

# 1999 Herbicide Evaluation Trials

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(Not for Publication)

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**A. Control of Grasses and Broadleaf Species**

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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</i> L.
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>

## I. ABBREVIATIONS

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

#### PREEMERGENCE

-3WK -3 WEEKS BEFORE PLANTING  
 -1WK -1 WEEK BEFORE PLANTING  
 PRE PREEMERGENCE  
 PRT PRE TRANSPLANT  
 POT POST TRANSPLANT

#### POSTEMERGENCE

MP MID-POSTEMERGENCE WEEDS 2-4"  
 LP LATE POSTEMERGENCE WEEDS 4-6"  
 LP/V4 LATE POSTEMERGENCE WEEDS 4-6" BUT NOT AFTER CROP STAGE V4  
 LLP LATE LATE POSTEMERGENCE WEEDS 6-8"  
 +2D APPLIED 2 DAYS AFTER FIRST APPLICATION  
 +1WK APPLIED 1 WEEK AFTER FIRST APPLICATION  
 SPK SPIKING CORN  
 2TR 2 TRIFOLIATE  
 4TR 4 TRIFOLIATE  
 2LC 2 LEAF CORN  
 4LC 4 LEAF CORN  
 7C 7 INCH CORN  
 10C 10 INCH CORN  
 12C 12 INCH CORN  
 15C 15 INCH CORN  
 20C 20 INCH CORN  
 30C 30 INCH CORN  
 2"W 2 INCH WEEDS  
 3"W 3 INCH WEEDS  
 4"W 4 INCH WEEDS  
 6"W 6 INCH WEEDS  
 9"W 9 INCH WEEDS  
 12"W 12 INCH WEEDS  
 +2"W 2 INCH WEED REGROWTH  
 +4"W 4 INCH WEED REGROWTH  
 8J 8 INCH JOHNSONGRASS  
 12J 12 INCH JOHNSONGRASS  
 16J 16 INCH JOHNSONGRASS  
 18J 18 INCH JOHNSONGRASS  
 ASN AS NEEDED  
 IFN RESPRAY IF NEEDED  
 REG WEED REGROWTH  
 SEQ SEQUENTIAL  
 2WK 2 WEEKS AFTER PLANTING  
 3WK 3 WEEKS AFTER PLANTING  
 4WK 4 WEEKS AFTER PLANTING  
 5WK 5 WEEKS AFTER PLANTING  
 6WK 6 WEEKS AFTER PLANTING

## II. A. APRIL CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
04-01-99	64	53	58	0.16	98	77	55	50	56	51	
04-02-99	71	48	60	T	100	66	58	50	58	51	
04-03-99	73	58	66	0.06	92	66	60	54	60	55	
04-04-99	69	58	64		98	67	61	57	61	58	
04-05-99	75	47	61	T	100	46	65	54	64	54	
04-06-99	74	52	63	0.26	94	34	64	58	64	59	
04-07-99	70	44	57		93	41	63	54	63	54	
04-08-99	77	59	68		92	40	64	55	64	56	
04-09-99	73	51	62	0.05	92	43	64	59	66	62	
04-10-99	63	42	52		93	63	64	56	64	57	
04-11-99	71	49	60		86	29	63	58	66	59	
04-12-99	53	41	47		93	60	57	54	61	56	
04-13-99	62	35	48		96	32	61	50	62	51	
04-14-99	64	36	50	0.01	89	33	61	51	62	53	
04-15-99	64	47	56	0.28	96	71	59	54	59	56	
04-16-99	49	43	46	T	82	51	55	49	56	49	0.05
04-17-99	44	38	41	0.02	88	60	50	47	50	47	0.11
04-18-99	51	40	46	0.02	93	68	51	47	51	47	0.04
04-19-99	61	39	50	0.07	97	52	53	47	53	46	0.04
04-20-99	63	35	49	0.01	100	47	59	48	59	48	0.02
04-21-99	78	52	65	0.01	86	41	62	54	63	54	0.10
04-22-99	78	52	65		86	41	62	54	63	54	
04-23-99	79	47	63	T	87	48	66	59	68	61	0.12
04-24-99	63	41	52		79	31	66	56	66	58	0.15
04-25-99	66	38	52		79	32	65	54	66	55	0.16
04-26-99	59	48	54	0.65	100	48	59	57	62	58	
04-27-99	68	59	64	0.12	100	90	62	58	62	59	0.03
04-28-99	67	52	60	0.15	100	86	64	60	64	61	0.05
04-29-99	66	49	58		90	45	67	58	64	58	0.22
04-30-99	69	45	57		66	30	67	56	65	55	0.19

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
SUMMARY	66	47	56	1.87	92	51	61	54	61	55	1.28
Deviation	+1	+2	+1	-2.01							

"T" indicates Trace amount of Precip (too small to measure).

## II. A. MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
05-01-99	72	46	59		74	35	69	57	68	56	0.22
05-02-99	73	48	60		75	29	70	58	70	58	0.24
05-03-99	78	44	61		83	25	71	58	72	59	0.15
05-04-99	81	55	68		77	40	71	60	73	63	0.23
05-05-99	78	60	69	0.18	97	60	71	63	71	65	0.19
05-06-99	76	56	66	0.42	95	46	70	65	70	66	0.14
05-07-99	75	54	64		83	34	71	61	71	61	0.21
05-08-99	71	54	62		78	44	67	61	70	62	0.18
05-09-99	75	51	63		96	45	71	60	73	62	0.21
05-10-99 E	79	53	66		94	35	74	61	76	64	0.25
05-11-99	84	55	70		81	35	73	63	76	66	0.25
05-12-99	82	60	71	0.41	88	45	74	64	77	67	0.26
05-13-99	74	60	67	0.01	98	54	73	66	73	68	0.16
05-14-99	73	59	66		100	72	69	64	74	65	0.13
05-15-99	73	50	62		100	74	70	63	76	63	0.23
05-16-99	81	62	72		97	64	72	65	80	66	0.26
05-17-99	84	64	74		85	49	77	67	80	69	0.22
05-18-99	73	57	65	0.09	95	70	70	66	75	69	0.13
05-19-99	74	49	62		100	39	73	62	75	63	0.20
05-20-99	76	49	62		96	35	76	62	77	65	0.20
05-21-99	83	54	68		78	36	75	63	77	66	0.21
05-22-99	74	60	67	0.01	98	60	71	67	75	70	0.14
05-23-99	78	53	66	0.22	100	50	75	64	77	67	0.22
05-24-99	65	50	58	0.01	87	44	68	63	72	65	0.23
05-25-99	70	45	58		97	33	69	59	72	61	0.22
05-26-99	72	52	62		96	32	72	61	74	64	0.24
05-27-99	76	46	61		97	20	75	60	76	63	0.26
05-28-99	81	46	64		87	22	77	62	78	65	0.25
05-29-99	84	54	69		86	24	79	64	80	67	0.28
05-30-99	85	62	74		73	37	77	67	79	70	0.30
05-31-99	81	68	74		77	50	74	69	76	72	0.27

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
SUMMARY	77	54	65	1.35	89	43	72	63	75	65	6.68
Deviation	+1	-1	+0	-3.12							

"E" indicates data estimated by NWS.



## II. A. JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
06-01-99	78	65	72	0.22	96	65	73	68	73	70	0.00
06-02-99	82	64	73	0.33	97	53	75	68	74	69	0.13
06-03-99	79	58	68		100	92	76	66	77	67	0.17
06-04-99	83	57	70		100	100	80	67	81	69	0.21
06-05-99	86	64	75		100	100	80	69	82	72	0.25
06-06-99	89	67	78		100	100	82	70	84	74	0.25
06-07-99 E	89	70	80		100	57	81	72	83	76	0.24
06-08-99	94	70	82		100	40	85	72	88	75	0.39
06-09-99	91	68	80	T	94	39	81	74	83	78	0.19
06-10-99	93	65	79		97	31	85	72	86	75	0.15
06-11-99	93	69	81		87	37	85	74	87	77	0.27
06-12-99	86	68	77		90	53	79	74	82	77	0.13
06-13-99	88	65	76		99	39	84	71	84	74	0.24
06-14-99	79	65	72	0.60	98	55	79	73	80	75	0.17
06-15-99	76	58	67		83	52	79	69	78	70	0.14
06-16-99	74	54	64		79	46	77	67	77	68	0.19
06-17-99	73	56	64		74	37	77	67	77	69	0.19
06-18-99	76	52	64		86	32	80	65	80	68	0.21
06-19-99	81	53	67		77	32	79	66	79	69	
06-20-99	85	58	72		85	27	83	68	83	71	0.27
06-21-99	87	59	73		86	30	85	70	85	74	0.26
06-22-99	88	62	75		82	30	85	71	86	75	
06-23-99	88	64	76		83	39	83	72	84	76	0.26
06-24-99	77	69	73	0.56	96	75	77	74	80	75	0.02
06-25-99	85	68	76		99	56	81	72	79	73	0.05
06-26-99	90	68	79		98	50	84	72	83	73	0.25
06-27-99	83	73	78	0.32	97	67	80	75	79	76	0.17
06-28-99	82	69	76	1.76	98	79	79	74	77	75	0.14
06-29-99	79	63	71	0.10	97	68	77	73	77	73	0.04
06-30-99	83	59	71		97	49	80	70	79	70	0.24

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUMMARY	84	63	74	3.89	92	54	80	70	81	73	5.22
Deviation	+1	+1	+1	+0.23							

"E" indicates data estimated by NWS.

"T" indicates Trace amount of Precip (too small to measure).

## II. A. JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
07-01-99	85	67	76		91	62	79	73	79	73	0.17
07-02-99	84	73	78	0.27	97	71	81	74	80	75	0.33
07-03-99	90	74	82		93	56	85	75	84	75	0.40
07-04-99 E	92	74	83		88	46	83	76			
07-05-99	91	74	82		96	55	88	78	90	80	
07-06-99	91	73	82		98	51	88	78	91	81	0.37
07-07-99	87	66	76		89	34	88	78	90	81	0.29
07-08-99	88	59	74		95	35	87	74	90	78	0.30
07-09-99	90	65	78		90	56	86	76	89	79	0.30
07-10-99	80	65	72	0.04	94	66	80	75	85	79	0.16
07-11-99	80	58	69		83	32	85	71	85	73	0.21
07-12-99	79	63	71		90	60	81	73	83	76	0.15
07-13-99 E	84	61	72		95	44	83	78	90	84	0.24
07-14-99	89	62	76		98	30	86	73	88	77	0.26
07-15-99	90	65	78		94	41	87	74	88	78	0.27
07-16-99 E	91	68	80		91	37	87	75	89	79	0.37
07-17-99	92	70	81		85	33	89	76	89	79	0.29
07-18-99	91	72	82		89	35	87	78	87	81	0.28
07-19-99	95	65	80		91	39	88	75	87	78	0.33
07-20-99	91	73	82	0.29	97	50	86	78	86	81	0.31
07-21-99	93	72	82	0.17	97	49	87	77	87	78	0.29
07-22-99	95	73	84		93	44	89	77	89	79	0.28
07-23-99	95	75	85		92	43	90	78	91	81	0.32
07-24-99	94	75	84		87	40	90	79	92	50	0.35
07-25-99	97	71	84		99	29	91	78	92	81	0.31
07-26-99	95	71	83	0.23	93	40	89	78	91	82	0.32
07-27-99	91	73	82		91	47	86	78	87	81	0.29
07-28-99	92	72	82		92	52	85	77	86	80	0.23
07-29-99	97	73	85		93	33	90	77	91	80	0.40
07-30-99	104	77	90		82	28	92	79	94	82	0.36
07-31-99	99	78	88		76	32	92	80	94	84	0.36

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
Deviation	91	70	80	✓ 1.00	92	44	87	76	88	78	8.54
	+5	+5	+5	-4.00							

"E" indicates data estimated by NWS.

## II. A. AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
08-01-99 E	90	74	82	0.55	97	54	86	79	89	83	0.26
08-02-99	86	68	77		88	37	86	76	87	78	0.27
08-03-99	85	60	72		85	33	86	73	87	76	0.25
08-04-99	89	60	74		90	31	86	73	88	77	0.27
08-05-99	86	64	75		92	28	86	74	88	78	0.24
08-06-99	89	60	74		87	29	87	73	88	77	0.26
08-07-99	94	62	78		73	24	88	73	89	78	0.35
08-08-99	80	71	76	0.16	99	50	80	76	84	78	0.05
08-09-99	82	64	73		99	38	84	73	85	74	0.15
08-10-99	91	60	76		83	28	86	71	87	74	0.30
08-11-99	91	69	80		85	34	86	74	88	78	0.26
08-12-99	91	68	80		77	31	84	75	85	79	0.29
08-13-99	96	71	84		74	26	88	77	88	80	0.32
08-14-99	72	64	68		96	66	80	74	84	77	0.10
08-15-99	82	62	72		88	34	85	72	84	74	0.18
08-16-99	93	57	75		96	21	88	70	87	74	0.31
08-17-99	96	64	80		76	22	87	74	87	77	0.37
08-18-99	90	64	77		93	28	88	75	88	78	0.29
08-19-99	88	66	77	0.05	94	36	83	75	83	78	0.30
08-20-99	80	64	72		97	42	81	74	82	76	0.26
08-21-99	86	56	71		90	21	85	70	84	73	0.32
08-22-99	88	60	74		72	20	86	71	85	74	0.27
08-23-99	93	66	80		74	25	87	73	86	76	0.29
08-24-99	85	67	76	0.52	98	48	82	75	82	77	0.20
08-25-99	81	63	72	0.03	99	51	79	73	78	74	0.15
08-26-99	82	61	72		99	47	80	69	81	70	
08-27-99	86	65	76		91	42	80	71	82	73	
08-28-99	90	63	76		96	37	83	71	84	74	
08-29-99	91	64	78		90	29	85	73	86	76	0.30
08-30-99	77	56	66		84	30	82	70	82	74	0.24
08-31-99	85	53	69		85	24	84	68	83	71	0.27

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
SUMMARY	87	63	75	1.31	89	34	84	73	85	76	7.12
Deviation	+3	+1	+2	-2.62							

"E" indicates data estimated by NWS.

## II. B. APRIL CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
04-01-99	68	52	60	0.08	100	70	56	52			
04-02-99	80	54	67	0.03	90	60	56	52			
04-03-99	79	53	66	0.38	92	32	62	54			
04-04-99	77	59	68	1.36	92	32	62	54			
04-05-99	78	56	67	0.03	92	48	62	54			
04-06-99	80	58	69	1.12	98	70	64	58			
04-07-99	78	54	66		90	38	64	60			
04-08-99	80	64	72	T	92	48	68	64			
04-09-99	75	64	70	0.08	90	30	68	62			
04-10-99	80	52	66		94	48	68	60			
04-11-99	82	56	69		92	38	67	62			
04-12-99	70	44	57		92	50	67	64			
04-13-99	64	35	50		90	38	68	60			
04-14-99	65	49	57	0.36	98	90	68	64			
04-15-99	60	50	55	0.63	100	90	68	60			
04-16-99	55	40	48	0.03	100	68	68	60			
04-17-99	52	37	44		100	92	68	58			
04-18-99	59	37	48		94	46	61	54			
04-19-99	74	42	58		100	60	62	58			
04-20-99	76	41	58	0.01	94	42	64	60			
04-21-99	84	41	62		90	32	68	64			
04-22-99	84	65	74		88	28	68	64			
04-23-99	84	70	77		92	48	69	62			
04-24-99	80	48	64		94	38	68	62			
04-25-99	69	48	58		92	42	65	61			
04-26-99	74	51	62	0.07	100	60	64	62			
04-27-99	80	61	70	1.50	100	70	66	62			
04-28-99	80	52	66	0.17	100	80	68	64			
04-29-99	78	57	68		100	40	68	62			
04-30-99	75	45	60		92	32	68	60			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
SUMMARY	74	51	63	5.85	95	52	65	60			
Deviation	+3	+5	+4	+1.05							

"T" indicates Trace amount of Precip (too small to measure).

## II. B. MAY CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
05-01-99	78	46	62		90	38	68	60			
05-02-99	81	45	63		82	34	68	62			
05-03-99	80	52	66	T	88	40	68	60			
05-04-99	84	61	72		92	48	68	64			
05-05-99	83	60	72	0.68	90	50	68	62			
05-06-99	80	58	69	1.57	100	60	69	63			
05-07-99	75	50	62		90	38	68	62			
05-08-99	78	47	62		90	38	69	62			
05-09-99	82	50	66		86	40	71	64			
05-10-99	85	52	68		88	30	71	62			
05-11-99	85	65	75		80	38	72	64			
05-12-99	84	63	74	0.03	98	42	72	64			
05-13-99	74	60	67	0.15	98	40	74	64			
05-14-99	72	56	64	T	92	50	70	68			
05-15-99	80	54	67		92	38	70	64			
05-16-99	83	60	72		94	62	72	67			
05-17-99	80	54	67	T	96	58	72	68			
05-18-99	86	39	62	0.43	96	50	72	66			
05-19-99	78	50	64		92	42	72	62			
05-20-99	80	49	64		90	40	72	68			
05-21-99	84	62	73		100	48	72	70			
05-22-99	84	64	74		94	50	78	72			
05-23-99	82	60	71		92	66	77	70			
05-24-99	78	49	64	0.20	95	50	78	72			
05-25-99	75	50	62		90	61	78	70			
05-26-99	78	54	66		92	38	78	74			
05-27-99	80	48	64		80	38	78	70			
05-28-99	82	48	65		98	42	79	73			
05-29-99	87	50	68		90	32	78	70			
05-30-99	86	62	74		94	56	77	72			
05-31-99	84	67	76	0.28	90	70	78	74			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
SUMMARY	81	54	68	3.34	92	46	73	67			
Deviation	+0	-2	-1	-1.62							

"T" indicates Trace amount of Precip (too small to measure).

## II. B. JUNE CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
06-01-99	85	68	76	0.15	100	80	79	74			
06-02-99	88	68	78	0.77	98	68	80	74			
06-03-99	87	64	76	T	88	60	80	76			
06-04-99	91	65	78		85	65	82	76			
06-05-99	92	66	79	0.34	84	60	82	78			
06-06-99	92	73	82		88	52	82	76			
06-07-99	90	70	80	0.14	88	58	82	76			
06-08-99	94	70	82		86	50	84	78			
06-09-99	94	68	81	T	84	38	86	80			
06-10-99	96	70	83		80	50	86	82			
06-11-99	92	68	80		80	50	86	84			
06-12-99	88	72	80		88	48	86	80			
06-13-99	88	68	78	0.15	90	68	85	78			
06-14-99	80	65	72	0.96	92	50	85	78			
06-15-99	80	65	72		92	48	86	82			
06-16-99	78	57	68		88	40	84	80			
06-17-99	77	53	65		90	52	86	80			
06-18-99	80	54	67		88	40	86	80			
06-19-99	82	56	69		90	50	86	80			
06-20-99	80	66	73		90	54	79	74			
06-21-99	90	65	78		89	60	79	76			
06-22-99	91	66	78		96	42	80	74			
06-23-99	91	69	80	0.07	92	52	82	77			
06-24-99	82	69	76	1.00	92	74	78	75			
06-25-99	85	66	76	0.27	98	64	78	76			
06-26-99	84	72	78	0.24	98	92	80	76			
06-27-99	88	72	80	0.36	94	62	82	76			
06-28-99	90	59	74	0.04	96	60	82	76			
06-29-99	86	68	77	0.02	90	62	86	84			
06-30-99	88	68	78	0.01	90	50	86	80			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
SUMMARY	87	66	76	4.52	90	57	83	78			
Deviation	-0	+3	+1	+0.67							

"T" indicates Trace amount of Precip (too small to measure).



## II. B. AUGUST CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
08-01-99	94	76	85		86	52	90	85			
08-02-99	92	68	80		84	48	90	86			
08-03-99	91	64	78		82	30	88	82			
08-04-99	92	66	79		84	32	89	82			
08-05-99	92	62	77		86	34	88	85			
08-06-99	93	60	76		90	40	88	84			
08-07-99	97	63	80		94	60	88	84			
08-08-99	87	74	80	0.28	94	68	87	79			
08-09-99	88	65	76		84	40	86	78			
08-10-99	96	60	78		84	42	86	78			
08-11-99	97	71	84		90	52	88	79			
08-12-99	104	68	86		92	48	88	80			
08-13-99	100	74	87	0.62	84	38	88	80			
08-14-99	94	68	81		84	38	88	82			
08-15-99	90	56	73		88	38	87	79			
08-16-99	96	58	77		90	30	82	75			
08-17-99	101	61	81		92	48	82	76			
08-18-99	100	65	82		88	40	84	78			
08-19-99	95	69	82	0.10	88	38	85	77			
08-20-99	86	66	76		84	32	83	79			
08-21-99	89	58	74		82	30	84	76			
08-22-99	94	59	76		82	26	85	77			
08-23-99	96	65	80		82	38	85	78			
08-24-99	90	69	80		94	50	86	78			
08-25-99	91	58	74		94	68	86	78			
08-26-99	91	61	76		98	50	86	76			
08-27-99	93	60	76		92	38	78	74			
08-28-99	96	64	80		98	42	80	76			
08-29-99	99	65	82		96	38	78	74			
08-30-99	90	61	76		96	32	80	74			
08-31-99	94	52	73		98	42	86	74			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUMMARY	94	64	79	1.00	89	42	85	79			
Deviation	+6	-0	+3	-3.01							



### III. HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
AATREX	ATRAZINE	NOVARTIS
ACCENT	NICOSULFURON	DUPONT
ACCENT GOLD	NICOSULFURON + ATRAZINE	DUPONT
ACTIVATOR 90	NONIONIC SURFACTANT	LOVELAND
AIM	CARFENTRAZONE	FMC
AMS	AMMONIUM SULFATE	CLEAN CROP
ASSURE II	QUIZALOFOP	DUPONT
AUTHORITY	SULFENTRAZONE	FMC
AXIOM	THIAFLUAMIDE + METRIBUZIN	BAYER
BALANCE	ISOXAFLUTOLE	RHONE-POULENC
BANVEL	DICAMBA (DIMETHYLAMINE SALT)	BASF
BAS 131		BASF
BAS 620	TEPRALOXIDIM	BASF
BASAGRAN	BENTAZON	BASF
BASIS GOLD	RIMSULFURON + NICOSULFURON + ATRAZINE	DUPONT
BEACON	PRIMISULFURON	NOVARTIS
BICEP II	METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BICEP MAGNUM TR	S-METOLACHLOR + ATRAZINE + FLUMETSULAM	NOVARTIS
BLAZER	ACIFLUORFEN	BASF
BROADSTRIKE SF + DUAL	FLUMETSULAM + METOLACHLOR	DOW AgroSciences
BUCTRIL	BROMOXYNIL	RHONE-POULENC
BULLET	ALACHLOR MT + ATRAZINE	MONSANTO
BUTYRAC 200	2,4 DB	RHONE-POULENC
CANOPY	CHLORIMURON + METRIBUZIN (1:6 RATIO)	DUPONT
CANOPY XL	CHLORIMURON + SULFENTRAZONE (1:5 RATIO)	DUPONT
CELEBRITY G	NICOSULFURON	BASF
CELEBRITY B	DICAMBA	BASF
CLARITY	DICAMBA (DIGLYCOLAMINE SALT)	BASF
CLASSIC	CHLORIMURON	DUPONT
COBRA	LACTOFEN	VALENT
COMMAND	CLOMAZONE	FMC
CONCLUDE ULTRA B	BENTAZON + ACIFLUORFEN	BASF
CONCLUDE ULTRA G	SETHOXYDIM	BASF
CONCLUDE EXTRA B	BENTAZON + ACIFLUORFEN	BASF
CONCLUDE EXTRA G	CLETHODIM	BASF
CROP OIL CONCENTRATE (COC)		LOVELAND
DISTINCT	DIFLUFENZOPYR/SODIUM SALT OF 3,6 O-ANISIC ACID	BASF

TRADE NAMECOMMON NAMECOMPANY

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	NOVARTIS
E9636	RIMSULFURON	DUPONT
EPIC	FLUFEMACET + ISOXAFLUTOLE	BAYER
EXCEED	PROSULFURON + PRIMISULFURON	NOVARTIS
EXP31809B	EXP31809B	RHONE-POULENC
FIELDMASTER	ACETOCHLOR + ATRAZINE + GLYPHOSATE	MONSANTO
FIRSTRATE	CLORANSULAM	DOW AgroSciences
FLEXSTAR HL	FOMESAFEN + SURFACTANT	ZENECA
FLUFEMACET	FLUFEMACET BAY FOE 4043	BAYER
FRONTROW	CLORANSULAM + FLUMETSULAM	DOW AgroSciences
FRONTIER	DIMETHENAMID	BASF
FRONTIER X2	DIMETHENAMID	BASF
FULTIME	ACETOCHLOR + ATRAZINE + SAFENER	ZENECA
FUSION	FLUAZIFOP-P-BUTYL + FENOXAPROP-P-ETHYL	ZENECA
GRAMOXONE EXTRA	PARAQUAT	ZENECA
GUARDSMAN	DIMETHENAMID + ATRAZINE	BASF
HARNESS	ACETOCHLOR	MONSANTO
HARNESS XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
HORNET	FLUMETSULAM + CLOPYRALID	DOW AgroSciences
INDUCE	SURFACTANT	HELENA
ICIA5676/ZA1296	ACETOCHLOR + ATRAZINE + R-25788 + ZA1296	ZENECA
LEADOFF	DIMETHENAMID + ATRAZINE	DUPONT
LIBERTY	GLUFOSINATE	AgrEvo
LIBERTY ATZ	GLUFOSINATE + ATRAZINE	AgrEvo
LIGHTNING	IMAZETHAPYR + IMAZAPYR	AMERICAN CYANAMID
LIQUID N	28% NITROGEN	
MARKSMAN	DICAMBA + ATRAZINE (2.1 + 1.1)	BASF
MICRO-TECH	ALACHLOR	MONSANTO
MON 58430		MONSANTO
MON 58494		MONSANTO
MON 78126		MONSANTO
MON 69481		MONSANTO
MSO	METHYLATED SEED OIL	LOVELAND
NORTHSTAR	DICAMBA + PRIMISULFURON	NOVARTIS
PINNACLE	THIFENSULFURON	DUPONT
POAST	SETHOXYDIM	BASF
POAST PLUS	SETHOXYDIM + SURFACTANT	BASF
PRESTIGE	SETHOXYDIM	AMERICAN CYANAMID
PRINCEP	SIMAZINE	NOVARTIS
PROWL	PENDIMETHALIN	AMERICAN CYANAMID
PURSUIT	IMAZETHAPYR	AMERICAN CYANAMID
PYTHON	FLUMETSULAM	DOW AgroSciences
RAPTOR	IMAZAMOX	AMERICAN CYANAMID

TRADE NAME

COMMON NAME

COMPANY

RESOURCE  
ROUNDUP ULTRA  
SCEPTER  
SELECT  
SENCOR 75DF  
SPARTAN  
SPIRIT  
SQUADRON  
STATUS  
STEEL  
STORM  
STRONGARM  
SURPASS  
SYNCHRONY STS  
TOPNOTCH  
TOUCHDOWN 5  
TURBO-MAG  
USA 1999  
V-3153  
VALOR  
WEEDONE LV4  
X-77  
ZA1296

FLUMICLORAC-PENTYL  
GLYPHOSATE + ADJUVANT  
IMAZAQUIN  
CLETHODIM  
METRIBUZIN  
SULFENTRAZONE  
PROSULFURON  
PENDIMETHALIN + IMAZAQUIN  
ACIFLUORFEN  
IMAZAQUIN + IMAZETHAPYR + PENDIMETHALIN  
BENTAZON + ACIFLUORFEN  
DICLOSULAM  
ACETOCHLOR  
CHLORIMURON + THIFENSULFURON  
ACETOCHLOR + SAFENER  
SULFOSATE  
S-METOLACHLOR + METRIBUZIN  
FOE 5043 + METRIBUZIN  
V-3153  
FLUMIOXAZIN (V-53482)  
2,4-D ESTER  
NONIONIC SURFACTANT

VALENT  
MONSANTO  
AMERICAN CYANAMID  
VALENT  
BAYER  
FMC  
NOVARTIS  
AMERICAN CYANAMID  
AMERICAN CYANAMID  
AMERICAN CYANAMID  
BASF  
DOW AgroSciences  
ZENECA  
DUPONT  
ZENECA  
ZENECA  
  
BAYER  
VALENT  
VALENT  
RHONE-POULENC  
VALENT  
ZENECA

ZA1296 } mesotrione

Post

pre m

Revised post use pre (broadleaf weeds)

Revised dates

crop safety issue with corn

Risks MB, CB, VL,

sim corn up to 18"

Weed up to large weed esp MG;

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

CORN PREEMERGENCE

Trial ID: C9001  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	AMBTR	ABUTH	ZEAMX	SETFA	XANST	AMBTR	ABUTH
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	6-10-99	6-10-99	6-10-99	6-10-99	6-10-99	6-22-99	6-22-99	6-22-99	6-22-99	6-22-99
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
1	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	87	57	65	63	0	83	30	53	60
2	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	92	82	92	83	0	85	70	85	83
2	AATREX	4	F	.5	LB A/A	PRE										
3	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	92	77	85	88	0	85	65	75	85
3	PRINCEP	4	F	1	LB A/A	PRE										
4	BULLET	4	F	4.5	LB A/A	PRE	0	88	48	75	75	0	85	42	62	75
5	MON 58430	3.8	CS	2	LB A/A	PRE	0	82	15	22	25	0	75	15	22	25
5	AATREX	4	F	1.5	LB A/A	PRE										
6	MON 58494	4.04	CS	2	LB A/A	PRE	0	82	30	42	45	0	80	30	38	45
6	AATREX	4	F	.5	LB A/A	PRE										
7	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	88	67	78	78	0	88	60	65	78
7	AATREX	4	F	.5	LB A/A	PRE										
8	FRONTIER	6	E	1.3	LB A/A	PRE	0	88	58	63	62	0	88	52	57	62
8	AATREX	4	F	1.5	LB A/A	PRE										
9	FRONTIER X2	6	E	.6	LB A/A	PRE	0	85	55	65	75	0	85	52	60	75
9	AATREX	4	F	1.5	LB A/A	PRE										
10	AXIOM	68	DF	.64	LB A/A	PRE	0	83	55	58	62	0	80	45	48	62
10	AATREX	4	F	1.8	LB A/A	PRE										
11	EPIC	58	DF	.435	LB A/A	PRE	0	88	75	78	88	0	78	68	68	88
11	AATREX	4	F	1.8	LB A/A	PRE										

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

CORN PREEMERGENCE

Trial ID: C9001  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	AMBTR	ABUTH	ZEAMX	SETFA	XANST	AMBTR	ABUTH
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	6-10-99	6-10-99	6-10-99	6-10-99	6-10-99	6-22-99	6-22-99	6-22-99	6-22-99	6-22-99
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	AMBTR	ABUTH	ZEAMX	SETFA	XANST	AMBTR	ABUTH
12	DUAL II MAGNUM	7.6	EC	1.59	LB A/A	PRE	0	83	20	53	55	0	73	13	40	52
13	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	85	47	58	57	0	82	38	53	57
14	BALANCE	75	WG	.094	LB A/A	PRE	0	92	68	78	82	0	88	58	72	82
14	AATREX	4	F	1.5	LB A/A	PRE										
15	BALANCE	75	WG	.094	LB A/A	PRE	0	95	80	88	88	0	88	77	78	88
15	HARNESS	7	EC	.875	LB A/A	PRE										
15	AATREX	4	F	1.5	LB A/A	PRE										
16	BALANCE	75	WG	.094	LB A/A	PRE	0	68	68	80	87	0	62	57	67	87
16	AATREX	4	F	1	LB A/A	PRE										
16	PRINCEP	4	F	1	LB A/A	PRE										
17	BALANCE	75	WG	.094	LB A/A	PRE	0	93	65	82	80	0	87	52	72	73
17	BICEP II MAGNUM	5.5	L	1.93	LB A/A	PRE										
18	BALANCE	75	WG	.094	LB A/A	PRE	0	95	95	95	95	0	88	95	92	90
18	BUCTRIL	2	EC	.25	LB A/A	MP										
18	AATREX	4	F	.5	LB A/A	MP										
19	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	70	38	48	55	0	65	35	45	55
20	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	0	87	53	67	57	0	77	48	53	57
20	AATREX	4	F	1.5	LB A/A	PRE										
21	AXIOM	68	DF	.765	LB A/A	PRE	0	88	60	82	82	0	82	53	72	78
21	AATREX	4	F	1.5	LB A/A	PRE										

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

CORN PREEMERGENCE

Trial ID: C9001  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	AMBTR	ABUTH	ZEAMX	SETFA	XANST	AMBTR	ABUTH
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	6-10-99	6-10-99	6-10-99	6-10-99	6-10-99	6-22-99	6-22-99	6-22-99	6-22-99	6-22-99
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	AMBTR	ABUTH	ZEAMX	SETFA	XANST	AMBTR	ABUTH
22	TOPNOTCH	3.2	CS	1.67	LB A/A	PRE	0	92	65	82	85	0	85	57	72	85
22	AATREX	4	F	1.5	LB A/A	PRE										
23	HARNESS	7	EC	1.5	LB A/A	PRE	0	90	73	80	82	0	87	68	72	82
23	AATREX	4	F	1.5	LB A/A	PRE										
LSD (P=.05)							0.0	21.6	33.4	34.1	30.0	0.0	21.9	30.8	30.9	30.0
Standard Deviation							0.0	13.1	20.3	20.6	18.2	0.0	13.2	18.7	18.7	18.2
CV							0.0	15.07	34.48	29.36	25.41	0.0	16.24	36.43	30.31	25.76

