.094	LB A/A	+5W					
1	COC		L	1	QT/A	+5W					
2	SELECT	2	EC	.047	LB A/A	PRE	0	80	100	100	80
2	WEEDONE LV4	3.8	E	.5	LB A/A	PRE					
2	V 53482	50	WP	.094	LB A/A	PRE					
2	LEXONE	75	DF	.311	LB A/A	PRE					
2	COC		L	.5	QT/A	PRE					
2	STELLAR	3.10	EC	.17	LB A/A	+5W					
2	SELECT	2	EC	.094	LB A/A	+5W					
2	COC		L	1	QT/A	+5W					
3	SELECT	2	EC	.047	LB A/A	PRE	0	80	97	97	83
3	WEEDONE LV4	3.8	E	.5	LB A/A	PRE					
3	V 53482	50	WP	.078	LB A/A	PRE					
3	COC		L	.5	QT/A	PRE					
3	STELLAR	3.10	EC	.17	LB A/A	+5W					
3	SELECT	2	EC	.094	LB A/A	+5W					
3	COC		L	1	QT/A	+5W					
4	SELECT	2	EC	.047	LB A/A	PRE	0	57	80	100	73
4	WEEDONE LV4	3.8	E	.5	LB A/A	PRE					
4	V 53482	50	WP	.094	LB A/A	PRE					
4	COC		L	.5	QT/A	PRE					
4	STELLAR	3.10	EC	.17	LB A/A	+5W					
4	SELECT	2	EC	.094	LB A/A	+5W					
4	COC		L	1	QT/A	+5W					
5	CANOPY	75	DF	.33	LB A/A	PRE	0	87	70	100	87
5	COC		L	1	QT/A	PRE					
5	STELLAR	3.10	EC	.17	LB A/A	+5W					
5	SELECT	2	EC	.094	LB A/A	+5W					
5	COC		L	1	QT/A	+5W					
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	83	73	100	83
6	STELLAR	3.10	EC	.17	LB A/A	+5W					
6	SELECT	2	EC	.094	LB A/A	+5W					
6	COC		L	1	QT/A	+5W					

NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	AMBEL	IPOHE
Crop Code	GLYMA				
Part Rated					
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL				
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT				
Rating Date					
Footnote Number					
Trt-Eval Interval	8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS				
PRM Data Type	P P P P P				
# Subsamples, Dec.	0 0 0 0 0				

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg					
7	V 53482	50	WP	.078	LB A/A	PRE	0	90	100	100	83
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP					
8	V 53482	50	WP	.094	LB A/A	PRE	0	83	83	97	83
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
8	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP					
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	90	93	100	87
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP					
10	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	100	100	87
10	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W					
11	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	97	97	83
11	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W					
11	ROUNDUP ULTRA	4	AS	.5	LB A/A	+3"W					
12	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	83	100	100	87
12	CANOPY	75	DF	.375	LB A/A	PRE					
12	ROUNDUP ULTRA	4	AS	.5	LB A/A	6"W					
13	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	80	80	57	80
13	SQUADRON	2.33	EC	.87	LB A/A	PRE					
14	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	83	57	67	80
14	SQUADRON	2.33	EC	.87	LB A/A	PRE					
14	PROWL	3.3	EC	.25	LB A/A	PRE					
15	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	100	100	87
15	SQUADRON	2.33	EC	.44	LB A/A	PRE					
15	ROUNDUP ULTRA	4	AS	.5	LB A/A	6"W					
16	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	97	93	87
16	PROWL	3.3	EC	1	LB A/A	PRE					
16	PURSUIT	70	DF	.063	LB A/A	MP					
16	SUNIT II	L		.5	QT/A	MP					
16	LIQUID N	L		1	QT/A	MP					
17	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	100	100	87
17	REFLEX	2	EC	.375	LB A/A	MP					
17	FUSION	2.66	EC	.21	LB A/A	MP					
17	COC	L		1	QT/A	MP					
17	LIQUID N	L		2.5	QT/A	MP					

NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	AMBEL	IPOHE
Crop Code	GLYMA			
Part Rated				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	SETFA	AMBTR	AMBEL	IPOHE
18	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	100	87
18	CONCLUDE EXTRA		GB	.875	LB A/A	MP				
18	COC		L	1	QT/A	MP				
19	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	67	80	83
19	PURSUIT	70	DF	.063	LB A/A	MP				
19	STATUS	2	EC	.19	LB A/A	MP				
19	SUNIT II		L	.5	QT/A	MP				
19	LIQUID N		L	1	QT/A	MP				
20	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	90	93	87
20	ASSURE II	0.8	EC	.055	LB A/A	MP				
20	CLASSIC	25	DF	.005	LB A/A	MP				
20	PINNACLE	25	DF	.002	LB A/A	MP				
20	COC		L	1	QT/A	MP				
21	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	23	80	83
21	CLASSIC	25	DF	.012	LB A/A	MP				
21	ACTIVATOR 90			.25	g V/V	MP				
22	ROUNDUP ULTRA	4	AS	1.5	LB A/A	PRE	0	80	80	87
22	AUTHORITY BROADLEAF									
22	AUTHORITY	75	DF	.2	LB A/A	PRE				
22	CLASSIC	25	DF	.04	LB A/A	PRE				

LSD (P=.05)	0.0	13.5	15.8	8.7	10.2
Standard Deviation	0.0	8.2	9.6	5.2	6.2
CV	.	10.18	10.8	5.51	7.39

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## NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED 3.AMBEL COMMON RAGWEED  
4.IPOHE IV.MORNINGGLORY

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 55 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY

Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-20-97	6-20-97	7-8-97		
Time of Day:	4:00 PM	2:00 PM	2:00 PM	11:00 AM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	+5 WEEKS	MP	6" WEEDS		
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI		
Air Temp., Unit:	54 F	77 F	77 F	82 F		
% Relative Humidity:	70	80	80	77		
Wind Velocity, Unit:	3 MPH	5 MPH	5 MPH	3.5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	55 F	77 F	77 F	76 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	30	40	40	20		

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		+5 WEEKS	MP	6" WEEDS		
		3 TRIFOL	3 TRIFOL	5 TRIFOL		
		10 IN	10 IN	15 IN		



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## NO-TILL SOYBEAN FULL SEASON II

Trial ID: S7021 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA	+5 WEEKS 3 LVS 4 IN	MP 3 LVS 4 IN	MP 3 LVS 4 IN	6" WEEDS 5 LVS 6 IN		
AMBTR	4 LVS 4 IN	4 LVS 4 IN	4 LVS 4 IN	6 LVS 8 IN		
AMBEL	4 LVS 3 IN	4 LVS 3 IN	4 LVS 3 IN	6 LVS 6 IN		
IPOHE	2 LVS 4 IN	2 LVS 4 IN	2 LVS 4 IN	4 LVS 6 IN		

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT	6.33 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	XANST	GLYMA	SETFA	AMBTR	XANST
Crop Code	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
1	PROWL	3.3	EC	1	LB	A/A PRE	0	100	90	100	0	95	87	98
1	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE								
1	PURSUIT	70	DF	.063	LB	A/A MP								
1	ACTIVATOR 90			.25	%	V/V MP								
1	LIQUID N		L	1	QT	A MP								
2	PROWL	3.3	EC	1	LB	A/A PRE	0	93	90	100	0	95	90	93
2	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE								
2	RAPTOR	1	E	.032	LB	A/A MP								
2	ACTIVATOR 90			.25	%	V/V MP								
2	LIQUID N		L	1	QT	A MP								
3	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	93	97	100	0	92	97	95
3	PURSUIT	70	DF	.063	LB	A/A MP								
3	ACTIVATOR 90			.25	%	V/V MP								
3	LIQUID N		L	1	QT	A MP								
4	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	97	100	0	93	97	97
4	SQUADRON	2.33	EC	.87	LB	A/A PRE								
4	ROUNDUP ULTRA	4	AS	.5	LB	A/A IFN								
5	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	97	100	0	92	93	100
5	SQUADRON	2.33	EC	.87	LB	A/A PRE								
5	ROUNDUP ULTRA	4	AS	.75	LB	A/A IFN								
6	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	97	97	0	93	100	97
6	SCEPTER	70	WG	.125	LB	A/A PRE								
6	ROUNDUP ULTRA	4	AS	.5	LB	A/A IFN								
7	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	83	100	90	0	92	100	93
7	DETAIL	4.1	EC	1	LB	A/A PRE								
7	ROUNDUP ULTRA	4	AS	.5	LB	A/A IFN								
8	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	93	100	97	0	97	100	98
8	ROUNDUP ULTRA	4	AS	1	LB	A/A MP								
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	100	97	100	0	97	97	100
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A MP								
9	ROUNDUP ULTRA	4	AS	.5	LB	A/A LP								
10	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	100	97	0	95	100	98
10	SYNCHRONY STS	25	DF	.013	LB	A/A MP								
10	ASSURE II	0.8	EC	.05	LB	A/A MP								
10	COC		L	1	QT	A MP								

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Weed Science Field Research

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	XANST		SETFA	AMBTR	XANST
Crop Code		GLYMA			GLYMA			
Part Rated								
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval		2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type		P	P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	AMBTR	XANST	GLYMA	SETFA	AMBTR	XANST
11	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	90	100	0	93	90	97
11	COVER	75	DF	.188	LB	A/A PRE								
11	SYNCHRONY STS	25	DF	.013	LB	A/A MP								
11	ASSURE II	0.8	EC	.05	LB	A/A MP								
11	COC	L		1	QT/A	MP								
12	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	90	100	0	95	93	98
12	CANOPY XL													
12	AUTHORITY	75	DF	.2	LB	A/A PRE								
12	CLASSIC	25	DF	.04	LB	A/A PRE								
12	ASSURE II	0.8	EC	.05	LB	A/A MP								
12	COC	L		1	QT/A	MP								
13	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	17	83	97	83	0	90	97	92
13	SELECT	2	EC	.094	LB	A/A MP								
13	PURSUIT	70	DF	.063	LB	A/A MP								
13	COBRA	2	EC	.125	LB	A/A MP								
13	COC	L		1	QT/A	MP								
13	LIQUID N	L		1	QT/A	MP								
14	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	87	97	93	0	92	100	97
14	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE								
14	STORM	4	EC	.75	LB	A/A MP								
14	POAST HC	3.5	EC	.28	LB	A/A MP								
14	COC	L		1.25	QT/A	MP								
15	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	3	83	90	87	0	93	92	100
15	CONCLUDE EXTRA	GB		.875	LB	A/A MP								
15	COC	L		1	QT/A	MP								
16	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	7	90	97	97	0	95	100	97
16	FUSION	2.66	EC	.21	LB	A/A MP								
16	REFLEX	2	EC	.375	LB	A/A MP								
16	MSO	L		1	QT/A	MP								
16	LIQUID N	L		2.5	QT/A	MP								
17	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	7	83	97	93	0	92	100	95
17	FUSION	2.66	EC	.21	LB	A/A MP								
17	FLEXSTAR HL	1.88	CS	.3525	LB	A/A MP								
17	MSO	L		1	QT/A	MP								
17	LIQUID N	L		2.5	QT/A	MP								
18	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	67	100	60	0	83	100	70
18	ROUNDUP ULTRA	4	AS	1	LB	A/A +2W								

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	XANST	GLYMA	SETFA	AMBTR	XANST
Crop Code	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment	Form	Fm	Rate	Grow									
No. Name	Amt	Ds	Rate	Unit	Stg								
19 ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	77	100	63	0	88	100	63
19 ROUNDUP ULTRA	4	AS	1	LB	A/A +3W								
20 ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	100	93	0	97	100	98
20 ROUNDUP ULTRA	4	AS	1	LB	A/A +4W								
21 ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	90	97	93	0	97	98	95
21 ROUNDUP ULTRA	4	AS	1	LB	A/A +5W								
LSD (P=.05)			4.2				10.5	10.5	12.7	0.0	6.6	8.6	12.5
Standard Deviation			2.6				6.4	6.4	7.7	0.0	4.0	5.2	7.6
CV			161.69				7.2	6.64	8.33	.	4.3	5.38	8.06

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	XANST
Crop Code		GLYMA		
Part Rated				
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment	Form	Fm	Rate	Unit	Grow Stg					
1	PROWL	3.3	EC	1	LB	A/A	PRE	0	90	70	97
1	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE				
1	PURSUIT	70	DF	.063	LB	A/A	MP				
1	ACTIVATOR 90			.25	1/2	V/V	MP				
1	LIQUID N		L	1	QT	A	MP				
2	PROWL	3.3	EC	1	LB	A/A	PRE	0	90	77	90
2	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE				
2	RAPTOR	1	E	.032	LB	A/A	MP				
2	ACTIVATOR 90			.25	1/2	V/V	MP				
2	LIQUID N		L	1	QT	A	MP				
3	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	87	77	90
3	PURSUIT	70	DF	.063	LB	A/A	MP				
3	ACTIVATOR 90			.25	1/2	V/V	MP				
3	LIQUID N		L	1	QT	A	MP				
4	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	87	83	97
4	SQUADRON	2.33	EC	.87	LB	A/A	PRE				
4	ROUNDUP ULTRA	4	AS	.5	LB	A/A	IFN				
5	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	83	83	100
5	SQUADRON	2.33	EC	.87	LB	A/A	PRE				
5	ROUNDUP ULTRA	4	AS	.75	LB	A/A	IFN				
6	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	90	97	97
6	SCEPTER	70	WG	.125	LB	A/A	PRE				
6	ROUNDUP ULTRA	4	AS	.5	LB	A/A	IFN				
7	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	80	100	93
7	DETAIL	4.1	EC	1	LB	A/A	PRE				
7	ROUNDUP ULTRA	4	AS	.5	LB	A/A	IFN				
8	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	97	100	97
8	ROUNDUP ULTRA	4	AS	1	LB	A/A	MP				
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	93	97	100
9	ROUNDUP ULTRA	4	AS	.75	LB	A/A	MP				
9	ROUNDUP ULTRA	4	AS	.5	LB	A/A	LP				
10	ROUNDUP ULTRA	4	AS	.75	LB	A/A	PRE	0	90	90	97
10	SYNCHRONY STS	25	DF	.013	LB	A/A	MP				
10	ASSURE II	0.8	EC	.05	LB	A/A	MP				
10	COC		L	1	QT	A	MP				