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

CORN PREEMERGENCE

Trial ID: C9001 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE Initiation Date: 5-1-99 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.XANST C. COCKLEBUR  
Weed 3.AMBTR GIANT RAGWEED 4.ABUTH VELVETLEAF

Crop 1:ZEAMX CORN Variety: GARST 8541IT Planting Date: 7-1-99  
Planting Method: ROWED Rate: 25000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 60 F Soil Moisture: NORMAL Emergence Date: 7-9-99

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  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## CORN PREEMERGENCE

Trial ID: C9001

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-1-99	5-24-99				
Time of Day:	10:00 AM	3:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	62 F	75 F				
% Relative Humidity:	65	75				
Wind Velocity, Unit:	2.0 MPH	2.0 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	60 F	65 F				
Soil Moisture:	ADEQUATE	ADEQAUTE				
% Cloud Cover:	30	45				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP				
		3-4 LF				
		7 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2 LF				
		1 IN				
XANST		3 LF				
		4 IN				
AMBTR		4 LF				
		4-6 IN				
ABUTH		2 LF				
		4 IN				



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## CORN PREEMERGENCE

Trial ID: C9001  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: 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	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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CORN PREEMERGENCE II

Trial ID: C9002  
Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	ABUTH	ZEAMX	SETFA	XANST	ABUTH
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		4 WEEKS		4 WEEKS	
Rating Unit	P	P	P	P	P	P	P	P
Rating Date	0	0	0	0	0	0	0	0
Crop Stage	2 WEEKS		2 WEEKS		4 WEEKS		4 WEEKS	
Crop Stage Scale	P	P	P	P	P	P	P	P
Weed Stage	0	0	0	0	0	0	0	0
Weed Density, Unit	2 WEEKS		2 WEEKS		4 WEEKS		4 WEEKS	
Footnote Number	P	P	P	P	P	P	P	P
Trt-Eval Interval	0	0	0	0	0	0	0	0
PRM Data Type	2 WEEKS		2 WEEKS		4 WEEKS		4 WEEKS	
# Subsamples, Dec.	P	P	P	P	P	P	P	P

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	ABUTH	ZEAMX	SETFA	XANST	ABUTH
1	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	PRE	0	91	91	93	0	80	73	80
2	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	PRE	0	93	50	84	0	86	78	85
2	PRINCEP	4	F	1	LB A/A	PRE								
3	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	PRE	0	93	50	84	0	81	71	78
3	AATREX	4	F	.6	LB A/A	PRE								
4	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	PRE	0	93	74	93	0	83	78	85
4	BALANCE	75	WG	.047	LB A/A	PRE								
5	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	10	10	10	0	28	54	10
5	COC		L	1	QT/A	10C								
6	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	93	94	95	0	58	96	95
6	SPIRIT	57	WG	.036	LB A/A	10C								
6	COC		L	1	QT/A	10C								
7	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	99	95	95	0	88	88	90
7	ACCENT	75	WG	.031	LB A/A	10C								
7	COC		L	1	QT/A	10C								
8	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	55	96	95	0	59	95	96
8	CLARITY	4	E	.25	LB A/A	10C								
8	INDUCE			.25	% V/V	10C								
9	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	55	91	91	0	54	88	93
9	WEEDONE LV4	3.8	E	.25	LB A/A	10C								
9	INDUCE			.25	% V/V	10C								

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CORN PREEMERGENCE II

Trial ID: C9002  
Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	ABUTH	ZEAMX	SETFA	XANST	ABUTH
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
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 Conc	Form Type	Rate	Rate Unit	Grow Stg								
10	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	59	94	95	0	59	94	96
10	EXCEED	57	DF	.036	LB A/A	10C								
10	COC		L	1	QT/A	10C								
11	BICEP MAGNIUM TR	4.59	CS	2.3	LB A/A	10C	0	84	93	95	0	64	94	94
11	HORNET	85.6	WG	.128	LB A/A	10C								
11	COC		L	1	QT/A	10C								
12	CHECK UNTREATED						0	0	0	0	0	0	0	0
	LSD (P=.05)						0.0	5.7	4.1	3.9	0.0	18.8	15.7	10.4
	Standard Deviation						0.0	3.9	2.8	2.7	0.0	13.1	10.8	7.2
	CV						0.0	5.71	4.06	3.5	0.0	21.24	14.37	9.57

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Weed Science Field Research

CORN PREEMERGENCE II

Trial ID: C9002  
Location:

Study Dir.:  
Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Investigator: Charles H. Slack

Postal Code: 40546

Trial Status: COMPLETE  
City: LEXINGTON

Initiation Date: 4-29-99  
State/Prov.: KY

Country: USA  
Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIN  
Weed 2.XANST COMMON COCKLEBUR  
Weed 3.ABUTH VELVETLEAF

Crop 1:ZEAMX CORN  
Planting Method: ROW  
Soil Temperature: 60 F  
Variety: NK N63-G7  
Rate: 25000 S/A  
Row Spacing: 30 IN  
F Soil Moisture: ADEQUATE  
Planting Date: 4-29-99  
Depth: 1.5 IN  
Seed Bed: MEDIUM  
Emergence Date: 5-7-99

Plot Width, Unit: 10 FT Plot Length, Unit: 33 FT Reps: 4

Site Type: FIELD

Tillage Type: CONVENTIONAL

Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

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

Overall Moisture Conditions: WET-DRY-DRY

Closest Weather Station: SPINDLETOP

Distance: 1.5 Unit: MI

## CORN PREEMERGENCE II

Trial ID: C9002  
Location:Study Dir.:  
Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-29-99	5-28-99				
Time of Day:	10:00 AM	11:00 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	10" CORN				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	66 F	84 F				
% Relative Humidity:	90	86				
Wind Velocity, Unit:	2 MPH	2 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	62 F	75 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	50	45				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		10" C				
		6-8 LF				
		10 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		4 LVS				
		6 IN				
XANST		4-5 LVS				
		4 IN				
ABUTH		4 LVS				
		6 IN				

CORN PREEMERGENCE II

Trial ID: C9002

Study Dir.:

Location:

Investigator: 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	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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Weed Science Field Research

CORN PREEMERGENCE III

Trial ID: C9034  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Crop Code										
Part Rated										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE
1	BALANCE	75	WG	.07	LB A/A	PRE	0	77	12	27	28	0	77	18	45	37
1	DK 636															
2	BALANCE	75	WG	.094	LB A/A	PRE	0	83	20	17	17	0	88	83	65	55
2	DK 636															
3	BALANCE	75	WG	.094	LB A/A	PRE	0	85	48	62	52	0	80	43	37	30
3	AATREX	4	F	1.5	LB A/A	PRE										
3	DK 636															
4	BALANCE	75	WG	.094	LB A/A	PRE	0	85	68	82	72	0	95	87	92	75
4	HARNES XTRA	5.6	EC	1.75	LB A/A	PRE										
4	AATREX	4	F	.75	LB A/A	PRE										
4	DK 636															
5	BALANCE	75	WG	.07	LB A/A	PRE	0	92	82	88	77	0	95	62	67	58
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP										
5	DK 636															
6	BALANCE	75	WG	.07	LB A/A	PRE	0	92	85	92	78	0	95	92	95	70
6	AATREX	4	F	1.5	LB A/A	PRE										
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP										
6	DK 636															
7	BALANCE	75	WG	.07	LB A/A	PRE	0	92	88	85	82	0	88	83	93	73
7	LIBERTY	1.67	E	.21	LB A/A	MP										
7	AMS	100	SG	17	LB/100 GAL	MP										
7	GARST 8481															

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CORN PREEMERGENCE III

Trial ID: C9034  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE
Crop Code										
Part Rated										
Rating Data Type										
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE
8	BALANCE	75	WG	.07	LB A/A	PRE	0	95	92	92	83	0	93	87	85	72
8	LIBERTY	1.67	E	.26	LB A/A	MP										
8	AMS	100	SG	17	LB/100 GAL	MP										
8	GARST 8481															
9	BALANCE	75	WG	.07	LB A/A	PRE	0	92	88	88	83	0	92	80	87	73
9	LIBERTY	1.67	E	.36	LB A/A	MP										
9	AMS	100	SG	17	LB/100 GAL	MP										
9	GARST 8481															
10	BALANCE	75	WG	.094	LB A/A	PRE	0	95	92	95	85	0	95	93	95	80
10	LIBERTY	1.67	E	.21	LB A/A	MP										
10	AMS	100	SG	17	LB/100 GAL	MP										
10	GARST 8481															
11	BALANCE	75	WG	.094	LB A/A	PRE	0	95	90	92	82	0	95	93	88	80
11	LIBERTY	1.67	E	.26	LB A/A	MP										
11	AMS	100	SG	17	LB/100 GAL	MP										
11	GARST 8481															
12	BALANCE	75	WG	.094	LB A/A	PRE	0	95	93	95	88	0	92	83	92	82
12	LIBERTY	1.67	E	.36	LB A/A	MP										
12	AMS	100	SG	17	LB/100 GAL	MP										
12	GARST 8481															
13	BALANCE	75	WG	.07	LB A/A	PRE	0	95	95	95	88	0	93	88	93	83
13	AATREX	4	F	1.5	LB A/A	MP										
13	LIBERTY	1.67	E	.21	LB A/A	MP										
13	AMS	100	SG	17	LB/100 GAL	MP										
13	GARST 8481															



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

Trial ID: C9034  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
14	BALANCE	75	WG	.07	LB A/A	PRE	0	88	73	77	75	0	93	85	82	70
14	LIGHTNING	70	DG	.028	LB A/A	MP										
14	AMS	100	SG	17	LB/100 GAL	MP										
14	COC		L	1	QT/A	MP										
14	GARST 8481															
15	BALANCE	75	WG	.07	LB A/A	PRE	0	92	77	85	82	0	95	87	92	78
15	LIGHTNING	70	DG	.056	LB A/A	MP										
15	AMS	100	SG	17	LB/100 GAL	MP										
15	COC		L	1	QT/A	MP										
15	GARST 8481															
16	BALANCE	75	WG	.07	LB A/A	PRE	0	95	88	95	85	0	87	82	78	72
16	AATREX	4	F	1.5	LB A/A	PRE										
16	LIGHTNING	70	DG	.056	LB A/A	MP										
16	AMS	100	SG	17	LB/100 GAL	MP										
16	COC		L	1	QT/A	MP										
16	GARST 8481															
17	BALANCE	75	WG	.07	LB A/A	PRE	0	67	10	20	20	0	70	10	15	25
17	GARST 8481															
18	BALANCE	75	WG	.094	LB A/A	PRE	0	80	28	18	22	0	87	87	87	83
18	GARST 8481															
19	BALANCE	75	WG	.07	LB A/A	PRE	0	83	45	62	62	0	85	55	55	58
19	AATREX	4	F	1.5	LB A/A	PRE										
19	GARST 8481															

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

CORN PREEMERGENCE III

Trial ID: C9034  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE	ZEAMX	SETFA	AMBTR	CHEAL	IPOHE
20	BALANCE	75	WG	.07	LB A/A	PRE	0	92	57	82	73	0	87	72	75	65
20	HARNESS	7	EC	.875	LB A/A	PRE										
20	AATREX	4	F	1.5	LB A/A	PRE										
20	GARST 8481															
LSD (P=.05)							0.0	6.3	19.2	18.6	17.1	0.3	8.1	22.3	32.0	28.4
Standard Deviation							0.0	3.8	11.7	11.3	10.4	0.2	4.9	13.5	19.4	17.2
CV							0.0	4.33	17.52	15.6	15.56	533.11	5.52	18.38	25.56	26.05

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

CORN PREEMERGENCE III

Trial ID: C9034                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack                      Postal Code: 40546  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack

Trial Status: COMPLETE                      Initiation Date: 4-30-99                      Country: USA  
City: Lexington                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.AMBTR GIANT RAGWEED                      2.IPOSP MORNINGGLORY SPECIES  
Weed 3.CHEAL COMMON LAMBSQUARTERS                      4.SETFA GIANT RAGWEED

Crop 1:ZEAMX CORN                      Variety: GARST 8481 G-STAC                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 27000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 65                      Soil Moisture: NORMAL

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

## CORN PREEMERGENCE III

Trial ID: C9034  
Location: LEXINGTON, KY.Study Dir.:  
Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-24-99				
Time of Day:	10:30 AM	2:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	69 F	65 F				
% Relative Humidity:	70	87				
Wind Velocity, Unit:	3 MPH	2 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	67	68				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	45	25				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP				
		3-4 LVS				
		8 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMBTR		MP				
		4-6 LVS				

## 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				
Propellant:	CO2	CO2				

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Weed Science Field Research

CORN POSTEMERGENCE

Trial ID: C9003

Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
1	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	13	100	90	85	90	0	100	83	73	87
1	AIM	40	DF	.008	LB A/A	MP										
1	INDUCE			.25	% V/V	MP										
2	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	17	100	95	98	99	0	100	92	98	99
2	AIM	40	DF	.008	LB A/A	MP										
2	AATREX	4	F	.75	LB A/A	MP										
2	INDUCE			.25	% V/V	MP										
3	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	13	100	98	96	98	0	100	98	96	98
3	AIM	40	DF	.008	LB A/A	MP										
3	CLARITY	4	E	.25	LB A/A	MP										
3	INDUCE			.25	% V/V	MP										
4	AIM	40	DF	.008	LB A/A	MP	10	100	90	90	93	0	100	83	75	92
4	ACCENT	75	WG	.031	LB A/A	MP										
4	INDUCE			.25	% V/V	MP										
4	LIQUID N		L	2	QT/A	MP										
5	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	10	100	95	88	95	0	100	95	70	95
5	AIM	40	DF	.008	LB A/A	MP										
5	BEACON	75	DF	.018	LB A/A	MP										
5	INDUCE			.25	% V/V	MP										
6	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	17	100	98	98	99	0	100	98	98	99
6	AIM	40	DF	.008	LB A/A	MP										
6	MARKSMAN	3.2	F	.8	LB A/A	MP										
6	INDUCE			.25	% V/V	MP										

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

CORN POSTEMERGENCE

Trial ID: C9003  
Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code		SETFA	XANST	CHEAL	AMACH		SETFA	XANST	CHEAL	AMACH
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEKS	2WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
7	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	10	100	92	88	93	0	100	92	82	93
7	AIM	40	DF	.008	LB A/A	MP										
7	HORNET	85.6	WG	.128	LB A/A	MP										
7	INDUCE			.25	% V/V	MP										
8	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	10	100	93	88	93	0	100	93	78	93
8	AIM	40	DF	.008	LB A/A	MP										
8	EXCEED	57	DF	.036	LB A/A	MP										
8	INDUCE			.25	% V/V	MP										
8	LIQUID N		L	2	QT/A	MP										
9	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	10	100	95	92	95	0	100	95	78	95
9	AIM	40	DF	.008	LB A/A	MP										
9	SPIRIT	57	WG	.036	LB A/A	MP										
9	INDUCE			.25	% V/V	MP										
9	LIQUID N		L	2	QT/A	MP										
10	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	10	100	93	92	96	0	100	93	92	96
10	AIM	40	DF	.008	LB A/A	MP										
10	NORTHSTAR	47.4	WG	.148	LB A/A	MP										
10	INDUCE			.25	% V/V	MP										
11	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	10	100	90	88	95	0	100	90	82	95
11	AIM	40	DF	.008	LB A/A	MP										
11	LIGHTNING	70	DG	.056	LB A/A	MP										
11	INDUCE			.25	% V/V	MP										
11	LIQUID N		L	2	QT/A	MP										
12	ICIA5676/ZA1296	3.5	CS	1.969	LB A/A	PRE	0	100	82	93	95	0	100	47	72	95

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CORN POSTEMERGENCE

Trial ID: C9003

Study Dir.:

Location:

Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	2 WEEKS	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	0	100	78	91	95	0	100	50	81	86
13	ICIA5676/ZAI296	3.5	CS	2.188	LB A/A	PRE	0	100	78	91	95	0	100	50	81	86
14	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	100	93	98	98	0	100	90	98	98
14	ZAI296	4	SC	.095	LB A/A	7C										
14	COC		L	1	QT/A	7C										
14	LIQUID N		L	2.5	QT/A	7C										
15	TOPNOTCH	3.2	CS	3	LB A/A	PRE	0	100	96	99	99	0	100	96	99	99
15	ZAI296	4	SC	.095	LB A/A	7C										
15	COC		L	1	QT/A	7C										
15	LIQUID N		L	2.5	QT/A	7C										
16	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	100	93	96	96	0	100	93	95	96
16	ZAI296	4	SC	.095	LB A/A	7C										
16	AATREX	4	F	.25	LB A/A	7C										
16	COC		L	1	QT/A	7C										
16	LIQUID N		L	2.5	QT/A	7C										
17	DUAL II MAGNUM	7.6	EC	1.3	LB A/A	PRE	0	100	99	99	99	0	100	99	99	99
17	MARKSMAN	3.2	F	1.4	LB A/A	7C										
17	COC		L	1	QT/A	7C										
LSD (P=.05)							4.7	0.0	5.5	5.0	3.8	0.0	0.0	16.9	16.1	5.8
Standard Deviation							2.8	0.0	3.3	3.0	2.3	0.0	0.0	10.1	9.6	3.5
CV							36.91	0.0	3.6	3.21	2.35	0.0	0.0	11.56	11.17	3.63

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

CORN POSTEMERGENCE

Trial ID: C9003

Study Dir.:

Location:

Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

Study Director: CHARLES H. SLACK

Affiliation: UNIVERSITY OF KENTUCKY

Postal Code: 40546

Investigator: Charles H. Slack

Affiliation: UNIVERSTIY OF KENTUCKY

Postal Code: 40546

Trial Status: COMPLETE

Initiation Date: 4-30-99

Country: USA

City: LEXINGTON

State/Prov.: KY

Postal Code: 40546

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

**CROP AND PEST DESCRIPTION**

Weed 1.SEFTA GIANT FOXTAIL 2.XANST COMMON COCKLEBUR

Weed 3.CHEAL COMMON LAMBSQUARTERS 4.AMACH SMOONT PIGWEED

Crop 1:ZEAMX FIELD CORN Variety: GARST 8481IT Planting Date: 4-30-99

Planting Method: ROWS Rate: 25000 SEED/AC Depth: 1.5 IN

Row Spacing: 30 IN Seed Bed: SMOOTH

Soil Temperature: 58 F Soil Moisture: SLIGHTLY WET Emergence Date: 5-7-99

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: 3.3 % Sand: 6.7 % Silt: 63 % Clay: 30

pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: SLIGHTLY WET-DRY-DRY

Closest Weather Station: SPINDLETOP FARM

Distance: 2

Unit: MI



## CORN POSTEMERGENCE

Trial ID: C9003

Study Dir.:

Location:

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-24-99	5-24-99			
Time of Day:	3PM	2PM	2:30PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	7C			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	69 F	65 F	65 F			
% Relative Humidity:	30	44	44			
Wind Velocity, Unit:	5 MPH	8 MPH	8 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	58 F	72 F	72 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	20	20	20			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		7 LVS	7 LVS			
		8	8			
		IN 6LF	IN 18			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SEFTA		MP	7C			
		2 LVS	2 LVS			
		2 IN	2 IN			
XANST		5 LF	5LF			
		8 IN	8 IN			
CHEAL		5 LVS	5 LVS			
		3 IN	3 IN			
AMACH		6 LVS	6 LVS			
		3 IN	3 IN			

CORN POSTEMERGENCE

Trial ID: C9003  
Location:

Study Dir.:  
Investigator: Charles H. Slack

	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN			
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					
Spray Volume, Unit:	24	GPA				
Propellant:	CO2					

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

CORN POSTEMGERENCE II

Trial ID: C9014  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	SETFA	CHEAL	XANST	SETFA	CHEAL	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							
Crop Stage							
Crop Stage Scale							
Weed Stage							
Weed Density, Unit							
Footnote Number							
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 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 Conc	Form Type	Rate	Rate Unit	Grow Stg								
1	LIGHTNING	70	DG	.056	LB A/A	LP	0	90	83	83	0	85	80	82
1	INDUCE			.25	% V/V	LP								
1	LIQUID N		L	1	QT/A	LP								
2	LIGHTNING	70	DG	.056	LB A/A	LP	0	88	83	83	0	85	77	85
2	COC		L	1	QT/A	LP								
2	LIQUID N		L	1	QT/A	LP								
3	LIGHTNING	70	DG	.056	LB A/A	LP	0	95	95	95	0	87	88	95
3	AATREX	4	F	1	LB A/A	LP								
3	COC		L	1	QT/A	LP								
3	LIQUID N		L	1	QT/A	LP								
4	PROWL	3.3	EC	1	LB A/A	PRE	0	95	95	92	0	92	95	92
4	AATREX	4	F	1	LB A/A	PRE								
4	LIGHTNING	70	DG	.056	LB A/A	LP								
4	COC		L	1	QT/A	LP								
4	LIQUID N		L	1	QT/A	LP								
5	PROWL	3.3	EC	1	LB A/A	PRE	0	95	95	95	0	92	92	95
5	LIGHTNING	70	DG	.056	LB A/A	LP								
5	AATREX	4	F	1	LB A/A	LP								
5	COC		L	1	QT/A	LP								
5	LIQUID N		L	1	QT/A	LP								
6	PROWL	3.3	EC	1	LB A/A	PRE	0	87	73	68	0	83	67	65
6	AATREX	4	F	1	LB A/A	PRE								
6	ACCENT	75	WG	.023	LB A/A	LP								
6	INDUCE			.25	% V/V	LP								
6	LIQUID N		L	1	QT/A	LP								

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

CORN POSTEMGERENCE II

Trial ID: C9014  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Seed Code	ZEAMX	SETFA	CHEAL	XANST	ZEAMX	SETFA	CHEAL	XANST
Drop 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								
Drop Stage								
Drop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Prt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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

Prt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
7	LIGHTNING	70	DG	.056	LB A/A	LP	0	92	92	93	0	90	83	92
7	DISTINCT	70	WG	.13	LB A/A	LP								
7	INDUCE			.25	% V/V	LP								
7	LIQUID N		L	1	QT/A	LP								
8	FRONTIER	6	E	.78	LB A/A	PRE	0	95	95	95	0	95	90	92
8	DISTINCT	70	WG	.26	LB A/A	LP								
8	INDUCE			.25	% V/V	LP								
8	LIQUID N		L	1	QT/A	LP								
9	BALANCE	75	WG	.07	LB A/A	PRE	0	95	92	85	0	93	82	88
9	LIGHTNING	70	DG	.056	LB A/A	LP								
9	COC		L	1	QT/A	LP								
9	LIQUID N		L	1	QT/A	LP								
10	PROWL	3.3	EC	1	LB A/A	PRE	0	95	95	95	0	92	90	93
10	AATREX	4	F	1	LB A/A	PRE								
10	LIGHTNING	70	DG	.056	LB A/A	LP								
10	AATREX	4	F	1	LB A/A	LP								
10	COC		L	1	QT/A	LP								
10	LIQUID N		L	1	QT/A	LP								
11	AXIOM	68	DF	.72	LB A/A	PRE	0	95	90	92	0	93	83	90
11	LIGHTNING	70	DG	.056	LB A/A	LP								
11	COC		L	1	QT/A	LP								
11	LIQUID N		L	1	QT/A	LP								

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

CORN POSTEMGERENCE II

Trial ID: C9014  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	XANST	ZEAMX	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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
12	AXIOM	68	DF	.72	LB A/A	PRE	0	17	8	8	0	17	5	5
12	HORNET	85.6	WG	.128	LB A/A	12C								
12	INDUCE			.25	% V/V	12C								
12	LIQUID N		L	1	QT/A	12C								
13	AXIOM	68	DF	.72	LB A/A	PRE	0	93	93	90	0	88	88	92
13	AATREX	4	F	2	LB A/A	12C								
13	COC		L	1	QT/A	12C								
14	CHECK UNTREATED						0	0	0	0	0	0	0	0
	LSD (P=.05)						0.0	14.9	12.3	12.0	0.0	17.2	13.1	11.2
	Standard Deviation						0.0	8.9	7.3	7.1	0.0	10.3	7.8	6.7
	CV						0.0	10.99	9.43	9.29	0.0	13.16	10.7	8.77

CORN POSTEMGERENCE II

Trial ID: C9014                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 4-30-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.CHEAL COMMON LAMBSQUARTERS  
Weed 3.XANST COMMON COCKLEBUR  
Crop 1:ZEAMX CORN                      Variety: GARST 8541IT                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 26000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 67 F                      Soil Moisture: ADEQUATE                      Emergence Date: 5-2-99

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

CORN POSTEMGERENCE II

Trial ID: C9014  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	4-30-99	5-24-99	6-2-99			
Time of Day:	10:00 AM	2:00 PM	4:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	LP	12" CORN			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	66 F	78 F	82 F			
% Relative Humidity:	66	87	95			
Wind Velocity, Unit:	3 MPH	2 MPH	3 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	67 F	68 F	75 F			
Soil Moisture:	ADEQUATE	ADEQUATE	POOR			
% Cloud Cover:	35	45	25			

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
ZEAMX		LP	12" CORN			
		9 IN	12 IN			

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
Weed 1 SETFA Stage:	LP	12" CORN				
Stage Scale:	4" 5LF	5" 6LF				
Weed 2 CHEAL Stage:	LP	12" CORN				
Stage Scale:	4" 8LF	12" 16LF				
Weed 3 XANST Stage:	LP	12" CORN				
Density, Unit:	5" 6LF	12" 6LF				

## CORN POSTEMGERENCE II

Trial ID: C9014

Study Dir.:

Location: LEXINGTON, KY.

Investigator: 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	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			
Propellant:	CO2	CO2	CO2			



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

Trial ID: C9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
1	LEADOFF	5	CS	.94	LB A/A	PRE	0	93	88	93	96	0	93	88	93	96
1	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
1	LIQUID N		L	2	QT/A	LP										
1	COC		L	1	QT/A	LP										
2	LEADOFF	5	CS	1.25	LB A/A	PRE	0	98	90	98	98	0	98	90	98	98
2	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
2	LIQUID N		L	2	QT/A	LP										
2	COC		L	1	QT/A	LP										
3	AXIOM	68	DF	.18	LB A/A	PRE	0	91	83	93	95	0	91	80	93	95
3	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
3	LIQUID N		L	2	QT/A	LP										
3	COC		L	1	QT/A	LP										
4	AXIOM	68	DF	.26	LB A/A	PRE	0	96	80	93	96	0	96	80	93	96
4	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
4	LIQUID N		L	2	QT/A	LP										
4	COC		L	1	QT/A	LP										
5	BALANCE	75	WG	.018	LB A/A	PRE	0	87	87	93	93	0	90	85	93	93
5	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
5	LIQUID N		L	2	QT/A	LP										
5	COC		L	1	QT/A	LP										
6	BALANCE	75	WG	.035	LB A/A	PRE	0	85	95	95	96	0	88	95	95	96
6	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
6	LIQUID N		L	2	QT/A	LP										
6	COC		L	1	QT/A	LP										

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CORN POSTEMERGENCE III

Trial ID: C9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
7	BALANCE	75	WG	.018	LB A/A	PRE	0	96	88	95	95	0	96	85	95	95
7	LEADOFF	5	CS	.94	LB A/A	PRE										
7	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
7	LIQUID N		L	2	QT/A	LP										
7	COC		L	1	QT/A	LP										
8	BALANCE	75	WG	.035	LB A/A	PRE	0	93	92	98	98	0	93	92	98	98
8	LEADOFF	5	CS	.94	LB A/A	PRE										
8	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
8	LIQUID N		L	2	QT/A	LP										
8	COC		L	1	QT/A	LP										
9	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	90	90	93	96	0	88	87	93	96
9	LIQUID N		L	2	QT/A	LP										
9	COC		L	1	QT/A	LP										
10	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	50	96	96	98	0	67	96	96	98
10	MARKSMAN	3.2	F	.4	LB A/A	LP										
10	LIQUID N		L	2	QT/A	LP										
10	COC		L	1	QT/A	LP										
11	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	60	93	96	96	0	67	93	96	96
11	AATREX	4	F	.45	LB A/A	LP										
11	LIQUID N		L	2	QT/A	LP										
11	COC		L	1	QT/A	LP										
12	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	77	95	98	98	0	83	95	98	98
12	DISTINCT	70	WG	.09	LB A/A	LP										
12	LIQUID N		L	2	QT/A	LP										
12	INDUCE			.25	% V/V	LP										

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CORN POSTEMERGENCE III

Trial ID: C9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
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
2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
P	P	P	P	P	P	P	P	P	P	P
0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
13	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	47	98	98	98	0	63	98	98
13	DISTINCT	70	WG	.18	LB A/A	LP									
13	LIQUID N		L	2	QT/A	LP									
13	INDUCE			.25	% V/V	LP									
14	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	82	98	98	98	0	85	98	98
14	CLARITY	4	E	.25	LB A/A	LP									
14	LIQUID N		L	2	QT/A	LP									
14	INDUCE			.25	% V/V	LP									
15	BASIS GOLD	89.5	DF	.79	LB A/A	LP	0	90	99	99	99	0	87	99	99
15	CLARITY	4	E	.5	LB A/A	LP									
15	LIQUID N		L	2	QT/A	LP									
15	INDUCE			.25	% V/V	LP									
16	BASIS GOLD	89.5	DF	.79	LB A/A	LP	7	92	82	88	93	0	87	78	90
16	AIM	40	DF	.002	LB A/A	LP									
16	LIQUID N		L	2	QT/A	LP									
16	INDUCE			.25	% V/V	LP									
17	BASIS GOLD	89.5	DF	.79	LB A/A	LP	3	88	93	95	96	0	83	91	95
17	AIM	40	DF	.003	LB A/A	LP									
17	LIQUID N		L	2	QT/A	LP									
17	INDUCE			.25	% V/V	LP									
18	SURPASS	6.4	EC	.8	LB A/A	PRE	0	99	88	92	95	0	95	87	92
18	BASIS GOLD	89.5	DF	.79	LB A/A	LP									
18	LIQUID N		L	2	QT/A	LP									
18	COC		L	1	QT/A	LP									

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CORN POSTEMERGENCE III

Trial ID: C9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
19	SURPASS	6.4	EC	1.2	LB A/A	PRE	0	99	93	98	98	0	99	92	98	98
19	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
19	LIQUID N		L	2	QT/A	LP										
19	COC		L	1	QT/A	LP										
20	LEADOFF	5	CS	2.8	LB A/A	PRE	0	96	67	87	87	0	96	50	90	90
21	LEADOFF	5	CS	2.8	LB A/A	PRE	0	99	63	92	95	0	99	50	92	95
21	BALANCE	75	WG	.05	LB A/A	PRE										
22	LEADOFF	5	CS	1.25	LB A/A	PRE	0	98	93	96	98	0	95	93	96	98
22	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
22	HORNET	85.6	WG	.08	LB A/A	LP										
22	COC		L	1	QT/A	LP										
22	AMS	100	SG	2	LB/A	LP										
23	LEADOFF	5	CS	1.25	LB A/A	PRE	0	98	96	99	99	0	98	96	99	99
23	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
23	SPIRIT	57	WG	.018	LB A/A	LP										
23	COC		L	1	QT/A	LP										
23	AMS	100	SG	2	LB/A	LP										
24	LEADOFF	5	CS	1.25	LB A/A	PRE	0	99	99	99	99	0	96	99	99	99
24	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
24	DISTINCT	70	WG	.175	LB A/A	LP										
24	COC		L	1	QT/A	LP										
24	AMS	100	SG	2	LB/A	LP										

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CORN POSTEMERGENCE III

Trial ID: C9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	DATST	ZEAMX	SETFA	XANST	CHEAL	DATST
25	AATREX	4	F	1.5	LB A/A	PRE	0	96	96	99	99	0	96	93	99	99
25	BASIS GOLD	89.5	DF	.79	LB A/A	LP										
25	ACCENT	75	WG	.012	LB A/A	LP										
25	COC		L	1	QT/A	LP										
25	AMS	100	SG	2	LB/A	LP										
LSD (P=.05)				2.7				13.5	8.3	4.7	3.9	0.0	14.0	7.7	4.3	3.7
Standard Deviation				1.6				8.2	5.1	2.8	2.4	0.0	8.5	4.7	2.6	2.3
CV				403.97				9.34	5.63	2.99	2.46	0.0	9.54	5.35	2.74	2.34



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## CORN POSTEMERGENCE III

Trial ID: C9015

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-24-99				
Time of Day:	2PM	1PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	69 F	65 F				
% Relative Humidity:	30	44				
Wind Velocity, Unit:	5 MPH	8 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	58 F	72 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	20				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		LP 9 LVS 9 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		LP 6 LVS 6 IN				
XANST		6 LVS 3 IN				
CHEAL		4LVS 3 IN				
DATST		4LVS 4.5 IN				

## CORN POSTEMERGENCE III

Trial ID: C9015

Study Dir.:

Location: LEXINGTON, KY.

Investigator: 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:	8004DG	8004DG				
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

CORN POSTEMERGENCE IV

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
1	ICIA5676/ZA1296	3.5	CS	1.969	LB A/A	PRE	0	99	88	98	98	0	99	82	96	98
2	ICIA5676/ZA1296	3.5	CS	2.188	LB A/A	PRE	0	99	92	96	98	0	99	90	93	98
3	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	99	96	99	99	0	99	96	99	99
3	ZA1296	4	SC	.095	LB A/A	7C										
3	COC		L	1	QT/A	7C										
3	LIQUID N		L	2.5	QT/A	7C										
4	TOPNOTCH	3.2	CS	3	LB A/A	PRE	0	99	96	96	99	0	99	96	96	99
4	ZA1296	4	SC	.095	LB A/A	7C										
4	COC		L	1	QT/A	7C										
4	LIQUID N		L	2.5	QT/A	7C										
5	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	99	99	99	99	0	99	99	99	99
5	ZA1296	4	SC	.095	LB A/A	7C										
5	AATREX	4	F	.25	LB A/A	7C										
5	COC		L	1	QT/A	7C										
5	LIQUID N		L	2.5	QT/A	7C										
6	DUAL II MAGNUM	7.6	EC	1.3	LB A/A	PRE	0	99	96	99	99	0	99	96	99	99
6	MARKSMAN	3.2	F	1.4	LB A/A	7C										
6	COC		L	1	QT/A	7C										
7	FULTIME	4	CS	3	LB A/A	PRE	0	96	90	95	95	0	93	80	95	95
7	ATRAZINE	4	F	.3	LB A/A	PRE										
8	FULTIME	4	CS	3	LB A/A	PRE	0	99	98	99	99	0	99	98	99	99
8	EXCEED	57	DF	.036	LB A/A	7C										
8	COC		L	1	QT/A	7C										

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

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH	
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
9	FULTIME	4	CS	3	LB A/A	PRE	0	96	90	96	96	0	96	87	96
9	BALANCE	75	WG	.07	LB A/A	PRE									
10	BICEP II MAGNUM	5.5	L	2.85	LB A/A	PRE	0	96	90	93	95	0	96	83	93
11	HARNESS XTRA	5.6	EC	3.36	LB A/A	PRE	0	99	90	96	99	0	99	85	96
12	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	99	93	96	96	0	99	93	96
13	PROWL	3.3	EC	1	LB A/A	PRE	0	98	90	96	96	0	98	87	96
13	ATRAZINE	4	F	1.5	LB A/A	PRE									
13	ACCENT	75	WG	.016	LB A/A	2LC									
13	COC		L	1	QT/A	2LC									
13	LIQUID N		L	2	QT/A	2LC									
14	PROWL	3.3	EC	1	LB A/A	PRE	0	98	92	95	96	0	98	92	95
14	ATRAZINE	4	F	1.5	LB A/A	PRE									
14	ACCENT	75	WG	.016	LB A/A	4LC									
14	COC		L	1	QT/A	4LC									
14	LIQUID N		L	2	QT/A	4LC									
15	PROWL	3.3	EC	1	LB A/A	4LC	0	90	90	85	90	0	53	93	82
15	HORNET	85.6	WG	.12	LB A/A	4LC									
15	COC		L	1	QT/A	4LC									
15	LIQUID N		L	2	QT/A	4LC									

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

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
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
Crop Code										
Part Rated										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
16	PROWL	3.3	EC	1	LB A/A	4LC	0	99	93	87	93	0	99	93	85	93
16	SPIRIT	57	WG	.035	LB A/A	4LC										
16	ACCENT	75	WG	.016	LB A/A	4LC										
16	COC		L	1	QT/A	4LC										
16	LIQUID N		L	2	QT/A	4LC										
17	PROWL	3.3	EC	1	LB A/A	4LC	0	98	96	99	99	0	98	96	99	99
17	ATRAZINE	4	F	1.5	LB A/A	4LC										
17	ACCENT GOLD	75	DF	.023	LB A/A	4LC										
17	COC		L	1	QT/A	4LC										
17	LIQUID N		L	2	QT/A	4LC										
18	PROWL	3.3	EC	1	LB A/A	PRE	0	99	90	95	95	0	99	83	95	95
18	ATRAZINE	4	F	1.5	LB A/A	PRE										
19	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	96	93	96	96	0	96	93	96	96
19	HORNET	85.6	WG	.086	LB A/A	10C										
19	COC		L	1	QT/A	10C										
20	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	98	94	98	98	0	98	94	98	98
20	HORNET	85.6	WG	.086	LB A/A	10C										
20	AATREX	4	F	1.25	LB A/A	10C										
20	COC		L	1	QT/A	10C										
21	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	99	93	98	98	0	99	88	98	98
21	PYTHON	80	WG	.05	LB A/A	PRE										
22	E9636	25	DF	.03	LB A/A	PRE	0	96	93	95	96	0	96	93	95	96
22	FLUFEMACET	60	DF	.45	LB A/A	PRE										
22	CLARITY	4	E	.25	LB A/A	10C										

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

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Part Rated										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
23	E9636	25	DF	.01	LB A/A	PRE	0	98	96	75	63	0	95	96	58	63
23	FLUFEMACET	60	DF	.15	LB A/A	PRE										
23	ACCENT GOLD	75	DF	.023	LB A/A	10C										
23	HORNET	85.6	WG	.128	LB A/A	10C										
23	COC		L	1	QT/A	10C										
23	LIQUID N		L	2	QT/A	10C										
24	EPIC	58	DF	.453	LB A/A	PRE	0	99	98	99	99	0	99	98	99	99
24	CLARITY	4	E	.25	LB A/A	10C										
24	INDUCE			.25	% V/V	10C										
25	SURPASS	6.4	EC	1.5	LB A/A	PRE	0	98	93	98	98	0	98	93	98	98
25	CLARITY	4	E	.25	LB A/A	10C										
25	INDUCE			.25	% V/V	10C										
26	FRONTIER	6	E	.78	LB A/A	PRE	0	98	92	92	95	0	98	92	92	95
26	DISTINCT	70	WG	.26	LB A/A	10C										
26	INDUCE			.25	% V/V	10C										
27	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	99	98	99	99	0	99	98	99	99
27	EXCEED	57	DF	.036	LB A/A	10C										
27	INDUCE			.25	% V/V	10C										
27	LIQUID N		L	2	QT/A	10C										
28	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	99	99	99	99	0	99	99	99	99
28	SPIRIT	57	WG	.036	LB A/A	10C										
28	INDUCE			.25	% V/V	10C										
28	LIQUID N		L	2	QT/A	10C										

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

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
29	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	98	95	98	98	0	98	95	98	98
29	BEACON	75	DF	.018	LB A/A	10C										
29	INDUCE			.25	% V/V	10C										
29	LIQUID N		L	2	QT/A	10C										
30	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	98	96	98	98	0	98	96	98	98
30	LIGHTNING	70	DG	.056	LB A/A	10C										
30	INDUCE			.25	% V/V	10C										
30	LIQUID N		L	2	QT/A	10C										
31	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	95	96	98	98	0	95	96	98	98
31	HORNET	85.6	WG	.128	LB A/A	10C										
31	INDUCE			.25	% V/V	10C										
31	LIQUID N		L	2	QT/A	10C										
32	EXCEED	57	DF	.036	LB A/A	10C	0	95	93	82	92	0	88	93	72	92
32	ACCENT	75	WG	.016	LB A/A	10C										
32	INDUCE			.25	% V/V	10C										
32	LIQUID N		L	2	QT/A	10C										
33	SPIRIT	57	WG	.036	LB A/A	10C	0	95	93	85	92	0	88	93	82	92
33	ACCENT	75	WG	.016	LB A/A	10C										
33	INDUCE			.25	% V/V	10C										
33	LIQUID N		L	2	QT/A	10C										
34	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0
ISD (P=.05)							0.0	3.1	5.1	9.3	15.4	0.0	14.1	8.2	14.8	16.4
Standard Deviation							0.0	1.9	3.1	5.7	9.4	0.0	8.6	5.0	9.1	10.0
CV							0.0	2.02	3.4	6.19	10.14	0.0	9.29	5.6	10.0	10.83

CORN POSTEMERGENCE IV

Trial ID: C9018                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSTIY OF KENTUCKY                      Postal Code: 40546  
Investigator: Charles H. Slack  
Affiliation: UNIVERSITY OF KENTUCKY                      Postal Code: 40546

Trial Status: COMPLETE                      Initiation Date: 4-30-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA GIANT FOXTAIL                      2.XANST COMMON COCKLEBUR  
Weed 3.CHEAL COMMON LAMBSQUARTER                      4.AMACH SMOOTH PIGWEED

Crop 1:ZEAMX FIELD CORN                      Variety: GARST 8541 IT                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 26000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 58 F                      Soil Moisture: SLIGHTLY WET

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: SLIGHTLY WET-DRY-DRY  
Closest Weather Station: SPINDLETOP                      Distance: 2                      Unit: MI

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## CORN POSTEMERGENCE IV

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-14-99	5-25-99	5-27-99	5-29-99	
Time of Day:	3 PM	11 AM	3 PM	1PM	3 PM	
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	
Application Timing:	PRE	2 LC	4 LC	7 C	10 C	
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	
Air Temp., Unit:	69 F	73 F	70 F	76 F	84 F	
% Relative Humidity:	30	64	33	30	35	
Wind Velocity, Unit:	5 MPH	2 MPH	5 MPH	1 MPH	3 MPH	
Dew Presence (Y/N):	N	N	N	N	N	
Soil Temp., Unit:	58 F	72 F	72 F	76 F	80 F	
% Cloud Cover:	20	20	20	20	20	

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		2 LC	4 LC	7 C	10 C	
		2 LVS	4 LVS	4 LVS	5LVS	
		2 IN	7 IN	7 IN	10 IN	

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage: PRE		2 LC	4 LC	7 C	10 C	
		2 LVS	5 LF	5 LVS	6 LVS	
		1 IN	3 IN	3 IN	3 IN	
XANST		4 LVS	8 LVS	8 LVS	12 LVS	
		1 IN	2 IN	3 IN	4 IN	
CHEAL		1 LVS	3 LVS	5 LVS	7 LVS	
		1 IN	1.5 IN	2 IN	3 IN	
AMACH		2LVS	3 LVS	3 LVS	5 LVS	
		1 IN	3 IN	3 IN	4 IN	

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

## CORN POSTEMERGENCE IV

Trial ID: C9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

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



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CORN POSTEMERGENCE V

Trial ID: C9016  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code		SETFA	CHEAL	XANST		SETFA	CHEAL	XANST
Crop Code	ZEAMX				ZEAMX			
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
1	FRONTIER	6	E	.78	LB A/A	PRE	3	76	84	59	3	75	80	59
1	DISTINCT	70	WG	.13	LB A/A	10C								
1	INDUCE			.25	% V/V	10C								
1	LIQUID N		L	2.5	QT/A	10C								
2	FRONTIER	6	E	.78	LB A/A	PRE	4	74	90	84	4	70	89	84
2	DISTINCT	70	WG	.18	LB A/A	10C								
2	INDUCE			.25	% V/V	10C								
2	LIQUID N		L	2.5	QT/A	10C								
3	FRONTIER	6	E	.78	LB A/A	PRE	5	85	88	88	5	81	88	84
3	DISTINCT	70	WG	.26	LB A/A	10C								
3	INDUCE			.25	% V/V	10C								
3	LIQUID N		L	2.5	QT/A	10C								
4	FRONTIER	6	E	.78	LB A/A	PRE	5	81	76	84	5	83	75	84
4	DISTINCT	70	WG	.13	LB A/A	20C								
4	INDUCE			.25	% V/V	20C								
4	LIQUID N		L	2.5	QT/A	20C								
5	FRONTIER	6	E	.78	LB A/A	PRE	5	74	79	79	5	76	79	75
5	DISTINCT	70	WG	.18	LB A/A	20C								
5	INDUCE			.25	% V/V	20C								
5	LIQUID N		L	2.5	QT/A	20C								
6	GUARDSMAN	5	E	1.87	LB A/A	PRE	24	94	95	94	24	93	88	93
6	CELEBRITY B	69.3	WG	.19	LB A/A	MP								
6	CELEBRITY G	7.5	WG	.024	LB A/A	MP								
6	INDUCE			.25	% V/V	MP								
6	LIQUID N		L	2	QT/A	MP								

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CORN POSTEMERGENCE V

Trial ID: C9016  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	XANST	ZEAMX	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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
7	GUARDSMAN	5	E	1.87	LB A/A	PRE	24	91	95	91	24	88	94	88
7	CELEBRITY B	69.3	WG	.24	LB A/A	MP								
7	CELEBRITY G	7.5	WG	.031	LB A/A	MP								
7	INDUCE			.25	% V/V	MP								
7	LIQUID N		L	2	QT/A	MP								
8	CELEBRITY B	69.3	WG	.19	LB A/A	MP	5	91	89	90	5	90	84	89
8	CELEBRITY G	7.5	WG	.024	LB A/A	MP								
8	INDUCE			.25	% V/V	MP								
8	LIQUID N		L	2	QT/A	MP								
9	CELEBRITY B	69.3	WG	.24	LB A/A	MP	5	91	93	94	5	89	91	89
9	CELEBRITY G	7.5	WG	.031	LB A/A	MP								
9	INDUCE			.25	% V/V	MP								
9	LIQUID N		L	2	QT/A	MP								
10	AATREX	4	F	1	LB A/A	PRE	24	94	95	95	24	91	94	94
10	CELEBRITY B	69.3	WG	.24	LB A/A	MP								
10	CELEBRITY G	7.5	WG	.031	LB A/A	MP								
10	INDUCE			.25	% V/V	MP								
10	LIQUID N		L	2	QT/A	MP								
11	GUARDSMAN	5	E	1.87	LB A/A	PRE	0	90	93	81	0	88	89	81
11	DISTINCT	70	WG	.26	LB A/A	10C								
11	INDUCE			.25	% V/V	10C								
11	LIQUID N		L	2.5	QT/A	10C								
12	GUARDSMAN	5	E	1.87	LB A/A	PRE	0	85	91	83	0	84	91	83
12	CLARITY	4	E	.25	LB A/A	10C								
12	INDUCE			.25	% V/V	10C								

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CORN POSTEMERGENCE V

Trial ID: C9016  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	CHEAL	XANST	ZEAMX	SETFA	CHEAL	XANST
Crop Code	Injury		Control		Injury		Control	
Part Rated	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
13	GUARDSMAN	5	E	2.5	LB A/A	PRE	0	91	94	81	0	91	93	84
13	MARKSMAN	3.2	F	1.4	LB A/A	10C								
13	LIQUID N		L	2	QT/A	10C								
14	GUARDSMAN	5	E	2.5	LB A/A	PRE	0	93	88	93	0	93	88	89
14	DISTINCT	70	WG	.18	LB A/A	20C								
14	INDUCE			.25	% V/V	20C								
14	LIQUID N		L	2.5	QT/A	20C								
15	GUARDSMAN	5	E	1.25	LB A/A	PRE	0	86	88	90	0	85	86	86
15	DISTINCT	70	WG	.26	LB A/A	20C								
15	INDUCE			.25	% V/V	20C								
15	LIQUID N		L	2.5	QT/A	20C								
16	GUARDSMAN	5	E	1.25	LB A/A	PRE	0	93	95	94	0	89	94	91
16	CELEBRITY B	69.3	WG	.24	LB A/A	MP								
16	CELEBRITY G	7.5	WG	.031	LB A/A	MP								
16	INDUCE			.25	% V/V	MP								
16	LIQUID N		L	2	QT/A	MP								
17	FRONTIER	6	E	1.3	LB A/A	PRE	1	70	61	79	1	70	56	80
17	EXCEED	57	DF	.036	LB A/A	10C								
17	COC		L	1	QT/A	10C								
17	LIQUID N		L	1	QT/A	10C								
18	FRONTIER	6	E	1.3	LB A/A	PRE	3	66	16	68	3	66	13	66
18	SPIRIT	57	WG	.036	LB A/A	10C								
18	COC		L	1	QT/A	10C								
18	LIQUID N		L	1	QT/A	10C								

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

CORN POSTEMERGENCE V

Trial ID: C9016  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX		SETFA	CHEAL	XANST	ZEAMX		SETFA	CHEAL	XANST
Crop Code	ZEAMX		SETFA	CHEAL	XANST	ZEAMX		SETFA	CHEAL	XANST
Part Rated	ZEAMX		SETFA	CHEAL	XANST	ZEAMX		SETFA	CHEAL	XANST
Rating Data Type	Injury	Control	Control	Control	Injury	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg
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LSD (P=.05)		23.9	15.1	13.4	12.9	23.9	18.7	13.5	14.6
Standard Deviation		16.9	10.7	9.4	9.1	16.9	13.2	9.5	10.3
CV		286.81	12.62	11.27	10.76	286.81	15.87	11.67	12.42

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

CORN POSTEMERGENCE V

Trial ID: C9016                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

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

Trial Status: COMPLETE                      Initiation Date: 4-30-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

**CROP AND PEST DESCRIPTION**

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

Crop 1:ZEAMX CORN                      Variety: GARST 8541IT                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 25000 S/A                      Depth: 1.5 IN  
                    Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 66 F                      Soil Moisture: ADEQUATE                      Emergence Date: 5-2-99

Plot Width, Unit: 5 FT                      Plot Length, Unit: 33 FT                      Reps: 4  
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

CORN POSTEMERGENCE V

Trial ID: C9016

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-28-99	5-28-99	6-11-99		
Time of Day:	10:00 AM	2:00 PM	11:00 AM	3:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	10" CORN	20" CORN		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	69 F	81 F	81 F	93 F		
% Relative Humidity:	66	87	87	86		
Wind Velocity, Unit:	3 MPH	5 MPH	5 MPH	4 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	67 F	77 F	77 F	85 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	DRY		
% Cloud Cover:	45	25	25	10		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP	10" CORN	20" CORN		
		10 IN	10 IN	20 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	10C	20C		
		5 LVS	8 LVS	10 LVS		
		5 IN	8 IN	18 IN		
CHEAL		10 LVS	15 LVS	20 LVS		
		3 IN	5 IN	10 IN		
XANST		5 LVS	8 LVS	10 LVS		
		3 IN	8 IN	15 IN		

## CORN POSTEMERGENCE V

Trial ID: C9016  
Location: LEXINGTON, KY.Study Dir.:  
Investigator: 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			
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			
Propellant:	CO2		CO2		CO2		CO2			

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Weed Science Field Research

CORN POSTEMERGENCE IT, LIBERTY & ROUNDUP

Trial ID: C9017 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
1	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0
1	GARST 8481															
2	AATREX	4	F	1.5	LB A/A	PRE	0	98	98	99	99	0	98	98	99	99
2	LIGHTNING	70	DG	.056	LB A/A	LP										
2	COC		L	1	QT/A	LP										
2	LIQUID N		L	1	QT/A	LP										
2	GARST 8481															
3	AATREX	4	F	1	LB A/A	PRE	0	99	99	99	99	0	99	99	99	99
3	LIGHTNING	70	DG	.056	LB A/A	LP										
3	AATREX	4	F	1	LB A/A	LP										
3	COC		L	1	QT/A	LP										
3	LIQUID N		L	1	QT/A	LP										
3	GARST 8481															
4	LIGHTNING	70	DG	.056	LB A/A	LP	0	93	93	82	88	0	93	95	87	93
4	LIQUID N		L	1	QT/A	LP										
4	INDUCE			.25	% V/V	LP										
4	GARST 8481															
5	EXCEED	57	DF	.035	LB A/A	LP	0	93	87	73	85	0	87	95	70	88
5	ACCENT	75	WG	.016	LB A/A	LP										
5	LIQUID N		L	1	QT/A	LP										
5	INDUCE			.25	% V/V	LP										
5	GARST 8481															



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CORN POSTEMERGENCE IT, LIBERTY & ROUNDUP

Trial ID: C9017 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	XANST	CHEAL	AMACH	ZEAMX	SETFA	XANST	CHEAL	AMACH
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
6	LIBERTY	1.67	E	.26	LB A/A	LP	0	93	99	99	96	0	90	99	99	96
6	AATREX	4	F	1	LB A/A	LP										
6	AMS	100	SG	3	LB/A	LP										
6	GARST 8481															
7	AATREX	4	F	1	LB A/A	LP	0	99	99	99	99	0	98	99	99	99
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
7	DK 626															
LSD (P=.05)							0.0	6.2	3.1	4.0	4.1	0.0	8.3	1.6	3.9	5.0
Standard Deviation							0.0	3.5	1.7	2.3	2.3	0.0	4.7	0.9	2.2	2.8
CV							0.0	4.28	2.09	2.89	2.87	0.0	5.82	1.05	2.76	3.44

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CORN POSTEMERGENCE IT, LIBERTY & ROUNDUP

Trial ID: C9017                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

#### GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-1-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

#### CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.XANST COMMON COCKLEBUR  
Weed 3.CHEAL COMMON LAMBAQUARTER                      4.AMACH SMOOTH PIGWEED

Crop 1:ZEAMX CORN                      Variety: GARST 8481 G-STAC                      Planting Date: 5-1-99  
Planting Method: ROW                      Rate: 27000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 68 F                      Soil Moisture: NORMAL                      Emergence Date: 5-8-99

Crop 2:ZEAMX CORN                      Variety: DEKALB 626RR                      Planting Date: 5-1-99  
Planting Method: ROW                      Rate: 27000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 68 F                      Soil Moisture: NORMAL                      Emergence Date: 5-8-99

Plot Width, Unit: 10 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: 6.3                      % Silt: 67                      % Clay: 30  
pH: 6.5                      CEC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: BELOW NORMAL  
Closest Weather Station: SPINDLETOP                      Distance: 1                      Unit: MI

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ORN POSTEMERGENCE IT, LIBERTY & ROUNDUP

Trial ID: C9017

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-1-99	5-28-99				
Time of Day:	11:00 AM	2:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	IP				
Applic. Placement:	BROSOL	BROFOL				
Air Temp., Unit:	70 F	82 F				
% Relative Humidity:	70	80				
Wind Velocity, Unit:	3 MPH	4 MPH				
Dew Presence (Y/N):	N					
Soil Temp., Unit:	65 F	78 F				
Soil Moisture:	ADEQUATE	ADEQUATE				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		4 LF				
		8 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage: NONE		6 LF				
		6 IN				
XANST		8 LF				
		10 IN				
CHEAL		12 LF				
		6 IN				
AMACH		10 LF				
		6 IN				

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ORN POSTEMERGENCE IT, LIBERTY & ROUNDUP

Trial ID: C9017

Study Dir.:

Location: LEXINGTON, KY.

Investigator: 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:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	3.5 MPH	3.5 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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CORN POSTEMERGENCE LIBERTY

Trial ID: C9020  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	ZEAMX	AMBTR	XANST	IPOHE	ZEAMX	AMBTR	XANST	IPOHE
Crop Code									
Part Rated									
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
1	AATREX	4	F	1.5	LB A/A	PRE	3	0	98	98	94	0	98	98	90
1	LIBERTY	1.67	E	.36	LB A/A	MP									
1	AATREX	4	F	.5	LB A/A	MP									
1	AMS	100	SG	3	LB/A	MP									
2	LIBERTY ATZ	4.3	F	1.34	LB A/A	MP	3	0	96	95	96	0	96	94	91
2	AMS	100	SG	3	LB/A	MP									
3	BALANCE	75	WG	.059	LB A/A	PRE	0	0	97	95	96	0	97	95	94
3	LIBERTY	1.67	E	.36	LB A/A	MP									
3	AMS	100	SG	3	LB/A	MP									
4	BICEP II MAGNUM	5.5	L	1.72	LB A/A	PRE	0	0	96	96	94	0	96	96	91
4	LIBERTY ATZ	4.3	F	1.08	LB A/A	MP									
4	AMS	100	SG	3	LB/A	MP									
5	ACCENT GOLD	75	DF	.136	LB A/A	MP	38	38	95	85	90	18	95	93	90
5	CLARITY	4	E	.25	LB A/A	MP									
5	COC		L	1	QT/A	MP									
5	LIQUID N		L	2	QT/A	MP									
6	LEADOFF	5	CS	.94	LB A/A	PRE	0	0	90	93	93	0	89	93	91
6	BASIS GOLD	89.5	DF	.78	LB A/A	MP									
6	COC		L	1	QT/A	MP									
6	LIQUID N		L	2	QT/A	MP									
7	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	0	97	95	93	0	97	96	89
7	SPIRIT	57	WG	.036	LB A/A	MP									
7	COC		L	1	QT/A	MP									
7	LIQUID N		L	2	QT/A	MP									

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CORN POSTEMERGENCE LIBERTY

Trial ID: C9020  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

	ZEAMX	ZEAMX	AMBTR	XANST	IPOHE	ZEAMX	AMBTR	XANST	IPOHE
Seed Code									
Drop Code									
Part Rated									
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Drop Stage									
Drop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
8	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	0	85	84	88	0	54	45	88
	LSD (P=.05)						4.7	2.6	3.9	5.2	3.9	5.0	20.8	18.0	4.4
	Standard Deviation						3.2	1.8	2.6	3.5	2.7	3.4	14.1	12.3	3.0
	CV						60.32	37.71	2.8	3.79	2.87	154.74	15.69	13.86	3.28

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

CORN POSTEMERGENCE LIBERTY

Trial ID: C9020                      Study Dir.:  
Location: LEXINGTON, KY            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 4-30-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

## CROP AND PEST DESCRIPTION

Weed 1.AMBTR GIANT RAGWEED                      2.XANST COMMON COCKLEBUR  
Weed 3.IPOHE IVYLEAF MORNINGGLORY

Crop 1:ZEAMX FIELD CORN                      Variety: PIONEER 32K63                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 26000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: CLODDY  
Soil Temperature: 58 F

Plot Width, Unit: 10 FT                      Plot Length, Unit: 33 FT                      Reps: 4  
Site Type: FIELD  
Tillage Type: CONVENTIONAL TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 3.8 % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 27                      Soil Name: LANTON                      Fertility Level: EXCELLENT

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

## CORN POSTEMERGENCE LIBERTY

Trial ID: C9020

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-24-99				
Time of Day:	11AM	1 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	65 F	65 F				
% Relative Humidity:	30	44				
Wind Velocity, Unit:	5 MPH	8 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	58 F	68 F				
% Cloud Cover:	20	40				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP				
		5 LVS				
		10 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMBTR		MP				
		7 LVS				
		3.5 IN				
XANST		5 LVS				
		3 IN				
IPOHE		4 LVS				
		2.5 IN				



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

RN POSTEMERGENCE LIBERTY

ial ID: C9020  
ocation: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
pl. Equipment:	ATV	BACKPACK				
erating Pressure:	30	30				
zzle Type:	FLATFAN	FLATFAN				
zzle Size:	8004	8004				
zzle Spacing, Unit:	20 IN	20 IN				
om Length, Unit:	10 FT	10 FT				
om Height, Unit:	19 IN	19 IN				
ound Speed, Unit:	4 MPH	4 MPH				
rrier:	WATER	WATER				
ray Volume, Unit:	24 GPA	24 GPA				
opellant:	CO2	CO2				

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

CORN POSTEMERGENCE LIBERTY II

Trial ID: C9021  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code				SETFA	CHEAL	XANST		SETFA	CHEAL	XANST
Crop Code				ZEAMX	ZEAMX		ZEAMX			
Part Rated										
Rating Data Type				INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval				1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 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 Conc	Form Type	Rate	Rate Unit	Grow Stg									
1	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	0	98	98	89	0	98	98	90
2	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	0	100	100	99	0	100	100	98
2	LIBERTY	1.67	E	.26	LB A/A	2WK									
2	AMS	100	SG	3	LB/A	2WK									
3	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	0	100	100	100	0	100	100	100
3	LIBERTY	1.67	E	.26	LB A/A	4WK									
3	AMS	100	SG	3	LB/A	4WK									
4	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	0	99	100	89	0	99	100	94
4	LIBERTY	1.67	E	.26	LB A/A	6WK									
4	AMS	100	SG	3	LB/A	6WK									
5	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	0	100	100	100	0	100	100	100
5	SPIRIT	57	WG	.036	LB A/A	4WK									
5	INDUCE			.25	% V/V	4WK									
6	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	16	16	100	100	100	16	100	100	100
6	EXCEED	57	DF	.036	LB A/A	4WK									
6	INDUCE			.25	% V/V	4WK									
7	LIBERTY	1.67	E	.26	LB A/A	2WK	0	0	68	50	65	0	15	15	18
7	AMS	100	SG	3	LB/A	2WK									
8	LIBERTY	1.67	E	.26	LB A/A	4WK	0	0	60	55	68	0	30	30	30
8	AMS	100	SG	3	LB/A	4WK									
9	LIBERTY	1.67	E	.26	LB A/A	6WK	0	0	35	21	31	0	90	80	90
9	AMS	100	SG	3	LB/A	6WK									

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CORN POSTEMERGENCE LIBERTY II

Trial ID: C9021  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX		SETFA	CHEAL	XANST	ZEAMX		SETFA	CHEAL	XANST
Crop Code	ZEAMX	ZEAMX				ZEAMX				
Part Rated										
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg					
10	UNTREATED						0	0	0	0	0
	LSD (P=.05)						5.7	5.7	9.2	7.0	9.8
	Standard Deviation						4.0	4.0	6.3	4.9	6.7
	CV						243.25	243.25	8.32	6.71	9.1

CORN POSTEMERGENCE LIBERTY II

Trial ID: C9021                      Study Dir.:  
Location: LEXINGTON, KY            Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack                      Postal Code: 40546  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack

Trial Status: complete                      Initiation Date: 5-1-99                      Country: USA  
City: Lexington                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

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

Crop 1:ZEAMX FIELD CORN                      Variety: PIONEER 32K63                      Planting Date: 5-1-99  
Planting Method: ROW                      Rate: 27000 S/A                      Depth: 1.5 IN  
                    Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 65 F                      Soil Moisture: NORMAL                      Emergence Date: 5-12-99

Plot Width, Unit: 10 FT                      Plot Length, Unit: 33 FT                      Reps: 4  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 2.7                      % Sand: 6.3                      % Silt: 67                      % Clay: 30  
pH: 6.5                      CEC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: BELOW NORMAL  
Closest Weather Station: SPINDLETOP                      Distance: 1                      Unit: MI

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## CORN POSTEMERGENCE LIBERTY II

Trial ID: C9021

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-1-99	5-17-99	5-24-99	6-11-99		
Time of Day:	11:00 AM	2:00 PM	2:00 PM	4:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	2 WEEK	4 WEEK	6 WEEK		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	70 F	82 F	65 F	92 F		
% Relative Humidity:	70	80	85	84		
Wind Velocity, Unit:	3 MPH	5 MPH	8 MPH	0 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	65 F	78 F	72 F	85 F		
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUAT	INADEQUAT		

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		3 LF	4 LF	7 LF		
		3 IN	6 IN	16 IN		

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2WK	4WK	6WK		
		4 LF	6 LF	25 LF		
CHEAL		1 IN	3 IN	11 IN		
		6 LF	8 LF	18 LF		
		1.5 IN	3 IN	12 IN		
XANST		4LF	8 LF	10 LF		
		2 IN	8 IN	12 IN		

CORN POSTEMERGENCE LIBERTY II

Trial ID: C9021

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	3.5 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 POSTEMERGENCE ROUNDUP

Trial ID: C9030  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
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 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg								
1	ROUNDUP ULTRA	4	AS	1	LB A/A	2"W	0	100	100	100	0	100	100	95
1	DK 626													
2	ROUNDUP ULTRA	4	AS	1	LB A/A	4"W	0	100	100	100	0	100	100	94
2	DK 626													
3	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W	0	100	100	100	0	100	100	99
3	DK 626													
4	ROUNDUP ULTRA	4	AS	1	LB A/A	9"W	0	100	100	100	0	100	99	99
4	DK 626													
5	ROUNDUP ULTRA	4	AS	1	LB A/A	12"W	0	100	100	100	0	100	100	94
5	DK 626													
6	ROUNDUP ULTRA	4	AS	1	LB A/A	2"W	0	100	100	100	0	99	99	94
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
6	DK 626													
7	ROUNDUP ULTRA	4	AS	1	LB A/A	4"W	0	100	100	100	0	100	100	96
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
7	DK 626													
8	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W	0	100	100	100	0	100	99	96
8	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
8	DK 626													
9	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	100	100	100	0	100	100	100
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
9	DK 626													
10	CHECK						0	0	0	0	0	0	0	0
10	DK 626													

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

CORN POSTEMERGENCE ROUNDUP

Trial ID: C9030      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
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 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Amt	Fm Ds	Rate Rate	Rate Unit	Grow Stg				
LSD (P=.05)		0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	4.3
Standard Deviation		0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	2.9
CV		0.0	0.0	0.0	0.0	0.0	0.0	0.88	1.51	3.4



CORN POSTEMERGENCE ROUNDUP

Trial ID: C9030                      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: 4-30-99                      Country: USA  
City: Lexington                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED 3.CHEAL C.LAMBSQUARTERS  
Crop 1: ZEAMX FIELD CORN Variety: DK 626                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 27000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: NORMAL                      Emergence Date: 5-11-99  
Plot Width, Unit: 10 FT                      Plot Length, Unit: 33 FT                      Reps: 4  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 2.7                      % Sand: 3.7                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 17                      Soil Name: MAURY                      Fertility Level: EXCELLENT  
Overall Moisture Conditions: BELOW NORMAL  
Closest Weather Station: SPINDLETOP                      Distance: 1.5                      Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-20-99	5-24-99	5-30-99	6-4-99	5-6-99
Time of Day:	10:00 AM	1:00 PM	11:00 AM	2:00 PM	1:00 PM	4:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2" WEEDS	4" WEEDS	6" WEEDS	9" WEEDS	12" WEEDS
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	65 F	74 F	63 F	83 F	80 F	88 F
% Relative Humidity:	50	88	84	70	98	95
Wind Velocity, Unit:	5 MPH	2 MPH	8 MPH	5 MPH	1 MPH	1 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	60 F	75 F	70 F	75 F	78 F	82 F
Soil Moisture:	ADEQUATE	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT

ORN POSTEMERGENCE ROUNDUP

Trial ID: C9030  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		4 LF	4 LF	5 LF	5 LF	7 LF
		6 IN	8 IN	10 IN	10 IN	12 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		3 LF	5 LF	5 LF	5 LF	5 LF
		3 IN	3 IN	5 IN	5 IN	6 IN
AMBTR		4 LF	11 LF	12 LF	12 LF	16 LF
		2 IN	6 IN	8 IN	8 IN	14 IN
CHEAL		6 LF	10 LF	12 LF	12 LF	25 LF
		1.5 IN	3 IN	5 IN	6 IN	10 IN

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	10 FT	10 FT	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 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

C

Trt No                      Treatment Application Comment

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

Trial ID: C9030-2                      Investigator:  
Location: LEXINGTON, KY.              Study Dir.: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	CHEAL	IPOHE	ZEAMX	SETFA	AMACH	CHEAL	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	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Amt	Fm Ds	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMACH	CHEAL	IPOHE	ZEAMX	SETFA	AMACH	CHEAL	IPOHE
1	ROUNDUP ULTRA	4	AS	1	LB A/A	2"W	0	100	98	96	96	0	100	95	93	91
1	DK 626															
2	ROUNDUP ULTRA	4	AS	1	LB A/A	4"W	0	100	99	98	99	0	100	96	90	96
2	DK 626															
3	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W	0	100	100	100	100	0	100	95	94	95
3	DK 626															
4	ROUNDUP ULTRA	4	AS	1	LB A/A	9"W	0	100	100	100	100	0	100	96	96	96
4	DK 626															
5	ROUNDUP ULTRA	4	AS	1	LB A/A	12"W	0	100	99	99	99	0	100	94	93	94
5	DK 626															
6	ROUNDUP ULTRA	4	AS	1	LB A/A	2"W	0	100	99	99	99	0	100	93	93	93
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W										
6	DK 626															
7	ROUNDUP ULTRA	4	AS	1	LB A/A	4"W	0	100	98	96	98	0	100	94	89	90
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W										
7	DK 626															
8	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W	0	100	99	98	96	0	100	95	91	93
8	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W										
8	DK 626															
9	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	98	95	95	95	0	100	89	88	89
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W										
9	DK 626															
10	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0
10	DK 626															

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

CORN POSTEMERGENCE ROUNDUP II

Trial ID: C9030-2      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

Need Code	SETFA	AMACH	CHEAL	IPOHE	SETFA	AMACH	CHEAL	IPOHE
Crop Code	ZEAMX				ZEAMX			
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 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg							
	LSD (P=.05)	0.0		1.3		3.1	3.1	3.6	0.0	0.0	4.3	4.0	4.3
	Standard Deviation	0.0		0.9		2.1	2.1	2.4	0.0	0.0	2.9	2.8	3.0
	CV	0.0		1.02		2.38	2.4	2.78	0.0	0.0	3.46	3.38	3.54



ORN POSTEMERGENCE ROUNDUP II

Trial ID: C9030-2                      Investigator:  
Location: LEXINGTON, KY.              Study Dir.: Charles H. Slack

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						
Stage Scale:	4 LF	4 LF	6 LF	6 LF	6 LF	
Height, Unit:	6 IN	10 IN	16 IN	16 IN	16 IN	

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
Stage Scale:	2 LF	4 LF	6 LF	7 LF	7 LF	
Density, Unit:	2 IN	3 IN	5 IN	7 IN	8 IN	
AMACH						
Stage Scale:	3 LF	4 LF	12 LF	14 LF	16 LF	
Density, Unit:	1 IN	4 IN	6 IN	12 IN	13 IN	
CHEAL						
IPOHE						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	
Operating Pressure:	30	30	30	30	30	
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT	
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	
Ground Speed, Unit:	3.5 IN	3.5 IN	3.5 IN	3.5 IN	3.5 IN	
Carrier:	WATER	WATER	WATER	WATER	WATER	
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA	25 GPA	
Propellant:	CO2	CO2	CO2	CO2	CO2	

Trt No                      Treatment Application Comment

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

ORN POSTEMERGENCE ROUNDUP III

Trial ID: C9030-3  
Location: LEXINGTON, KY.