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NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	XANST
Crop Code		GLYMA		
Part Rated				
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GLYMA	SETFA	AMBTR	XANST
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	87	73	97
11	COVER	75	DF	.188	LB A/A	PRE				
11	SYNCHRONY STS	25	DF	.013	LB A/A	MP				
11	ASSURE II	0.8	EC	.05	LB A/A	MP				
11	COC		L	1	QT/A	MP				
12	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	90	77	97
12	CANOPY XL									
12	AUTHORITY	75	DF	.2	LB A/A	PRE				
12	CLASSIC	25	DF	.04	LB A/A	PRE				
12	ASSURE II	0.8	EC	.05	LB A/A	MP				
12	COC		L	1	QT/A	MP				
13	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	80	93	80
13	SELECT	2	EC	.094	LB A/A	MP				
13	PURSUIT	70	DF	.063	LB A/A	MP				
13	COBRA	2	EC	.125	LB A/A	MP				
13	COC		L	1	QT/A	MP				
13	LIQUID N		L	1	QT/A	MP				
14	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	73	80	97
14	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE				
14	STORM	4	EC	.75	LB A/A	MP				
14	POAST HC	3.5	EC	.28	LB A/A	MP				
14	COC		L	1.25	QT/A	MP				
15	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	83	67	93
15	CONCLUDE EXTRA		GB	.875	LB A/A	MP				
15	COC		L	1	QT/A	MP				
16	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	90	97	97
16	FUSION	2.66	EC	.21	LB A/A	MP				
16	REFLEX	2	EC	.375	LB A/A	MP				
16	MSO		L	1	QT/A	MP				
16	LIQUID N		L	2.5	QT/A	MP				
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	83	80	93
17	FUSION	2.66	EC	.21	LB A/A	MP				
17	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP				
17	MSO		L	1	QT/A	MP				
17	LIQUID N		L	2.5	QT/A	MP				
18	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	63	97	57
18	ROUNDUP ULTRA	4	AS	1	LB A/A	+2W				

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	XANST
Crop Code	GLYMA		
Part Rated			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt Treatment No. Name	Form Fm		Rate	Grow Unit Stg				
	Amt	Ds			PERCENT	PERCENT	PERCENT	PERCENT
19 ROUNDUP ULTRA	4	AS	.75 LB A/A PRE	0	83	97	50	
19 ROUNDUP ULTRA	4	AS	1 LB A/A +3W					
20 ROUNDUP ULTRA	4	AS	.75 LB A/A PRE	0	90	100	97	
20 ROUNDUP ULTRA	4	AS	1 LB A/A +4W					
21 ROUNDUP ULTRA	4	AS	.75 LB A/A PRE	0	93	100	93	
21 ROUNDUP ULTRA	4	AS	1 LB A/A +5W					
LSD (P=.05)				0.0	11.4	14.9	13.2	
Standard Deviation				0.0	6.9	9.0	8.0	
CV					8.07	10.36	8.84	

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1. SEFTA GIANT FOXTAIL 2. AMBTR GIANT RAGWEED 3. XANST C. COCKLEBUR

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 55 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	5-27-97	6-4-97	6-13-97	6-20-97	7-8-97
Time of Day:	2:00 PM	3:00 PM	11:00 AM	4:00 PM	3:00 PM	1:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2 WK	3 WK	4WK	5WK, MP	LP, IFN
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI	BROFOI	BROFOL
Air Temp., Unit:	54 F	72 F	60 F	72 F	85 F	74 F
% Relative Humidity:	70	85	90	90	81	80
Wind Velocity, Unit:	4 MPH	5 MPH	5 MPH	3 MPH	5 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	55 F	63 F	63 F	71 F	75 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	30	40	20	10	30	40

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		2 WK	3 WK	4WK	MP, 5WK	LP, IFN
		COT	UNIFOL	1 TRIFOL	2 TRIFOL	4 TRIFOL
		1 IN	3 IN	4 IN	6 IN	10 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SEFTA		2 WK	3 WK	4WK	MP, 5 WK	LP, IFN
		1 LF	2 LF	3 LF	4 LVS	6 LVS
		1 IN	1 IN	2 IN	3-4 IN	6 IN
AMBTR		6 LVS	2 LF	4 LF	6-7 LVS	10 LVS
		6 IN	2-3 IN	6 IN	4-6 IN	10 IN
XANST		1 LF	2 LF	4 LF	6 LVS	8 LVS
		2 IN	2 IN	4 IN	2-3 IN	8 IN



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## NO-TILL SOYBEAN FULL SEASON III

Trial ID: S7022                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	30	30	30	30	30	30
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT	6.33 FT	6.33 FT	6.33 FT
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2





MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S7030 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	IPOHE	GLYMA	SETFA	AMBTR	IPOHE
Crop Code	INJURY CONTROL CONTROL CONTROL		INJURY CONTROL CONTROL CONTROL		INJURY CONTROL CONTROL CONTROL		INJURY CONTROL CONTROL CONTROL	
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Footnote Number								
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								

Trt Treatment No. Name	Form	Fm	Rate	Grow								
	Amt	Ds	Unit	Stg								
15 TOUCHDOWN BTU	5	SL	1 LB A/A	PRE	18	97	98	98	15	85	98	97
15 WEEDONE LV4	3.8	E	.47 LB A/A	PRE								
15 ACTIVATOR 90			.5 % V/V	PRE								
15 AMS	100	SG	7.8 LB/A	PRE								
15 FUSION	2.66	EC	.21 LB A/A	MP								
15 FLEXSTAR HL	1.88	CS	.35 LB A/A	MP								
15 MSO		L	1 QT/A	MP								
15 LIQUID N		L	2.5 QT/A	MP								
16 GRAMOXONE EXTRA	2.5	AS	.781 LB A/A	PRE	22	98	100	95	20	82	100	93
16 WEEDONE LV4	3.8	E	.47 LB A/A	PRE								
16 ACTIVATOR 90			.25 % V/V	PRE								
16 FUSION	2.66	EC	.21 LB A/A	MP								
16 FLEXSTAR HL	1.88	CS	.35 LB A/A	MP								
16 MSO		L	1 QT/A	MP								
16 LIQUID N		L	2.5 QT/A	MP								
17 GRAMOXONE EXTRA	2.5	AS	.781 LB A/A	PRE	18	95	97	98	15	93	90	97
17 SENCOR	75	DF	.094 LB A/A	PRE								
17 ACTIVATOR 90			.25 % V/V	PRE								
17 FUSION	2.66	EC	.21 LB A/A	MP								
17 FLEXSTAR HL	1.88	CS	.35 LB A/A	MP								
17 MSO		L	1 QT/A	MP								
17 LIQUID N		L	2.5 QT/A	MP								
18 GRAMOXONE EXTRA	2.5	AS	.781 LB A/A	PRE	22	98	100	98	15	93	95	97
18 CANOPY	75	DF	.094 LB A/A	PRE								
18 ACTIVATOR 90			.25 % V/V	PRE								
18 FUSION	2.66	EC	.21 LB A/A	MP								
18 FLEXSTAR HL	1.88	CS	.35 LB A/A	MP								
18 MSO		L	1 QT/A	MP								
18 LIQUID N		L	2.5 QT/A	MP								
19 STRONGARM	84	WG	.023 LB A/A	PRE	0	95	100	97	0	95	100	95
19 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE								
19 ROUNDUP ULTRA	4	AS	.5 LB A/A	MP								
20 STRONGARM	84	WG	.008 LB A/A	PRE	3	98	100	97	0	98	97	95
20 BROADSTRIKE	80	WG	.062 LB A/A	PRE								
20 DUAL II	7.8	EC	1.95 LB A/A	PRE								
20 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE								
21 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE	0	93	100	100	0	93	100	100
21 FIRSTRATE	84	W	.016 LB A/A	MP								
21 ROUNDUP ULTRA	4	AS	.375 LB A/A	MP								

9-22-97 (S7030)

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MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S7030                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	IPOHE	GLYMA	SETFA	AMBTR	IPOHE
Crop Code								
Part Rated								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow									
No. Name	Amt	Ds	Rate	Unit	Stg								
22 ROUNDUP ULTRA	4	AS	1	LB	A/A PRE	0	97	100	98	0	97	100	97
22 FIRSTRATE	84	W	.016	LB	A/A MP								
22 BROADSTRIKE	80	WG	.006	LB	A/A MP								
22 ROUNDUP ULTRA	4	AS	.75	LB	A/A MP								
LSD (P=.05)						9.3	7.6	6.6	5.7	7.5	11.3	11.8	5.7
Standard Deviation						5.6	4.6	4.0	3.4	4.5	6.9	7.2	3.4
CV						76.3	4.83	4.19	3.51	87.95	7.36	7.85	3.54

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MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S7030 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED 3.IPOHE I.MORNINGGLORY  
Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 55 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: MINIMUM-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-4-97				
Time of Day:	11:00 AM	4:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	54 F	60 F				
% Relative Humidity:	75	80				
Wind Velocity, Unit:	3 MPH	2 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	55 F	63 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	40	20				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		MP				
		UNIFOL				
		3 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP				
		3 LVS				
		3-4 IN				
AMBTR		6 LVS				
		3-5 IN				
IPOHE		2 LVS				
		3 IN				

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Weed Science Field Research

## MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S7030                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	6.33 FT	6.33 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	POLPY	GLYMA	SETFA	AMBTR	POLPY	
Crop Code	GLYMA				GLYMA			
Part Rated	INJURY CONTROL CONTROL CONTROL				INJURY CONTROL CONTROL CONTROL			
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Footnote Number	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
PRM Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
# Subsamples, Dec.	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	
	P	P	P	P	P	P	P	
	0	0	0	0	0	0	0	

Trt No.	Treatment Name	Form	Fm	Rate	Grow									
		Amt	Ds	Rate	Unit	Stg								
1	SELECT	2	EC	.047	LB A/A	PRE	0	90	87	73	0	83	87	63
1	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
1	V-53482	50	WP	.078	LB A/A	PRE								
1	LEXONE	75	DF	.311	LB A/A	PRE								
1	COC	L		.5	QT/A	PRE								
1	STELLAR	3.10	EC	.17	LB A/A	+5W								
1	SELECT	2	EC	.094	LB A/A	+5W								
1	COC	L		1	QT/A	+5W								
2	SELECT	2	EC	.047	LB A/A	PRE	0	87	90	73	0	87	93	60
2	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
2	V 53482	50	WP	.094	LB A/A	PRE								
2	LEXONE	75	DF	.311	LB A/A	PRE								
2	COC	L		.5	QT/A	PRE								
2	STELLAR	3.10	EC	.17	LB A/A	+5W								
2	SELECT	2	EC	.094	LB A/A	+5W								
2	COC	L		1	QT/A	+5W								
3	SELECT	2	EC	.047	LB A/A	PRE	0	80	93	80	0	83	93	67
3	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
3	V 53482	50	WP	.078	LB A/A	PRE								
3	COC	L		.5	QT/A	PRE								
3	STELLAR	3.10	EC	.17	LB A/A	+5W								
3	SELECT	2	EC	.094	LB A/A	+5W								
3	COC	L		1	QT/A	+5W								
4	SELECT	2	EC	.047	LB A/A	PRE	0	83	90	77	0	87	93	73
4	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
4	V 53482	50	WP	.094	LB A/A	PRE								
4	COC	L		.5	QT/A	PRE								
4	STELLAR	3.10	EC	.17	LB A/A	+5W								
4	SELECT	2	EC	.094	LB A/A	+5W								
4	COC	L		1	QT/A	+5W								
5	CANOPY	75	DF	.33	LB A/A	PRE	3	80	83	87	0	83	83	77
5	COC	L		1	QT/A	PRE								
5	STELLAR	3.10	EC	.17	LB A/A	+5W								
5	SELECT	2	EC	.094	LB A/A	+5W								
5	COC	L		1	QT/A	+5W								
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	7	80	87	67	7	83	87	50
6	STELLAR	3.10	EC	.17	LB A/A	+5W								
6	SELECT	2	EC	.094	LB A/A	+5W								
6	COC	L		1	QT/A	+5W								