Investigator:  
Study Dir.: Charles H. Slack

Seed Code	SETFA	CHEAL	IPOHE	SETFA	CHEAL	IPOHE	
Prop Code	ZEAMX			ZEAMX			
Plant Rated							
Planting Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Planting Unit							
Planting Date							
Footnote Number	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Post-Eval Interval	P	P	P	P	P	P	P
PRM Data Type	0	0	0	0	0	0	0
Subsamples, Dec.							

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg								
1	ROUNDUP ULTRA	4	AS	1	LB A/A	2"W	0	100	96	94	0	94	93	89
1	DK 626													
2	ROUNDUP ULTRA	4	AS	1	LB A/A	4"W	0	100	95	89	0	96	90	69
2	DK 626													
3	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W	0	100	98	95	0	95	94	89
3	DK 626													
4	ROUNDUP ULTRA	4	AS	1	LB A/A	9"W	0	100	96	94	0	98	94	91
4	DK 626													
5	ROUNDUP ULTRA	4	AS	1	LB A/A	12"W	0	100	98	95	0	99	95	94
5	DK 626													
6	ROUNDUP ULTRA	4	AS	1	LB A/A	2"W	0	100	95	95	0	96	94	89
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
6	DK 626													
7	ROUNDUP ULTRA	4	AS	1	LB A/A	4"W	0	100	94	89	0	91	90	75
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
7	DK 626													
8	ROUNDUP ULTRA	4	AS	1	LB A/A	6"W	0	100	99	94	0	98	96	88
8	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
8	DK 626													
9	HARNESX XTRA	5.6	EC	3.36	LB A/A	PRE	0	0	0	0	0	0	0	0
9	ROUNDUP ULTRA	4	AS	.5	LB A/A	+2"W								
9	DK 626													
10	CHECK UNTREATED						0	0	0	0	0	0	0	0
10	DK 626													

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CORN POSTEMERGENCE ROUNDUP III

Trial ID: C9030-3      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles H. Slack

	ZEAMX	SETFA	CHEAL	IPOHE	ZEAMX	SETFA	CHEAL	IPOHE
Seed Code								
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 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg				
	LSD (P=.05)						0.0	0.0	3.4	3.0
	Standard Deviation						0.0	0.0	2.4	2.0
	CV						0.0	0.0	3.06	2.74
							0.0	3.9	3.6	5.0
							0.0	2.7	2.5	3.5
							0.0	3.52	3.32	5.08





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JORN POSTEMERGENCE ROUNDUP III

Trial ID: C9030-3                      Investigator:  
Location: LEXINGTON, KY.              Study Dir.: Charles H. Slack

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						
Stage Scale:	6 LF	6 LF	7 LF	7 LF	8 LF	
Height, Unit:	5 IN	8 IN	12 IN	12 IN	15 IN	

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
Stage Scale:	4 LF	3 LF	5 LF	5 LF	5 LF	
Density, Unit:	2.5 IN	4 IN	4 IN	4 IN	6 IN	
CHEAL						
Stage Scale:	4 LF	4 LF	6 LF	6 LF	12 LF	
Density, Unit:	2 IN	4 IN	6 IN	6 IN	10 IN	
IPOHE						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK	
Operating Pressure:	30	30	30	30	30	
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	
Boom Length, Unit:	5 FT	5 FT	5 FT	5 FT	5 FT	
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	
Carrier:	WATER	WATER	WATER	WATER	WATER	
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA	25 GPA	
Propellant:	CO2	CO2	CO2	CO2	CO2	

Trt No                                      Treatment Application Comment

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CORN POSTEMERGENCE ROUNDUP IV

Trial ID: C9031  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Seed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
Drop 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								
Drop Stage								
Drop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
1	ROUNDUP ULTRA	4	AS	1	LB A/A	3"W	0	100	73	75	0	100	80	80
2	ROUNDUP ULTRA	4	AS	1	LB A/A	3"W	0	100	63	67	0	100	73	80
2	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
3	HARNESS	7	EC	1	LB A/A	PRE	0	100	57	73	0	100	80	90
3	ROUNDUP ULTRA	4	AS	1	LB A/A	15C								
4	HARNESS XTRA	5.6	EC	1.68	LB A/A	PRE	0	100	87	93	0	100	93	95
4	ROUNDUP ULTRA	4	AS	1	LB A/A	15C								
5	HARNESS	7	EC	1.3	LB A/A	PRE	0	100	90	93	0	100	92	90
5	ROUNDUP ULTRA	4	AS	1	LB A/A	3"W								
6	HARNESS XTRA	5.6	EC	2.24	LB A/A	3"W	0	100	95	93	0	100	95	93
6	ROUNDUP ULTRA	4	AS	1	LB A/A	3"W								
7	AATREX	4	F	1	LB A/A	3"W	0	100	96	98	0	100	96	98
7	ROUNDUP ULTRA	4	AS	1	LB A/A	3"W								
8	MON 78126	5.52	EW	2.3	LB A/A	3"W	0	100	70	73	0	100	78	82
9	MON 78123	5	CS	3.3	LB A/A	3"W	0	100	99	99	0	100	99	96
10	MON 78045	4	SC	2	LB A/A	3"W	0	100	92	92	0	100	93	92
11	DUAL II MAGNUM	7.6	EC	1.45	LB A/A	PRE	0	100	96	95	0	100	99	99
11	MARKSMAN	3.2	F	1.4	LB A/A	3"W								
12	BICEP II MAGNUM	5.5	L	2.35	LB A/A	PRE	0	100	77	90	0	100	43	90

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CORN POSTEMERGENCE ROUNDUP IV

Trial ID: C9031

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
13	BASIS GOLD	89.5	DF	.783	LB A/A	3"W	0	100	87	90	0	100	85	93
13	COC		L	1	QT/A	3"W								
13	LIQUID N		L	4	QT/A	3"W								
14	ACCENT	75	WG	.031	LB A/A	3"W	0	100	80	80	0	100	92	80
14	BANVEL	4	EC	.25	LB A/A	3"W								
14	INDUCE			.25	% V/V	3"W								
14	LIQUID N		L	4	QT/A	3"W								
15	BICEP II MAGNUM	5.5	L	2.35	LB A/A	PRE	0	100	99	99	0	100	99	99
15	EXCEED	57	DF	.036	LB A/A	3"W								
15	COC		L	1	QT/A	3"W								
16	BICEP II MAGNUM	5.5	L	2.35	LB A/A	PRE	0	100	96	99	0	100	99	99
16	SPIRIT	57	WG	.036	LB A/A	3"W								
16	COC		L	1	QT/A	3"W								
17	FRONTIER	6	E	.78	LB A/A	PRE	0	100	90	87	0	100	95	93
17	DISTINCT	70	WG	.263	LB A/A	3"W								
17	INDUCE			.25	% V/V	3"W								
17	LIQUID N		L	1.25	QT/A	3"W								
18	FIELDMASTER	4.25	EC	4.25	LB A/A	3"W	0	100	99	98	0	100	99	98
18	AMS	100	SG	2	% V/V	3"W								
19	MON 69481	5	CS	3.35	LB A/A	3"W	0	100	95	95	0	100	92	93
19	AMS	100	SG	2	% V/V	3"W								

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CORN POSTEMERGENCE ROUNDUP IV

Trial ID: C9031  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg
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LSD (P=.05)	0.0	0.0	9.2	11.9	0.0	0.0	7.8	6.1
Standard Deviation	0.0	0.0	5.6	7.2	0.0	0.0	4.7	3.7
CV	0.0	0.0	6.44	8.15	0.0	0.0	5.35	4.0

CORN POSTEMERGENCE ROUNDUP IV

Trial ID: C9031                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

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

Trial Status: COMPLETE                      Initiation Date: 4-30-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA GIANT FOXTAIL                      2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTERS

Crop 1:ZEAMX FIELD CORN                      Variety: DEKALB DK 626RR                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 26000                      S/A                      Depth: 1.5 IN  
                    Row Spacing: 30 IN                      Seed Bed: CLODDY  
Soil Temperature: 58                      F Soil Moisture: NORMAL                      Emergence Date: 5-5-99

Plot Width, Unit: 10                      FT                      Plot Length, Unit: 44                      FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

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

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

CORN POSTEMERGENCE ROUNDUP IV

Trial ID: C9031                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-24-99	6-3-99			
Time of Day:	5PM	3PM	11 AM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	3"W	15 C			
Applic. Placement:	BROSOI	BROFOI	BROFOI			
Air Temp., Unit:	64 F	65 F	75 F			
% Relative Humidity:	30	44	90			
Wind Velocity, Unit:	5 MPH	8 MPH	1 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	58 F	68 F	69 F			
% Cloud Cover:	20	40	30			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		3"W	15 C			
		4 LVS	7 LVS			
		7 IN	15 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		3"W	15 C			
		8 LVS	14 LVS			
		6 IN	8 IN			
AMBTR		4 LVS	10 LVS			
		2 IN	4 IN			
CHEAL		4 LVS	6 LVS			
		3 IN	5 IN			

## CORN POSTEMERGENCE ROUNDUP IV

Trial ID: C9031

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	10 FT	10 FT	10 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 V

Trial ID: C9032  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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

Tit No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
1	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	100	95	95	0	100	91	93
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	3	100	47	40	0	100	90	70
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	43	40	0	100	90	73
3	COC		L	1	QT/A	LP								
4	HARNESS XTRA	5.6	EC	3.36	LB A/A	PRE	0	100	95	98	0	100	95	98
4	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
5	AIM	40	DF	.008	LB A/A	MP	0	100	92	92	0	100	85	92
5	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
5	INDUCE			.25	% V/V	MP								
6	AXIOM	68	DF	.51	LB A/A	PRE	0	100	60	73	0	100	87	88
6	ROUNDUP ULTRA	4	AS	1	LB A/A	LP/V4								
6	AMS	100	SG	3	LB/A	LP/V4								
7	DUAL II MAGNUM	7.6	EC	1.59	LB A/A	PRE	0	100	57	50	0	100	85	83
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP/V4								
7	AMS	100	SG	3	LB/A	LP/V4								
8	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	100	83	92	0	100	95	96
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP/V4								
8	AMS	100	SG	3	LB/A	LP/V4								
9	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	7	100	78	73	7	100	82	70
9	V-3153	57.6	DF	.014	LB A/A	LP								
9	COC		L	1	QT/A	LP								

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CORN POSTEMERGENCE ROUNDUP V

Trial ID: C9032  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	ZEAMX	SETFA	AMBTR	CHEAL
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	10	100	82	77	7	100	78	73
10	V-3153	57.6	DF	.018	LB A/A	LP								
10	COC		L	1	QT/A	LP								
11	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	13	100	85	80	10	100	83	75
11	V-3153	57.6	DF	.022	LB A/A	LP								
11	COC		L	1	QT/A	LP								
12	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	10	100	80	80	10	100	80	77
12	V-3153	57.6	DF	.027	LB A/A	LP								
12	COC		L	1	QT/A	LP								
13	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	20	100	82	83	10	100	80	82
13	V-3153	57.6	DF	.031	LB A/A	LP								
13	COC		L	1	QT/A	LP								
14	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	3	100	30	30	0	100	87	95
14	AATREX	4	F	.5	LB A/A	LP								
LSD (P=.05)							5.0	0.0	10.6	9.8	3.7	0.0	9.5	10.0
Standard Deviation							3.0	0.0	6.3	5.8	2.2	0.0	5.7	6.0
CV							62.91	0.0	8.81	8.12	71.84	0.0	6.56	7.15



## CORN POSTEMERGENCE ROUNDUP V

Trial ID: C9032

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-30-99	5-18-99	5-28-99			
Time of Day:	4 PM	11 AM	1 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	LP/LV4			
Applic. Placement:	BROSOI	BROFOI	BROFOI			
Air Temp., Unit:	65 F	70 F	81 F			
% Relative Humidity:	30	70	30			
Wind Velocity, Unit:	5 MPH	2 MPH	2 MPH			
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	58 F	68 F	67 F			
% Cloud Cover:	20	10	20			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		MP	LP/LV4			
		4 LVS	5 LVS			
		6 IN	9 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	LP/LV4			
		4LVS	6 LVS			
		3 IN	5 IN			
AMBTR		6LVS	10 LVS			
		3 IN	5 IN			
CHEAL		8LVS	10LVS			
		2 IN	4 IN			

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## CORN POSTEMERGENCE ROUNDUP V

Trial ID: C9032

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN			
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			

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CORN POSTEMERGENCE ROUNDUP VS TRADITIONAL

Trial ID: C9033 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMDTR	CHEAL	XANST	ZEAMX	SETFA	AMBTR	CHEAL	XANST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg											
1	BICEP II MAGNUM 1 DK 626	5.5	L	3.3	LB A/A	PRE	0	94	79	93	83	0	95	79	93	85	
2	BICEP II MAGNUM 2 ROUNDUP ULTRA 2 DK 626	5.5 4	L AS	3.3 .75	LB A/A LB A/A	PRE 2WK	0	96	94	95	95	0	99	95	96	96	
3	BICEP II MAGNUM 3 ROUNDUP ULTRA 3 DK 626	5.5 4	L AS	3.3 .75	LB A/A LB A/A	PRE 4WK	0	96	93	95	94	0	99	98	98	98	
4	BICEP II MAGNUM 4 ROUNDUP ULTRA 4 DK 626	5.5 4	L AS	3.3 .75	LB A/A LB A/A	PRE 6WK	0	96	91	91	89	0	98	93	93	90	
5	BICEP II MAGNUM 5 SPIRIT 5 INDUCE 5 DK 626	5.5 57	L WG	3.3 .036 .255	LB A/A LB A/A % V/V	PRE 4WK 4WK	0	96	95	95	95	0	99	98	98	98	
6	BICEP II MAGNUM 6 EXCEED 6 INDUCE 6 DK 626	5.5 57	L DF	3.3 .036 .255	LB A/A LB A/A % V/V	PRE 4WK 4WK	0	98	96	96	96	0	99	98	98	98	
7	ROUNDUP ULTRA 7 DK 626	4	AS	.75	LB A/A	2WK	0	95	88	85	89	0	96	91	86	93	
8	ROUNDUP ULTRA 8 DK 626	4	AS	.75	LB A/A	4WK	0	95	68	83	76	0	96	68	83	76	

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CORN POSTEMERGENCE ROUNDUP VS TRADITIONAL

Trial ID: C9033 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	XANST	ZEAMX	SETFA	AMBTR	CHEAL	XANST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMBTR	CHEAL	XANST	ZEAMX	SETFA	AMBTR	CHEAL	XANST
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	6WK	0	0	0	0	0	0	90	30	30	30
9	DK 626															
10	UNTREATED						0	0	0	0	0	0	0	0	0	0
10	DK 626															
11	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	95	75	88	85	0	95	75	89	85
11	N63-G7															
12	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	97	96	96	96	0	99	99	99	99
12	SPIRIT	57	WG	.036	LB A/A	4WK										
12	INDUCE			.255	% V/V	4WK										
12	N63-G7															
13	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	96	95	95	95	0	99	99	99	99
13	EXCEED	57	DF	.036	LB A/A	4WK										
13	INDUCE			.255	% V/V	4WK										
13	N63-G7															
LSD (P=.05)							0.0	2.8	10.4	5.9	7.2	0.0	3.0	11.1	6.4	7.9
Standard Deviation							0.0	1.9	7.2	4.1	5.0	0.0	2.1	7.7	4.4	5.5
CV							0.0	2.38	9.72	5.3	6.59	0.0	2.34	9.87	5.46	6.88

## CORN POSTEMERGENCE ROUNDUP VS TRADITIONAL

Trial ID: C9033                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack  
Affiliation: University of Kentucky                      Postal Code: 40546  
Investigator: Charles H. Slack

Trial Status: complete                      Initiation Date: 4-30-99                      Country: USA  
City: Lexington                      State/Prov.: KY                      Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUATER                      4.XANST COMMON COCKLEBUR

Crop 1:ZEAMX FIELD CORN                      Variety: DK626 RR                      Planting Date: 4-30-99  
Planting Method: ROW                      Rate: 27000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 63 F                      Soil Moisture: NORMAL                      Emergence Date: 5-9-99

Plot Width, Unit: 10 FT                      Plot Length, Unit: 33 FT                      Reps: 4  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 4                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 25                      Soil Name: LANTON                      Fertility Level: EXCELLENT

Overall Moisture Conditions: BELOW NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 2                      Unit: MI



## CORN POSTEMERGENCE ROUNDUP VS TRADITIONAL

Trial ID: C9033

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-17-99	5-24-99	6-9-99			
Time of Day:	3:00 PM	1:00 PM	3:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	2 WK	4 WEEK	6 WEEK			
Applic. Placement:	BROFOL	BROFOL	BROFOL			
Air Temp., Unit:	82 F	63 F	88 F			
% Relative Humidity:	83	85	92			
Wind Velocity, Unit:	5 MPH	8 MPH	1 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	78 F	70 F	81 F			
Soil Moisture:	INADEQUAT	INADEQUAT	INADEQUAT			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX						
Stage Scale:	2 LF	3 LF	5 LF			
Height, Unit:	3 IN	6 IN	16 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	2 WK	4 WK	6 WK			
Stage Scale:	4 LF	8 LF	14 LF			
Density, Unit:	2 IN	2.5 IN	26 IN			
AMBTR						
Stage Scale:	2LF	4 LF	6 LF			
Density, Unit:	2 IN	4 IN	8 IN			
CHEAL						
Stage Scale:	4 LF	8 LF	12 LF			
Density, Unit:	1 IN	3 IN	5 IN			
XANST						
Stage Scale:	2LF	4 LF	8 LF			
Density, Unit:	2 IN	4 IN	6 IN			

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## CORN POSTEMERGENCE ROUNDUP VS TRADITIONAL

Trial ID: C9033

Study Dir.:

Location: LEXINGTON, KY.

Investigator: 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:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA			
Propellant:	CO2	CO2	CO2			

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CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C9010 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	SORHA	ZEAMX	SORHA	ZEAMX	SORHA
										INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT
										2 WEEK	2 WEEK	4 WEEK	4 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	Rate Unit	Grow Stg									
1	HARNES	7	EC	1.86	LB A/A	PRE	0	90	0	83	0	90			
1	ROUNDUP ULTRA	4	AS	1	LB A/A	18J									
1	DK 626														
2	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	90	0	87	0	87			
2	ROUNDUP ULTRA	4	AS	1	LB A/A	18J									
2	DK 626														
3	HARNES XTRA	5.6	EC	3.36	LB A/A	PRE	0	90	0	90	0	90			
3	ROUNDUP ULTRA	4	AS	1	LB A/A	18J									
3	ROUNDUP ULTRA	4	AS	.5	LB A/A	5REQ									
3	DK 626														
4	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	60	0	60	0	57			
4	EXCEED	65	DF	.036	LB A/A	18J									
4	COC		L	1	QT/A	18J									
4	DK 626														
5	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	57	7	60	3	83			
5	ACCENT	75	WG	.031	LB A/A	18J									
5	COC		L	1	QT/A	18J									
5	LIQUID N		L	2	QT/A	18J									
5	DK 626														
6	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	43	7	63	7	53			
6	SPIRIT	57	WG	.036	LB A/A	18J									
6	COC		L	1	QT/A	18J									
6	LIQUID N		L	2	QT/A	18J									
6	DK 626														
7	AATREX	4	F	1.5	LB A/A	PRE	0	92	0	88	0	77			
7	ROUNDUP ULTRA	4	AS	1	LB A/A	12J									

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CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C9010 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

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

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate	Rate Unit	Grow Stg	ZAMX INJURY PERCENT	SORHA CONTROL PERCENT	ZAMX INJURY PERCENT	SORHA CONTROL PERCENT	ZAMX INJURY PERCENT	SORHA CONTROL PERCENT
8	AATREX	4	F	1.5	LB A/A	PRE	0	92	0	90	0	76
8	ROUNDUP ULTRA	4	AS	1	QT/A	18J						
9	ACCENT	75	WG	.016	LB A/A	18J	0	78	0	73	0	83
9	SPIRIT	57	WG	.018	LB A/A	18J						
9	COC		L	1	QT/A	18J						
9	LIQUID N		L	1	QT/A	18J						
10	ROUNDUP ULTRA	4	AS	1	LB A/A	12J	0	93	0	92	0	93
11	ROUNDUP ULTRA	4	AS	1	LB A/A	18J	0	92	0	92	0	90
12	GUARDSMAN	5	E	1.875	LB A/A	PRE	0	72	13	80	3	87
12	CELEBRITY G	7.5	WG	.031	LB A/A	18J						
12	CELEBRITY B	69.3	WG	.24	LB A/A	18J						
12	INDUCE			.25	% V/V	18J						

LSD (P=.05)	0.0	12.6	10.1	15.7	6.9	19.7
Standard Deviation	0.0	7.5	5.9	9.3	4.1	11.7
CV	0.0	9.44	267.56	11.63	364.63	14.48



CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C9010                      Investigator:  
Location: LEXINGTON, KY.            Study Dir.: Charles H. Slack

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEMAX		12 J	18 J			
		5 LVS	7 LVS			
		10 IN	15 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		12 J	18 J			
		6 LVS	9 LVS			
		12 IN	18 IN			

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	4 WHEELER	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN			
Nozzle Size:	8004	8004	8004			
Nozzle Spacing, Unit:	20	20	20			
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			

Trt No                      Treatment Application Comment

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

Trial ID: C9023  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX		SORHA		ZEAMX		SORHA	
Crop Code	ZEAMX		ZEAMX		ZEAMX		SORHA	
Part Rated	ZEAMX		ZEAMX		ZEAMX		SORHA	
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	ZEAMX		ZEAMX		ZEAMX		SORHA	
Crop Stage	ZEAMX		ZEAMX		ZEAMX		SORHA	
Crop Stage Scale	ZEAMX		ZEAMX		ZEAMX		SORHA	
Weed Stage	ZEAMX		ZEAMX		ZEAMX		SORHA	
Weed Density, Unit	ZEAMX		ZEAMX		ZEAMX		SORHA	
Footnote Number	ZEAMX		ZEAMX		ZEAMX		SORHA	
Trt-Eval Interval	2 WEEK	2 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT
1	AATREX	4	F	1.5	LB A/A	PRE	0	53	0	58	0	68
1	LIGHTNING	70	DG	.056	LB A/A	16J						
1	COC		L	1	QT/A	16J						
1	LIQUID N		L	1	QT/A	16J						
2	PROWL	3.3	EC	1	LB A/A	PRE	0	50	0	53	0	68
2	AATREX	4	F	1.5	LB A/A	PRE						
2	LIGHTNING	70	DG	.056	LB A/A	16J						
2	COC		L	1	QT/A	16J						
2	LIQUID N		L	1	QT/A	16J						
3	AATREX	4	F	1.5	LB A/A	PRE	0	50	0	80	0	75
3	EXCEED	57	DF	.036	LB A/A	16J						
3	COC		L	1	QT/A	16J						
3	LIQUID N		L	1	QT/A	16J						
4	AATREX	4	F	1.5	LB A/A	PRE	0	65	0	78	0	68
4	ACCENT	75	WG	.031	LB A/A	16J						
4	COC		L	1	QT/A	16J						
4	LIQUID N		L	1	QT/A	16J						
5	ACCENT GOLD	75	DF	.023	LB A/A	12J	0	77	0	85	0	90
5	HORNET	85.6	WG	.128	LB A/A	12J						
5	AATREX	4	F	.45	LB A/A	12J						
5	COC		L	1	QT/A	12J						
5	LIQUID N		L	2	QT/A	12J						

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

Trial ID: C9023  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	SORHA		SORHA		SORHA	
Crop Code	ZEAMX		ZEAMX		ZEAMX	
Part Rated	ZEAMX		ZEAMX		ZEAMX	
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	2 WEEK		4 WEEK		8 WEEK	
Crop Stage	P	P	P	P	P	P
Crop Stage Scale	0	0	0	0	0	0
Weed Stage	2 WEEK		4 WEEK		8 WEEK	
Weed Density, Unit	P	P	P	P	P	P
Footnote Number	0	0	0	0	0	0
Trt-Eval Interval	2 WEEK		4 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 Conc	Form Type	Rate Rate	Rate Unit	Grow Stg						
6	BASIS GOLD	89.5	DF	.79	LB A/A	12J	0	82	0	85	0	83
6	CLARITY	4	E	.063	LB A/A	12J						
6	COC		L	1	QT/A	12J						
6	LIQUID N		L	2	QT/A	12J						
7	ACCENT GOLD	75	DF	.023	LB A/A	12J	0	88	0	90	0	88
7	HORNET	85.6	WG	.128	LB A/A	12J						
7	AATREX	4	F	.45	LB A/A	12J						
7	ACCENT	75	WG	.012	LB A/A	12J						
7	COC		L	1	QT/A	12J						
7	LIQUID N		L	2	QT/A	12J						
8	ACCENT GOLD	75	DF	.023	LB A/A	12J	0	72	0	82	0	87
8	HORNET	85.6	WG	.128	LB A/A	12J						
8	AATREX	4	F	.45	LB A/A	12J						
8	ACCENT	75	WG	.016	LB A/A	12J						
8	COC		L	1	QT/A	12J						
8	LIQUID N		L	2	QT/A	12J						
9	BASIS GOLD	89.5	DF	.79	LB A/A	12J	0	93	0	93	0	95
9	ACCENT	75	WG	.012	LB A/A	12J						
9	CLARITY	4	E	.063	LB A/A	12J						
9	COC		L	1	QT/A	12J						
9	LIQUID N		L	2	QT/A	12J						
10	BASIS GOLD	89.5	DF	.79	LB A/A	12J	0	87	0	90	0	93
10	ACCENT	75	WG	.02	LB A/A	12J						
10	CLARITY	4	E	.063	LB A/A	12J						
10	COC		L	1	QT/A	12J						
10	LIQUID N		L	2	QT/A	12J						



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CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C9023  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	SORHA		SORHA		SORHA	
Crop Code	ZEAMX		ZEAMX		ZEAMX	
Part Rated						
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Crop Stage						
Crop Stage Scale						
Weed Stage						
Weed Density, Unit						
Footnote Number						
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	4 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 Conc	Form Type	Rate	Rate Unit	Grow Stg						
11	SPIRIT	57	WG	.036	LB A/A	12J	0	65	0	67	0	80
11	COC		L	1	QT/A	12J						
11	LIQUID N		L	1	QT/A	12J						
12	SPIRIT	57	WG	.018	LB A/A	12J	0	82	0	87	0	92
12	ACCENT	75	WG	.016	LB A/A	12J						
12	COC		L	1	QT/A	12J						
12	LIQUID N		L	1	QT/A	12J						
LSD (P=.05)							0.0	17.2	0.0	18.7	0.0	28.2
Standard Deviation							0.0	10.2	0.0	11.0	0.0	16.7
CV							0.0	14.16	0.0	13.96	0.0	20.23



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

CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C9023                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-1-99	5-20-99	5-24-99			
Time of Day:	4:00 PM	11:00 AM	2:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	12" GRASS	16" GRASS			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	70 F	80 F	81 F			
% Relative Humidity:	65	75	80			
Wind Velocity, Unit:	3 MPH	3 MPH	2 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	68 F	77 F	78 F			
Soil Moisture:	INADEQUAT	ADEQUATE	INADEQUAT			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		4 LF	5 LF			
		6 IN	9 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		3 LF	4 LF			
		12 IN	16 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:	3.5 MPH	3.5 MPH	3.5 MPH			
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

NO-TILL CORN STALKLAND

Trial ID: C9004  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
1	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	97	98	97	0	97	98	97
1	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
1	INDUCE			.25	% V/V	PRE								
1	ZA1296	4	SC	.095	LB A/A	7C								
1	COC		L	1	QT/A	7C								
1	LIQUID N		L	2.5	QT/A	7C								
2	TOPNOTCH	3.2	CS	3	LB A/A	PRE	0	97	98	97	0	97	98	97
2	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
2	INDUCE			.25	% V/V	PRE								
2	ZA1296	4	SC	.095	LB A/A	7C								
2	COC		L	1	QT/A	7C								
2	LIQUID N		L	2.5	QT/A	7C								
3	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	97	98	97	0	97	98	97
3	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
3	INDUCE			.25	% V/V	PRE								
3	ZA1296	4	SC	.095	LB A/A	7C								
3	AATREX	4	F	.25	LB A/A	7C								
3	COC		L	1	QT/A	7C								
3	LIQUID N		L	2.5	QT/A	7C								
4	DUAL II MAGNUM	7.6	EC	1.3	LB A/A	PRE	0	97	97	95	0	97	97	95
4	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
4	INDUCE			.25	% V/V	PRE								
4	MARKSMAN	3.2	F	1.4	LB A/A	7C								
4	COC		L	1	QT/A	7C								

Dept. of Agronomy, Univ. of KY  
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NO-TILL CORN STALKLAND

Trial ID: C9004

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	0	95	98	98	0	95	98	98
5	FULTIME	4	CS	2.7	LB A/A	PRE	0	95	98	98	0	95	98	98
5	AATREX	4	F	.5	LB A/A	PRE								
5	PRINCEP	4	F	.5	LB A/A	PRE								
5	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
5	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
5	INDUCE			.25	% V/V	PRE								
6	FULTIME	4	CS	3	LB A/A	PRE	0	93	95	95	0	93	95	95
6	AATREX	4	F	.3	LB A/A	PRE								
6	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
6	INDUCE			.25	% V/V	PRE								
7	FULTIME	4	CS	3	LB A/A	PRE	0	98	100	98	0	98	100	98
7	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
7	INDUCE			.25	% V/V	PRE								
7	SPIRIT	57	WG	.036	LB A/A	10C								
7	COC		L	1	QT/A	10C								
7	LIQUID N		L	1	QT/A	10C								
8	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE	0	87	92	93	0	87	92	93
8	INDUCE			.25	% V/V	PRE								
8	EXCEED	57	DF	.036	LB A/A	10C								
8	COC		L	1	QT/A	10C								
8	LIQUID N		L	1	QT/A	10C								
9	FULTIME	4	CS	3	LB A/A	PRE	0	95	97	97	0	95	97	97
9	BALANCE	75	WG	.07	LB A/A	PRE								
9	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
9	INDUCE			.25	% V/V	PRE								

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NO-TILL CORN STALKLAND

Trial ID: C9004  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
10	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	92	93	95	0	92	93	95
10	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
10	INDUCE			.25	% V/V	PRE								
11	HARNESS XTRA	5.6	EC	3.22	LB A/A	PRE	0	93	92	93	0	93	92	93
11	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
11	INDUCE			.25	% V/V	PRE								
12	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	93	93	93	0	93	93	93
12	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
12	INDUCE			.25	% V/V	PRE								
13	FIELDMASTER	4.25	EC	2.25	LB A/A	PRE	0	90	93	88	0	90	93	88
14	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE	0	0	0	0	0	0	0	0
14	INDUCE			.25	% V/V	PRE								
15	ICIA5676/ZA1296	3	E	2.188	LB A/A	PRE	0	75	93	90	0	75	93	90
15	TOUCHDOWN 5	5	SL	.625	LB A/A	PRE								
15	AMS	100	SG	8.5	LB/100 GAL	PRE								
16	ICIA5676/ZA1296	3	E	2.188	LB A/A	PRE	0	93	95	95	0	93	95	95
16	TOUCHDOWN 5	5	SL	.625	LB A/A	PRE								
16	WEEDONE LV4	3.8	E	.47	LB A/A	PRE								
16	AMS	100	SG	8.5	LB/100 GAL	PRE								
17	ICIA5676/ZA1296	3	E	2.188	LB A/A	PRE	0	93	93	93	0	93	93	93
17	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
17	INDUCE			.25	% V/V	PRE								

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NO-TILL CORN STALKLAND

Trial ID: C9004  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
18	ICIA5676/ZA1296	3	E	2.188	LB A/A	PRE	0	93	95	95	0	93	95	95
18	AATREX	4	F	1	LB A/A	PRE								
18	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
18	INDUCE			.25	% V/V	PRE								
19	ICIA5676/ZA1296	3	E	2.188	LB A/A	PRE	0	93	95	97	0	93	95	97
19	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
19	WEEDONE LV4	3.8	E	.47	LB A/A	PRE								
19	INDUCE			.25	% V/V	PRE								
20	EPIC	58	DF	.435	LB A/A	PRE	0	93	97	97	0	93	97	97
20	AATREX	4	F	1.8	LB A/A	PRE								
20	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
20	INDUCE			.25	% V/V	PRE								
21	EPIC	58	DF	.54	LB A/A	PRE	0	92	93	95	0	92	93	95
21	AATREX	4	F	1.8	LB A/A	PRE								
21	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
21	INDUCE			.25	% V/V	PRE								
22	EPIC	58	DF	.435	LB A/A	PRE	0	97	97	97	0	97	97	97
22	AATREX	4	F	1.8	LB A/A	PRE								
22	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
22	COC		L	1	QT/A	PRE								
23	EPIC	58	DF	.435	LB A/A	PRE	0	87	88	88	0	87	88	88
23	COC		L	1	QT/A	PRE								

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NO-TILL CORN STALKLAND

Trial ID: C9004  
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Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMACH	ABUTH	ZEAMX	SETFA	AMACH	ABUTH
24	AXIOM	68	DF	.81	LB A/A	PRE	0	92	92	87	0	92	92	87
24	AATREX	4	F	1.35	LB A/A	PRE								
24	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
25	DUAL II MAGNUM	7.6	EC	1.59	LB A/A	PRE	0	92	93	95	0	92	93	95
25	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
25	INDUCE			.25	% V/V	PRE								
25	HORNET	85.6	WG	.128	LB A/A	10C								
25	COC		L	1	QT/A	10C								
26	BICEP II MAGNUM	5.5	L	3.3	LB A/A	PRE	0	95	95	95	0	95	95	95
26	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
27	LEADOFF	5	CS	1.25	LB A/A	PRE	0	97	97	97	0	97	97	97
27	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	PRE								
27	WEEDONE LV4	3.8	E	.24	LB A/A	PRE								
27	INDUCE			.25	% V/V	PRE								
27	BASIS GOLD	89.5	DF	.79	LB A/A	10C								
27	HORNET	85.6	WG	.08	LB A/A	10C								
27	COC		L	1	QT/A	10C								
27	AMS	100	SG	2	LB/A	10C								
28	BALANCE	75	WG	.094	LB A/A	PRE	0	92	93	93	0	92	93	93
28	BICEP II MAGNUM	5.5	L	1.93	LB A/A	PRE								
28	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
28	AMS	100	SG	17	LB/100 GAL	PRE								
LSD (P=.05)							0.0	10.9	5.7	5.3	0.0	10.9	5.7	5.3
Standard Deviation							0.0	6.6	3.5	3.2	0.0	6.6	3.5	3.2
CV							0.0	7.43	3.81	3.54	0.0	7.43	3.81	3.54



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NO-TILL CORN STALKLAND

Trial ID: C9004  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

Study Director: Charles H. Slack  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack

Postal Code: 40546

Trial Status: complete  
City: Lexington

Initiation Date: 4-29-99  
State/Prov.: KY

Country: USA  
Postal Code: 40546

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA GIANT FOXTAIL  
Weed 2.AMACH SMOOTH PIGWEED  
Weed 3.ABUTH VELVETLEAF

Crop 1:ZEAMX FIELD CORN Variety: GARST 8541IT Planting Date: 4-29-99  
Planting Method: ROW Rate: 27000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: ROUGH/TRASHY  
Soil Temperature: 62 F Soil Moisture: NORMAL Emergence Date: 5-10-99

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: 2.7 % Sand: 6.3 % Silt: 63 % Clay: 30  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: BELOW NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 2 Unit: MI

## NO-TILL CORN STALKLAND

Trial ID: C9004

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-29-99	5-27-99	6-3-99			
Time of Day:	3:00 PM	5:00 PM	1:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	7" CORN	10" CORN			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	62 F	75 F	77 F			
% Relative Humidity:	85	80	95			
Wind Velocity, Unit:	6 MPH	1 MPH	1 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	62 F	73 F	75 F			
Soil Moisture:	ADEQUATE	INADEQUAT	INADEQUAT			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		4 LF	6 LF			
		7 IN	12 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		3 LF	5 LF			
		3 IN	5 IN			
AMACH		4 LF	6 LF			
		2 IN	5 IN			
ABUTH		4 LF	6 LF			
		3 IN	5 IN			

NO-TILL CORN STALKLAND

Trial ID: C9004  
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	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	3.5 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 STALKLAND II

Trial ID: C9006  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	CHEAL	ZEAMX	SETFA	AMACH	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
FRM 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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMACH	CHEAL	ZEAMX	SETFA	AMACH	CHEAL
1	HARNESS XTRA	5.6	EC	3.36	LB A/A	PRE	0	80	80	90	0	58	70	82
1	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
1	AMS	100	SG	17	LB/100 GAL	PRE								
2	HARNESS XTRA	5.6	EC	3.36	LB A/A	PRE	0	88	88	93	0	73	88	90
2	AATREX	4	F	.5	LB A/A	PRE								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
2	AMS	100	SG	17	LB/100 GAL	PRE								
3	HARNESS XTRA	5.6	EC	3.36	LB A/A	PRE	0	83	87	90	0	77	88	90
3	PRINCEP	4	F	1	LB A/A	PRE								
3	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
3	AMS	100	SG	17	LB/100 GAL	PRE								
4	BULLET	4	F	4.5	LB A/A	PRE	0	85	92	93	0	78	92	90
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
4	AMS	100	SG	17	LB/100 GAL	PRE								
5	MON 58430	3.8	CS	2	LB A/A	PRE	0	80	80	85	0	75	82	87
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
5	AMS	100	SG	17	LB/100 GAL	PRE								
6	MON 58494	4	CS	3	LB A/A	PRE	0	95	90	95	0	83	83	95
6	AATREX	4	F	.5	LB A/A	PRE								
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
6	AMS	100	SG	17	LB/100 GAL	PRE								

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NO-TILL CORN STALKLAND II

Trial ID: C9006  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	AMACH	CHEAL	ZEAMX	SETFA	AMACH	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMACH	CHEAL	ZEAMX	SETFA	AMACH	CHEAL
7	FRONTIER	6	E	.78	LB A/A	PRE	0	78	92	95	0	60	90	95
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
7	AMS	100	SG	17	LB/100 GAL	PRE								
7	DISTINCT	70	WG	.18	LB A/A	10C								
7	INDUCE			.25	% V/V	10C								
7	LIQUID N		L	1.25	QT/A	10C								
8	FRONTIER	6	E	.78	LB A/A	PRE	0	88	95	95	0	72	95	95
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
8	AMS	100	SG	17	LB/100 GAL	PRE								
8	DISTINCT	70	WG	.26	LB A/A	10C								
8	INDUCE			.25	% V/V	10C								
8	LIQUID N		L	1.25	QT/A	10C								
9	FRONTIER	6	E	.78	LB A/A	PRE	0	67	95	95	0	53	90	90
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
9	AMS	100	SG	17	LB/100 GAL	PRE								
9	DISTINCT	70	WG	.18	LB A/A	20C								
9	INDUCE			.25	% V/V	20C								
9	LIQUID N		L	1.25	QT/A	20C								
10	BALANCE	75	WG	.094	LB A/A	PRE	0	82	85	88	0	65	87	87
10	AATREX	4	F	1.5	LB A/A	PRE								
10	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
10	AMS	100	SG	17	LB/100 GAL	PRE								
11	EXP 31809B	4	SC	.094	LB A/A	PRE	0	92	85	85	0	80	88	88
11	AATREX	4	F	1.5	LB A/A	PRE								
11	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
11	AMS	100	SG	17	LB/100 GAL	PRE								

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NO-TILL CORN STALKLAND II

Trial ID: C9006  
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Weed Code	ZEAMX	SETFA	AMACH	CHEAL	ZEAMX	SETFA	AMACH	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	SETFA	AMACH	CHEAL	ZEAMX	SETFA	AMACH	CHEAL
12	BALANCE	75	WG	.094	LB A/A	PRE	0	87	85	95	0	78	83	93
12	HARNESS	7	EC	.875	LB A/A	PRE								
12	AATREX	4	F	1.5	LB A/A	PRE								
12	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
12	AMS	100	SG	17	LB/100 GAL	PRE								
13	EXP 31809B	4	SC	.094	LB A/A	PRE	0	90	90	92	0	82	90	90
13	HARNESS	7	EC	.875	LB A/A	PRE								
13	AATREX	4	F	1.5	LB A/A	PRE								
13	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
13	AMS	100	SG	17	LB/100 GAL	PRE								
14	BALANCE	75	WG	.094	LB A/A	PRE	0	85	70	88	0	68	60	83
14	BICEP II MAGNUM	5.5	L	1.93	LB A/A	PRE								
14	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
14	AMS	100	SG	17	LB/100 GAL	PRE								
LSD (P=.05)							0.0	13.4	16.2	9.1	0.0	19.4	21.0	8.9
Standard Deviation							0.0	8.0	9.7	5.4	0.0	11.6	12.5	5.3
CV							0.0	9.5	11.14	5.93	0.0	16.12	14.74	5.92



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

## NO-TILL CORN STALKLAND II

Trial ID: C9006

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-29-99	6-3-99	6-11-99			
Time of Day:	11:00 AM	2:00 PM	3:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	10" CORN	20" CORN			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	66	79	93			
% Relative Humidity:	75	95	86			
Wind Velocity, Unit:	2 MPH	3 MPH	5 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	64	76	85			
Soil Moisture:	ADEQUATE	ADEQUATE	POOR			
% Cloud Cover:	35	40	40			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		10" CORN	20" CORN			
		4-6 LVS	6-8 LVS			
		10 IN	20 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		10" CORN	20" CORN			
		6-8 LVS	8-10 LVS			
		12 IN	15 IN			
AMACH		6 LVS	10 LVS			
		3 IN	6 IN			
CHEAL		8 LVS	12 LVS			
		3 IN	6 IN			



Dept. of Agronomy, Univ. of KY  
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NO-TILL CORN STALKLAND II

Trial ID: C9006

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

	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			
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			
Propellant:	CO2	CO2	CO2			
		C				

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

NO-TILL CORN EARLY PREPLANT

Trial ID: C9007  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZAMX					ZAMX				
Crop Code	AMBTR					AMBTR				
Part Rated	ABUTH					ABUTH				
Rating Data Type	AMACH					AMACH				
Rating Unit	SETFA					SETFA				
Rating Date	ZAMX					ZAMX				
Crop Stage	AMBTR					AMBTR				
Crop Stage Scale	ABUTH					ABUTH				
Weed Stage	AMASP					AMASP				
Weed Density, Unit	SETFA					SETFA				
Footnote Number	ZAMX					ZAMX				
Trt-Eval Interval	AMBTR					AMBTR				
PRM Data Type	ABUTH					ABUTH				
# Subsamples, Dec.	AMASP					AMASP				
	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	P	P	P	P	P	P	P	P	P	P
	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	ZAMX	AMBTR	ABUTH	AMACH	SETFA	ZAMX	AMBTR	ABUTH	AMASP	SETFA
1	BALANCE	75	WG	.094	LB A/A	-1WK	0	33	37	63	32	0	33	33	60	28
1	AATREX	4	F	1.5	LB A/A	-1WK										
1	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
2	EXP 31809B	4	SC	.094	LB A/A	-1WK	0	42	45	72	37	0	35	45	62	25
2	AATREX	4	F	1.5	LB A/A	-1WK										
2	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
3	BALANCE	75	WG	.094	LB A/A	-1WK	0	82	82	85	73	0	78	78	85	63
3	HARNESS	7	EC	.875	LB A/A	-1WK										
3	AATREX	4	F	1.5	LB A/A	-1WK										
3	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
4	EXP 31809B	4	SC	.094	LB A/A	-1WK	0	78	82	88	75	0	73	78	85	65
4	HARNESS	7	EC	.875	LB A/A	-1WK										
4	AATREX	4	F	1.5	LB A/A	-1WK										
4	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
5	BALANCE	75	WG	.094	LB A/A	-1WK	0	82	80	88	58	0	78	77	85	52
5	BICEP II MAGNUM	5.5	L	2.4	LB A/A	-1WK										
5	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
6	BALANCE	75	WG	.094	LB A/A	-1WK	0	75	75	85	47	0	72	68	82	45
6	HARNESS XTRA	5.6	EC	2.8	LB A/A	-1WK										
6	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
7	BALANCE	75	WG	.094	LB A/A	-1WK	0	55	48	78	38	0	45	43	72	33
7	AXIOM	68	DF	.34	LB A/A	-1WK										
7	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										

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

Trial ID: C9007

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Seed Code	ZEAMX	AMBTR	ABUTH	AMACH	SETFA	ZEAMX	AMBTR	ABUTH	AMASP	SETFA
Drop 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										
Drop Stage										
Drop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	AMBTR	ABUTH	AMACH	SETFA	ZEAMX	AMBTR	ABUTH	AMASP	SETFA
8	BALANCE	75	WG	.117	LB A/A	-1WK	0	88	88	95	82	0	88	88	95	75
8	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
8	BUCTRIL	2	EC	.25	LB A/A	10C										
8	AATREX	4	F	.5	LB A/A	10C										
9	BALANCE	75	WG	.094	LB A/A	-1WK	0	82	85	92	75	0	78	82	88	73
9	AATREX	4	F	1	LB A/A	-1WK										
9	PRINCEP	4	F	1	LB A/A	-1WK										
9	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
10	BICEP II MAGNUM	5.5	L	2.89	LB A/A	-1WK	0	55	55	68	18	0	45	52	65	22
10	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK										
11	BALANCE	75	WG	.094	LB A/A	PRE	0	42	43	62	28	0	35	40	55	23
11	AATREX	4	F	1.5	LB A/A	PRE										
11	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
12	EXP 31809B	4	SC	.094	LB A/A	PRE	0	58	55	68	43	0	55	55	68	40
12	AATREX	4	F	1.5	LB A/A	PRE										
12	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
13	BALANCE	75	WG	.094	LB A/A	PRE	0	78	85	85	58	0	72	82	78	53
13	HARNESS	7	EC	.875	LB A/A	PRE										
13	AATREX	4	F	1.5	LB A/A	PRE										
13	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
14	EXP 31809B	4	SC	.094	LB A/A	PRE	0	78	82	88	62	0	72	75	82	50
14	HARNESS	7	EC	.875	LB A/A	PRE										
14	AATREX	4	F	1.5	LB A/A	PRE										
14	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										

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

Trial ID: C9007  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	AMBTR	ABUTH	AMACH	SETFA	ZEAMX	AMBTR	ABUTH	AMASP	SETFA
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	ZEAMX	AMBTR	ABUTH	AMACH	SETFA	ZEAMX	AMBTR	ABUTH	AMASP	SETFA
15	BALANCE	75	WG	.094	LB A/A	PRE	0	77	82	92	82	0	77	75	85	75
15	AATREX	4	F	1	LB A/A	PRE										
15	PRINCEP	4	F	1	LB A/A	PRE										
15	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
16	BALANCE	4	SC	.094	LB A/A	PRE	0	88	85	92	73	0	82	85	92	72
16	BICEP II MAGNUM	5.5	L	1.925	LB A/A	PRE										
16	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
17	BALANCE	4	SC	.094	LB A/A	PRE	0	83	82	92	63	0	77	82	85	60
17	HARNES XTRA	5.6	EC	2.24	LB A/A	PRE										
17	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
18	BALANCE	75	WG	.117	LB A/A	PRE	0	95	92	92	77	0	95	92	92	67
18	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
18	BUCTRIL	2	EC	.25	LB A/A	10C										
18	AATREX	4	F	.5	LB A/A	10C										
19	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	42	55	75	23	0	40	47	72	20
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE										
LSD (P=.05)							0.0	32.2	31.6	21.3	42.6	0.0	27.5	27.0	23.2	35.6
Standard Deviation							0.0	19.5	19.2	12.9	25.8	0.0	16.7	16.4	14.1	21.6
CV							0.0	28.19	27.24	15.73	46.89	0.0	25.77	24.33	17.99	43.5

NO-TILL CORN EARLY PREPLANT

Trial ID: C9007                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY                      Postal Code: 40546  
Investigator: Charles H. SlackTrial Status: COMPLETE                      Initiation Date: 4-22-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.AMBTR GIANT RAGWEED                      2.ABUTH VELVETLEAF  
Weed 3.AMASP SMOOTH PIGWEED                      4.SETFA GIANT FOXTAILCrop 1:ZEAMX CORN                      Variety: DEKALB DK 626                      Planting Date: 4-22-99  
Planting Method: ROW                      Rate: 26000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 63 F                      Soil Moisture: ADEQUATE                      Emergence Date: 4-29-99Plot 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: 4.8                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 27                      Soil Name: LANTON                      Fertility Level: EXCELLENTOverall Moisture Conditions: WET-DRY-DRY  
Closest Weather Station: SPINDLETOP

Distance: 1.5                      Unit: MI

## NO-TILL CORN EARLY PREPLANT

Trial ID: C9007

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-22-99	4-29-99	6-3-99			
Time of Day:	10:00 AM	2:00 PM	3:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	1 WK	10" CORN			
Applic. Placement:	20	20	20			
Air Temp., Unit:	77 F	66 F	79 F			
% Relative Humidity:	69	90	98			
Wind Velocity, Unit:	3 MPH	2 MPH	1 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	63 F	67 F	76 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	35	45	50			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX			10" CORN			
			4-6 LVS			
			10 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMBTR			10" CORN			
			8 LVS			
			6"			

## 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			
Propellant:	CO2	CO2	CO2			

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

Trial ID: C9008  
Location: LEXINTONG, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	ABUTH	AMBTR	ZEAMX	SETFA	ABUTH	AMBTR
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
1	EPIC	58	DF	.435	LB A/A	-1WK	0	90	87	93	0	87	87	92
1	AATREX	4	F	1.8	LB A/A	-1WK								
1	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	-1WK								
1	INDUCE			.25	% V/V	-1WK								
2	EPIC	58	DF	.54	LB A/A	-1WK	0	93	93	93	0	93	93	93
2	AATREX	4	F	1.8	LB A/A	-1WK								
2	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	-1WK								
2	INDUCE			.25	% V/V	-1WK								
3	EPIC	58	DF	.435	LB A/A	-1WK	0	92	95	95	0	92	95	95
3	AATREX	4	F	1.8	LB A/A	-1WK								
3	WEEDONE LV4	3.8	E	.5	LB A/A	-1WK								
3	COC		L	1	QT/A	-1WK								
4	AXIOM	68	DF	.81	LB A/A	-1WK	0	57	82	90	0	30	82	90
4	AATREX	4	F	1.35	LB A/A	-1WK								
4	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK								
5	EPIC	58	DF	.435	LB A/A	-1WK	0	82	85	88	0	72	82	75
5	COC		L	1	QT/A	-1WK								
6	DUAL II MAGNUM	7.6	EC	1.59	LB A/A	-1WK	0	80	90	90	0	58	90	90
6	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	-1WK								
6	INDUCE			.35	% V/V	-1WK								
6	HORNET	85.6	WG	.128	LB A/A	MP								
6	COC		L	1	QT/A	MP								

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

Trial ID: C9008

Study Dir.:

Location: LEXINTONG, KY.

Investigator: Charles H. Slack

Weed Code	SETFA	ABUTH	AMBTR	SETFA	ABUTH	AMBTR
Crop Code	ZEAMX			ZEAMX		
Part Rated						
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						
Crop Stage						
Crop Stage Scale						
Weed Stage						
Weed Density, Unit						
Footnote Number						
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 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 Conc	Form Type	Rate	Rate Unit	Grow Stg	0	90	92	90	0	90	92	90
7	EPIC	58	DF	.435	LB A/A	PRE	0	90	92	90	0	90	92	90
7	AATREX	4	F	1.8	LB A/A	PRE								
7	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
7	INDUCE			.25	% V/V	PRE								
8	EPIC	58	DF	.54	LB A/A	PRE	0	90	92	93	0	82	92	92
8	AATREX	4	F	1.8	LB A/A	PRE								
8	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
8	INDUCE			.25	% V/V	PRE								
9	EPIC	58	DF	.435	LB A/A	PRE	0	92	95	95	0	88	95	95
9	AATREX	4	F	1.8	LB A/A	PRE								
9	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
9	COC		L	1	QT/A	PRE								
10	AXIOM	68	DF	.81	LB A/A	PRE	0	92	82	82	0	70	82	82
10	AATREX	4	F	1.35	LB A/A	PRE								
10	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
11	EPIC	58	DF	.435	LB A/A	PRE	0	75	90	83	0	75	90	83
11	COC		L	1	QT/A	PRE								
12	DUAL II MAGNUM	7.6	EC	1.59	LB A/A	PRE	0	88	90	88	0	68	90	88
12	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE								
12	INDUCE			.25	% V/V	PRE								
12	HORNET	85.6	WG	.128	LB A/A	MP								
12	COC		L	1	QT/A	MP								



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

Trial ID: C9008  
Location: LEXINTONG, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	ZEAMX	SETFA	ABUTH	AMBTR	ZEAMX	SETFA	ABUTH	AMBTR
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg
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LSD (P=.05)	0.0	16.7	6.9	7.6	0.0	28.9	7.6	10.7
Standard Deviation	0.0	9.9	4.1	4.5	0.0	17.1	4.5	6.3
CV	0.0	11.6	4.56	4.99	0.0	22.65	5.02	7.14



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

Trial ID: C9008

Study Dir.:

Location: LEXINTONG, KY.

Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	4-22-99	4-29-99	5-25-99			
Time of Day:	2:00 PM	5:00 PM	10:00 AM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	1 WK PRE	PRE	MP			
Applic. Placement:	BROSOI	BROSOI	BROFOL			
Air Temp., Unit:	75 F	88 F	70 F			
% Relative Humidity:	45	80	92			
Wind Velocity, Unit:	8 MPH	6 MPH	5 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	62 F	64 F	69 F			
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUAT			
% Cloud Cover:	10	30	20			

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
ZEAMX			4 LF 7 IN			

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
SETFA			2 IN 2 LF			
AMBTR			4 LF 4-5 IN			
ABUTH			4 LF 3 IN			

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

Trial ID: C9008

Study Dir.:

Location: LEXINTONG, KY.

Investigator: Charles H. Slack

	APPLICATION EQUIPMENT							
	A	B		C		D	E	F
Appl. Equipment:	ATV	ATV		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:	3.5 MPH	3.5 MPH		3.5 MPH				
Carrier:	WATER	WATER		WATER				
Spray Volume, Unit:	24 GPA	24 GPA		24 GPA				
Propellant:	CO2	CO2		CO2				

Dept. of Agronomy, Univ. of KY  
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SOYBEAN PREEMERGERNCE

Trial ID: S9011  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
1	PROWL	3.3	EC	1	LB A/A	PRE	0	47	82	90	38	0	100	70	87	28
1	PURSUIT	2	EC	.063	LB A/A	MP										
1	STATUS	2	EC	.156	LB A/A	MP										
1	INDUCE			.25	% V/V	MP										
1	LIQUID N		L	1	QT/A	MP										
2	PROWL	3.3	EC	1	LB A/A	PRE	0	83	83	95	33	0	75	67	82	23
2	RAPTOR	1	E	.04	LB A/A	MP										
2	INDUCE			.25	% V/V	MP										
2	LIQUID N		L	1	QT/A	MP										
3	SQUADRON	2.33	EC	.87	LB A/A	PRE	0	43	28	40	33	0	23	55	68	18
3	PROWL	3.3	EC	.5	LB A/A	PRE										
3	STATUS	2	EC	.156	LB A/A	MP										
3	INDUCE			.25	% V/V	MP										
4	STEEL	2.57	EC	.965	LB A/A	PRE	0	28	47	65	38	0	18	63	43	35
4	PROWL	3.3	EC	.5	LB A/A	PRE										
4	STATUS	2	EC	.156	LB A/A	MP										
4	INDUCE			.25	% V/V	MP										
5	COMMAND	3	ME	.75	LB A/A	PRE	0	100	90	20	22	0	80	80	47	80
5	CANOPY XL															
5	AUTHORITY	75	DF	.132	LB A/A	PRE										
5	CLASSIC	25	DF	.026	LB A/A	PRE										
6	COMMAND	3	ME	.75	LB A/A	PRE	0	77	88	87	33	0	53	67	80	20
6	PYTHON	80	WG	.05	LB A/A	PRE										
6	FIRSTRATE	84	W	.015	LB A/A	MP										
6	COC		L	1	QT/A	MP										

Dept. of Agronomy, Univ. of KY  
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SOYBEAN PREEMERGERNCE

Trial ID: S9011  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
7	CANOPY XL						0	90	95	95	70	0	77	75	90	37
7	AUTHORITY	75	DF	.1	LB A/A	PRE										
7	CLASSIC	25	DF	.02	LB A/A	PRE										
7	SENCOR	75	DF	.14	LB A/A	PRE										
7	FLUFENACET	60	DF	.15	LB A/A	PRE										
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP										
7	AMS	100	SG	17	LB/100 GAL	LP										
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP	0	77	88	92	50	0	68	70	78	40
8	AMS	100	SG	17	LB/100 GAL	LP										
9	CANOPY	75	DF	.14	LB A/A	PRE	0	93	95	95	68	0	75	77	72	50
9	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
9	AMS	100	SG	17	LB/100 GAL	LP										
10	CANOPY	75	DF	.14	LB A/A	PRE	0	100	85	85	67	0	85	80	83	50
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
10	CLASSIC	25	DF	.005	LB A/A	LP										
11	CANOPY XL						0	97	97	97	93	0	88	83	90	72
11	AUTHORITY	75	DF	.088	LB A/A	PRE										
11	CLASSIC	25	DF	.018	LB A/A	PRE										
11	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
11	AMS	100	SG	17	LB/100 GAL	LP										
12	AUTHORITY	75	DF	.14	LB A/A	PRE	0	97	98	98	90	0	88	95	93	82
12	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
12	AMS	100	SG	17	LB/100 GAL	LP										

Dept. of Agronomy, Univ. of KY  
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SOYBEAN PREEMERGERNCE

Trial ID: S9011  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
Crop Code										
Part Rated										
Rating Data Type										
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
13	CANOPY	75	DF	.188	LB A/A	PRE	0	92	92	95	40	0	75	78	85	32
13	ASSURE II	.8	EC	.069	LB A/A	MP										
13	CLASSIC	25	DF	.012	LB A/A	MP										
13	COC		L	1	QT/A	MP										
13	AMS	100	SG	2	LB/A	MP										
14	CANOPY XL						0	93	85	92	78	0	73	82	92	65
14	AUTHORITY	75	DF	.132	LB A/A	PRE										
14	CLASSIC	25	DF	.026	LB A/A	PRE										
14	ASSURE II	.8	EC	.069	LB A/A	MP										
14	CLASSIC	25	DF	.012	LB A/A	MP										
14	COC		L	1	QT/A	MP										
14	AMS	100	SG	2	LB/A	MP										
15	FRONTIER	6	E	1.2	LB A/A	PRE	0	78	75	92	30	0	72	65	90	27
15	STORM	4	EC	.75	LB A/A	MP										
15	COC		L	1	QT/A	MP										
16	FRONTIER X2	6	E	1.2	LB A/A	PRE	0	82	70	90	50	0	68	63	78	42
16	STORM	4	EC	.75	LB A/A	MP										
16	COC		L	1	QT/A	MP										
17	DUAL II	7.8	EC	1.9	LB A/A	PRE	0	75	62	88	42	0	53	52	85	22
17	STORM	4	EC	.75	LB A/A	MP										
17	COC		L	1	QT/A	MP										
18	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	0	55	82	87	55	0	47	70	73	43
18	STORM	4	EC	.75	LB A/A	MP										
18	COC		L	1	QT/A	MP										

Dept. of Agronomy, Univ. of KY  
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SOYBEAN PREEMERGERNCE

Trial ID: S9011  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	AMBTR	IPOSS	GLYMA	SETFA	XANST	AMBTR	IPOSS
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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	65	95	95	75	0	57	83	87	35
19	AMS	100	SG	17	LB/100 GAL	LP										
20	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	90	95	95	60	0	67	83	92	50
20	AMS	100	SG	17	LB/100 GAL	LP										
20	ROUNDUP ULTRA	4	AS	1	LB A/A	REG										
20	AMS	100	SG	17	LB/100 GAL	REG										
LSD (P=.05)							0.0	27.1	14.7	21.3	32.2	0.0	26.1	21.8	22.1	30.4
Standard Deviation							0.0	16.4	8.9	12.9	19.5	0.0	15.8	13.2	13.4	18.4
CV							0.0	21.05	10.9	15.26	36.64	0.0	23.55	18.1	16.8	43.37



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

SOYBEAN PREEMERGERNCE

Trial ID: S9011  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Investigator: Charles H. Slack

Postal Code: 40546

Trial Status: COMPLETE  
City: LEXINGTON

Initiation Date: 5-3-99  
State/Prov.: KY

Country: USA  
Postal Code: 40546

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA	GIANT FOXTAIL	2.XANST	COMMON COCKLEBUR
Weed 3.AMBTR	GIANT RAGWEED	4.IPOSS	MORNINGGLORY
Weed 5.ABUTH	VELVETLEAF		

Crop 1:GLYMA	SOYBEAN	Variety: ASGROW AG4301	Planting Date: 5-3-99
Planting Method: ROW		Rate: 12	S/ROW FT    Depth: 1.5 IN
		Row Spacing: 30 IN	Seed Bed: MEDIUM
Soil Temperature: 71	F	Soil Moisture: ADEQUATE	Emergence Date: 5-11-99

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

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## SOYBEAN PREEMERGERNCE

Trial ID: S9011  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	5-3-99	5-25-99	5-27-99			
Time of Day:	10:00 AM	2:00 PM	2:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	LP			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	78 F	70 F	74 F			
% Relative Humidity:	83	97	97			
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	71 F	67 F	79 F			
Soil Moisture:	ADEQUATE	ADEQUATE	DRY			
% Cloud Cover:	25	65	45			

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
GLYMA		MP	LP			
		1 TRIFOL	2 TRIFOL			

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
SETFA		MP	LP			
		2 LVS	3 LVS			
		3 IN	4 IN			
XANST		3 LVS	8 LVS			
		3 IN	5 IN			
AMBTR		4 LVS	8 LVS			
		3 IN	9 IN			
IPOSS		2 LVS	4 LVS			
		1 IN	3 IN			
ABUTH		2 LVS	4 LVS			
		2 IN	4IN			