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Footnote Number	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	GLYMA	SETFA	AMBTR	POLPY	GLYMA	SETFA	AMBTR	POLPY
										INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL
										PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT
										3 WEEKS 3 WEEKS 3 WEEKS 3 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS	5 WEEKS 5 WEEKS 5 WEEKS 5 WEEKS
										P P P P	P P P P	P P P P	P P P P	P P P P	P P P P	P P P P	P P P P
										0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow												
		Amt	Ds	Rate	Unit	Stg												
7	V 53482	50	WP	.078	LB	A/A PRE	0	97	80	87	0	83	80	97				
7	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE												
7	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP												
8	V 53482	50	WP	.094	LB	A/A PRE	0	90	93	83	0	87	100	100				
8	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE												
8	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP												
9	ROUNDUP ULTRA	4	AS	1	LB	A/A PRE	0	80	87	73	0	67	93	87				
9	ROUNDUP ULTRA	4	AS	.5	LB	A/A MP												
10	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	77	83	77	0	90	87	90				
10	ROUNDUP ULTRA	4	AS	1	LB	A/A 6"W												
11	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	87	83	77	0	90	90	90				
11	ROUNDUP ULTRA	4	AS	1	LB	A/A 6"W												
11	ROUNDUP ULTRA	4	AS	.5	LB	A/A +3"W												
12	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	87	93	90	0	90	97	100				
12	CANOPY	75	DF	.375	LB	A/A PRE												
12	ROUNDUP ULTRA	4	AS	.5	LB	A/A 6"W												
13	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	90	90	67	0	90	83	67				
13	SQUADRON	2.33	EC	.87	LB	A/A PRE												
14	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	93	90	80	0	83	83	73				
14	SQUADRON	2.33	EC	.87	LB	A/A PRE												
14	PROWL	3.3	EC	.25	LB	A/A PRE												
15	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	87	83	77	0	90	87	87				
15	SQUADRON	2.33	EC	.44	LB	A/A PRE												
15	ROUNDUP ULTRA	4	AS	.5	LB	A/A 6"W												
16	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	83	87	87	0	90	87	100				
16	PROWL	3.3	EC	1	LB	A/A PRE												
16	PURSUIT	70	DF	.063	LB	A/A MP												
16	SUNIT II	L		.5	QT/A	MP												
16	LIQUID N	L		1	QT/A	MP												
17	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	73	87	70	0	73	93	70				
17	REFLEX	2	EC	.375	LB	A/A MP												
17	FUSION	2.66	EC	.21	LB	A/A MP												
17	COC	L		1	QT/A	MP												
17	LIQUID N	L		2.5	QT/A	MP												

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	POLPY	SETFA	AMBTR	POLPY		
Crop Code	GLYMA			GLYMA				
Part Rated								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								
Footnote Number								
Trt-Eval Interval	3 WEEKS	3 WEEKS	3 WEEKS	3 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow										
	Amt	Ds	Rate	Unit	Stg									
18 ROUNDUP ULTRA	4	AS	1.5	LB	A/A	PRE	3	80	90	80	0	77	83	77
18 CONCLUDE EXTRA	GB		.875	LB	A/A	MP								
18 COC	L		1	QT/A		MP								
19 ROUNDUP ULTRA	4	AS	1.5	LB	A/A	PRE	7	80	83	80	7	83	77	97
19 PURSUIT	70	DF	.063	LB	A/A	MP								
19 STATUS	2	EC	.19	LB	A/A	MP								
19 SUNIT II	L		.5	QT/A		MP								
19 LIQUID N	L		1	QT/A		MP								
20 ROUNDUP ULTRA	4	AS	1.5	LB	A/A	PRE	0	80	80	80	0	80	77	93
20 ASSURE II	0.8	EC	.055	LB	A/A	MP								
20 CLASSIC	25	DF	.005	LB	A/A	MP								
20 PINNACLE	25	DF	.002	LB	A/A	MP								
20 COC	L		1	QT/A		MP								
21 ROUNDUP ULTRA	4	AS	1.5	LB	A/A	PRE	0	77	90	90	0	77	90	93
21 CLASSIC	25	DF	.012	LB	A/A	MP								
21 ACTIVATOR 90			.25	%	V/V	MP								
22 ROUNDUP ULTRA	4	AS	1.5	LB	A/A	PRE	0	80	93	90	0	80	90	90
22 AUTHORITY BROADLEAF														
22 AUTHORITY	75	DF	.2	LB	A/A	PRE								
22 CLASSIC	25	DF	.04	LB	A/A	PRE								
LSD (P=.05)			3.9					10.6	11.2	14.7	2.8	10.5	13.8	13.5
Standard Deviation			2.4					6.4	6.8	8.9	1.7	6.4	8.3	8.2
CV			262.62					7.66	7.75	11.22	280.31	7.61	9.49	9.98

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	AMBTR	POLPY
Crop Code	GLYMA		
Part Rated			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Footnote Number			
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg				
1	SELECT	2	EC	.047	LB A/A	PRE	0	77	90	47
1	WEEDONE LV4	3.8	E	.5	LB A/A	PRE				
1	V-53482	50	WP	.078	LB A/A	PRE				
1	LEXONE	75	DF	.311	LB A/A	PRE				
1	COC	L		.5	QT/A	PRE				
1	STELLAR	3.10	EC	.17	LB A/A	+5W				
1	SELECT	2	EC	.094	LB A/A	+5W				
1	COC	L		1	QT/A	+5W				
2	SELECT	2	EC	.047	LB A/A	PRE	0	80	93	40
2	WEEDONE LV4	3.8	E	.5	LB A/A	PRE				
2	V 53482	50	WP	.094	LB A/A	PRE				
2	LEXONE	75	DF	.311	LB A/A	PRE				
2	COC	L		.5	QT/A	PRE				
2	STELLAR	3.10	EC	.17	LB A/A	+5W				
2	SELECT	2	EC	.094	LB A/A	+5W				
2	COC	L		1	QT/A	+5W				
3	SELECT	2	EC	.047	LB A/A	PRE	0	83	90	43
3	WEEDONE LV4	3.8	E	.5	LB A/A	PRE				
3	V 53482	50	WP	.078	LB A/A	PRE				
3	COC	L		.5	QT/A	PRE				
3	STELLAR	3.10	EC	.17	LB A/A	+5W				
3	SELECT	2	EC	.094	LB A/A	+5W				
3	COC	L		1	QT/A	+5W				
4	SELECT	2	EC	.047	LB A/A	PRE	0	83	93	53
4	WEEDONE LV4	3.8	E	.5	LB A/A	PRE				
4	V 53482	50	WP	.094	LB A/A	PRE				
4	COC	L		.5	QT/A	PRE				
4	STELLAR	3.10	EC	.17	LB A/A	+5W				
4	SELECT	2	EC	.094	LB A/A	+5W				
4	COC	L		1	QT/A	+5W				
5	CANOPY	75	DF	.33	LB A/A	PRE	0	70	67	67
5	COC	L		1	QT/A	PRE				
5	STELLAR	3.10	EC	.17	LB A/A	+5W				
5	SELECT	2	EC	.094	LB A/A	+5W				
5	COC	L		1	QT/A	+5W				
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	83	87	30
6	STELLAR	3.10	EC	.17	LB A/A	+5W				
6	SELECT	2	EC	.094	LB A/A	+5W				
6	COC	L		1	QT/A	+5W				

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	POLPY
Crop Code		GLYMA		
Part Rated				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow	GLYMA	SETFA	AMBTR	POLPY
		Amt	Ds	Rate	Unit	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
					Stg	P	P	P	P
						0	0	0	0
7	V 53482	50	WP	.078	LB A/A PRE	0	73	77	97
7	ROUNDUP ULTRA	4	AS	1	LB A/A PRE				
7	ROUNDUP ULTRA	4	AS	.5	LB A/A MP				
8	V 53482	50	WP	.094	LB A/A PRE	0	87	100	100
8	ROUNDUP ULTRA	4	AS	1	LB A/A PRE				
8	ROUNDUP ULTRA	4	AS	.5	LB A/A MP				
9	ROUNDUP ULTRA	4	AS	1	LB A/A PRE	0	53	93	93
9	ROUNDUP ULTRA	4	AS	.5	LB A/A MP				
10	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	90	87	90
10	ROUNDUP ULTRA	4	AS	1	LB A/A 6"W				
11	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	90	90	93
11	ROUNDUP ULTRA	4	AS	1	LB A/A 6"W				
11	ROUNDUP ULTRA	4	AS	.5	LB A/A +3"W				
12	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	90	97	100
12	CANOPY	75	DF	.375	LB A/A PRE				
12	ROUNDUP ULTRA	4	AS	.5	LB A/A 6"W				
13	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	87	67	53
13	SQUADRON	2.33	EC	.87	LB A/A PRE				
14	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	80	80	67
14	SQUADRON	2.33	EC	.87	LB A/A PRE				
14	PROWL	3.3	EC	.25	LB A/A PRE				
15	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	90	90	90
15	SQUADRON	2.33	EC	.44	LB A/A PRE				
15	ROUNDUP ULTRA	4	AS	.5	LB A/A 6"W				
16	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	90	80	97
16	PROWL	3.3	EC	1	LB A/A PRE				
16	PURSUIT	70	DF	.063	LB A/A MP				
16	SUNIT II		L	.5	QT/A MP				
16	LIQUID N		L	1	QT/A MP				
17	ROUNDUP ULTRA	4	AS	1.5	LB A/A PRE	0	63	93	70
17	REFLEX	2	EC	.375	LB A/A MP				
17	FUSION	2.66	EC	.21	LB A/A MP				
17	COC		L	1	QT/A MP				
17	LIQUID N		L	2.5	QT/A MP				

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code		SETFA	AMBTR	POLPY
Crop Code		GLYMA		
Part Rated				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
		Amt	Ds	Rate		Stg	P	P	P	P
18	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	73	77	77
18	CONCLUDE EXTRA		GB	.875	LB	A/A MP				
18	COC		L	1	QT/A	MP				
19	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	83	60	93
19	PURSUIT	70	DF	.063	LB	A/A MP				
19	STATUS	2	EC	.19	LB	A/A MP				
19	SUNIT II		L	.5	QT/A	MP				
19	LIQUID N		L	1	QT/A	MP				
20	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	80	67	90
20	ASSURE II	0.8	EC	.055	LB	A/A MP				
20	CLASSIC	25	DF	.005	LB	A/A MP				
20	PINNACLE	25	DF	.002	LB	A/A MP				
20	COC		L	1	QT/A	MP				
21	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	70	77	90
21	CLASSIC	25	DF	.012	LB	A/A MP				
21	ACTIVATOR 90			.25	g	V/V MP				
22	ROUNDUP ULTRA	4	AS	1.5	LB	A/A PRE	0	73	87	90
22	AUTHORITY BROADLEAF									
22	AUTHORITY	75	DF	.2	LB	A/A PRE				
22	CLASSIC	25	DF	.04	LB	A/A PRE				
	LSD (P=.05)						0.0	12.1	17.1	18.3
	Standard Deviation						0.0	7.3	10.4	11.1
	CV							9.19	12.38	14.58

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED 3.POLPY PENN. SMARTWEED

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 55 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: MINIMUM-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-4-97	6-20-97	7-8-97		
Time of Day:	1:00 PM	4:00 PM	2:00 PM	11:00 AM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	+5W	6" WEEDS		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	54 F	60 F	80 F	78 F		
% Relative Humidity:	80	90	77	84		
Wind Velocity, Unit:	4 MPH	5 MPH	3.5 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	55 F	63 F	78 F	76 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	30	10	30		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		MP	+5 WK	6" WEEDS		
		UNIFOL	3 TRIFOL	4 TRIFOL		
		3 IN	8 IN	10 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	+5 WK	6" WEEDS		
		3 LVS	4 LVS	6 LVS		
		3-4 IN	6 IN	8 IN		
AMBTR		6 LVS	8 LVS	8 LVS		
		3-5 IN	8 IN	10 IN		
POLPY		8 LVS	10 LVS	12 LVS		
		3-5 IN	8 IN	10 IN		

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## MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S7031                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT	6.33 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL
Crop Code	GLXMA					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	7	92	97	87	80	100	92
1	PROWL	3.3	EC	1	LB A/A	PRE	7	92	97	87	80	100	92
1	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE							
1	PURSUIT	70	DF	.063	LB A/A	MP							
1	ACTIVATOR 90			.25	% V/V	MP							
1	LIQUID N		L	1	QT/A	MP							
2	PROWL	3.3	EC	1	LB A/A	PRE	7	92	100	88	83	88	77
2	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE							
2	RAPTOR	1	E	.032	LB A/A	MP							
2	ACTIVATOR 90			.25	% V/V	MP							
2	LIQUID N		L	1	QT/A	MP							
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	92	97	63	67	92	73
3	PURSUIT	70	DF	.063	LB A/A	MP							
3	ACTIVATOR 90			.25	% V/V	MP							
3	LIQUID N		L	1	QT/A	MP							
4	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	97	100	100	100	100	95
4	SQUADRON	2.33	EC	.87	LB A/A	PRE							
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	IFN							
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	97	100	100	100	100	95
5	SQUADRON	2.33	EC	.87	LB A/A	PRE							
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	IFN							
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	97	100	100	100	100	93
6	SCEPTER	70	WG	.125	LB A/A	PRE							
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	IFN							
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	92	100	100	100	100	97
7	DETAIL	4.1	EC	1	LB A/A	PRE							
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	IFN							
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	83	100	100	93	93	93
8	ROUNDUP ULTRA	4	AS	1	LB A/A	MP							
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	93	100	100	97	100	100
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP							
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP							
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	95	100	100	72	100	93
10	SYNCHRONY STS	25	DF	.013	LB A/A	MP							
10	ASSURE II	0.8	EC	.05	LB A/A	MP							
10	COC		L	1	QT/A	MP							



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL
Crop Code							
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	
11	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	97	100	100	40	97	92
11	COVER	75	DF	.188	LB	A/A PRE							
11	SYNCHRONY STS	25	DF	.013	LB	A/A MP							
11	ASSURE II	0.8	EC	.05	LB	A/A MP							
11	COC		L	1	QT/A	MP							
12	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	97	97	97	55	97	92
12	CANOPY XL												
12	AUTHORITY	75	DF	.2	LB	A/A PRE							
12	CLASSIC	25	DF	.04	LB	A/A PRE							
12	ASSURE II	0.8	EC	.05	LB	A/A MP							
12	COC		L	1	QT/A	MP							
13	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	27	83	80	100	93	60	93
13	SELECT	2	EC	.125	LB	A/A MP							
13	PURSUIT	70	DF	.063	LB	A/A MP							
13	COBRA	2	EC	.125	LB	A/A MP							
13	COC		L	1	QT/A	MP							
13	LIQUID N		L	1	QT/A	MP							
14	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	92	93	100	0	73	82
14	STORM	4	EC	.75	LB	A/A MP							
14	POAST HC	3.5	EC	.28	LB	A/A MP							
14	COC		L	1.25	QT/A	MP							
15	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	87	83	100	57	80	82
15	CONCLUDE EXTRA		GB	.875	LB	A/A MP							
15	COC		L	1	QT/A	MP							
16	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	7	83	87	100	93	92	72
16	FUSION	2.66	EC	.21	LB	A/A MP							
16	REFLEX	2	EC	.375	LB	A/A MP							
16	MSO		L	1	QT/A	MP							
16	LIQUID N		L	2.5	QT/A	MP							
17	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	83	88	100	93	85	80
17	FUSION	2.66	EC	.21	LB	A/A MP							
17	FLEXSTAR HL	1.88	CS	.3525	LB	A/A MP							
17	MSO		L	1	QT/A	MP							
17	LIQUID N		L	2.5	QT/A	MP							
18	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	68	100	93	90	77	83
18	ROUNDUP ULTRA	4	AS	1	LB	A/A +2W							