Dept. of Agronomy, Univ. of KY  
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SOYBEAN PREEMERGERNCE

Trial ID: S9011

Study Dir.:

Location: LEXINGTON, KY

Investigator: 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		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		
Propellant:	CO2		CO2		CO2		

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

Trial ID: S9012  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	AMACH	DATST	GLYMA	SETFA	AMBTR	AMACH	DATST
Crop Code										
Part Rated										
Rating Data Type										
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg									
1	FIRSTRATE	84	W	.031	LB A/A	PRE	0	82	78	82	82	0	82	75	82
1	SELECT	2	EC	.125	LB A/A	+4"W									
1	COC		L	1	QT/A	+4"W									
2	FIRSTRATE	84	W	.039	LB A/A	PRE	0	85	78	82	83	0	85	78	82
2	SELECT	2	EC	.125	LB A/A	+4"W									
2	COC		L	1	QT/A	+4"W									
3	FIRSTRATE	84	W	.023	LB A/A	PRE	0	87	82	82	82	0	87	82	82
3	STRONGARM	82.2	WG	.005	LB A/A	PRE									
3	SELECT	2	EC	.125	LB A/A	+4"W									
3	COC		L	1	QT/A	+4"W									
4	FIRSTRATE	84	W	.023	LB A/A	PRE	0	85	77	75	75	0	85	77	75
4	STRONGARM	82.2	WG	.008	LB A/A	PRE									
4	SELECT	2	EC	.125	LB A/A	+4"W									
4	COC		L	1	QT/A	+4"W									
5	FIRSTRATE	84	W	.031	LB A/A	PRE	0	82	87	82	80	0	82	87	82
5	STRONGARM	82.2	WG	.008	LB A/A	PRE									
5	SELECT	2	EC	.125	LB A/A	+4"W									
5	COC		L	1	QT/A	+4"W									
6	FIRSTRATE	84	W	.039	LB A/A	PRE	0	82	82	78	82	0	82	82	78
6	STRONGARM	82.2	WG	.008	LB A/A	PRE									
6	SELECT	2	EC	.125	LB A/A	+4"W									
6	COC		L	1	QT/A	+4"W									

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

Trial ID: S9012  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	AMACH	DATST	GLYMA	SETFA	AMBTR	AMACH	DATST
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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	AMACH	DATST	GLYMA	SETFA	AMBTR	AMACH	DATST
7	FIRSTRATE	84	W	.039	LB A/A	PRE	0	90	82	85	82	0	90	82	85	82
7	STRONGARM	82.2	WG	.01	LB A/A	PRE										
7	SELECT	2	EC	.125	LB A/A	+4"W										
7	COC		L	1	QT/A	+4"W										
8	FIRSTRATE	84	W	.063	LB A/A	PRE	0	95	80	83	78	0	95	80	83	78
8	STRONGARM	82.2	WG	.016	LB A/A	PRE										
8	SELECT	2	EC	.125	LB A/A	+4"W										
8	COC		L	1	QT/A	+4"W										
9	STRONGARM	82.2	WG	.023	LB A/A	PRE	0	87	75	80	78	0	87	75	80	78
9	SELECT	2	EC	.125	LB A/A	+4"W										
9	COC		L	1	QT/A	+4"W										
10	PYTHON	80	WG	.063	LB A/A	PRE	0	88	82	82	80	0	88	82	82	80
10	STRONGARM	82.2	WG	.008	LB A/A	PRE										
10	SELECT	2	EC	.125	LB A/A	+4"W										
10	COC		L	1	QT/A	+4"W										
11	SCEPTER	70	WG	.125	LB A/A	PRE	0	88	85	87	82	0	88	85	87	82
11	SELECT	2	EC	.125	LB A/A	+4"W										
11	COC		L	1	QT/A	+4"W										
12	CHECK UNTREATED						0	83	50	55	57	0	83	50	55	57
12	SELECT	2	EC	.125	LB A/A	+4"W										
12	COC		L	1	QT/A	+4"W										
	LSD (P=.05)						0.0	12.1	20.2	21.3	23.2	0.0	12.1	20.3	21.3	23.2
	Standard Deviation						0.0	7.2	11.9	12.6	13.7	0.0	7.2	12.0	12.6	13.7
	CV						0.0	8.31	15.25	15.83	17.45	0.0	8.31	15.44	15.83	17.45

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

## SOYBEAN PREEMERGENCE II

Trial ID: S9012                      Study Dir.:  
Location: LEXINGTON, KY            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-3-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA	GIANT FOXTAIL	2.AMBTR	GIANT RAGWEED
Weed 3.AMACH	SMOOTH PIGWEED	4.DATST	JIMSONWEED

Crop 1:GLYMA SOYBEAN                      Variety: ASGROW AG4301                      Planting Date: 5-3-99  
Planting Method: ROW                      Rate: 12                      S/ROW FT                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 71 F                      Soil Moisture: ADEQUATE                      Emergence Date: 5-11-99

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

## SOYBEAN PREEMERGENCE II

Trial ID: S9012  
Location: LEXINGTON, KYStudy Dir.:  
Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-3-99	6-3-99				
Time of Day:	10:00 AM	2:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	+4WK				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	78 F	83 F				
% Relative Humidity:	83	92				
Wind Velocity, Unit:	3 MPH	4 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	71 F	76 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	45	55				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLYMA Stage:	PRE	+ 4 WK				
		4 TRIFOL				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	PRE	+ 4 WK				
		6 LVS				

## 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				
Propellant:	CO2	CO2				

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SOYBEAN PREEMERGENCE III

Trial ID: S9013  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	XANST	CHEAL	IPOHE	GLXMA	SETFA	XANST	CHEAL	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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2WEEK	2WEEK	2 WEEK	2 WEEK	2 WEEK	4WEEK	4WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	XANST	CHEAL	IPOHE	GLXMA	SETFA	XANST	CHEAL	IPOHE
1	SQUADRON	2.33	EC	.87	LB A/A	PRE	0	100	87	83	87	0	95	87	88	77
1	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP										
1	AMS	100	SG	2	LB/A	LP										
2	SCEPTER	70	WG	.125	LB A/A	PRE	0	100	87	87	83	0	95	87	83	77
2	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP										
2	AMS	100	SG	2	LB/A	LP										
3	PROWL	3.3	EC	1	LB A/A	PRE	10	100	53	80	67	7	95	77	90	83
3	RAPTOR	1	E	.04	LB A/A	LP										
3	INDUCE			.25	% V/V	LP										
3	AMS	100	SG	2	LB/A	LP										
4	SQUADRON	2.33	EC	.87	LB A/A	PRE	17	100	43	63	67	0	95	0	73	73
4	PROWL	3.3	EC	.5	LB A/A	PRE										
4	STATUS	2	EC	.156	LB A/A	LP										
4	COC		L	1	QT/A	LP										
5	STEEL	2.57	EC	.965	LB A/A	PRE	3	100	87	87	83	0	95	87	90	73
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP										
5	AMS	100	SG	2	LB/A	LP										
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP	0	100	85	63	70	0	95	92	67	67
6	AMS	100	SG	2	LB/A	LP										
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	92	88	77	0	95	92	87	67
7	AMS	100	SG	2	LB/A	LP										
8	CHECK UNTREATED						0	100	0	0	0	0	95	0	0	0



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SOYBEAN PREEMERGENCE III

Trial ID: S9013  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	XANST	CHEAL	IPOHE	GLXMA	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2WEEK	2WEEK	2 WEEK	2 WEEK	2 WEEK	4WEEK	4WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
LSD (P=.05)							8.5	0.0	10.0	19.6	17.3	3.6	0.0	7.7	11.3	11.1
Standard Deviation							4.9	0.0	5.7	11.2	9.9	2.0	0.0	4.4	6.4	6.3
CV							130.12	0.0	8.6	16.26	14.82	244.95	0.0	6.74	8.91	9.78

## SOYBEAN PREEMERGENCE III

Trial ID: S9013                      Study Dir.:  
Location: LEXINGTON, KY              Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-3-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.XANST COMMON COCKLEBUR  
Weed 3.CHEAL COMMON LAMBSQUARTER                      4.IPOHE IVYLEAF MORNINGGLORY

Crop 1:GLXMA SOYBEAN                      Variety: AG4702                      Planting Date: 5-3-99  
Planting Method: ROW                      Rate: 12                      S/ROW FT                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: CLODDY

Soil Temperature: 60 F

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

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

SOYBEAN PREEMERGENCE III

Trial ID: S9013  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-3-99	5-27-99				
Time of Day:	2 PM	2 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	78 F	76 F				
% Relative Humidity:	30	30				
Wind Velocity, Unit:	1 MPH	1 MPH				
Soil Temp., Unit:	60 F	66 F				
% Cloud Cover:	20	30				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		LP				
		1ST TRI				
		3 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		LP				
		5 LVS				
		4 IN				
XANST		8 LVS				
		4 IN				
CHEAL		10 LVS				
		4 IN				
IPOHE		4 LVS				
		6 IN				

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## SOYBEAN PREEMERGENCE III

Trial ID: S9013

Study Dir.:

Location: LEXINGTON, KY

Investigator: 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	4 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

SOYBEAN POSTEMERGENCE

Trial ID: S9014  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
Crop Code									
Part Rated									
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
1	FUSION	2.66	EC	.21	LB A/A	MP	0	72	93	72	0	77	57	82	60
1	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP									
1	MSO		L	1	QT/A	MP									
2	FUSION	2.66	EC	.21	LB A/A	MP	0	92	93	95	0	62	35	82	40
2	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP									
2	FIRSTRATE	84	W	.008	LB A/A	MP									
2	MSO		L	1	QT/A	MP									
3	FUSION	2.66	EC	.21	LB A/A	MP	0	92	95	95	0	57	35	78	48
3	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP									
3	FIRSTRATE	84	W	.01	LB A/A	MP									
3	MSO		L	1	QT/A	MP									
4	COMMAND	3	ME	.75	LB A/A	PRE	0	95	95	95	0	78	68	82	55
4	PURSUIT	70	DF	.063	LB A/A	MP									
4	COC		L	1	QT/A	MP									
4	LIQUID N		L	1	QT/A	MP									
5	COMMAND	3	ME	.75	LB A/A	PRE	0	92	92	92	0	77	78	87	40
5	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP									
5	MSO		L	1	QT/A	MP									
6	COMMAND	3	ME	.75	LB A/A	PRE	0	93	92	93	0	52	27	38	40
6	FIRSTRATE	84	W	.015	LB A/A	MP									
6	COC		L	1	QT/A	MP									

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Location: LEXINGTON, KY

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Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
Crop Code	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
7	COMMAND	3	ME	.75	LB A/A	PRE	0	95	95	95	0	60	43	67	40
7	PYTHON	80	WG	.05	LB A/A	PRE									
7	FIRSTRATE	84	W	.015	LB A/A	MP									
7	COC		L	1	QT/A	MP									
8	COMMAND	3	ME	.75	LB A/A	PRE	0	95	95	95	0	75	85	85	37
8	RAPTOR	1	E	.04	LB A/A	MP									
8	INDUCE			.25	% V/V	MP									
8	LIQUID N		L	1	QT/A	MP									
9	COMMAND	3	ME	.5	LB A/A	PRE	0	93	93	92	0	50	88	90	43
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP									
9	AMS	100	SG	2	% W/W	MP									
10	COMMAND	3	ME	.75	LB A/A	PRE	0	93	92	95	0	77	83	92	23
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP									
10	AMS	100	SG	2	% W/W	MP									
11	PURSUIT	70	DF	.063	LB A/A	LLP	0	95	95	95	0	28	73	85	42
11	STATUS	2	EC	.156	LB A/A	LLP									
11	COC		L	1	QT/A	LLP									
11	LIQUID N		L	1	QT/A	LLP									
12	PURSUIT	70	DF	.063	LB A/A	LLP	0	95	92	95	0	22	68	85	42
12	FLEXSTAR HL	1.88	CS	.25	LB A/A	LLP									
12	COC		L	1	QT/A	LLP									
12	LIQUID N		L	1	QT/A	LLP									

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

SOYBEAN POSTEMERGENCE

Trial ID: S9014  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
Crop Code									
Part Rated									
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
13	PURSUIT	70	DF	.063	LB A/A	LLP	0	95	95	95	0	25	60	72	33
13	FIRSTRATE	84	W	.0156	LB A/A	LLP									
13	INDUCE			.25	% V/V	LLP									
13	LIQUID N		L	1	QT/A	LLP									
14	FIRSTRATE	84	W	.0156	LB A/A	LLP	0	92	95	92	0	3	35	87	23
14	INDUCE			.25	% V/V	LLP									
14	LIQUID N		L	1	QT/A	LLP									
15	RAPTOR	1	E	.04	LB A/A	LLP	0	68	93	68	0	23	80	92	22
15	FIRSTRATE	84	W	.0078	LB A/A	LLP									
15	INDUCE			.25	% V/V	LLP									
15	LIQUID N		L	1	QT/A	LLP									
16	RAPTOR	1	E	.04	LB A/A	LLP	0	95	92	95	0	0	85	92	20
16	INDUCE			.25	% V/V	LLP									
16	LIQUID N		L	1	QT/A	LLP									
17	RAPTOR	1	E	.04	LB A/A	LLP	0	90	93	93	0	0	85	95	35
17	STATUS	2	EC	.156	LB A/A	LLP									
17	INDUCE			.25	% V/V	LLP									
17	LIQUID N		L	1	QT/A	LLP									
18	RAPTOR	1	E	.04	LB A/A	LLP	0	95	95	95	0	0	85	92	23
18	FLEXSTAR HL	1.88	CS	.25	LB A/A	LLP									
18	INDUCE			.25	% V/V	LLP									
18	LIQUID N		L	1	QT/A	LLP									

SOYBEAN POSTEMERGENCE

Trial ID: S9014  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
Crop Code									
Part Rated									
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
19	RAPTOR	1	E	.04	LB A/A	LLP	0	95	95	95	0	3	85	92	18
19	FIRSTRATE	84	W	.016	LB A/A	LLP									
19	INDUCE			.25	% V/V	LLP									
19	LIQUID N		L	1	QT/A	LLP									
20	USA 1999	75	DF	.38	LB A/A	PRE	0	82	95	95	0	78	93	95	17
20	ROUNDUP ULTRA	4	AS	.75	LB A/A	LLP									
20	AMS	100	SG	2	% W/W	LLP									
21	FLUFEMACET	60	DF	.2	LB A/A	PRE	0	92	92	90	0	80	95	95	20
21	CANOPY	75	DF	.16	LB A/A	PRE									
21	ROUNDUP ULTRA	4	AS	.75	LB A/A	LLP									
21	AMS	100	SG	2	% W/W	LLP									
22	AXIOM	68	DF	.43	LB A/A	PRE	0	95	95	95	0	78	93	95	17
22	ROUNDUP ULTRA	4	AS	.75	LB A/A	LLP									
22	AMS	100	SG	2	% W/W	LLP									
23	SENCOR	75	DF	.38	LB A/A	PRE	0	92	95	95	0	47	95	95	17
23	ROUNDUP ULTRA	4	AS	.75	LB A/A	LLP									
23	AMS	100	SG	2	% W/W	LLP									
24	MICRO-TECH	4	ME	2	LB A/A	PRE	0	91	90	93	0	43	93	93	33
24	ROUNDUP ULTRA	4	AS	1	LB A/A	LLP									
24	AMS	100	SG	2	% W/W	LLP									
25	ROUNDUP ULTRA	4	AS	1	LB A/A	LLP	0	93	95	95	0	72	93	95	15
25	AMS	100	SG	2	% W/W	LLP									



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SOYBEAN POSTEMERGENCE

Trial ID: S9014  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
Crop Code									
Part Rated									
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
Footnote Number									
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL	IPOSS
26	ROUNDUP ULTRA	4	AS	1	LB A/A	LLP	0	87	87	92	0	87	95	95	53
26	AMS	100	SG	2	% W/W	LLP									
26	ROUNDUP ULTRA	4	AS	1	LB A/A	+2W									
26	AMS	100	SG	2	% W/W	+2W									
LSD (P=.05)							0.0	21.3	6.0	20.6	0.0	41.8	25.6	12.2	27.4
Standard Deviation							0.0	12.9	3.6	12.5	0.0	25.4	15.5	7.4	16.6
CV							0.0	14.22	3.87	13.52	0.0	52.6	21.03	8.61	50.37



## SOYBEAN POSTEMERGENCE

Trial ID: S9014  
Location: LEXINGTON, KYStudy Dir.:  
Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	5-3-99	5-25-99	6-3-99	6-23-99		
Time of Day:	10:00 m	2:00 PM	1:00 PM	2:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	LLP	+2WK		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	78 F	70 F	79 F	88 F		
% Relative Humidity:	83	95	95	83		
Wind Velocity, Unit:	4 MPH	2 MPH	5 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	73 F	69 F	76 F	83 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQAUTE		
% Cloud Cover:	10	40	40	50		

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
GLYMA		MP	LLP	+2 WK		
		UNIFOL	4 TRIFOL	6 TRIFOL		
		3 IN	8 IN	10 IN		

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
SETFA		MP	LLP	+2 WK		
		4 LVS	8 LVS	2 LVS		
		3 IN	6 IN			
AMBTR		5 LVS	7 LVS			
		4 IN	8 IN			
CHEAL		6 LVS	10 LVS			
		4 IN	6 IN			
IPOSS		2 LVS	4 LVS			
		2 IN	6 IN			

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## SOYBEAN POSTEMERGENCE

Trial ID: S9014

Study Dir.:

Location: LEXINGTON, KY

Investigator: 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:	8004DG	8004DG	8004DG	8004DG		
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		

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

SOYBEAN POSTEMERGENCE II

Trial ID: S9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
1	FRONTIER	6	E	1.3	LB A/A	PRE	0	78	85	85	80	0	78	75	83	67
1	PYTHON	80	WG	.063	LB A/A	PRE										
1	FIRSTRATE	84	W	.016	LB A/A	MP										
1	COC		L	1	QT/A	MP										
2	FRONTIER	6	E	1.3	LB A/A	PRE	0	87	92	92	62	0	67	80	88	55
2	PYTHON	80	WG	.063	LB A/A	PRE										
2	FRONTROW															
2	CLORANSULAM	84	W	.016	LB A/A	MP										
2	FLUMETSULAM	80	WG	.006	LB A/A	MP										
2	COC		L	1.2	QT/A	MP										
3	PYTHON	80	WG	.063	LB A/A	PRE	0	92	92	95	77	0	72	85	87	60
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP										
3	AMS	100	SG	17	LB/100 GAL	MP										
4	PYTHON	80	WG	.063	LB A/A	PRE	0	90	93	95	55	0	78	83	88	45
4	TOUCHDOWN 5	5	SL	.75	LB A/A	MP										
4	AMS	100	SG	8.5	LB/100 GAL	MP										
5	FRONTIER	6	E	1.3	LB A/A	PRE	0	80	10	15	13	0	70	10	12	13
5	PYTHON	80	WG	.063	LB A/A	PRE										
6	PYTHON	80	WG	.063	LB A/A	PRE	0	95	93	93	50	0	82	85	90	47
6	FIRSTRATE	84	W	.016	LB A/A	MP										
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP										
7	STRONGARM	82.2	WG	.024	LB A/A	PRE	0	87	92	95	78	0	83	82	87	67
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP										
7	AMS	100	SG	17	LB/100 GAL	MP										

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SOYBEAN POSTEMERGENCE II

Trial ID: S9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
8	FRONTIER	6	E	1.3	LB A/A	PRE	0	70	85	78	47	0	57	17	58	43
8	FIRSTRATE	84	W	.016	LB A/A	MP										
8	COC		L	1.2	QT/A	MP										
9	FRONTIER	6	E	1.3	LB A/A	PRE	0	82	80	65	62	0	67	35	62	50
9	FIRSTRATE	84	W	.016	LB A/A	MP										
9	COC		L	1.2	QT/A	MP										
9	FIRSTRATE	84	W	.016	LB A/A	+2W										
9	COC		L	1.2	QT/A	+2W										
10	FRONTIER	6	E	1.3	LB A/A	PRE	0	85	83	82	55	0	82	60	75	50
10	FIRSTRATE	84	W	.031	LB A/A	MP										
10	COC		L	1.2	QT/A	MP										
11	FIRSTRATE	84	W	.008	LB A/A	MP	0	88	92	88	45	0	75	68	82	37
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP										
11	AMS	100	SG	17	LB/100 GAL	MP										
12	FIRSTRATE	84	W	.016	LB A/A	MP	0	85	92	92	80	0	68	78	85	63
12	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP										
12	AMS	100	SG	17	LB/100 GAL	MP										
13	FIRSTRATE	84	W	.008	LB A/A	MP	0	90	93	92	77	0	77	70	85	55
13	TOUCHDOWN 5	5	SL	.75	LB A/A	MP										
13	AMS	100	SG	8.5	LB/100 GAL	MP										
14	FIRSTRATE	84	W	.016	LB A/A	MP	0	85	88	92	57	0	68	77	82	43
14	TOUCHDOWN 5	5	SL	.75	LB A/A	MP										
14	AMS	100	SG	8.5	LB/100 GAL	MP										

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SOYBEAN POSTEMERGENCE II

Trial ID: S9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
Crop Code										
Part Rated										
Rating Data Type										
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
15	FIRSTRATE	84	W	.016	LB A/A	MP	0	85	82	87	48	0	73	37	77	42
15	BLAZER	2	L	.25	LB A/A	MP										
15	SELECT	2	EC	.125	LB A/A	MP										
15	COC		L	1.2	QT/A	MP										
16	FRONTIER	6	E	1.4	LB A/A	PRE	0	85	28	20	33	0	77	12	10	17
16	FIRSTRATE	84	W	.031	LB A/A	PRE										
17	FRONTIER	6	E	1.4	LB A/A	PRE	0	85	37	23	57	0	62	18	17	47
17	FIRSTRATE	84	W	.039	LB A/A	PRE										
18	FRONTIER	6	E	1.4	LB A/A	PRE	0	95	92	92	73	0	85	75	83	57
18	FRONTROW															
18	COLORANSULAM	84	W	.016	LB A/A	MP										
18	FLUMETSULAM	80	WG	.006	LB A/A	MP										
18	COC		L	1.2	QT/A	MP										
19	FRONTIER	6	E	1.3	LB A/A	PRE	0	92	88	77	65	0	83	75	70	58
19	FRONTROW															
19	COLORANSULAM	84	W	.016	LB A/A	MP										
19	FLUMETSULAM	80	WG	.006	LB A/A	MP										
19	COC		L	1.2	QT/A	MP										
19	FRONTROW															
19	COLORANSULAM	84	W	.016	LB A/A	+2W										
19	FLUMETSULAM	80	WG	.006	LB A/A	+2W										
19	COC		L	1.2	QT/A	+2W										

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SOYBEAN POSTEMERGENCE II

Trial ID: S9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Part Rated										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
20	FRONTROW						0	90	88	90	73	0	77	65	77	60
20	CLORANSULAM	84	W	.016	LB A/A	MP										
20	FLUMETSULAM	80	WG	.006	LB A/A	MP										
20	ROUNDUP ULTRA	4	AS	.5	LB A/A	MP										
20	AMS	100	SG	17	LB/100 GAL	MP										
21	FRONTROW						0	82	88	88	55	0	70	28	75	45
21	CLORANSULAM	84	W	.016	LB A/A	MP										
21	FLUMETSULAM	80	WG	.006	LB A/A	MP										
21	BLAZER	2	L	.25	LB A/A	MP										
21	SELECT	2	EC	.125	LB A/A	MP										
21	COC		L	1	QT/A	MP										
22	FRONTIER	6	E	1.3	LB A/A	PRE	0	83	88	88	48	0	68	35	82	42
22	FIRSTRATE	84	W	.016	LB A/A	MP										
22	BUTRAC 200	2	EC	.031	LB A/A	MP										
22	COC		L	1.2	QT/A	MP										
23	FRONTIER	6	E	1.3	LB A/A	PRE	0	78	38	10	10	0	75	17	10	10
24	FRONTROW						0	0	88	85	78	0	7	55	78	65
24	CLORANSULAM	84	W	.016	LB A/A	MP										
24	FLUMETSULAM	80	WG	.006	LB A/A	MP										
24	BUTRAC 200	2	EC	.031	LB A/A	MP										
24	COC		L	1.2	QT/A	MP										
25	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	88	92	85	68	0	82	78	82	52
25	AMS	100	SG	17	LB/100 GAL	MP										



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SOYBEAN POSTEMERGENCE II

Trial ID: S9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
26	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	92	95	95	65	0	92	85	92	55
26	AMS	100	SG	17	LB/100 GAL	MP										
26	ROUNDUP ULTRA	4	AS	1	LB A/A	REG										
26	AMS	100	SG	17	LB/100 GAL	REG										
27	TOUCHDOWN 5	5	SL	.75	LB A/A	MP	0	92	88	92	43	0	78	42	78	37
27	AMS	100	SG	8.5	LB/100 GAL	MP										
28	TOUCHDOWN 5	5	SL	.75	LB A/A	MP	0	87	92	92	40	0	85	78	85	35
28	AMS	100	SG	8.5	LB/100 GAL	MP										
28	TOUCHDOWN 5	5	SL	.75	LB A/A	REG										
28	AMS	100	SG	8.5	LB/100 GAL	REG										
LSD (P=.05)							0.0	12.1	14.7	10.3	31.9	0.0	16.3	23.3	12.7	26.1
Standard Deviation							0.0	7.4	9.0	6.3	19.5	0.0	10.0	14.3	7.8	16.0
CV							0.0	8.94	11.2	8.08	34.29	0.0	13.71	24.88	11.03	34.02

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Weed Science Field Research

## SOYBEAN POSTEMERGENCE II

Trial ID: S9015                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-3-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

## CROP AND PEST DESCRIPTION

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

Crop 1:GLYMA SOYBEAN                      Variety: ASGROW 4702                      Planting Date: 5-3-99  
Planting Method: ROW                      Rate: 12                      S/ROW-FT                      Depth: 1.5 IN  
Soil Temperature: 71                      Row Spacing: 30 IN                      Seed Bed: MEDIUM  
F Soil Moisture: NORMAL                      Emergence Date: 5-11-99

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

SOYBEAN POSTEMERGENCE II

Trial ID: S9015  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-3-99	5-25-99	6-8-99	6-30-99		
Time of Day:	10:00 AM	2:00 OM	3:00 PM	11:00 AM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	+2 WK	REG		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	78 F	70 F	88 F	83 F		
% Relative Humidity:	83	97	83	96		
Wind Velocity, Unit:	4 MPH	5 MPH	5 MPH	2 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	71 F	69 F	81 F	80 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	10	50	45		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		MP	+ 2WK	REG		
		UNIFOL	3 TRIFOL	5 TROFOL		
		4 IN	8 IN	10 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	+ 2WK	REG		
		4 LVS	2 LVS	2 LVS		
		3 IN				
CHEAL		10 LVS	4 LVS	4 LVS		
		4 IN				
XANST		4 LVS	2 LVS	2 LVS		
		4-5 IN				
IPOSS		2 LVS	1 LVS	2 LVS		
		3 IN				

## SOYBEAN POSTEMERGENCE II

Trial ID: S9015

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	3.5 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		

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SOYBEAN POSTEMERGENCE III

Trial ID: S9016  
Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
P	P	P	P	P	P	P	P	P
0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
1	COBRA	2	EC	.094	LB A/A	MP	0	100	50	92	0	100	33	92
1	COC		L	.5	QT/A	MP								
1	AMS	100	SG	2	LB/A	MP								
1	SELECT	2	EC	.094	LB A/A	+2D								
1	COC		L	1	QT/A	+2D								
2	COBRA	2	EC	.094	LB A/A	MP	0	100	50	97	0	100	37	97
2	FIRSTRATE	84	W	.016	LB A/A	MP								
2	COC		L	.5	QT/A	MP								
2	AMS	100	SG	2	LB/A	MP								
2	SELECT	2	EC	.094	LB A/A	+2D								
2	COC		L	1	QT/A	+2D								
3	COBRA	2	EC	.125	LB A/A	MP	0	100	53	90	0	100	33	90
3	COC		L	.5	QT/A	MP								
3	AMS	100	SG	2	LB/A	MP								
3	SELECT	2	EC	.094	LB A/A	+2D								
3	COC		L	1	QT/A	+2D								
4	COBRA	2	EC	.125	LB A/A	MP	0	100	37	100	0	100	23	100
4	FIRSTRATE	84	W	.016	LB A/A	MP								
4	COC		L	.5	QT/A	MP								
4	AMS	100	SG	2	LB/A	MP								
4	SELECT	2	EC	.094	LB A/A	+2D								
4	COC		L	1	QT/A	+2D								

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

SOYBEAN POSTEMERGENCE III

Trial ID: S9016  
Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Code								
Part Rated								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
5	COBRA	2	EC	.094	LB A/A	MP	0	100	78	100	0	100	73	100
5	FIRSTRATE	84	W	.016	LB A/A	MP								
5	PINNACLE	25	DF	.002	LB A/A	MP								
5	COC		L	.5	QT/A	MP								
5	AMS	100	SG	2	LB/A	MP								
5	SELECT	2	EC	.094	LB A/A	+2D								
5	COC		L	1	QT/A	+2D								
6	FIRSTRATE	84	W	.016	LB A/A	MP	0	100	40	98	0	100	37	95
6	COC		L	.5	QT/A	MP								
6	AMS	100	SG	2	LB/A	MP								
6	SELECT	2	EC	.094	LB A/A	+2D								
6	COC		L	1	QT/A	+2D								
7	COBRA	2	EC	.094	LB A/A	MP	0	100	48	92	0	100	37	92
7	SELECT	2	EC	.094	LB A/A	MP								
7	COC		L	.5	QT/A	MP								
7	AMS	100	SG	2	LB/A	MP								
8	COBRA	2	EC	.094	LB A/A	MP	0	100	40	98	0	100	30	98
8	FIRSTRATE	84	W	.016	LB A/A	MP								
8	SELECT	2	EC	.094	LB A/A	MP								
8	COC		L	.5	QT/A	MP								
8	AMS	100	SG	2	LB/A	MP								
9	COBRA	2	EC	.094	LB A/A	MP	0	100	63	97	0	100	43	97
9	FIRSTRATE	84	W	.016	LB A/A	MP								
9	SELECT	2	EC	.125	LB A/A	MP								
9	COC		L	.5	QT/A	MP								
9	AMS	100	SG	2	LB/A	MP								

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Weed Science Field Research

SOYBEAN POSTEMERGENCE III

Trial ID: S9016  
Location:

Study Dir.:  
Investigator: Charles H. Slack

	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Weed Code								
Crop Code								
Part Rated								
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
10	FIRSTRATE	84	W	.016	LB A/A	MP	0	100	27	98	0	100	27	98
10	SELECT	2	EC	.094	LB A/A	MP								
10	COC		L	.5	QT/A	MP								
10	AMS	100	SG	2	LB/A	MP								
11	SELECT	2	EC	.094	LB A/A	MP	0	100	0	0	0	100	0	0
11	COC		L	.5	QT/A	MP								
11	AMS	100	SG	2	LB/A	MP								
12	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	92	98	0	100	90	98
13	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	92	98	0	100	90	98
13	COC		L	.5	QT/A	LP								
14	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	85	100	0	100	82	100
14	RESOURCE	.86	EC	.014	LB A/A	LP								
14	COC		L	.5	QT/A	LP								
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	88	100	0	100	85	100
15	RESOURCE	.86	EC	.020	LB A/A	LP								
15	COC		L	.5	QT/A	LP								
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	92	100	0	100	88	100
16	RESOURCE	.86	EC	.027	LB A/A	LP								
16	COC		L	.5	QT/A	LP								
17	SELECT	2	EC	.094	LB A/A	MP	0	100	0	0	0	100	0	0
17	COC		L	.5	QT/A	MP								

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SOYBEAN POSTEMERGENCE III

Trial ID: S9016  
Location:

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
18	SELECT	2	EC	.094	LB A/A	MP	0	100	0	0	0	100	0	0
18	COC		L	.5	QT/A	MP								
18	AMS	100	SG	2.5	LB/A	MP								
18														
19	SELECT	2	EC	.094	LB A/A	MP	0	100	23	100	0	100	23	100
19	FIRSTRATE	84	W	.016	LB A/A	MP								
19	COC		L	.5	QT/A	MP								
20	SELECT	2	EC	.094	LB A/A	MP	0	100	30	100	0	100	27	100
20	FIRSTRATE	84	W	.016	LB A/A	MP								
20	COC		L	.5	QT/A	MP								
20	AMS	100	SG	2.5	LB/A	MP								
21	FUSION	2.66	EC	.16	LB A/A	MP	0	100	0	0	0	100	0	0
21	COC		L	1	QT/A	MP								
22	FUSION	2.66	EC	.16	LB A/A	MP	0	100	23	100	0	100	23	100
22	FIRSTRATE	84	W	.016	LB A/A	MP								
22	COC		L	1	QT/A	MP								
23	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	93	100	0	100	88	100
23	AMS	100	SG	8.5	LB/A	LP								
24	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	87	100	0	100	85	100
24	AMS	100	SG	8.5	LB/A	LP								
24	TOUCHDOWN 5	5	SL	1	LB A/A	REG								
24	AMS	100	SG	8.5	LB A/A	REG								



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SOYBEAN POSTEMERGENCE III

Trial ID: S9016  
Location:

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Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
25	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	93	100	0	100	93	100
25	AMS	100	SG	17	LB/100 GAL	LP								
26	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	95	100	0	100	95	100
26	AMS	100	SG	17	LB/100 GAL	LP								
26	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
26	AMS	100	SG	17	LB/100 GAL	REG								
LSD (P=.05)							0.0	0.0	15.6	5.0	0.0	0.0	14.4	5.5
Standard Deviation							0.0	0.0	9.5	3.0	0.0	0.0	8.7	3.3
CV							0.0	0.0	17.87	3.63	0.0	0.0	18.29	3.99

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SOYBEAN POSTEMERGENCE III

Trial ID: S9016  
Location:

Study Dir.:  
Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack

Postal Code: 40546

Trial Status: complete  
City: Lexington

Initiation Date: 5-3-99  
State/Prov.: KY

Country: USA  
Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL  
Weed 2.CHEAL COMMON LAMBSQUARTERS  
Weed 3.XANST COMMON COCKLEBUR

Crop 1:GLXMA SOYBEAB  
Planting Method: ROW

Variety: AG4501  
Rate: 12  
Row Spacing: 30 IN

Planting Date: 5-3-99  
S/ROW-FT Depth: 1.5 IN  
Seed Bed: MEDIUM

Soil Temperature: 70

F Soil Moisture: DRY

Emergence Date: 5-13-99

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  
pH: 6.5 CEC: 17

% OM: 2.7 % Sand: 6.7 % Silt: 64 % Clay: 30  
Soil Name: MAURY Fertility Level: EXCELLENT

Overall Moisture Conditions: DRY

Closest Weather Station: SPINDLETOP

Distance: 1 Unit: MI

## SOYBEAN POSTEMERGENCE III

Trial ID: S9016

Study Dir.:

Location:

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-25-99	5-27-99	6-23-99			
Time of Day:	11:00 AM	2:00 PM	2:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	MP	LP	REG			
Applic. Placement:	BROFOL	BROFOL	BROFOL			
Air Temp., Unit:	68 F	74 F	86 F			
% Relative Humidity:	90	92	80			
Wind Velocity, Unit:	5 MPH	2 MPH	5 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	72 F	74 F	82 F			
Soil Moisture:	INADEQUAT	INADEQUAT	INADEQUAT			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA						
Stage Scale:	1 TRIFOL	1 TRIFOL				
Height, Unit:	2 IN	3 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	MP	LP				
Stage Scale:	2 LF	4 LF				
Density, Unit:	3 IN	4 IN				
Weed 2 CHEAL Stage:	MP	LP				
Stage Scale:	10 LF	12 LF				
Density, Unit:	2 IN	3 IN				
Weed 3 XANST Stage:	MP	LP				
Stage Scale:	4 LF	4 LF				
Density, Unit:	3 IN	5 IN				

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## SOYBEAN POSTEMERGENCE III

Trial ID: S9016

Study Dir.:

Location:

Investigator: 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:	5 FT	5 FT	5 FT			
Boom Height, Unit:	19 IN	19 IN	19 IN			
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA			
Propellant:	CO2	CO2	CO2			
		C				

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SOYBEAN POSTEMERGENCE IV

Trial ID: S9017  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
1	SELECT	2	EC	.094	LB A/A	MP	0	100	0	0	0	0	96	0	0	0
1	COC		L	1	QT/A	MP										
1	AMS	100	SG	2.5	LB/A	MP										
2	SELECT	2	EC	.094	LB A/A	MP	0	98	92	0	77	0	98	92	0	73
2	FIRSTRATE	84	W	.016	LB A/A	MP										
2	COC		L	1	QT/A	MP										
2	AMS	100	SG	2.5	LB/A	MP										
3	SELECT	2	EC	.094	LB A/A	MP	7	97	87	85	90	0	97	90	63	80
3	FIRSTRATE	84	W	.016	LB A/A	MP										
3	PINNACLE	25	DF	.002	LB A/A	MP										
3	COC		L	.5	QT/A	MP										
3	AMS	100	SG	2.5	LB/A	MP										
4	SELECT	2	EC	.094	LB A/A	MP	20	97	95	87	90	0	98	93	65	80
4	FIRSTRATE	84	W	.016	LB A/A	MP										
4	COBRA	2	EC	.094	LB A/A	MP										
4	PINNACLE	25	DF	.002	LB A/A	MP										
4	COC		L	.5	QT/A	MP										
4	AMS	100	SG	2.5	LB/A	MP										
5	SELECT	2	EC	.125	LB A/A	MP	27	96	92	88	92	0	98	93	65	82
5	FIRSTRATE	84	W	.016	LB A/A	MP										
5	COBRA	2	EC	.094	LB A/A	MP										
5	PINNACLE	25	DF	.002	LB A/A	MP										
5	COC		L	.5	QT/A	MP										
5	AMS	100	SG	2.5	LB/A	MP										

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SOYBEAN POSTEMERGENCE IV

Trial ID: S9017  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
6	SELECT	2	EC	.094	LB A/A	MP	7	92	88	70	90	0	92	78	17	87
6	FIRSTRATE	84	W	.016	LB A/A	MP										
6	PINNACLE	25	DF	.002	LB A/A	MP										
6	INDUCE			.125	% V/V	MP										
6	AMS	100	SG	2.5	LB/A	MP										
7	SELECT	2	EC	.094	LB A/A	MP	23	92	90	88	90	0	90	90	67	80
7	FIRSTRATE	84	W	.016	LB A/A	MP										
7	COBRA	2	EC	.094	LB A/A	MP										
7	PINNACLE	25	DF	.002	LB A/A	MP										
7	INDUCE			.125	% V/V	MP										
7	AMS	100	SG	2.5	LB/A	MP										
8	SELECT	2	EC	.125	LB A/A	MP	7	95	82	90	88	0	96	85	67	80
8	FIRSTRATE	84	W	.016	LB A/A	MP										
8	PINNACLE	25	DF	.002	LB A/A	MP										
8	INDUCE			.125	% V/V	MP										
8	AMS	100	SG	2.5	LB/A	MP										
9	SELECT	2	EC	.125	LB A/A	MP	23	96	90	88	92	0	93	90	80	80
9	FIRSTRATE	84	W	.016	LB A/A	MP										
9	COBRA	2	EC	.094	LB A/A	MP										
9	PINNACLE	25	DF	.002	LB A/A	MP										
9	INDUCE			.125	% V/V	MP										
9	AMS	100	SG	2.5	LB/A	MP										
10	PINNACLE	25	DF	.002	LB A/A	MP	0	0	77	87	83	0	0	33	70	80
10	INDUCE			.125	% V/V	MP										
10	AMS	100	SG	2.5	LB/A	MP										

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SOYBEAN POSTEMERGENCE IV

Trial ID: S9017  
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Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
11	FUSION	2.66	EC	.16	LB A/A	MP	0	100	0	0	0	0	100	0	0	0
11	COC		L	1	QT/A	MP										
11	AMS	100	SG	2.5	LB/A	MP										
12	FUSION	2.66	EC	.16	LB A/A	MP	0	90	87	28	78	0	95	90	0	83
12	FIRSTRATE	84	W	.016	LB A/A	MP										
12	COC		L	1	QT/A	MP										
12	AMS	100	SG	2.5	LB/A	MP										
13	SELECT	2	EC	.094	LB A/A	MP	0	100	0	0	0	0	100	0	0	0
13	COC		L	1	QT/A	MP										
14	SELECT	2	EC	.094	LB A/A	MP	3	92	87	80	87	0	85	83	60	77
14	RAPTOR	1	E	.032	LB A/A	MP										
14	COC		L	.5	QT/A	MP										
15	SELECT	2	EC	.094	LB A/A	MP	3	90	90	87	87	0	92	87	57	77
15	RAPTOR	1	E	.039	LB A/A	MP										
15	COC		L	.5	QT/A	MP										
16	SELECT	2	EC	.094	LB A/A	MP	27	92	93	88	92	0	93	93	73	80
16	RAPTOR	1	E	.032	LB A/A	MP										
16	COBRA	2	EC	.1	LB A/A	MP										
16	COC		L	.5	QT/A	MP										
17	SELECT	2	EC	.125	LB A/A	MP	20	96	93	90	90	0	95	95	82	80
17	RAPTOR	1	E	.032	LB A/A	MP										
17	COBRA	2	EC	.1	LB A/A	MP										
17	COC		L	.5	QT/A	MP										

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SOYBEAN POSTEMERGENCE IV

Trial ID: S9017  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
18	PRESTIGE	1	E	.188	LB A/A	MP	10	62	82	87	88	0	92	83	85	80
18	RAPTOR	1	E	.039	LB A/A	MP										
18	COC		L	.5	LB A/A	MP										
19	PRESTIGE	1	E	.188	LB A/A	MP	0	100	0	0	0	0	100	0	0	0
19	COC		L	.5	LB A/A	MP										
20	RAPTOR	1	E	.039	LB A/A	MP	0	87	90	297	82	0	91	87	13	80
20	COC		L	.5	LB A/A	MP										
21	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP	0	100	96	95	90	0	100	95	88	80
21	AMS	100	SG	17	LB/100 GAL	MP										
22	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	100	95	92	88	0	98	95	87	80
22	AMS	100	SG	17	LB/100 GAL	MP										
23	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	3	100	93	92	92	0	99	93	90	75
23	AMS	100	SG	17	LB/100 GAL	MP										
23	ROUNDUP ULTRA	4	AS	1	LB A/A	REG										
23	AMS	100	SG	17	LB/100 GAL	REG										
24	TOUCHDOWN 5	5	SL	1	LB A/A	MP	10	100	93	92	90	0	96	92	82	80
24	AMS	100	SG	8.5	LB/A	MP										
25	TOUCHDOWN 5	5	SL	1	LB A/A	MP	10	100	93	90	90	0	99	96	82	80
25	AMS	100	SG	8.5	LB/A	MP										
25	TOUCHDOWN 5	5	SL	1	LB A/A	REG										
25	AMS	100	SG	8.5	LB/A	REG										
26	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0



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

SOYBEAN POSTEMERGENCE IV

Trial ID: S9017  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate Rate	Rate Unit	Grow Stg										
LSD (P=.05)							8.3	17.7	9.8	121.8	10.5	0.0	8.9	16.4	31.5	9.2
Standard Deviation							5.0	10.7	5.9	73.8	6.4	0.0	5.4	9.9	19.1	5.6
CV							65.23	12.27	8.17	101.05	8.97	0.0	6.11	14.1	38.44	8.63

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

## SOYBEAN POSTEMERGENCE IV

Trial ID: S9017 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Investigator: Charles H. Slack  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-3-99 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546  
Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.XANST COMMON COCKLEBUR  
Weed 3.CHEAL COMMON LAMBSQUARTERS 4.ABUTH VELVETLEAF  
Weed 5.IPOHE IVYLEAF MORNINGLORY

Crop 1:GLYMX SOYBEAN Variety: AG4702 Planting Date: 5-3-99  
Planting Method: ROW Rate: 12 S/ ROW FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: CLODDY  
Soil Temperature: 60 F

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: 7 % Silt: 64 % Clay: 29  
pH: 6.5 CEC: 17 Soil Name: MAURY Fertility Level: EXCELLENT

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

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

Trial ID: S9017  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-3-99	5-25-99				
Time of Day:	2 PM	11AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	MP				
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	78 F	70 F				
% Relative Humidity:	35	45				
Wind Velocity, Unit:	1 MPH	5 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	60 F	66 F				
% Cloud Cover:	20	10				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMX		MP				
		1ST TRI				
		2 IN				

## WEED STAGE AT EACH APPLICATION

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

## SOYBEAN POSTEMERGENCE IV

Trial ID: S9017

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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				

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

SOYBEAN POSTEMERGENCE V

Trial ID: S9024  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
1	BAS 620	1.67	E	.124	LB A/A	LP	0	82	82	53	0	80	53	63
1	COC		L	1.25	QT/A	LP								
1	STORM	4	EC	.75	LB A/A	+1WK								
1	COC		L	1	QT/A	+1WK								
2	FOAST	1.53	EC	.188	LB A/A	LP	0	85	55	50	0	83	52	60
2	COC		L	1.25	QT/A	LP								
2	STORM	4	EC	.75	LB A/A	+1WK								
2	COC		L	1	QT/A	+1WK								
3	FOAST PLUS	1	E	.188	LB A/A	LP	0	85	58	58	0	78	53	52
3	COC		L	1.25	QT/A	LP								
3	STORM	4	EC	.75	LB A/A	+1WK								
3	COC		L	1	QT/A	+1WK								
4	ASSURE II	.8	EC	.055	LB A/A	LP	0	78	75	77	0	78	73	73
4	COC		L	1.25	QT/A	LP								
4	STORM	4	EC	.75	LB A/A	+1WK								
4	COC		L	1	QT/A	+1WK								
5	FUSION	2.66	EC	.2	LB A/A	LP	0	72	65	82	0	72	60	72
5	COC		L	1.25	QT/A	LP								
5	STORM	4	EC	.75	LB A/A	+1WK								
5	COC		L	1	QT/A	+1WK								
6	SELECT	2	EC	.125	LB A/A	LP	0	80	77	72	0	75	77	72
6	COC		L	1.25	QT/A	LP								
6	STORM	4	EC	.75	LB A/A	+1WK								
6	COC		L	1	QT/A	+1WK								

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SOYBEAN POSTEMERGENCE V

Trial ID: S9024  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
Ctop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
7	CONCLUDE ULTRA B	4	SL	.75	LB A/A	MP	0	95	90	50	0	90	87	50	
7	CONCLUDE ULTRA G	3.5	EC	.387	LB A/A	MP									
7	COC		L	1.25	QT/A	MP									
8	CONCLUDE XTRA B	4	SL	.75	LB A/A	MP	0	88	85	78	0	85	82	73	
8	CONCLUDE XTRA G	.94	EC	.125	LB A/A	MP									
8	COC		L	1.25	QT/A	MP									
9	CONCLUDE ULTRA B	4	SL	.75	LB A/A	MP	0	87	78	75	0	85	78	70	
9	CONCLUDE ULTRA G	3.5	EC	.387	LB A/A	MP									
9	BAS 131	87	DF	.005	LB A/A	MP									
9	COC		L	1.25	QT/A	MP									
10	CONCLUDE XTRA B	4	SL	.75	LB A/A	MP	0	83	82	62	0	77	80	57	
10	CONCLUDE XTRA G	.94	EC	.125	LB A/A	MP									
10	BAS 131	87	DF	.005	LB A/A	MP									
10	COC		L	1.25	QT/A	MP									
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	90	92	92	0	87	88	80	
12	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	87	85	57	0	85	82	63	
12	BLAZER	2	L	.25	LB A/A	2TR									
13	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	83	87	70	0	85	82	73	
13	BLAZER	2	L	.375	LB A/A	2TR									
14	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	90	90	75	0	87	90	70	
14	ROUNDUP ULTRA	4	AS	.75	LB A/A	4TR									

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SOYBEAN POSTEMERGENCE V

Trial ID: S9024  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Need 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								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
15	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	88	90	75	0	85	88	70
15	BLAZER	2	L	.25	LB A/A	2TR								
15	ROUNDUP ULTRA	4	AS	1	LB A/A	4TR								
16	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	87	87	70	0	87	83	77
16	BLAZER	2	L	.25	LB A/A	4TR								
16	ROUNDUP ULTRA	4	AS	1	LB A/A	4TR								
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	90	85	77	0	90	80	72
17	FRONTIER	6	E	.79	LB A/A	2TR								
18	ROUNDUP ULTRA	4	AS	.75	LB A/A	2TR	0	90	87	78	0	90	82	78
18	FRONTIER X2	6	E	.4	LB A/A	2TR								
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	87	85	85	0	85	83	80
20	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	88	82	80	0	90	78	78
20	ROUNDUP ULTRA	4	AS	.75	LB A/A	REG								
21	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	88	82	78	0	85	82	75
22	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	88	85	75	0	80	80	73
22	TOUCHDOWN 5	5	SL	.75	LB A/A	REG								
LSD (P=.05)							0.0	12.3	10.9	17.4	0.0	13.0	20.0	19.8
Standard Deviation							0.0	7.5	6.6	10.6	0.0	7.9	12.1	12.0
CV							0.0	8.69	8.15	14.82	0.0	9.43	15.76	17.24





SOYBEAN POSTEMERGENCE V

Trial ID: S9024  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Need 1 SETFA Stage:	MP	LP	2 TRIFOL	+ 1 WEEK	REG	
Stage Scale:	3 LVS	5 LVS	3 LVS	5 LVS	2 LVS	
Density, Unit:	4 IN	8 IN	4 IN	8 IN	2 IN	
XANST						
Stage Scale:	4 LVS	6 LV	4 LVS	6 LVS	2 LVS	
Density, Unit:	4 IN	8 IN	4 IN	8 IN	2 IN	
CHEAL						
Stage Scale:	10 LVS	12 LVS	10 LVS	12 LVS	4 LVS	
Density, Unit:	4 IN	6 IN	4 IN	5 IN	1 IN	

APPLICATION EQUIPMENT

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

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SOYBEAN POSTEMERGENCE VI

Trial ID: S9025  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	IPOHG	XANST	GLXMA	SETFA	CHEAL	IPOHG	XANST
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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
1	PURSUIT	70	DF	.063	LB A/A	2WK	0	87	92	85	80	0	87	92	85	63
1	ROUNDUP ULTRA	4	AS	.5	LB A/A	2WK										
1	INDUCE			.25	% V/V	2WK										
2	PURSUIT	70	DF	.063	LB A/A	3WK	0	95	93	92	93	0	95	93	92	93
2	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK										
2	INDUCE			.25	% V/V	3WK										
3	SCEPTER	70	WG	.125	LB A/A	2WK	0	90	93	92	77	0	88	90	90	68
3	ROUNDUP ULTRA	4	AS	.5	LB A/A	2WK										
3	INDUCE			.25	% V/V	2WK										
4	CLASSIC	25	DF	.0039	LB A/A	3WK	0	93	87	93	93	0	93	83	93	93
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	3WK										
4	INDUCE			.25	% V/V	3WK										
5	FIRSTRATE	84	W	.0078	LB A/A	3WK	0	93	92	93	93	0	93	88	92	93
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	3WK										
5	INDUCE			.25	% V/V	3WK										
6	FLEXSTAR HL	1.88	CS	.235	LB A/A	3WK	0	95	95	95	95	0	95	93	92	95
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	3WK										
6	INDUCE			.25	% V/V	3WK										
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	2WK	0	92	88	92	87	0	88	88	90	73
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK	0	93	93	93	95	0	93	92	92	93

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

Trial ID: S9025  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	IPOHG	XANST	GLXMA	SETFA	CHEAL	IPOHG	XANST
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	IPOHG	XANST	GLXMA	SETFA	CHEAL	IPOHG	XANST
9	PURSUIT	70	DF	.063	LB A/A	3WK	0	93	95	95	92	0	90	92	93	92
9	SYNCHRONY STS	42	DF	.013	LB A/A	3WK										
9	COC		L	1	QT/A	3WK										
9	LIQUID N		L	1	QT/A	3WK										
10	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0
	LSD (P=.05)			0.0			0.0	7.0	5.5	4.1	11.0	0.0	8.6	5.7	4.8	8.4
	Standard Deviation			0.0			0.0	4.1	3.2	2.4	6.4	0.0	5.0	3.3	2.8	4.9
	CV			0.0			0.0	4.94	3.87	2.91	7.94	0.0	6.1	4.12	3.39	6.38

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

SOYBEAN POSTEMERGENCE VI

Trial ID: S9025                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

**Study Director:** Charles H. Slack  
**Affiliation:** University of Kentucky                      **Postal Code:** 40526  
**Investigator:** Charles H. Slack

**Trial Status:** Complete                      **Initiation Date:** 5-3-99                      **Country:** USA  
**City:** Lexington                      **State/Prov.:** KY                      **Postal Code:** 40526

**CROP AND PEST DESCRIPTION**

**Weed 1:** SETFA GIANT FOXTAIL                      **2:** XANST COMMON COCKLEBUR  
**Weed 3:** CHEAL COMMON LAMBSQUARTER                      **4:** IPOHG ENTIRELEAF MORNINGGLORY

**Crop 1:** GLXMA SOYBEAN                      **Variety:** AG 4301                      **Planting Date:** 5-3-99  
**Planting Method:** ROWS                      **Rate:** 12                      S/ROW-FT                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 76 F                      **Soil Moisture:** DRY                      **Emergence Date:** 5-14-99

**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:** DRY  
**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.5                      **Unit:** MI

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

Trial ID: S9025

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-17-99	5-25-99				
Time of Day:	10:00	11:00				
Application Method:	SPRAY	SPRAY				
Application Timing:	2 WK	3 WK				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	82 F	68 F				
% Relative Humidity:	83	95				
Wind Velocity, Unit:	5 MPH	5 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	78 F	70 F				
Soil Moisture:	INADEQUAT	INADEQUAT				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		1 UNIFOL	1 TRIFOL			
		2 IN	4 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2 LF	2 LF			
		3 IN	4 IN			
XANST		4 LF	6 LF			
		2 IN	4 IN			
CHEAL		4 LF	6 LF			
		2 IN	3 IN			
IPOHG		1 LF	2 LF			
		1 IN	3 IN			

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

SOYBEAN POSTEMERGENCE VI

Trial ID: S9025

Study Dir.:

Location: LEXINGTON, KY.

Investigator: 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:	3.5 MPH	3.5 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 VII

Trial ID: S9026  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	ABUTH	CHEAL	IPOHE	GLXMA	SETFA	ABUTH	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	ABUTH	CHEAL	IPOHE	GLXMA	SETFA	ABUTH	CHEAL	IPOHE
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	96	93	0	100	99	95	86
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	96	93	0	100	98	93	86
2	COC		L	.5	QT/A	LP										
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	96	94	0	100	99	94	88
3	V-3153	57.6	DF	.014	LB A/A	LP										
3	COC		L	.5	QT/A	LP										
4	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	94	90	0	100	98	90	84
4	V-3153	57.6	DF	.018	LB A/A	LP										
4	COC		L	.5	QT/A	LP										
5	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	96	91	0	100	99	95	84
5	V-3153	57.6	DF	.022	LB A/A	LP										
5	COC		L	.5	QT/A	LP										
6	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	94	91	0	100	99	89	88
6	V-3153	57.6	DF	.027	LB A/A	LP										
6	COC		L	.5	QT/A	LP										
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	99	99	90	0	100	99	96	85
7	RESOURCE	.86	EC	.027	LB A/A	LP										
7	COC		L	.5	QT/A	LP										
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	100	100	94	0	100	99	99	90
8	FIRSTRATE	84	W	.016	LB A/A	LP										
9	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	100	95	91	0	100	100	94	89
9	AMS	100	SG	17	LB/100 GAL	LP										

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

SOYBEAN POSTEMERGENCE VII

Trial ID: S9026  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	ABUTH	CHEAL	IPOHE	GLXMA	SETFA	ABUTH	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	ABUTH	CHEAL	IPOHE	GLXMA	SETFA	ABUTH	CHEAL	IPOHE
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	100	100	96	0	100	100	100	95
10	AMS	100	SG	17	LB/100 GAL	LP										
10	ROUNDUP ULTRA	4	AS	1	LB A/A	REG										
10	AMS	100	SG	17	LB/100 GAL	REG										
11	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	100	98	93	0	100	100	95	88
11	AMS	100	SG	8.5	LB/100 GAL	LP										
12	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	100	99	96	0	100	100	98	94
12	AMS	100	SG	8.5	LB/100 GAL	LP										
12	TOUCHDOWN 5	5	SL	1	LB A/A	REG										
12	AMS	100	SG	8.5	LB/100 GAL	REG										
LSD (P=.05)							0.0	0.0	1.9	3.8	3.0	0.0	0.0	2.5	7.1	4.2
Standard Deviation							0.0	0.0	1.3	2.6	2.1	0.0	0.0	1.8	5.0	2.9
CV							0.0	0.0	1.3	2.68	2.24	0.0	0.0	1.78	5.23	3.28





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

Trial ID: S9026

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-3-99					
Time of Day:	4:00 PM					
Application Method:	SPRAY					
Application Timing:	LP					
Applic. Placement:	BROFOI					
Air Temp., Unit:	81 F					
% Relative Humidity:	99					
Wind Velocity, Unit:	1 MPH					
Dew Presence (Y/N):	N					
Soil Temp., Unit:	77 F					
Soil Moisture:	INADEQUAT					

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA						
Stage Scale:	2 TRIFOL					
Height, Unit:	5 IN					

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA						
Stage Scale:	6 LF					
Density, Unit:	9 IN					
ABUTH						
Stage Scale:	6 LF					
Density, Unit:	9 IN					
CHEAL						
Stage Scale:	12 LF					
Density, Unit:	7 IN					
IPOHE						
Stage Scale:	4 LF					
Density, Unit:	4 IN					

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

## SOYBEAN POSTEMERGENCE VII

Trial ID: S9026  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: 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:	3.5 MPH					
Carrier:	WATER					
Spray Volume, Unit:	25 GPA					
Propellant:	CO2					

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

SOYBEAN POSTEMERGENCE VIII

Trial ID: S9027  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
1	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	99	96	90	92	0	99	96	87	82
1	AMS	100	SG	8.5	LB/100 GAL	LP										
2	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	99	90	88	88	0	99	93	83	80
2	BASAGRAN	4	E	.03	LB A/A	LP										
2	AMS	100	SG	8.5	LB/100 GAL	LP										
3	STEEL	2.57	EC	.9713	LB A/A	PRE	7	99	95	98	96	3	99	95	98	90
3	TOUCHDOWN 5	5	SL	.75	LB A/A	LP										
3	AMS	100	SG	8.5	LB/100 GAL	LP										
4	STEEL	2.57	EC	.9713	LB A/A	PRE	3	99	98	99	92	0	99	96	99	92
4	TOUCHDOWN 5	5	SL	1	LB A/A	LP										
4	AMS	100	SG	8.5	LB/100 GAL	LP										
5	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	10	99	93	91	88	0	99	95	83	80
5	FLEXSTAR HL	1.88	CS	.1175	LB A/A	LP										
5	MSO		L	.5	% V/V	LP										
5	AMS	100	SG	8.5	LB/100 GAL	LP										
6	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	7	99	93	96	93	0	98	95	90	82
6	FLEXSTAR HL	1.88	CS	.1763	LB A/A	LP										
6	MSO		L	.5	% V/V	LP										
6	AMS	100	SG	8.5	LB/100 GAL	LP										
7	TOUCHDOWN 5	5	SL	1	LB A/A	LP	10	99	95	95	90	0	99	95	85	77
7	FLEXSTAR HL	1.88	CS	.1175	LB A/A	LP										
7	MSO		L	.5	% V/V	LP										
7	AMS	100	SG	8.5	LB/100 GAL	LP										

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

Trial ID: S9027  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
8	TOUCHDOWN 5	5	SL	1	LB A/A	LP	10	99	96	95	92	3	98	95	90	80
8	FLEXSTAR HL	1.88	CS	.1763	LB A/A	LP										
8	MSO		L	.5	% V/V	LP										
8	AMS	100	SG	8.5	LB/100 GAL	LP										
9	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	99	93	92	92	0	98	93	88	80
9	FUSION	2.66	EC	.1247	LB A/A	LP										
9	MSO		L	.5	% V/V	LP										
9	AMS	100	SG	8.5	LB/100 GAL	LP										
10	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	99	95	90	85	0	99	95	88	80
10	PURSUIT	70	DF	.032	LB A/A	LP										
10	INDUCE		L	.25	% V/V	LP										
10	AMS	100	SG	8.5	LB/100 GAL	LP										
11	TOUCHDOWN 5	.5	SL	.75	LB A/A	LP	0	99	96	95	92	0	98	95	93	82
11	PURSUIT	70	DF	.063	LB A/A	LP										
11	INDUCE		L	.25	% V/V	LP										
11	AMS	100	SG	8.5	LB/100 GAL	LP										
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	3	99	98	91	90	0	96	98	91	83
12	CLASSIC	25	DF	.008	LB A/A	LP										
12	INDUCE		L	.25	% V/V	LP										
12	AMS	100	SG	8.5	LB/100 GAL	LP										
13	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0
14	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0

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

SOYBEAN POSTEMERGENCE VIII

Trial ID: S9027  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg							
LSD (P=.05)				5.2	0.0	3.5	5.9	4.0	3.7	2.2	4.3	7.7	4.6
Standard Deviation				3.1	0.0	2.1	3.5	2.4	2.2	1.3	2.5	4.6	2.7
CV				87.24	0.0	2.53	4.43	3.07	466.99	1.55	3.13	5.94	3.89

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

## SOYBEAN POSTEMERGENCE VIII

Trial ID: S9027                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-3-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GINAT FOXTAIL                      2.XANST COMMON COCKLEBUR  
Weed 3.CHEAL COMMON LAMBSQUARTER                      4.ABUTH VELVETLEAF  
Weed 5.IPOHE IVYLEAF MORNINGGLORY

Crop 1:GLYMA SOYBEAN                      Variety: AG4702                      Planting Date: 5-3-99  
Planting Method: ROW                      Rate: 12                      S/ ROW FT                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: CLODDY  
Soil Temperature: 60 F                      Soil Moisture: SLIGHTLY WET

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

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

SOYBEAN POSTEMERGENCE VIII

Trial ID: S9027

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-3-99	5-27-99				
Time of Day:	4PM	2PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	78 F	76 F				
% Relative Humidity:	30	25				
Wind Velocity, Unit:	1 MPH	1 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	60 F	66 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	20				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		LP				
		1 TRI				
		3 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP				
		3 LVS				
		3 IN				
XANST		8 LVS				
		5 IN				
CHEAL		10 LVS				
		4 IN				
ABUTH		4 LVS				
		R IN				
IPOHE		4 LVS				
		1.5 IN				



## SOYBEAN POSTEMERGENCE VIII

Trial ID: S9027

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLATFAN	FLATFAN				
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				

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

SOYBEAN POSTEMERGENCE ROUNDUP IX

Trial ID: S9028  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	93	93	90	0	100	92	88	77
1	AMS	100	SG	2	% W/W	LP										
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	96	88	88	0	100	96	82	77
2	AMS	100	SG	2	% W/W	LP										
2	ROUNDUP ULTRA	4	AS	1	LB A/A	REG										
2	AMS	100	SG	2	% W/W	REG										
3	MICRO-TECH	4	ME	2	LB A/A	PRE	3	100	96	96	92	0	100	96	96	78
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
3	AMS	100	SG	2	% W/W	LP										
4	RAPTOR	1	E	.04	LB A/A	LP	0	100	93	82	83	0	100	93	78	77
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP										
4	INDUCE			.25	% V/V	LP										
4	LIQUID N		L	1	QT/A	LP										
5	PURSUIT	70	DF	.063	LB A/A	LP	0	100	95	93	88	0	100	95	90	77
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP										
5	COC		L	1	QT/A	LP										
5	LIQUID N		L	1	QT/A	LP										
6	SCEPTER	70	WG	.125	LB A/A	LP	0	100	93	78	87	0	100	95	50	77
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP										
6	INDUCE			.25	% V/V	LP										
7	CANOPY XL						0	100	99	99	93	0	100	99	96	82
7	CLASSIC	25	DF	.018	LB A/A	PRE										
7	AUTHORITY	75	DF	.088	LB A/A	PRE										
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE ROUNDUP IX

Trial ID: S9028

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
8	AUTHORITY	75	DF	.141	LB A/A	PRE	0	100	98	96	92	0	100	98	96	83
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
9	CLASSIC	25	DF	.005	LB A/A	LP	0	100	98	82	82	0	100	98	72	75
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP										
10	CANOPY	75	DF	.141	LB A/A	PRE	0	100	96	95	92	0	100	96	95	82
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
11	CANOPY	75	DF	.141	LB A/A	PRE	0	100	99	95	90	0	100	99	95	80
11	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
11	CLASSIC	25	DF	.005	LB A/A	LP										
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	3	100	95	91	90	0	100	95	83	73
12	FLEXSTAR HL	1.88	CS	.118	LB A/A	LP										
12	COC		L	1	QT/A	LP										
12	AMS	100	SG	2	% W/W	LP										
13	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	95	82	90	0	100	95	57	73
13	AMS	100	SG	2	% W/W	LP										
14	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	92	80	87	0	100	92	63	77
14	AMS	100	SG	2	% W/W	LP										
14	TOUCHDOWN 5	5	SL	1	LB A/A	REG										
14	AMS	100	SG	2	% W/W	REG										
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	13	100	93	92	92	0	100	93	73	77
15	RESOURCE	.86	EC	.02	LB A/A	LP										
15	COC		L	.5	QT/A	LP										

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SOYBEAN POSTEMERGENCE ROUNDUP IX

Trial ID: S9028 Study Dir.:  
Location: LEXINGTON, KY Investigator: Charles H. Slack

Weed Code	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMX	SETFA	XANST	CHEAL	IPOHE	GLYMX	SETFA	XANST	CHEAL	IPOHE
16	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP	0	100	92	70	80	0	100	92	33	73
16	FIRSTRATE	84	W	.016	LB A/A	LP										
17	AXIOM	68	DF	.425	LB A/A	PRE	3	100	92	93	90	0	100	93	93	77
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP										
17	AMS	100	SG	2	% W/W	LP										
18	STEEL	2.57	EC	.97	LB A/A	PRE	7	100	96	95	90	0	100	88	95	83
18	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP										
LSD (P=.05)							5.1	0.0	4.4	8.3	7.0	0.0	0.0	4.0	18.6	7.1
Standard Deviation							3.1	0.0	2.6	5.0	4.2	0.0	0.0	2.4	11.1	4.3
CV							184.71	0.0	2.77	5.61	4.73	0.0	0.0	2.51	13.96	5.48