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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL
Crop Code							
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow	Stg	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL	
19 ROUNDUP ULTRA	4 AS		.75 LB A/A	PRE		0	82	97	93	93	82	85
19 ROUNDUP ULTRA	4 AS		1 LB A/A	+3W								
20 ROUNDUP ULTRA	4 AS		.75 LB A/A	PRE		0	92	100	100	100	97	92
20 ROUNDUP ULTRA	4 AS		1 LB A/A	+4W								
21 ROUNDUP ULTRA	4 AS		.75 LB A/A	PRE		0	95	100	100	100	100	92
21 ROUNDUP ULTRA	4 AS		1 LB A/A	+5W								
LSD (P=.05)			5.3				8.1	9.9	12.9	27.8	23.6	18.4
Standard Deviation			3.2				4.9	6.0	7.8	16.9	14.3	11.1
CV			143.43				5.46	6.23	8.12	20.75	15.73	12.64

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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL
Crop Code							
Part Rated							
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg						
1	PROWL	3.3	EC	1	LB A/A	PRE	0	90	96	83	63	99
1	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE						
1	PURSUIT	70	DF	.063	LB A/A	MP						
1	ACTIVATOR 90			.25	% V/V	MP						
1	LIQUID N		L	1	QT/A	MP						
2	PROWL	3.3	EC	1	LB A/A	PRE	0	92	99	87	63	75
2	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE						
2	RAPTOR	1	E	.032	LB A/A	MP						
2	ACTIVATOR 90			.25	% V/V	MP						
2	LIQUID N		L	1	QT/A	MP						
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	92	93	63	50	86
3	PURSUIT	70	DF	.063	LB A/A	MP						
3	ACTIVATOR 90			.25	% V/V	MP						
3	LIQUID N		L	1	QT/A	MP						
4	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	99	99	99	99	96
4	SQUADRON	2.33	EC	.87	LB A/A	PRE						
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	IFN						
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	99	99	99	96	99
5	SQUADRON	2.33	EC	.87	LB A/A	PRE						
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	IFN						
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	98	99	99	96	99
6	SCEPTER	70	WG	.125	LB A/A	PRE						
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	IFN						
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	96	99	99	93	96
7	DETAIL	4.1	EC	1	LB A/A	PRE						
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	IFN						
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	85	99	99	88	72
8	ROUNDUP ULTRA	4	AS	1	LB A/A	MP						
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	99	99	99	99	99
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP						
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP						
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	PRE	0	96	99	99	50	96
10	SYNCHRONY STS	25	DF	.013	LB A/A	MP						
10	ASSURE II	0.8	EC	.05	LB A/A	MP						
10	COC		L	1	QT/A	MP						

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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL
Crop Code	GLYMA					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	0	93	99	94	33	98	95
11	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	93	99	94	33	98	95
11	COVER	75	DF	.188	LB	A/A PRE							
11	SYNCHRONY STS	25	DF	.013	LB	A/A MP							
11	ASSURE II	0.8	EC	.05	LB	A/A MP							
11	COC		L	1	QT/A	MP							
12	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	96	93	93	52	96	91
12	CANOPY XL												
12	AUTHORITY	75	DF	.2	LB	A/A PRE							
12	CLASSIC	25	DF	.04	LB	A/A PRE							
12	ASSURE II	0.8	EC	.05	LB	A/A MP							
12	COC		L	1	QT/A	MP							
13	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	80	77	96	85	50	93
13	SELECT	2	EC	.125	LB	A/A MP							
13	PURSUIT	70	DF	.063	LB	A/A MP							
13	COBRA	2	EC	.125	LB	A/A MP							
13	COC		L	1	QT/A	MP							
13	LIQUID N		L	1	QT/A	MP							
14	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	91	93	96	0	66	82
14	STORM	4	EC	.75	LB	A/A MP							
14	POAST HC	3.5	EC	.28	LB	A/A MP							
14	COC		L	1.25	QT/A	MP							
15	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	82	80	99	30	80	85
15	CONCLUDE EXTRA		GB	.875	LB	A/A MP							
15	COC		L	1	QT/A	MP							
16	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	73	75	96	86	83	72
16	FUSION	2.66	EC	.21	LB	A/A MP							
16	REFLEX	2	EC	.375	LB	A/A MP							
16	MSO		L	1	QT/A	MP							
16	LIQUID N		L	2.5	QT/A	MP							
17	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	78	83	96	76	83	80
17	FUSION	2.66	EC	.21	LB	A/A MP							
17	FLEXSTAR HL	1.88	CS	.3525	LB	A/A MP							
17	MSO		L	1	QT/A	MP							
17	LIQUID N		L	2.5	QT/A	MP							
18	ROUNDUP ULTRA	4	AS	.75	LB	A/A PRE	0	72	96	95	87	47	83
18	ROUNDUP ULTRA	4	AS	1	LB	A/A +2W							

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	SETFA	CHEAL	AMBEL	AMBTR	XANST	AMPAL
Crop Code	GLYMA					
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	8 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P	8 WEEKS P
19 ROUNDUP ULTRA	4 AS		.75 LB	A/A	PRE	0	80	96	96	85	65
19 ROUNDUP ULTRA	4 AS		1 LB	A/A	+3W						85
20 ROUNDUP ULTRA	4 AS		.75 LB	A/A	PRE	0	96	99	99	99	93
20 ROUNDUP ULTRA	4 AS		1 LB	A/A	+4W						88
21 ROUNDUP ULTRA	4 AS		.75 LB	A/A	PRE	0	98	99	99	99	94
21 ROUNDUP ULTRA	4 AS		1 LB	A/A	+5W						96
LSD (P=.05)			0.0			0.0	8.5	12.0	13.6	33.0	27.8
Standard Deviation			0.0			0.0	5.2	7.3	8.3	20.0	16.8
CV							5.75	7.74	8.73	27.43	19.93

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032 Investigator:  
Location: LEXINGTON, KY Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.CHEAL C.LAMBSQUARTERS 3.AMBEL COMMON RAGWEED  
4.AMBTR GIANT RAGWEED 5.XANST C. COCKLEBUR 6.AMPAL H.VINE MILKWEED

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 5-12-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 54 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 6.33 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: MINIMUM-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 4.8 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 27 Soil Name: LANTON Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	5-27-97	6-4-97	6-11-97	6-16-97	7-8-97
Time of Day:	3:00 PM	1:00 PM	4:00 PM	2:00 PM	11:00 AM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	+2W	MP, +3 WK	+4 WK	+5 WK	LP, IFN
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	54 F	60 F	60 F	68 F	72 F	74 F
% Relative Humidity:	80	84	91	95	92	78
Wind Velocity, Unit:	4 MPH	3 MPH	2 MPH	3 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	55 F	64 F	64 F	68 F	70 F	76 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	30	20	80	80	10

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	PRE	+2W	MP, +3 WK	+4 WK	+5 WK	LP, IFN
		UNIFOL	UNIFOL	1 TRIFOL	2 TRIFOL	3 TRIFOL
		2 IN	3 IN	6 IN	8 IN	10 IN

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S7032 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage: PRE	+2W	MP, +3 WK	+4 WK	+5 WK	LP, IFN	
	1 LVS	3 LVS	4 LVS	5 LVS	7 LVS	
CHEAL	1 IN	3-4 IN	4 IN	5 IN	10 IN	
	6 LVS	>10 LVS	>10 LVS	>10 LVS	>10 LVS	
AMBEL	3 IN	2-7 IN	8 IN	10 IN	12 IN	
	4 LVS	6 LVS	8 LVS	10 LVS	12 LVS	
AMBTR	3 IN	3-5 IN	8 IN	10 IN	12 IN	
	6 LVS	8 LVS	10 LVS	10 LVS	12 LVS	
XANST	6 IN	3-6 IN	8 IN	10 IN	14 IN	
	2 LVS	4 LVS	6 LVS	8 LVS	10 LVS	
AMPAL	2 IN	3-4 IN	6 IN	8 IN	10 IN	

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	30	30	30	30	30	30
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT	6.33 FT	6.33 FT	6.33 FT
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7110 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB		DIGSA	XANST	AMBTR	IPOHE
Crop Code			ZEAMX				
Part Rated							
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow						
		Amt	Ds			Stg						
1	BICEP II MAGNUM	5.5	F	2.89	LB A/A	PRE	100	78	0	100	82	83
2	DUAL II MAGNUM	7.6	EC	1.25	LB A/A	PRE	100	77	0	100	77	82
2	AATREX	4	F	1.5	LB A/A	PRE						
3	GUARDSMAN	5	E	2.8	LB A/A	PRE	100	60	0	100	83	62
4	GUARDSMAN	5	E	2.8	LB A/A	PRE	100	88	3	100	88	88
4	MARKSMAN	3.2	F	1.4	LB A/A	8"C						
5	GUARDSMAN	5	E	2.8	LB A/A	PRE	97	90	3	97	92	90
5	CLARITY	4	E	.5	LB A/A	8"C						
5	ACTIVATOR 90			.25	% V/V	8"C						
5	LIQUID N		L	1	QT/A	8"C						
6	FRONTIER	6	E	1.2	LB A/A	PRE	100	90	3	100	90	90
6	MARKSMAN	3.2	F	1.4	LB A/A	8"C						
7	FULTIME	4	CS	2.7	LB A/A	PRE	80	53	0	80	53	50
7	AATREX	4	F	.62	LB A/A	PRE						
8	TOPNOTCH	3.2	CS	1.6	LB A/A	PRE	83	63	0	83	75	57
8	AATREX	4	F	1.5	LB A/A	PRE						
9	HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	100	75	0	100	78	70
10	BULLET	4	F	3.75	LB A/A	PRE	100	40	0	100	65	38
11	AXIOM	68	DF	.68	LB A/A	PRE	100	70	0	100	87	67
11	AATREX	4	F	1.5	LB A/A	PRE						
12	BROADSTRIKE + DUAL S	7.75	SC	1.93	LB A/A	PRE	100	40	0	100	70	37
13	HORNET	85.6	WG	.21	LB A/A	PRE	100	77	0	100	90	77
13	DUAL II	7.8	EC	2	LB A/A	PRE						
14	ACCENT	75	WG	.016	LB A/A	MP	100	87	0	100	87	87
14	BEACON	75	DF	.018	LB A/A	MP						
14	COC		L	1	QT/A	MP						
15	DUAL II	7.8	EC	2	LB A/A	PRE	100	90	0	100	90	90
15	EXCEED	57	DF	.036	LB A/A	8"C						
15	ACTIVATOR 90			.25	% V/V	8"C						



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Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7110 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB	ZEAMX	DIGSA	XANST	AMBTR	IPOHE
Crop Code							
Part Rated							
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow								
	Amt	Ds	Rate	Unit	Stg							
16 DUAL II	7.8	EC	1.5	LB A/A	PRE	100	83	0	100	90	83	93
16 BASIS GOLD	89.5	DF	.79	LB A/A	MP							
16 COC		L	.5	QT/A	MP							
17 DUAL II	7.8	EC	1.95	LB A/A	PRE	100	83	0	100	88	82	87
17 SCORPION III	84.3	WG	.21	LB A/A	6"C							
17 COC		L	1.2	QT/A	6"C							
18 DUAL II	7.8	EC	1.95	LB A/A	PRE	100	87	0	100	88	88	85
18 HORNET	85.6	WG	.17	LB A/A	6"C							
18 COC		L	1.2	QT/A	6"C							
19 DUAL II	7.8	EC	1.95	LB A/A	PRE	100	77	0	100	82	75	78
19 HORNET	85.6	WG	.17	LB A/A	12"C							
19 COC		L	1.2	QT/A	12"C							
20 DUAL II MAGNUM	7.6	EC	1.3	LB A/A	PRE	100	90	0	100	90	90	90
20 EXCEED	57	DF	.036	LB A/A	MP							
20 COC		L	1	QT/A	MP							
21 DUAL II	7.8	EC	1.2	LB A/A	PRE	100	80	0	100	87	78	85
21 SAN 1269H	70	WG	.175	LB A/A	5"C							
21 ACTIVATOR 90			.25	LB A/A	5"C							
21 LIQUID N		L	1	QT/A	5"C							
22 DUAL II	7.8	EC	1.2	LB A/A	PRE	100	83	0	100	85	82	80
22 SAN 1269H	70	WG	.263	LB A/A	5"C							
22 ACTIVATOR 90			.25	LB A/A	5"C							
22 LIQUID N		L	1	QT/A	5"C							
LSD (P=.05)	5.7		21.0	3.5		5.7	22.5	21.8	14.1			
Standard Deviation	3.4		12.7	2.1		3.4	13.6	13.2	8.6			
CV	3.5		16.87	469.04		3.5	16.51	17.66	10.1			

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7110 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546

Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: PRINCETON State/Prov.: KY Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1.DIGSA LARGE CRABGRASS 2.AMBTR GIANT RAGWEED 3.XANST C. COCKLEBUR  
4.IPOHE I. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-12-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON Distance: .5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-13-97	5-30-97	6-4-97	6-13-97		
Time of Day:	11:00 AM	2:00 PM	4:00 PM	2:30 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	5"C, 6"C	MP, 8"C	12"C		
Applic. Placement:	BORSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	53 F	67 F	66 F	75 F		
% Relative Humidity:	80	91	91	88		
Wind Velocity, Unit:	2 MPH	3 MPH	2.5 MPH	3 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	62 F	75 F	69 F	72 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	50	40	60		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		5"C, 6"C	MP	12"C		
		3 LVS	4 LVS	5 LVS		
		5.5 IN	7 IN	12 IN		

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7110                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
DIGSA	5"C, 6"C 2 LVS 2	6"C IN	MP 3 LVS 3	12"C 5 LVS 4		
AMBTR	4 LVS 4	IN	5 LVS 5	7 LVS 8		
XANST	3 LVS 3	IN	4 LVS 4	6 LVS 6		
IPOHE	2 LVS 3	IN	3 LVS 4	4 LVS 6		

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

CORN PREEMERGENCE BALANCE

Trial ID: 97J03-2      Investigator: JIM MARTIN  
Location: PRINCETON, KY.      Study Dir.: Charles H. Slack

Weed Code				IPOHE	AMBTR	CYPES	IPOHE	AMBTR	CYPES
Crop Code									
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
Footnote Number									
Trt-Eval Interval									
PRM Data Type									
# Subsamples, Dec.									

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	V1	V3	6 WEEKS	6 WEEKS	6 WEEKS	6 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
							P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0
1	BALANCE	75	WG	1.13	OZ	A/A PRE	0	0	0	43	33	60	30	10	50
2	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	5	43	43	78	27	23	67
3	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	3	73	77	90	63	63	80
4	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	8	57	58	90	47	47	83
4	HARNESS	7	EC	.9	LB	A/A PRE									
5	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	7	77	87	100	70	77	90
5	HARNESS	7	EC	1.35	LB	A/A PRE									
6	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	5	92	95	93	88	88	87
6	HARNESS	7	EC	.9	LB	A/A PRE									
6	AATREX	4	F	1.25	LB	A/A PRE									
7	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	8	93	92	97	90	83	90
7	HARNESS	7	EC	.9	LB	A/A PRE									
7	AATREX	4	F	1.5	LB	A/A PRE									
8	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	0	92	93	87	83	83	87
8	AATREX	4	F	2	LB	A/A PRE									
9	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	3	67	70	98	63	58	90
9	HARNESS	7	EC	.9	LB	A/A PRE									
10	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	8	77	80	93	73	67	83
10	HARNESS	7	EC	1.35	LB	A/A PRE									
11	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	12	90	90	90	90	80	83
11	HARNESS	7	EC	.9	LB	A/A PRE									
11	AATREX	4	F	1.25	LB	A/A PRE									
12	BALANCE	75	WG	1.88	OZ	A/A PRE	0	0	13	95	90	97	90	85	87
12	HARNESS	7	EC	.9	LB	A/A PRE									
12	AATREX	4	F	1.5	LB	A/A PRE									
13	BALANCE	75	WG	1.5	OZ	A/A PRE	0	0	17	92	92	100	83	88	90
13	HARNESS	7	EC	.9	LB	A/A PRE									
13	BUCTRIL	2	EC	.25	LB	A/A EP									
13	AATREX	4	F	.5	LB	A/A EP									
14	CHECK						0	0	0	0	0	0	0	0	0

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CORN PREEMERGENCE BALANCE

Trial ID: 97J03-2      Investigator: JIM MARTIN  
Location: PRINCETON, KY.      Study Dir.: Charles H. Slack

Weed Code	ZEAMX			IPOHE	AMBTR	CYPES	IPOHE	AMBTR	CYPES
Crop Code	ZEAMX	ZEAMX	ZEAMX						
Part Rated									
Rating Data Type	INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Footnote Number									
Trt-Eval Interval	V1	V3	6 WEEKS	6 WEEKS	6 WEEKS	6 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow					
No. Name	Amt	Ds	Rate	Unit	Stg				
LSD (P=.05)	0.0	0.0	8.6	23.1	22.0	18.2	21.8	22.9	19.1
Standard Deviation	0.0	0.0	5.1	13.7	13.1	10.8	13.0	13.6	11.4
CV	.	.	79.68	19.44	18.38	12.91	20.27	22.34	14.96

CORN PREEMERGENCE BALANCE

Trial ID: 97J03-2      Investigator: JIM MARTIN  
Location: PRINCETON, KY.      Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: JIM MARTIN      Postal Code: 42445  
Affiliation: UNIVERSITY OF KENTUCKY

Trial Status: COMPLETE      Initiation Date: 5-12-97      Country: USA  
City: PRINCETON      State/Prov.: KY      Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1.IPOHE IVYLEAF      2.AMBTR GIANT RAGWEED      3.CYPES YELLOW NUTSEDGE  
Crop 1: ZEAMX FIELD CORN      Variety: PIONEER 3279      Planting Date: 5-12-97  
Planting Method: ROWED      Rate: 25,000 S/A      Depth: 1.5 IN  
Row Spacing: 30 IN      Seed Bed: MEDIUM  
Soil Temperature: 62 F      Soil Moisture: DRY      Emergence Date: 5-22-97

Plot Width, Unit: 5 FT      Plot Length, Unit: 44 FT      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM      % OM: 1.3  
pH: 6.3      Soil Name: CRIDER      Fertility Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: PRINCETON      Distance: 1      Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-3-97				
Time of Day:	1 PM	11 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	EP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	62 F	72 F				
% Relative Humidity:	30	40				
Wind Velocity, Unit:	3 MPH	2 MPH				
Soil Temp., Unit:	65 F	70 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	10				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	V1					
Stage Scale:	3-4 IN					

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
IPOHE		1 LVS 1-2 IN				
AMBTR		8 M2 3 LF 3 IN				
CYPES		2 M2 2 LVS 2 IN 5 M2				

## CORN PREEMERGENCE BALANCE

Trial ID: 97J03-2  
Location: PRINCETON, KY.Investigator: JIM MARTIN  
Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	3.5 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

CORN POSTEMERGENCE (LIBERTY)

Trial ID: C7120 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB	ZEAMX	DIGSA	AMBTR	XANST	IPOHE
Crop Code							
Part Rated							
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt Treatment No. Name	Form	Fm	Rate	Grow									
	Amt	Ds	Rate	Unit	Stg								
1 LIBERTY	1.67	E	.27	LB	A/A	MP	100	97	0	100	97	100	97
1 AATREX	4	F	.75	LB	A/A	MP							
1 AMS	100	SG	3	LB	A/A	MP							
2 LIBERTY	1.67	E	.27	LB	A/A	MP	100	100	0	100	100	100	100
2 AMS	100	SG	3	LB	A/A	MP							
2 LIBERTY	1.67	E	.27	LB	A/A	IFN							
2 AMS	100	SG	3	LB	A/A	IFN							
3 AATREX	4	F	.75	LB	A/A	PRE	100	93	0	100	93	100	93
3 LIBERTY	1.67	E	.27	LB	A/A	MP							
3 AMS	100	SG	3	LB	A/A	MP							
4 AATREX	4	F	.75	LB	A/A	PRE	97	90	0	97	93	100	93
4 LIBERTY	1.67	E	.36	LB	A/A	MP							
4 AMS	100	SG	3	LB	A/A	MP							
5 DUAL II	7.8	EC	1.5	LB	A/A	PRE	100	85	0	100	97	100	80
5 LIBERTY	1.67	E	.27	LB	A/A	MP							
5 AMS	100	SG	3	LB	A/A	MP							
6 DUAL II	7.8	EC	1.5	LB	A/A	PRE	100	90	0	100	93	97	90
6 LIBERTY	1.67	E	.36	LB	A/A	MP							
6 AMS	100	SG	3	LB	A/A	MP							
7 LIBERTY	1.67	E	.36	LB	A/A	MP	93	90	0	93	97	100	90
7 COC	L		1	QT/A		MP							
7 AMS	100	SG	3	LB	A/A	MP							
8 RESOURCE	.86	EC	.027	LB	A/A	MP	100	88	0	100	92	93	93
8 LIBERTY	1.67	E	.36	LB	A/A	MP							
8 COC	L		1	QT/A		MP							
8 AMS	100	SG	3	LB	A/A	MP							
9 LIBERTY	1.67	E	.36	LB	A/A	LP	100	93	0	100	97	97	97
9 COC	L		1	QT/A		LP							
9 AMS	100	SG	3	LB	A/A	LP							
10 RESOURCE	.86	EC	.027	LB	A/A	LP	100	100	3	100	100	100	100
10 LIBERTY	1.67	E	.36	LB	A/A	LP							
10 COC	L		1	QT/A		LP							
10 AMS	100	SG	3	LB	A/A	LP							



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE (LIBERTY)

Trial ID: C7120 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB	ZEAMX	DIGSA	AMBTR	XANST	IPOHE
Crop Code							
Part Rated							
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							
Footnote Number							
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg							
11	LIBERTY	1.67	E	.36	LB A/A	LLP		95	93	0	95	100	100	93
11	COC		L	1	QT/A	LLP								
11	AMS	100	SG	3	LB A/A	LLP								
12	RESOURCE	.86	EC	.027	LB A/A	LLP		85	97	0	85	97	100	97
12	LIBERTY	1.67	E	.36	LB A/A	LLP								
12	COC		L	1	QT/A	LLP								
12	AMS	100	SG	3	LB A/A	LLP								
13	ACCENT	75	WG	.031	LB A/A	MP		97	93	0	97	97	100	97
13	BUCTRIL/ATRA	3	F	.75	LB A/A	MP								
13	ACTIVATOR 90			.25	% V/V	MP								
13	LIQUID N		L	1	QT/A	MP								
14	BICEP II	5.9	F	3.6	LB A/A	PRE		100	90	0	100	88	90	93
LSD (P=.05)								8.4	7.1	2.6	8.4	8.8	4.3	9.1
Standard Deviation								5.0	4.2	1.5	5.0	5.3	2.5	5.4
CV								5.13	4.54	648.07	5.13	5.49	2.57	5.79

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE (LIBERTY)

Trial ID: C7120 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Other Investigator: DR. JIM MARTIN Title: EXTENSION WEED SCIENCE  
Affiliation: UNIVERISTY OF KENTUCKY Postal Code: 42445

Trial Status: COMPLETE Initiation Date: 5-17-97 Country: USA  
City: PRICETON State/Prov.: KY Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1.DIGSA L. CRABGRASS 2.XANST C. COCKLEBUR 3.AMBTR GIANT RAGWEED  
4.IPOHE I. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN Variety: PIONNEER 34A55 Planting Date: 5-13-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON Distance: 1 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-20-97	6-9-97	6-18-97	6-21-97		
Time of Day:	11:00 AM	1:00 PM	2:00 PM	4:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	LP	LLP, IFN		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	64 F	68 F	76 F	80 F		
% Relative Humidity:	55	68	85	72		
Wind Velocity, Unit:	2 MPH	3 MPH	3.5 MPH	2 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	69 F	70 F	74 F	81 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	30	20	25	35		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP	LP	LLP, IFN		
		3 LVS	4 LVS	4 LVS		
		6 IN	10 IN	11 IN		

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE (LIBERTY)

Trial ID: C7120      Investigator:  
Location: PRINCETON, KY.      Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
DIGSA		MP	LP	LLP, IFN		
		2 LVS	4 LVS	6 LVS		
		2 IN	4 IN	6 IN		
XANST		4 LVS	6 LVS	8 LVS		
		4 IN	7 IN	10 IN		
AMBTR		6 LVS	8 LVS	10 LVS		
		5 IN	8 IN	12 IN		
IPOHE		2 LVS	4 LVS	6 LVS		
		4 IN	6 IN	8 IN		

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 GPA	4 GPA	4 GPA	4 GPA		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		
Propellant:	CO2	CO2	CO2	CO2		

CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C7119 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB		SORHA	AMACH	IPOHE
Crop Code			ZEAMX			
Part Rated						
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg	GGGGG	BBBBB	INJURY	SORHA	AMACH	IPOHE
1	HARNESS	7	EC	2	LB A/A	PRE	83	93	0	83	100	93
1	ROUNDUP ULTRA	4	AS	1	LB A/A	8J						
2	HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	77	100	0	77	100	100
2	ROUNDUP ULTRA	4	AS	1	LB A/A	8J						
3	HARNESS	7	EC	2	LB A/A	PRE	100	90	0	100	100	90
3	ROUNDUP ULTRA	4	AS	1.5	LB A/A	16J						
4	HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	100	100	0	100	100	100
4	ROUNDUP ULTRA	4	AS	1.5	% V/V	16J						
5	HARNESS	7	EC	1.33	LB A/A	8J	83	90	0	83	97	87
5	ROUNDUP ULTRA	4	AS	1	LB A/A	8J						
6	HARNESS XTRA	5.6	EC	2.2	LB A/A	8J	80	100	0	80	100	100
6	ROUNDUP ULTRA	4	AS	1	LB A/A	8J						
7	BICEP II	5.9	F	3.6	LB A/A	PRE	77	97	0	77	97	100
7	ACCENT	75	WG	.031	LB A/A	16J						
7	COC		L	1	QT/A	16J						
7	LIQUID N		L	1	QT/A	16J						
8	BICEP II	5.9	F	3.6	LB A/A	PRE	80	100	0	80	100	100
8	EXCEED	57	DF	.036	LB A/A	16J						
8	COC		L	1	QT/A	16J						
8	LIQUID N		L	1	QT/A	16J						
9	PRINCEP	4	F	1.5	LB A/A	PRE	77	100	0	77	100	100
9	AATREX	4	F	1	LB A/A	PRE						
9	ACCENT	75	WG	.031	LB A/A	16J						
9	COC		L	1	QT/A	16J						
9	LIQUID N		L	1	QT/A	16J						
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	16J	100	90	0	100	100	90
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	+2W						
11	ACCENT	75	WG	.016	LB A/A	16J	80	90	0	80	97	87
11	BEACON	75	DF	.018	LB A/A	16J						
11	COC		L	1	QT/A	16J						
12	CHECK						0	0	0	0	0	0

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C7119                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB		SORHA	AMACH	IPOHE
Crop Code			ZEAMX			
Part Rated						
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment	Form Fm	Rate	Grow			
No. Name	Amt Ds	Rate	Unit	Stg		
LSD (P=.05)		9.3	3.9	0.0	9.3	4.9 4.6
Standard Deviation		5.5	2.3	0.0	5.5	2.9 2.7
CV		7.02	2.63	.	7.02	3.18 3.1

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C7119                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY                      Postal Code: 40546  
Other Investigator: JIM MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY                      Postal Code: 42445

Trial Status: COMPLETE                      Initiation Date: 5-17-97                      Country: USA  
City: PRINCETON                      State/Prov.: KY                      Postal Code: 42455

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS    2.AMACH SMOOTH PIGWEED    3.IPOHE I. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN    Variety: JERAMY                      Planting Date: 5-17-97  
Planting Method: ROW                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 62 F    Soil Moisture: NORMAL                      Emergence Date: 5-25-97

Plot Width, Unit: 5 FT    Plot Length, Unit: 30 FT    Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 1.2    % Sand: 25    % Silt: 47    % Clay: 28  
pH: 6.5    CEC: 20    Soil Name: CRIDER                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON                      Distance: 1    Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-20-97	6-9-97	6-18-97	7-2-97		
Time of Day:	2:00 PM	1:00 PM	11:00 AM	1:30 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	8"J	16"J	+2WK		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	64 F	68 F	76 F	84 F		
% Relative Humidity:	72	91	85	92		
Wind Velocity, Unit:	3 MPH	4 MPH	2 MPH	3.5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	69 F	73 F	74 F	81 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	50	30	30	20		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		8"J	16"J	+2WK		
		3-4 LVS	5-6 LVS	8-10 LVS		
		8 IN	14 IN	20 IN		

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CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C7119                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		8"J	16"J	+2WK		
		3 LVS	4 LVS	2 LVS		
		8 IN	16 IN	4 IN		
AMACH		10 LVS	12-14 LVS			
		3 IN	5 IN			
IPOHE		2 LVS	4 LVS			
		4 IN	6 IN			

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	30	30	30	30		
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN		
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG		
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN		
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		
Propellant:	CO2	CO2	CO2	CO2		

CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7122 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB		SORHA	AMACH	IPOHE
Crop Code				ZEAMX		
Part Rated						
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	GGGGG	BBBBB	INJURY	SORHA	AMACH	IPOHE
1	AATREX	4	F	1	LB A/A	PRE	0	0	0	0	0	0
2	AATREX	4	F	1	LB A/A	PRE	63	93	0	93	90	97
2	POAST PLUS	1	E	.28	LB A/A	12"C						
2	COC	L		1.25		12"C						
3	FRONTIER	6	E	1.2	LB A/A	PRE	87	80	0	87	93	67
3	POAST PLUS	1	E	.28	LB A/A	12"C						
3	COC	L		1.25		12"C						
4	LADDOK	5	FL	1	LB A/A	12"C	83	87	0	83	83	90
4	POAST PLUS	1	E	.28	LB A/A	12"C						
4	COC	L		1.25		12"C						
5	FRONTIER	6	E	1.94	LB A/A	PRE	70	97	0	70	100	97
5	POAST PLUS	1	E	.19	LB A/A	8"C						
5	BANVEL	4	EC	.25		8"C						
6	FRONTIER	6	E	1.94	LB A/A	8"C	67	90	0	67	100	97
6	POAST PLUS	1	E	.19	LB A/A	8"C						
6	BANVEL	4	EC	.25		8"C						
7	GUARDSMAN	5	E	2.8	LB A/A	PRE	87	100	0	87	100	100
7	POAST PLUS	1	E	.19	LB A/A	12C						
7	COC	L		1	QT/A	12C						
8	FRONTIER	6	E	.94	LB A/A	PRE	70	93	0	70	100	93
8	POAST PLUS	1	E	.19	LB A/A	8"C						
8	SAN 1269H	70	WG	.263	LB A/A	8"C						
9	FRONTIER	6	E	.94	LB A/A	PRE	73	93	0	73	100	93
9	POAST PLUS	1	E	.19	LB A/A	12"C						
9	SAN 1269H	70	WG	.263	LB A/A	12"C						
10	LADDOK	5	FL	1	LB A/A	8"C	77	90	0	77	100	93
10	POAST PLUS	1	E	.28	LB A/A	8"C						
10	FRONTIER	6	E	.94	LB A/A	8"C						
10	COC	L		1	QT/A	8"C						
11	MARKSMAN	3.2	F	1.4	LB A/A	8"C	63	97	0	63	100	100
11	POAST PLUS	1	E	.188	LB A/A	8"C						
12	CHECK						0	0	0	0	0	0



CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7122                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB		SORHA	AMACH	IPOHE
Crop Code						
Part Rated				ZEAMX		
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow		
No. Name	Amt	Ds	Unit	Stg		
=====						
LSD (P=.05)	23.4	9.9	0.0	8.7	8.2	10.0
Standard Deviation	13.8	5.8	0.0	5.1	4.8	5.9
CV	22.36	7.62	.	8.02	5.98	7.62

CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7122 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: DR. JIM MARTIN  
Affiliation: UNIVERISTY OF KENTUCKY  
Postal Code: 40546  
Title: EXTENSION WEED SCIENCE  
Postal Code: 42445

Trial Status: COMPLETE Initiation Date: 5-17-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS 2.AMACH SMOOTH PIGWEED 3.IPOHE I. MORNINGGLORY

Crop 1: ZEAMX FIELD CORN Variety: DEKALB DK683SR Planting Date: 5-17-97  
Planting Method: ROW Rate: 25,000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: NORMAL Emergence Date: 5-25-97

Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON Distance: 1 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-20-97	6-6-97	6-18-97			
Time of Day:	10:00 AM	2:00 PM	3:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	8"C	12"C			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	64 F	66 F	76 F			
% Relative Humidity:	55	90	80			
Wind Velocity, Unit:	3 MPH	4 MPH	2.5 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	68 F	69 F	75 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	30	45	25			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		8"C	12"C			
		3 LVS	4 LVS			
		8 IN	12 IN			

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CORN POSTEMERGENCE SR JOHNSONGRASS

Trial ID: C7122                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E	F
SORHA		8" C 4 LVS	12" C 6 LVS			
		8 IN	12 IN			
AMACH		6 LVS 2 IN	8 LVS 4 IN			
IPOHE		2 LVS 4 IN	3 LVS 6 IN			

**APPLICATION EQUIPMENT**

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004 DG	8004 DG	8004 DG			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN			
Boom Length, Unit:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA			
Propellant:	CO2	CO2	CO2			

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE IT JOHNSONGRASS

Trial ID: C7123 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB	ZEAMX	SORHA	AMACH	IPOHE
Crop Code						
Part Rated						
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow	Stg	GGGGG	BBBBB	ZEAMX	SORHA	AMACH	IPOHE
1	LIGHTNING	70	DG	.056	LB A/A	MP		77	90	0	77	100	90
1	ACTIVATOR 90			.25	1/2 V/V	MP							
1	LIQUID N		L	1	QT/A	MP							
2	LIGHTNING	70	DG	.056	LB A/A	LP		57	77	0	57	93	63
2	ACTIVATOR 90			.25	1/2 V/V	LP							
2	LIQUID N		L	1	QT/A	LP							
3	LIGHTNING	70	DG	.056	LB A/A	MP		83	93	0	83	100	93
3	SUNIT		L	.75	QT/A	MP							
3	LIQUID N		L	1	QT/A	MP							
4	LIGHTNING	70	DG	.056	LB A/A	LP		50	73	0	50	87	63
4	SUNIT		L	.75	QT/A	LP							
4	LIQUID N		L	1	QT/A	LP							
5	EXCEED	57	DF	.035	LB A/A	MP		87	97	0	87	100	97
5	ACCENT	75	WG	.023	LB A/A	MP							
5	ACTIVATOR 90			.25	1/2 V/V	MP							
6	RESOLVE	75	SG	.251	LB A/A	MP		90	93	0	90	100	93
6	ACCENT	75	WG	.015	LB A/A	MP							
6	ACTIVATOR 90			.25	1/2 V/V	MP							
6	LIQUID N		L	1	QT/A	MP							
7	RESOLVE	75	SG	.251	LB A/A	LP		50	80	0	50	87	80
7	ACCENT	75	WG	.015	LB A/A	LP							
7	ACTIVATOR 90			.25	1/2 V/V	LP							
7	LIQUID N		L	1	QT/A	LP							
8	CHECK							0	0	0	0	0	0
LSD (P=.05)								11.5	8.1	0.0	11.5	11.9	8.2
Standard Deviation								6.6	4.6	0.0	6.6	6.8	4.7
CV								10.69	6.14	.	10.69	8.12	6.47

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE IT JOHNSONGRASS

Trial ID: C7123                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                      Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY                      Title: EXTENSION WEED SCIENCE  
Other Investigator: DR. JIM MARTIN                      Postal Code: 42445  
Affiliation: UNIVERSITY OF KENTUCKY

Trial Status: COMPLETE                      Initiation Date: 5-17-97                      Country: USA  
City: PRINCETON                      State/Prov.: KY                      Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS    2.AMACH SMOOTH PIGWEED    3.IPOHE    I. MORNINGGLORY  
Crop 1: ZEAMX FIELD CORN    Variety: GARST 8541IT                      Planting Date: 5-17-97  
Planting Method: ROW                      Rate: 25,000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 60 F    Soil Moisture: NORMAL                      Emergence Date: 5-25-97

Plot Width, Unit: 5 FT                      Plot Length, Unit: 44 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 1.2    % Sand: 25    % Silt: 47    % Clay: 28  
pH: 6.5                      Soil Name: CRIDER                      Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRICETON                      Distance: 1                      Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-9-97	6-18-97				
Time of Day:	11:00 AM	2:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	MP	LP				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	68 F	76 F				
% Relative Humidity:	60	50				
Wind Velocity, Unit:	3 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	62 F	72 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	20				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	MP	LP				
Stage Scale:	3 LVS	4 LVS				
Height, Unit:	6 IN	8 IN				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN POSTEMERGENCE IT JOHNSONGRASS

Trial ID: C7123                      Investigator: .  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1 SORHA	Stage: MP		LP				
	Stage Scale:	3 LVS	5 LVS				
	Density, Unit:	8 IN	14 IN				
	AMACH						
	Stage Scale:	6 LVS	10 LVS				
	Density, Unit:	2 IN	6 IN				
	IPOHE						
	Stage Scale:	2 LVS	6 LVS				
	Density, Unit:	4 IN	6 IN				

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:		BACKPACK	BACKPACK				
Operating Pressure:		30	30				
Nozzle Type:		FLAT FAN	FLAT FAN				
Nozzle Size:		8004 DG	8004 DG				
Nozzle Spacing, Unit:		20 IN	20 IN				
Boom Length, Unit:		5 FT	5 FT				
Boom Height, Unit:		19 IN	19 IN				
Ground Speed, Unit:		4 MPH	4 MPH				
Carrier:		WATER	WATER				
Spray Volume, Unit:		25 GPA	25 GPA				
Propellant:		CO2	CO2				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

CORN BROADLEAF SIGNALGRASS

Trial ID: 97J09-2 Investigator: JIM MARTIN  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code													
Crop Code													
Part Rated													
Rating Data Type													
Rating Unit													
Rating Date													
Footnote Number													
Trt-Eval Interval													
PRM Data Type													
# Subsamples, Dec.													

Trt No.	Treatment Name	Form	Fm	Rate	Grow								
		Amt	Ds	Unit	Stg								
1	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	77	100	97	0	47	90
1	HARNESS	7	EC	.9 LB	A/A PRE								
2	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	92	100	100	0	80	93
2	HARNESS	7	EC	1.35 LB	A/A PRE								
3	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	100	100	98	0	90	98
3	HARNESS	7	EC	.9 LB	A/A PRE								
3	AATREX	4	F	1.5 LB	A/A PRE								
4	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	90	100	73	0	83	57
4	ACCENT	75	WG	.0311 LB	A/A MP								
4	COC		L	1 QT/A	MP								
5	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	88	100	100	0	77	87
5	ACCENT	75	WG	.016 LB	A/A MP								
5	BEACON	75	DF	.018 LB	A/A MP								
5	COC		L	1 QT/A	MP								
6	BALANCE	75	WG	1.88 OZ	A/A PRE	0	0	80	98	93	0	78	90
6	HARNESS	7	EC	.9 LB	A/A PRE								
7	HARNESS XTRA	5.6	EC	3.64 LB	A/A PRE	0	0	98	100	100	0	90	90
8	BALANCE	75	WG	1.88 OZ	A/A PRE	0	0	100	100	97	0	90	90
8	HARNESS	7	EC	.9 LB	A/A PRE								
8	AATREX	4	F	1.5 LB	A/A PRE								
9	BALANCE	75	WG	1.88 OZ	A/A PRE	0	0	92	100	88	0	87	78
9	ACCENT	75	WG	.031 LB	A/A MP								
9	COC		L	1 QT/A	MP								
10	BALANCE	75	WG	1.88 OZ	A/A PRE	0	0	90	100	97	0	90	87
10	ACCENT	75	WG	.016 LB	A/A MP								
10	BEACON	75	DF	.018 LB	A/A MP								
10	COC		L	1 QT/A	MP								
11	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	92	100	80	0	87	73
11	LIBERTY	1.67	E	.36 LB	A/A MP								
12	BALANCE	75	WG	1.5 OZ	A/A PRE	0	0	98	100	92	0	90	83
12	ROUNDUP ULTRA	4	AS	1 LB	A/A MP								
13	CHECK					0	0	0	0	0	0	0	0

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CORN BROADLEAF SIGNALGRASS

Trial ID: 97J09-2      Investigator: JIM MARTIN  
Location: PRINCETON, KY.      Study Dir.: Charles H. Slack

Weed Code	ZEAMX		IPHE	BRAPP	CYPES	ZEAMX		IPHE	BRAPP	CYPES
Crop Code	ZEAMX		IPHE	BRAPP	CYPES	ZEAMX		IPHE	BRAPP	CYPES
Part Rated	ZEAMX		IPHE	BRAPP	CYPES	ZEAMX		IPHE	BRAPP	CYPES
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	ZEAMX		IPHE	BRAPP	CYPES	ZEAMX		IPHE	BRAPP	CYPES
Footnote Number	ZEAMX		IPHE	BRAPP	CYPES	ZEAMX		IPHE	BRAPP	CYPES
Trt-Eval Interval	V3	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	CLOSURE	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt Treatment	Form	Fm	Rate	Grow										
No. Name	Amt	Ds	Rate	Unit	Stg									
14 CHECK						0	0	0	0	0	0			
LSD (P=.05)						0.0	0.0	9.6	1.3	13.3	0.0	6.5	2.6	19.1
Standard Deviation						0.0	0.0	5.7	0.8	7.9	0.0	3.9	1.5	11.4
CV						.	.	7.33	0.9	9.92	.	5.52	2.0	15.64



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## CORN BROADLEAF SIGNALGRASS

Trial ID: 97J09-2 Investigator: JIM MARTIN  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Other Investigator: JIM MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 42445  
Trial Status: COMPLETE Initiation Date: 5-12-97 Country: USA  
City: PRINCETON State/Prov.: KY Postal Code: 42445

## CROP AND PEST DESCRIPTION

Weed 1.IPOHE IVYLEAF 2.BRAPP SIGNALGRASS 3.CYPES YELLOW NUTSEDGE  
Crop 1: ZEAMX FIELD CORN Variety: PIONEER 3279 Planting Date: 5-12-97  
Planting Method: ROWS Rate: 25,000 TH Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: DRY Emergence Date: 5-22-97  
Plot Width, Unit: 5 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.3  
pH: 6.4 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: PRINCETON Distance: 1 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-97	6-3-97				
Time of Day:	1 PM	11 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	62 F	72 F				
% Relative Humidity:	30	40				
Wind Velocity, Unit:	3 MPH	2 MPH				
		N				
Soil Temp., Unit:	65 F	70 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	10				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V2				
		6-8 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
IPOHE						
Density, Unit:	4	M2				
BRAPP						
Density, Unit:	16	M2				
CYPES						
Density, Unit:	4	M2				

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CORN BROADLEAF SIGNALGRASS

Trial ID: 97J09-2

Investigator: JIM MARTIN

Location: PRINCETON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	3.5 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

SOYBEAN POSTEMERGENCE ROUNDUP READY (SICKLEPOD)

Trial ID: S7120 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code	CASOB	AMBTR
Crop Code	GLXMA	
Part Rated		
Rating Data Type	INJURY CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Date		
Footnote Number		
Trt-Eval Interval	4 WEEK	4 WEEK
PRM Data Type	P	P
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg			
1	ROUNDUP ULTRA	4	AS	.75	LB A/A	4-6"	0	92	90
2	ROUNDUP ULTRA	4	AS	1	LB A/A	4-6"	0	95	95
3	ROUNDUP ULTRA	4	AS	1.5	LB A/A	4-6"	0	100	100
4	ROUNDUP ULTRA	4	AS	.75	LB A/A	4-6"	0	98	100
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	REG 3"			
5	ROUNDUP ULTRA	4	AS	1	LB A/A	4-6"	0	96	100
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	REG 3"			
6	ROUNDUP ULTRA	4	AS	1	LB A/A	4-6"	0	97	100
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	REG 3"			
7	ROUNDUP ULTRA	4	AS	1	LB A/A	4-6"	0	97	100
7	ROUNDUP ULTRA	4	AS	1	LB A/A	REG 3"			
8	ROUNDUP ULTRA	4	AS	1	LB A/A	6-9"	0	92	100
9	ROUNDUP ULTRA	4	AS	1.5	LB A/A	6-9"	0	95	100
10	ROUNDUP ULTRA	4	AS	2	LB A/A	6-9"	0	97	100
11	PURSUIT	70	DF	.063	LB A/A	MP	0	67	100
11	ACTIVATOR 90			.25	% V/V	MP			
11	LIQUID N		L	1	QT/A	MP			
12	RAPTOR	1	E	.032	LB A/A	MP	0	60	100
12	ACTIVATOR 90			.25	% V/V	MP			
12	LIQUID N		L	1	QT/A	MP			
13	SYNCHRONY STS	25	DF	.013	LB A/A	MP	0	77	63
13	ACTIVATOR 90			.25	% V/V	MP			
14	SYNCHRONY STS	25	DF	.013	LB A/A	MP	0	73	97
14	CLASSIC	25	DF	.006	LB A/A	MP			
14	ACTIVATOR 90			.25	% V/V	MP			
15	SYNCHRONY STS	25	DF	.013	LB A/A	MP	0	90	100
15	ACTIVATOR 90			.25	% V/V	MP			
15	ROUNDUP ULTRA	4	AS	.75	LB A/A	6-9"			
16	BROADSTRIKE + DUAL S	7.75	SC	1.93	LB A/A	PRE	0	70	93

SOYBEAN POSTEMERGENCE ROUNDUP READY (SICKLEPOD)

Trial ID: S7120                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

Weed Code		CASOB	AMBTR
Crop Code		GLXMA	
Part Rated			
Rating Data Type		INJURY CONTROL CONTROL	
Rating Unit		PERCENT PERCENT PERCENT	
Rating Date			
Footnote Number			
Trt-Eval Interval		4 WEEK 4 WEEK 4 WEEK	
PRM Data Type		P P P	
# Subsamples, Dec.		0 0 0	

Trt No.	Treatment Name	Form	Fm	Rate	Grow			
		Amt	Ds	Unit	Stg			
17	FIRSTRATE	84	W	.016 LB	A/A EP	0	70	93
17	COC		L	1.2 QT/A	EP			
18	FIRSTRATE	84	W	.023 LB	A/A EP	0	73	100
18	COC		L	1.2 QT/A	EP			
19	FIRSTRATE	84	W	.031 LB	A/A EP	0	80	100
19	COC		L	1.2 QT/A	EP			
20	FIRSTRATE	84	W	.016 LB	A/A EP	0	80	100
20	BROADSTRIKE	80	WG	.006 LB	A/A EP			
20	COC		L	1.2 QT/A	EP			
21	AUTHORITY BROADLEAF					0	60	67
21	AUTHORITY	75	DF	.2 LB	A/A PRE			
21	CLASSIC	25	DF	.04 LB	A/A PRE			
22	AUTHORITY BROADLEAF					0	100	100
22	AUTHORITY	75	DF	.2 LB	A/A PRE			
22	CLASSIC	25	DF	.04 LB	A/A PRE			
22	ROUNDUP ULTRA	4	AS	.75 LB	A/A 4-6"			
23	CANOPY	75	DF	.28 LB	A/A PRE	0	97	98
23	CLASSIC	25	DF	.008 LB	A/A MP			
23	X-77			.25 % V/V	MP			
24	CHECK					0	0	0
LSD (P=.05)						0.0	10.1	17.7
Standard Deviation						0.0	6.1	10.7
CV						.	7.49	11.7

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SOYBEAN POSTEMERGENCE ROUNDUP READY (SICKLEPOD)

Trial ID: S7120 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: DR. JIM MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY  
Postal Code: 40546  
Title: EXTENSION WEED SCIENCE  
Postal Code: 42445

Trial Status: COMPLETE Initiation Date: 6-21-97 Country: USA  
City: PRINCETON State/Prov.: KY Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1. CASOB SICKLEPOD 2. AMBTR GIANT RAGWEED  
Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 6-21-97  
Planting Method: ROW Rate: 12 S/ROW-FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 80 F Soil Moisture: NORMAL Emergence Date: 6-28-97

Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRICETON Distance: 1 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-23-97	7-7-97	7-11-97	7-14-97	7-17-97	8-4-97
Time of Day:	4:00 PM	11:00 AM	1:00 PM	12:30 AM	2:00 PM	3:30 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	REG 4-6"	REG 6-9"	REG 3"
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	82 F	73 F	72 F	84 F	78 F	82 F
% Relative Humidity:	60	77	60	82	70	65
Wind Velocity, Unit:	3 MPH	4 MPH	2 MPH	3.5 MPH	2 MPH	5 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	80 F	75 F	78 F	82 F	84 F	83 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	30	35	20	40	30	45

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		EP	MP	REG 4-6"	REG 6-9"	REG 3"
		1 TR	1 TR	2 TR	3 TR	5 TR

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
CASOB		EP	MP	REG 4-6"	REG 6-9"	REG 3"
		2 IN	4 IN	5 IN	8 IN	3 IN
AMBTR		3 IN	4 IN	6 IN	4 IN	4 IN

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## SOYBEAN POSTEMERGENCE ROUNDUP READY (SICKLEPOD)

Trial ID: S7120

Investigator:

Location: PRINCETON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	30	30	30	30	30	30
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA	25 GPA	25 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2

SOYBEAN JOHNSONGRASS POSTEMERGENCE (ROUNDUP)

Trial ID: S7133 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code				
Crop Code				
Part Rated				
Rating Data Type				
Rating Unit				
Rating Date				
Footnote Number				
Trt-Eval Interval				
PRM Data Type				
# Subsamples, Dec.				

Trt Treatment No. Name	Form Fm		Rate	Grow Unit Stg	SORHA		GLYMA	
	Amt	Ds			INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT
1 ROUNDUP ULTRA	4	AS	.75 LB A/A	12J	0	57	0	53
2 ROUNDUP ULTRA	4	AS	1 LB A/A	12J	0	73	0	67
3 ROUNDUP ULTRA	4	AS	.75 LB A/A	18J	0	83	0	87
4 ROUNDUP ULTRA	4	AS	1 LB A/A	18J	0	92	0	93
5 SELECT	2	EC	.125 LB A/A	12J	0	77	0	60
5 COC		L	1 QT/A	12J				
6 SELECT	2	EC	.125 LB A/A	18J	0	93	0	95
6 COC		L	1 QT/A	18J				
7 FUSION	2.66	EC	.21 LB A/A	12J	0	92	0	88
7 COC		L	1 QT/A	12J				
8 FUSION	2.66	EC	.25 LB A/A	12J	0	88	0	90
8 COC		L	1 QT/A	12J				
9 FUSION	2.66	EC	.21 LB A/A	18J	0	98	0	95
9 COC		L	1 QT/A	18J				
10 FUSION	2.66	EC	.25 LB A/A	18J	0	82	0	92
10 COC		L	1 QT/A	18J				
11 CONCLUDE EXTRA	3?	E		12J	12	82	0	78
11 COC		L	1 QT/A	12J				
12 CONCLUDE EXTRA	3?	E		18J	13	92	0	88
12 COC		L	1 QT/A	18J				
13 ASSURE II	0.8	EC	.06 LB A/A	12J	10	90	0	90
13 COC		L	1 QT/A	12J				
14 ASSURE II	0.8	EC	.06 LB A/A	18J	0	93	0	93
14 COC		L	1 QT/A	18J				
15 PURSUIT	70	DF	.063 LB A/A	12J	10	82	0	78
15 COC		L	.75 QT/A	12J				
15 LIQUID N		L	1 QT/A	12J				
16 PURSUIT	70	DF	.063 LB A/A	18J	0	95	0	95
16 COC		L	.75 QT/A	18J				
16 LIQUID N		L	1 QT/A	18J				

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SOYBEAN JOHNSONGRASS POSTEMERGENCE (ROUNDUP)

Trial ID: S7133 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code				
Crop Code		GLYMA	GLYMA	SORHA
Part Rated				
Rating Data Type		INJURY CONTROL	INJURY CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval		4 WEEKS	4 WEEKS	8 WEEKS
PRM Data Type		P	P	P
# Subsamples, Dec.		0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow					
		Amt	Ds	Rate	Unit	Stg				
17	POAST PLUS	1	E	.188	LB A/A	12J	0	95	0	95
17	COC		L	1	QT/A	12J				
18	POAST PLUS	1	E	.28	LB A/A	18J	0	88	0	88
18	COC		L	1	QT/A	18J				
19	POAST HC	3.8	EC	.188	LB A/A	12J	0	97	0	97
19	COC		L	.125	QT/A	12J				
20	POAST HC	3.8	EC	.28	LB A/A	18J	0	93	0	90
20	COC		L	.125	QT/A	18J				
LSD (P=.05)							2.4	7.4	0.0	6.0
Standard Deviation							1.5	4.5	0.0	3.7
CV							64.82	5.16	.	4.27



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SOYBEAN JOHNSONGRASS POSTEMERGENCE (ROUNDUP)

Trial ID: S7133 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: DR. JIM MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY  
Postal Code: 40546  
Title: EXTENSION WEED SCIENCE  
Postal Code: 42445

Trial Status: COMPLETE Initiation Date: 6-23-97 Country: USA  
City: PRINCETON State/Prov.: KY Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS

Crop 1: GLXMA SOYBEAN Variety: ASGROW 4501RR/STS Planting Date: 6-23-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 82 F Soil Moisture: NORMAL Emergence Date: 6-30-97

Plot Width, Unit: 6.66 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON Distance: 1 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	7-15-97	7-21-97				
Time of Day:	3:00 PM	1:30 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	12J	18J				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	80 F	84 F				
% Relative Humidity:	75	70				
Wind Velocity, Unit:	4 MPH	3 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	83 F	84 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	25				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	1 TR	2 TR				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	12J	18J				
Stage Scale:	3 LVS	5 LVS				

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SOYBEAN JOHNSONGRASS POSTEMERGENCE (ROUNDUP)

Trial ID: S7133

Investigator:

Location: PRINCETON, KY.

Study Dir.: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	6.66 FT	6.66 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	4 MPH	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				



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SOYBEAN JOHNSONGRASS POSTEMERGENCE (LIBERTY)

Trial ID: S7135                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

Weed Code				
Crop Code				
Part Rated				
Rating Data Type				
Rating Unit				
Rating Date				
Footnote Number				
Trt-Eval Interval				
PRM Data Type				
# Subsamples, Dec.				

		SORHA		SORHA
	GLYMA		GLYMA	
	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT
	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS
	P	P	P	P
	0	0	0	0

Trt Treatment	Form Fm	Rate	Grow				
No. Name	Amt Ds	Rate Unit	Stg				
12 POAST HC	3.8 EC	.188 LB A/A	12J	0	88	0	90
12 COC	L	1.25 QT/A	12J				
LSD (P=.05)				0.0	4.9	0.0	5.7
Standard Deviation				0.0	2.9	0.0	3.4
CV				.	3.25	.	3.88

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN JOHNSONGRASS POSTEMERGENCE (LIBERTY)

Trial ID: S7135 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: DR. JIM MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY  
Postal Code: 40546  
Title: EXTENSION WEED SCIENCE  
Postal Code: 42445

Trial Status: COMPLETE Initiation Date: 6-23-97 Country: USA  
City: PRINCETON State/Prov.: KY Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS

Crop 1: GLXMA SOYBEAN Variety: ASGROW 2704LL Planting Date: 6-23-97  
Planting Method: DRILLED Rate: 3 S/ROW-FT Depth: 1 IN  
Row Spacing: 8 IN Seed Bed: MEDIUM  
Soil Temperature: 82 F Soil Moisture: NORMAL Emergence Date: 6-30-97

Plot Width, Unit: 6.66 FT Plot Length, Unit: 30 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON Distance: 1 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	7-15-97	7-21-97	8-4-97			
Time of Day:	1:30 PM	3:00 PM	11:00 AM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	12J	18J	+2WK			
Applic. Placement:	BROFOL	BROFOL	BROFOL			
Air Temp., Unit:	80 F	84 F	82 F			
% Relative Humidity:	80	60	71			
Wind Velocity, Unit:	3 MPH	2 MPH	4 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	83 F	84 F	82 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	40	30	35			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	2 TR	3 TR				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	12J	18J				
Stage Scale:	3 LVS	4 LVS				

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## SOYBEAN JOHNSONGRASS POSTEMERGENCE (LIBERTY)

Trial ID: S7135                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004 DG	8004 DG	8004 DG			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN			
Boom Length, Unit:	6.66 FT	6.66 FT	6.66 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 IN	4 IN	4 IN			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA			
Propellant:	CO2	CO2	CO2			

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE JOHNSONGRASS

Trial ID: S7137 Investigator:  
Location: PRINCETON, KY. Study Dir.: Charles H. Slack

Weed Code				
Crop Code	GLYMA	SORHA	GLYMA	SORHA
Part Rated				
Rating Data Type	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				
Footnote Number				
Trt-Eval Interval	4 WEEKS	4 WEEKS	8 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg				
1	SELECT	2	EC	.094	LB A/A	18J	0	88	0	82
1	COC	L		1	QT/A	18J				
2	SELECT	2	EC	.125	LB A/A	18J	0	98	0	92
2	COC	L		1	QT/A	18J				
3	FUSION	2.66	EC	.21	LB A/A	18J	0	88	0	85
3	COC	L		1	QT/A	18J				
4	POAST PLUS	1	E	.188	LB A/A	18J	0	90	0	87
4	COC	L		1	QT/A	18J				
5	POAST PLUS	1	E	.28	LB A/A	18J	0	95	0	90
5	COC	L		1	QT/A	18J				
6	POAST HC	3.8	EC	.19	LB A/A	18J	0	87	0	82
6	COC	L		1	QT/A	18J				
7	POAST HC	3.8	EC	.28	LB A/A	18J	0	93	0	88
7	COC	L		1	QT/A	18J				
8	ASSURE II	0.8	EC	.055	LB A/A	18J	0	90	0	83
8	COC	L		1	QT/A	18J				
9	CONCLUDE EXTRA		GB	.875		18J	0	88	0	80
10	ROUNDUP ULTRA	4	AS	.5	LB A/A	18J	0	95	0	90
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	18J	0	98	0	87
12	ROUNDUP ULTRA	4	AS	1	LB A/A	18J	0	100	0	90
LSD (P=.05)							0.0	5.3	0.0	4.6
Standard Deviation							0.0	3.1	0.0	2.7
CV							.	3.38	.	3.15

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

SOYBEAN POSTEMERGENCE JOHNSONGRASS

Trial ID: S7137                    Investigator:  
Location: PRINCETON, KY.        Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK                    Postal Code: 40546  
Affiliation: UNIVERSITY OF KENTUCKY                Title: EXTENSION WEED SCIENCE  
Other Investigator: DR. JIM MARTIN                Postal Code: 42445  
Affiliation: UNIVERSITY OF KENTUCKY

Trial Status: COMPLETE                    Initiation Date: 6-23-97                    Country: USA  
City: PRINCETON                            State/Prov.: KY                              Postal Code: 42445

CROP AND PEST DESCRIPTION

Weed 1. SORHA JOHNSONGRASS

Crop 1: GLXMA SOYBEAN                    Variety: ASGROW 4501RR/STS                    Planting Date: 6-23-97  
Planting Method: DRILLED                    Rate: 3    S/ROW-FT                    Depth: 1                    MI  
Row Spacing: 8                                IN    Seed Bed: MEDIUM  
Soil Temperature: 82                        F    Soil Moisture: NORMAL                        Emergence Date: 6-30-97

Plot Width, Unit: 6.66 FT                    Plot Length, Unit: 30 FT                    Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                    Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                            % OM: 1.2                    % Sand: 25                    % Silt: 47                    % Clay: 28  
pH: 6.5    Soil Name: CRIDER                              Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: PRINCETON    Distance: 1                    Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	7-21-97					
Time of Day:	2:00 PM					
Application Method:	SPRAY					
Application Timing:	18J					
Applic. Placement:	BROFOL					
Air Temp., Unit:	84 F					
% Relative Humidity:	71					
Wind Velocity, Unit:	3 MPH					
Dew Presence (Y/N):	N					
Soil Temp., Unit:	84 F					
Soil Moisture:	ADEQUATE					
% Cloud Cover:	25					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLXMA Stage:	2 TR					

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	18J					
Stage Scale:	4 LVS					



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## SOYBEAN POSTEMERGENCE JOHNSONGRASS

Trial ID: S7137                      Investigator:  
Location: PRINCETON, KY.            Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK					
Operating Pressure:	30					
Nozzle Type:	FLAT FAN					
Nozzle Size:	8004 DG					
Nozzle Spacing, Unit:	20 IN					
Boom Length, Unit:	6.66 FT					
Boom Height, Unit:	19 IN					
Ground Speed, Unit:	4 MPH					
Carrier:	WATER					
Spray Volume, Unit:	25 GPA					
Propellant:	CO2					

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

BURLEY TOBACCO

Trial ID: T7001  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code		SETFA	CHEAL	AMACH	IPOHE	
Crop Code	NIOTA					NIOTA
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WAT	4 WAT	4 WAT	4 WAT	4 WAT	8 WAT
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow							
		Amt	Ds	Rate	Unit	Stg						
1	COMMAND	3	ME	1	LB	A/A PRE	3	95	99	73	53	5
2	SPARTAN	75	DF	.3125	LB	A/A PRE	2	90	99	92	83	0
3	SPARTAN	75	DF	.375	LB	A/A PRE	7	95	99	93	95	3
4	SPARTAN	75	DF	.3125	LB	A/A PPI	3	93	99	87	90	3
5	SPARTAN	75	DF	.375	LB	A/A PPI	10	88	99	88	97	3
6	SPARTAN	75	DF	.313	LB	A/A PRE	0	95	99	96	88	5
6	COMMAND	3	ME	.75	LB	A/A PRE						
7	SPARTAN	75	DF	.375	LB	A/A PRE	2	93	99	92	96	0
7	COMMAND	3	ME	.75	LB	A/A PRE						
8	SPARTAN	75	DF	.313	LB	A/A PPI	0	60	99	77	88	2
8	COMMAND	3	ME	.75	LB	A/A PPI						
9	SPARTAN	75	DF	.375	LB	A/A PPI	2	93	99	93	100	0
9	COMMAND	3	ME	.75	LB	A/A PPI						
10	SPARTAN	75	DF	.375	LB	A/A PRE	0	96	99	95	90	0
10	COMMAND	3	ME	.75	LB	A/A POT						
11	SPARTAN	75	DF	.375	LB	A/A PRE	4	93	98	93	97	0
11	PROWL	3.3	EC	.75	LB	A/A PRE						
12	SPARTAN	75	DF	.375	LB	A/A PPI	2	93	99	90	95	0
12	PROWL	3.3	EC	.75	LB	A/A PPI						
13	COMMAND	3	ME	.375	LB	A/A PRE	0	95	96	83	77	0
13	PROWL	3.3	EC	.75	LB	A/A PRE						
14	COMMAND	3	ME	.375	LB	A/A PPI	2	95	88	83	70	2
14	PROWL	3.3	EC	.75	LB	A/A PPI						

LSD (P=.05)	5.1	8.4	5.2	17.3	6.1	6.0
Standard Deviation	3.0	5.0	3.1	10.3	3.6	3.6
CV	115.14	5.52	3.18	11.69	4.18	213.29



Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## BURLEY TOBACCO

Trial ID: T7001

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	4 WHEELER	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN			
Nozzle Size:	8004 DG	8004 DG	8004 DG			
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN			
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH			
Incorporation Equip.:	F. CULT					
Hours to Incorp.:	.5					
Incorp. Depth, Unit:	1.5 IN					
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

BURLEY TOBACCO II

Trial ID: T7002      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	GGGGG	BBBBB	SETFA	AMACH	IPOHE	
Crop Code	NIOTA					NIOTA
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Footnote Number						
Trt-Eval Interval	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	8 WEEKS
PRM Data Type	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Grow								
		Amt	Ds	Rate	Unit	Stg							
1	SPARTAN	75	DF	.3125	LB	A/A SB14D	13	92	90	95	98	50	0
2	SPARTAN	75	DF	.3125	LB	A/A PPI14D	12	92	93	97	98	87	0
3	SPARTAN	75	DF	.3125	LB	A/A 2WK	8	98	95	98	100	83	0
4	SPARTAN	75	DF	.375	LB	A/A SB14D	10	98	92	97	95	90	2
5	SPARTAN	75	DF	.375	LB	A/A PPI14D	23	88	92	90	95	93	5
6	SPARTAN	75	DF	.375	LB	A/A 2WK	8	95	95	93	98	90	0
7	SPARTAN	75	DF	.3125	LB	A/A SB	17	77	72	78	75	87	2
8	SPARTAN	75	DF	.3125	LB	A/A PPI	10	75	82	77	83	87	0
9	SPARTAN	75	DF	.3125	LB	A/A PRE	7	88	93	90	93	83	0
10	SPARTAN	75	DF	.375	LB	A/A SB	17	85	88	85	88	98	0
11	SPARTAN	75	DF	.375	LB	A/A PPI	13	62	80	63	87	95	0
12	SPARTAN	75	DF	.375	LB	A/A PRE	13	78	87	82	90	100	3
13	CHECK						0	0	0	0	0	0	0
LSD (P=.05)							11.5	15.1	10.6	15.1	8.5	5.0	4.1
Standard Deviation							6.8	9.0	6.3	9.0	5.1	2.9	2.4
CV							58.33	11.32	7.73	11.14	5.98	3.67	270.11

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

BURLEY TOBACCO II

Trial ID: T7002 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-13-97 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMACH SMOOTH PIGWEED

Crop 1: NIOTA B. TOBACCO Variety: 14XL8 Planting Date: 5-22-97  
Planting Method: SET Rate: 7474 P/A Depth: 2 IN  
Row Spacing: 40 IN Seed Bed: VERY FINE  
Soil Temperature: 60 F Soil Moisture: NORMAL

Plot Width, Unit: 6.33 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-13-97	5-13-97	5-13-97	5-21-97	5-21-97	5-21-97
Time of Day:	2:00 PM	2:00 PM	2:00 PM	11:00 AM	11:00 AM	11:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PPI14D	2WK	SB14D	PPI	PRE	SB
Applic. Placement:	BROSOI	BROSOI	BROSOI	BROSOI	BROSOI	BROSOI
Air Temp., Unit:	52 F	52 F	52 F	54 F	54 F	54 F
% Relative Humidity:	70	70	70	65	65	65
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH	3 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	51 F	51 F	51 F	61 F	61 F	61 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	40	40	40	30	30	30

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
NIOTA						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
AMACH						

Dept. of Agronomy, Univ. of KY  
Weed Science Field Research

## BURLEY TOBACCO II

Trial ID: T7002  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	4 WHEELER	4 WHEELER	4 WHEELER	4 WHEELER	4 WHEELER
Operating Pressure:	30	30	30	30	30	30
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT	6.33 FT	6.33 FT	6.33 FT
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
Incorporation Equip.:	F. CULT			F. CULT		
Hours to Incorp.:	.5			.5		
Incorp. Depth, Unit:	2 IN			2 IN		
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2