## SOYBEAN POSTEMERGENCE ROUNDUP IX

Trial ID: S9028

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-4-99	5-27-99				
Time of Day:	11 AM	2 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	78 F	76 F				
% Relative Humidity:	41	25				
Wind Velocity, Unit:	2 MPH	1 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	62 F	66 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	30	20				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		LP				
		1 TRI				
		3 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		LP				
		3 LVS				
		4 IN				
XANST		8 LVS				
		5 IN				
CHEAL		10 LVS				
		5 IN				
ABUTH		6 LVS				
		5 IN				
IPOHE		4 LVS				
		1.5 IN				

## SOYBEAN POSTEMERGENCE ROUNDUP IX

Trial ID: S9028

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLATFAN	FLATFAN				
Nozzle Size:	8004	8004				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	10 FT	10 FT				
Boom Height, Unit:	20 IN	20 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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SOYBEAN POSTEMERGENCE X

Trial ID: S9029  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	CHEAL	ABUTH	AMACH	IPOHE	GLXMA	CHEAL	ABUTH	AMACH	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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	CHEAL	ABUTH	AMACH	IPOHE	GLXMA	CHEAL	ABUTH	AMACH	IPOHE
1	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK	3	90	98	97	85	0	78	95	92	75
2	ROUNDUP ULTRA	4	AS	.75	LB A/A	4WK	3	96	95	97	80	0	96	95	96	78
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	5WK	0	90	91	94	78	0	91	90	94	80
4	ROUNDUP ULTRA	4	AS	.75	LB A/A	6WK	0	63	69	89	68	0	76	78	90	73
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK	0	92	92	94	85	0	79	92	93	78
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	6WK										
6	BOUNDRY	7.8	EC	2.44	LB A/A	PRE	0	99	99	99	80	0	99	99	99	80
6	ROUNDUP ULTRA	4	AS	.75	LB A/A	4WK										
7	BOUNDRY	7.8	EC	2.44	LB A/A	PRE	0	99	99	99	78	0	99	99	99	80
7	ROUNDUP ULTRA	4	AS	.75	LB A/A	4WK										
8	BOUNDRY	7.8	EC	2.44	LB A/A	PRE	0	98	90	95	75	0	96	78	95	50
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	6WK										
9	BOUNDRY	7.8	EC	.975	LB A/A	PRE	0	99	99	99	84	0	99	99	99	80
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK										
10	BOUNDRY	7.8	EC	.965	LB A/A	PRE	0	98	97	99	78	0	98	97	99	78
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	4WK										
11	BOUNDRY	7.8	EC	.975	LB A/A	PRE	0	92	90	96	38	0	96	93	96	65
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	5WK										



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SOYBEAN POSTEMERGENCE X

Trial ID: S9029  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	CHEAL	ABUTH	AMACH	IPOHE	GLXMA	CHEAL	ABUTH	AMACH	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										
Rating Unit										
Rating Date										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	CHEAL	ABUTH	AMACH	IPOHE	GLXMA	CHEAL	ABUTH	AMACH	IPOHE
12	BOUNDRY	7.8	EC	.975	LB A/A	PRE	0	95	91	95	18	0	85	88	87	35
12	ROUNDUP ULTRA	4	AS	.75	LB A/A	6WK										
13	BOUNDRY	7.8	EC	.975	LB A/A	PRE	0	58	94	92	84	0	18	87	87	75
13	FIRSTRATE	84	W	.016	LB A/A	3WK										
13	SELECT	2	EC	.156	LB A/A	3WK										
13	COC		L	1	QT/A	3WK										
14	PROWL	3.3	EC	1.24	LB A/A	PRE	0	99	99	99	94	0	97	99	99	86
14	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK										
15	CANOPY XL						0	99	99	99	96	0	99	98	99	91
15	CLASSIC	25	DF	.04	LB A/A	PRE										
15	AUTHORITY	75	DF	.19	LB A/A	PRE										
15	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK										
16	FIRSTRATE	84	W	.031	LB A/A	PRE	0	99	99	99	94	0	94	99	95	88
16	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK										
17	BROADSTRIKE + DUAL S	7.75	SC	2.16	LB A/A	PRE	0	98	99	99	94	0	98	99	99	84
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	3WK										
18	BROADSTRIKE + DUAL S	7.75	SC	2.16	LB A/A	PRE	0	94	98	99	93	0	91	96	99	88
18	FIRSTRATE	84	W	.016	LB A/A	3WK										
18	SELECT	2	EC	.156	LB A/A	3WK										
18	COC		L	1	QT/A	3WK										
19	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0
20	CHECK UNTREATED						0	0	0	0	0	0	0	0	0	0

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGNECE X

Trial ID: S9029  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

	GLYMA	CHEAL	ABUTH	AMACH	IPOHE	GLXMA	CHEAL	ABUTH	AMACH	IPOHE
Weed Code										
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										
Crop Stage										
Crop Stage Scale										
Weed Stage										
Weed Density, Unit										
Footnote Number										
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Conc	Form Type	Rate	Rate Unit	Grow Stg										
LSD (P=.05)							2.2	11.7	5.8	4.2	19.7	0.0	12.7	7.7	6.0	10.2
Standard Deviation							1.5	8.3	4.1	3.0	13.9	0.0	9.0	5.5	4.2	7.2
CV							615.59	9.97	4.86	3.4	19.95	0.0	11.35	6.52	4.94	10.58

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGNECE X

Trial ID: S9029  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE  
City: LEXINGTON  
Conducted Under GLP (Y/N): N  
Initiation Date: 5-4-99  
State/Prov.: KY  
Conducted Under GEP (Y/N): N  
Country: USA  
Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.CHEAL LAMBSQUARTERS  
Weed 3.AMACH SMOOTH PIGWEED  
Weed 2.ABUTH VELVETLEAF  
Weed 4.IPOHE IVYLEAF MORNINGGLORY

Crop 1:GLYMA SOYBEAN  
Planting Method: ROW  
Soil Temperature: 60 F  
Variety: AG4702  
Rate: 12 S/ ROW FT  
Row Spacing: 30 IN  
Soil Moisture: SLIGHTLY WET  
Planting Date: 5-4-99  
Depth: 1.5 IN  
Seed Bed: CLODDY

Plot Width, Unit: 10 FT  
Site Type: FIELD  
Tillage Type: CONVENTIONAL TILL  
Plot Length, Unit: 33 FT  
Reps: 4  
Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

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

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

SOYBEAN POSTEMERGENCE X

Trial ID: S9029

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-4-99	5-27-99	6-3-99	6-10-99	6-29-99	
Time of Day:	3PM	3PM	3PM	3 PM	3 PM	
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	
Application Timing:	PRE	3WK	4 WK	5 WK	6 WK	
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI	BROFOI	
Air Temp., Unit:	81 F	76 F	79 F	95 F	83 F	
% Relative Humidity:	40	25	90	31	65	
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH	1 MPH	2 MPH	
Dew Presence (Y/N):	N	N	N	N	N	
Soil Temp., Unit:	62 F	66 F	68 F	74 F	74 F	
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	
% Cloud Cover:	20	20	20	20	30	

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		3 WK	4 WK	5 WK	6WK	
		2 TR	3 TR	5 TR	7 TR	
		3 IN	5 IN	7 IN	14 IN	

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
CHEAL		3 WK	4WK	5 WK	6 WK	
		8 LVS	12 LV	20 LVS	30 LVS	
		2.5 IN	5 IN	10 IN	20 IN	
ABUTH		5LVS	7LVS	10 LVS	15 LVS	
		3 IN	5 IN	8 IN	14 IN	
AMACH		3 LVS	7 LVS	10 LVS	15 LVS	
		3 IN	5 IN	7 IN	10 IN	
IPOHE		3 LVS	5 LVS	8 LVS	15 LVS	
		1.5 IN	3 IN	5 IN	10 IN	

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

SOYBEAN POSTEMERGENCE X

Trial ID: S9029

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

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

SOYBEAN POSTEMERGENCE ROUNDUP XI

Trial ID: S9028-2                      Study Dir.:  
Location: LEXINGTON, KY              Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	95	96	0	100	95	96
1	AMS	100	SG	2	% W/W	LP								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	95	98	0	100	95	98
2	AMS	100	SG	2	% W/W	LP								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
2	AMS	100	SG	2	% W/W	REG								
3	MICRO-TECH	4	ME	2	LB A/A	PRE	0	100	96	96	0	100	96	96
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
3	AMS	100	SG	2	% W/W	LP								
4	RAPTOR	1	E	.04	LB A/A	LP	0	100	85	93	0	100	86	93
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
4	INDUCE			.25	% V/V	LP								
4	LIQUID N		L	1	QT/A	LP								
5	PURSUIT	70	DF	.063	LB A/A	LP	0	100	75	95	0	100	73	96
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
5	COC		L	1	QT/A	LP								
5	LIQUID N		L	1	QT/A	LP								
6	SCEPTER	70	WG	.125	LB A/A	LP	0	100	89	90	0	100	89	90
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
6	INDUCE			.25	% V/V	LP								
7	CANOPY XL					PRE	0	100	98	99	0	100	98	99
7	CLASSIC	25	DF	.018	LB A/A	PRE								
7	AUTHORITY	75	DF	.088	LB A/A	PRE								
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								

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SOYBEAN POSTEMERGENCE ROUNDUP XI

Trial ID: S9028-2  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
8	AUTHORITY	75	DF	.141	LB A/A	PRE	0	100	100	96	0	100	100	96
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
9	CLASSIC	25	DF	.005	LB A/A	LP	0	100	86	96	0	100	86	96
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
10	CANOPY	75	DF	.141	LB A/A	PRE	0	100	100	99	0	100	100	99
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
11	CANOPY	75	DF	.141	LB A/A	PRE	0	100	100	100	0	100	100	100
11	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
11	CLASSIC	25	DF	.005	LB A/A	LP								
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	93	99	0	100	93	99
12	FLEXSTAR HL	1.88	CS	.118	LB A/A	LP								
12	COC		L	1	QT/A	LP								
12	AMS	100	SG	2	% W/W	LP								
13	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	90	96	0	100	90	96
13	AMS	100	SG	2	% W/W	LP								
14	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	94	100	0	100	94	100
14	AMS	100	SG	2	% W/W	LP								
14	TOUCHDOWN 5	5	SL	1	LB A/A	REG								
14	AMS	100	SG	2	% W/W	REG								
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	94	95	0	100	94	95
15	RESOURCE	.86	EC	.02	LB A/A	LP								
15	COC		L	.5	QT/A	LP								

Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE ROUNDUP XI

Trial ID: S9028-2  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	XANST	GLXMA	SETFA	CHEAL	XANST
16	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP	0	100	86	94	0	100	86	94
16	FIRSTRATE	84	W	.016	LB A/A	LP								
17	AXIOM	68	DF	.425	LB A/A	PRE	0	100	99	94	0	100	99	94
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
17	AMS	100	SG	2	% W/W	LP								
18	STEEL	2.57	EC	.97	LB A/A	PRE	0	100	100	96	0	100	100	95
18	ROUNDUP ULTRA.	4	AS	.75	LB A/A	LP								
19	CANOPY	75	DF	.188	LB A/A	PRE	0	100	99	96	0	100	99	96
19	AUTHORITY	75	DF	.188	LB A/A	PRE								
19	ASSURE II	.8	EC	.069	LB A/A	LP								
19	SYNCHRONY STS	42	DF	.013	LB A/A	LP								
19	COC		L	1	QT/A	LP								
19	AMS	100	SG	2	LB/A	LP								
20	CANOPY XL						0	100	100	98	0	100	100	98
20	AUTHORITY	75	DF	.27	LB A/A	PRE								
20	CLASSIC	25	DF	.128	LB A/A	PRE								
20	ASSURE II	.8	EC	.069	LB A/A	LP								
20	SYNCHRONY STS.	42	DF	.013	LB A/A	LP								
20	COC		L	1	QT/A	LP								
20	AMS	100	SG	2	LB/A	LP								
LSD (P=.05)							0.0	0.0	6.3	5.5	0.0	0.0	7.0	5.2
Standard Deviation							0.0	0.0	4.5	3.9	0.0	0.0	5.0	3.7
CV							0.0	0.0	4.75	4.06	0.0	0.0	5.3	3.85



Dept. of Agronomy, Univ. of KY  
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SOYBEAN POSTEMERGENCE ROUNDUP XI

Trial ID: S9028-2                      Study Dir.:  
Location: LEXINGTON, KY              Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack                      Postal Code: 40526  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack

Trial Status: complete                      Initiation Date: 5-4-99                      Country: USA  
City: Lexington                      State/Prov.: KY                      Postal Code: 40526

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.CHEAL COMMON LAMBSQUARTERS  
Weed 3.XANST COMMON COCKELBUR

Crop 1:GLXMA SOYBEAN                      Variety: AG 4301                      Planting Date: 5-4-99  
Planting Method: ROW                      Rate: 12                      S/ROW-FT                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 79                      F Soil Moisture: SLIGHTLY DRY                      Emergence Date: 5-14-99

Plot Width, Unit: 5                      FT                      Plot Length, Unit: 33                      FT                      Reps: 4  
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: DRY  
Closest Weather Station: SPINDLETOP                      Distance: 1                      Unit: MI

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

## SOYBEAN POSTEMERGENCE ROUNDUP XI

Trial ID: S9028-2                      Study Dir.:  
Location: LEXINGTON, KY              Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-4-99	6-2-99				
Time of Day:	6:00 PM	2:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	79 F	80 F				
% Relative Humidity:	75	95				
Wind Velocity, Unit:	2 MPH	8 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	71 F	72 F				
Soil Moisture:	ADEQUATE	INADEQUAT				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		1 TRIFOL 4 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		LP 3 LF 3 IN				
CHEAL		12 LF 4 IN				
XANST		6 LF 6 IN				

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

## SOYBEAN POSTEMERGENCE ROUNDUP XI

Trial ID: S9028-2

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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	3.5 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 XII

Trial ID: S9035  
Location: LEXINGTON

Study Dir.:  
Investigator: Charles H. Slack

Need Code	GLXMA	AMACH	AMBTR	CHEAL	GLXMA	AMACH	AMBTR	CHEAL
Crop Code								
Part Rated								
Rating Data Type								
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	AMACH	AMBTR	CHEAL	GLXMA	AMACH	AMBTR	CHEAL
1	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	100	100	93	0	100	100	93
1	AMS	100	SG	17	LB/100 GAL	MP								
1	ROUNDUP ULTRA	4	AS	.75	LB A/A	SEQ								
1	AMS	100	SG	17	LB/100 GAL	SEQ								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	100	97	93	0	100	97	95
2	AMS	100	SG	17	LB/100 GAL	LP								
3	TOUCHDOWN 5	5	SL	1	LB A/A	MP	0	100	100	88	0	100	100	88
3	AMS	100	SG	8.8	LB/100 GAL	MP								
3	TOUCHDOWN 5	5	SL	1	LB A/A	SEQ								
3	AMS	100	SG	8.8	LB/100 GAL	SEQ								
4	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	100	95	0	100	100	95
4	AMS	100	SG	8.8	LB/100 GAL	LP								
5	FIRSTRATE	84	W	.016	LB A/A	MP	0	40	97	17	0	40	97	17
5	SELECT	2	EC	.125	LB A/A	MP								
5	COC		L	1	QT/A	MP								
6	RAPTOR	1	E	.04	LB A/A	MP	0	98	97	90	0	98	97	90
6	INDUCE			.25	% V/V	MP								
6	LIQUID N		L	1	QT/A	MP								
7	COBRA	2	EC	.2	LB A/A	MP	0	97	97	23	0	97	97	23
7	SELECT	2	EC	.125	LB A/A	MP								
7	MSO		L	.5	QT/A	MP								

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SOYBEAN POSTEMERGENCE XII

Trial ID: S9035  
Location: LEXINGTON

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	AMACH	AMBTR	CHEAL	GLXMA	AMACH	AMBTR	CHEAL
Crop Code								
Part Rated								
Rating Data Type								
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	AMACH	AMBTR	CHEAL	GLXMA	AMACH	AMBTR	CHEAL
8	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP	0	95	97	47	0	95	97	47
8	FUSION	2.66	EC	.2	LB A/A	MP								
8	MSO		L	1	QT/A	MP								
9	BASAGRAN	4	E	1	LB A/A	MP	0	33	97	53	0	30	97	50
9	POAST PLUS	1	E	.25	LB A/A	MP								
9	COC		L	1	QT/A	MP								
10	STORM	4	EC	.75	LB A/A	MP	0	43	92	83	0	43	92	80
10	POAST PLUS	1	E	.25	LB A/A	MP								
10	COC		L	1	QT/A	MP								
11	BUTRAC 200	2	EC	.031	LB A/A	LP	0	97	33	27	0	97	33	27
11	SELECT	2	EC	.125	LB A/A	LP								
11	COC		L	1	QT/A	LP								
12	FRONTROW						0	43	97	27	0	37	97	23
12	CLORANSULAM	84	W	.016	LB A/A	MP								
12	FLUMETSULAM	80	WG	.006	LB A/A	MP								
12	SELECT	2	EC	.125	LB A/A	MP								
12	COC		L	1	QT/A	MP								
LSD (P=.05)				0.0			0.0	10.2	5.6	13.7	0.0	9.0	5.6	13.2
Standard Deviation				0.0			0.0	6.0	3.3	8.1	0.0	5.3	3.3	7.8
CV				0.0			0.0	7.64	3.6	13.22	0.0	6.82	3.6	12.8

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

SOYBEAN POSTEMERGENCE XII

Trial ID: S9035  
Location: LEXINGTON

Study Dir.:  
Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack  
Postal Code: 40526

Trial Status: complete  
City: Lexington  
Initiation Date: 5-4-99  
State/Prov.: KY  
Country: USA  
Postal Code: 40526

CROP AND PEST DESCRIPTION

Weed 1.AMACH SMOOTH PIGWEED  
Weed 2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTERS

Crop 1:GLXMA SOYBEAN  
Planting Method: ROW  
Soil Temperature: 71 F  
Variety: AG 4301  
Rate: 12 S/ROW-FT  
Row Spacing: 30 IN  
F Soil Moisture: SLIGHTLY DRY  
Planting Date: 5-4-99  
Depth: 1.5 IN  
Seed Bed: MEDIUM  
Emergence Date: 5-12-99

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

SOIL DESCRIPTION

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

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

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

SOYBEAN POSTEMERGENCE XII

Trial ID: S9035  
Location: LEXINGTON

Study Dir.:  
Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-28-99	6-3-99				
Time of Day:	10:00 AM	1:00 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	MP	LP				
Applic. Placement:	BROFOL	BROFOL				
Air Temp., Unit:	79 F	77 F				
% Relative Humidity:	85	98				
Wind Velocity, Unit:	2 MPH	1 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	76 F	75 F				
Soil Moisture:	INADEQUAT	INADEQUAT				

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA						
Stage Scale:	1 TRIFOL	1 TRIFOL				
Height, Unit:	4 IN	5 IN				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 AMACH Stage:	MP	LP				
Stage Scale:	4 LF	12 LF				
Density, Unit:	3 IN	6 IN				
AMBTR						
Stage Scale:	6 LF	10 LF				
Density, Unit:	4 IN	8 IN				
CHEAL						
Stage Scale:	10 LF	16 LF				
Density, Unit:	3 IN	5 IN				

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

SOYBEAN POSTEMERGENCE XII

Trial ID: S9035  
Location: LEXINGTON

Study Dir.:  
Investigator: 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	3.5 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				





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

Trial ID: S9036  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: 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								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
8	PURSUIT	70	DF	.063	LB A/A	MP	0	73	77	58	0	75	75	80
8	INDUCE			.25	% V/V	MP								
8	LIQUID N		L	1	QT/A	MP								
9	COBRA	2	EC	.2	LB A/A	MP	0	80	78	70	0	68	75	77
9	SELECT	2	EC	.125	LB A/A	MP								
9	MSO		L	.5	QT/A	MP								
10	FLEXSTAR HL	1.88	CS	.35	LB A/A	MP	0	82	78	57	0	72	72	75
10	FUSION	2.66	EC	.2	LB A/A	MP								
10	MSO		L	1	QT/A	MP								
11	BASAGRAN	4	E	1	LB A/A	MP	0	78	72	72	0	65	72	73
11	POAST PLUS	1	E	.25	LB A/A	MP								
11	COC		L	1	QT/A	MP								
12	STORM	4	EC	.75	LB A/A	MP	0	68	75	65	0	65	77	75
12	POAST PLUS	1	E	.25	LB A/A	MP								
12	COC		L	1	QT/A	MP								
13	BUTRAC 200	2	EC	.031	LB A/A	LP	0	88	82	87	0	62	68	67
13	SELECT	2	EC	.125	LB A/A	LP								
13	COC		L	1	QT/A	LP								
14	FRONTROW						0	80	75	57	0	57	65	62
14	CLORANSULAM	84	W	.016	LB A/A	MP								
14	FLUMETSULAM	80	WG	.006	LB A/A	MP								
14	SELECT	2	EC	.125	LB A/A	MP								
14	COC		L	1	QT/A	MP								

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SOYBEAN POSTEMERGENCE XIII

Trial ID: S9036  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
Crop Code								
Part Rated								
Rating Data Type								
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	XANST	CHEAL	GLYMA	SETFA	XANST	CHEAL
15	CLASSIC	25	DF	.008	LB A/A	MP	0	67	50	52	0	67	72	72
15	ASSURE II	.8	EC	.07	LB A/A	MP								
15	COC		L	1	QT/A	MP								
16	SYNCHRONY STS	42	DF	.013	LB A/A	MP	0	57	50	47	0	67	72	63
16	ASSURE II	.8	EC	.07	LB A/A	MP								
16	COC		L	1	QT/A	MP								
16	LIQUID N		L	1	QT/A	MP								
17	FRONTROW						0	70	72	72	0	67	75	68
17	CLORANSULAM	84	W	.016	LB A/A	MP								
17	FLUMETSULAM	80	WG	.006	LB A/A	MP								
17	BUTRAC 200	2	EC	.031	LB A/A	MP								
17	SELECT	2	EC	.125	LB A/A	MP								
17	COC		L	1	QT/A	MP								
18	FIRSTRATE	84	W	.016	LB A/A	MP	0	68	72	70	0	65	73	73
18	BUTRAC 200	2	EC	.031	LB A/A	MP								
18	SELECT	2	EC	.125	LB A/A	MP								
18	COC		L	1	QT/A	MP								
LSD (P=.05)							0.0	30.1	33.6	30.9	0.0	16.3	15.5	19.4
Standard Deviation							0.0	18.0	20.2	18.5	0.0	9.8	9.3	11.6
CV							0.0	24.81	28.61	31.54	0.0	13.78	12.39	15.74

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

## SOYBEAN POSTEMERGENCE XIII

Trial ID: S9036                      Study Dir.:  
Location: LEXINGTON, KY            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-6-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

## CROP AND PEST DESCRIPTION

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

Crop 1:GLYMA SOYBEAN                      Variety: ASGROW AG4301                      Planting Date: 5-6-99  
Planting Method: ROW                      Rate: 12                      S/ROW FT                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 70 F                      Soil Moisture: ADEQUATE                      Emergence Date: 5-16-99

Plot Width, Unit: 5 FT                      Plot Length, Unit: 33 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

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

SOYBEAN POSTEMERGENCE XIII

Trial ID: S9036 Study Dir.:  
Location: LEXINGTON, KY Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	5-28-99	6-3-99	6-23-99			
Time of Day:	9:00 AM	10:00 AM	12:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	MP	LP	SEQ			
Applic. Placement:	BROFOL	BROFOL	BROFOL			
Air Temp., Unit:	84 F	79 F	88 F			
% Relative Humidity:	87	100	83			
Wind Velocity, Unit:	5 MPH	4 MPH	5 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	77 F	76 F	83 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	20	45	10			

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
Crop 1 GLYMA Stage:	MP	LP	SEQ			
Stage Scale:	1 TRIFOL	2 TRIFOL	4 TRIFOL			

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
Weed 1 SETFA Stage:	MP	LP	SEQ			
Stage Scale:	6 LVS	8 LVS	2 LVS			
Density, Unit:	5 IN	7 IN				
XANST						
Stage Scale:	5 LVS	7 LVS				
Density, Unit:	3 IN	5 IN				
CHEAL						
Stage Scale:	10 LVS	14 LVS				
Density, Unit:	2 IN	4 IN				

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

## SOYBEAN POSTEMERGENCE XIII

Trial ID: S9036

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN			
Nozzle Size:	8004	8004	8004			
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			
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

SOYBEAN POSTEMERGENCE XIV

Trial ID: S9037

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	0	100	97	67	0	83	52	38
7	RAPTOR	1	E	.04	LB A/A	LLP	0	100	97	67	0	83	52	38
7	STATUS	2	EC	.156	LB A/A	LLP								
7	INDUCE			.25	% V/V	LLP								
7	LIQUID N		L	1	QT/A	LLP								
8	RAPTOR	1	E	.04	LB A/A	LLP	0	100	95	80	0	85	82	65
8	FLEXSTAR HL	1.88	CS	.25	LB A/A	LLP								
8	INDUCE			.25	% V/V	LLP								
8	LIQUID N		L	1	QT/A	LLP								
9	RAPTOR	1	E	.04	LB A/A	LLP	0	100	97	60	0	85	85	58
9	FIRSTRATE	84	W	.016	LB A/A	LLP								
9	INDUCE			.25	% V/V	LLP								
9	LIQUID N		L	1	QT/A	LLP								
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LLP	0	100	100	95	0	88	88	72
10	AMS	100	SG	17	LB/100 GAL	LLP								
11	TOUCHDOWN 5	5	SL	1	LB A/A	LLP	0	100	100	93	0	92	92	82
11	AMS	100	SG	8.5	LB/100 GAL	LLP								
12	CHECK						0	0	0	0	0	0	0	0
	LSD (P=.05)						0.0	0.0	3.5	15.6	0.0	15.8	35.8	29.7
	Standard Deviation						0.0	0.0	2.1	9.2	0.0	9.3	21.1	17.5
	CV						0.0	0.0	2.36	15.26	0.0	12.53	32.26	37.09



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

SOYBEAN POSTEMERGENCE XIV

Trial ID: S9037

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack

Affiliation: University of Kentucky

Postal Code: 40526

Investigator: Charles H. Slack

Trial Status: complete

Initiation Date: 5-6-99

Country: USA

City: Lexington

State/Prov.: KY

Postal Code: 40526

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED

Weed 3.CHEAL COMMON LAMBSQUARTER

Crop 1:GLXMA SOYBEAN

Variety: AG 4301

Planting Date: 5-6-99

Planting Method: ROW

Rate: 12

S/ROW-FT Depth: 1.5 IN

Row Spacing: 30 IN

Seed Bed: MEDIUM

Soil Temperature: 68

F Soil Moisture: SLIGHTLY DRY

Emergence Date: 5-15-99

Plot Width, Unit: 5 FT

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: 3

% Silt: 64

% Clay: 30

pH: 6.5 CEC: 17

Soil Name: MAURY

Fertility Level: EXCELLENT

Overall Moisture Conditions: DRY

Closest Weather Station: SPINDLETOP

Distance: 2

Unit: MI

9-23-99 (S9037)

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

SOYBEAN POSTEMERGENCE XIV

Trial ID: S9037

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	6-4-99					
Time of Day:	2:00 PM					
Application Method:	SPRAY					
Application Timing:	LLP					
Applic. Placement:	BROFOL					
Air Temp., Unit:	81 F					
% Relative Humidity:	98					
Wind Velocity, Unit:	1 MPH					
Dew Presence (Y/N):	N					
Soil Temp., Unit:	79					
Soil Moisture:	INADEQUAT					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA						
Stage Scale:	3 TRIFOL					
Height, Unit:	8 IN					

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	LLP					
Stage Scale:	3 LEAF					
Density, Unit:	5 IN					
AMBTR						
Stage Scale:	6 LEAF					
Density, Unit:	8 IN					
CHEAL						
Stage Scale:	18 LEAF					
Density, Unit:	8 IN					

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

## SOYBEAN POSTEMERGENCE XIV

Trial ID: S9037

Study Dir.:

Location: LEXINGTON, KY

Investigator: 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					
Spray Volume, Unit:	24 GPA					
Propellant:	CO2					

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

SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S9034

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

Weed Code	GLYMA	SETFA	CHEAL	AMACH	IPOHE	GLYMA	SETFA	CHEAL	AMACH	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	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
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 Amt	Fm Ds	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	CHEAL	AMACH	IPOHE	GLYMA	SETFA	CHEAL	AMACH	IPOHE
1	LIBERTY	1.67	E	.27	LB A/A	MP	0	99	80	92	89	0	97	40	69	81
1	AMS	100	SG	3	LB/A	MP										
1	LIBERTY	1.67	E	.27	LB A/A	SEQ										
1	AMS	100	SG	3	LB/A	SEQ										
2	LIBERTY	1.67	E	.27	LB A/A	LP	0	99	96	99	94	0	95	85	92	83
2	AMS	100	SG	3	LB/A	LP										
2	LIBERTY	1.67	E	.27	LB A/A	SEQ										
2	AMS	100	SG	3	LB/A	SEQ										
3	LIBERTY	1.67	E	.36	LB A/A	LP	0	99	94	98	95	0	95	89	91	90
3	AMS	100	SG	3	LB/A	LP										
3	LIBERTY	1.67	E	.27	LB A/A	SEQ										
3	AMS	100	SG	3	LB/A	SEQ										
4	LIBERTY	1.67	E	.27	LB A/A	LP	0	99	93	97	94	0	95	83	89	85
4	AMS	100	SG	3	LB/A	LP										
5	LIBERTY	1.67	E	.36	LB A/A	LP	0	99	94	98	95	0	96	88	91	86
5	AMS	100	SG	3	LB/A	LP										
6	CANOPY	75	DF	.187	LB A/A	PRE	0	99	98	98	95	0	96	94	94	85
6	LIBERTY	1.67	E	.27	LB A/A	MP										
6	AMS	100	SG	3	LB/A	MP										
7	CANOPY	75	DF	.87	LB A/A	PRE	0	99	99	98	97	0	97	97	96	90
7	LIBERTY	1.67	E	.27	LB A/A	MP										
7	AMS	100	SG	3	LB/A	MP										
8	PROWL	3.3	EC	1.24	LB A/A	PRE	0	99	97	97	95	0	97	91	94	86
8	LIBERTY	1.67	E	.27	LB A/A	MP										
8	AMS	100	SG	3	LB/A	MP										

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

## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S9034 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Other Investigator: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-4-99 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1. SETFA GIANT FOXTAIL 2. CHEAL LAMBSQUARTERS 3. ABUTH VEVLETLEAF  
4. AMACH SMOOTH PIGWEED 5. IPOHE I. MORNINGGLORY

Crop 1: GLYMA SOYBEAN Variety: A5547 Planting Date: 5-4-99  
Planting Method: ROW Rate: 12 S/ ROW FT Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: CLODDY  
Soil Temperature: 62 F Soil Moisture: SLIGHTLY WET Emergence Date: 5-11-99  
Plot Width, Unit: 5 FT Plot Length, Unit: 33 FT Reps: 4  
Site Type: FIELD  
Tillage Type: CONVENTIONAL TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

Texture: SILTLOAM % OM: 3 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 13 Soil Name: MAURY Fertility Level: EXCELLENT

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

## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S9034

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-4-99	5-27-99	6-3-99			
Time of Day:	5PM	2 PM	11AM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	LP			
Applic. Placement:	BROSOI	BROFOI	BROFOI			
Air Temp., Unit:	81 F	76 F	79 F			
% Relative Humidity:	40	25	90			
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	62 F	66 F	68 F			
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUAT			
% Cloud Cover:	20	30	40			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		MP	LP			
		2 TR	4 TR			
		3 IN	5 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	LP			
		4 LVS	6 LVS			
		2.5 IN	4 IN			
CHEAL		8 LVS	10 LVS			
		3 IN	5 IN			
ABUTH		5 LVS	8 LVS			
		3 IN	5 IN			
AMACH		3 LVS	4 LVS			
		1.5 IN	3 IN			
IPOHE		2 LVS	4 LVS			
		2 IN	4 IN			

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

## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S9034

Investigator:

Location: LEXINGTON, KY.

Study Dir.: Charles H. Slack

	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN			
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			

Trt No

Treatment Application Comment

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

NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Weed Code								
Crop Code								
Part Rated								
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
1	CANOPY	75	DF	.188	LB A/A	-1WK	0	95	95	95	0	95	95	95
1	AUTHORITY	75	DF	.188	LB A/A	-1WK								
1	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
1	COC		L	1	QT/A	-1WK								
1	ASSURE II	.8	EC	.069	LB A/A	MP								
1	CLASSIC	25	DF	.01	LB A/A	MP								
1	COC		L	1	QT/A	MP								
1	AMS	100	SG	2	LB/A									
2	AUTHORITY	75	DF	.21	LB A/A	-1WK	0	95	95	95	0	95	95	95
2	TOUCHDOWN 5	5	SL	.94	LB A/A	-1WK								
2	INDUCE			.25	% V/V	-1WK								
2	CLASSIC	25	DF	.008	LB A/A	MP								
2	FIRSTRATE	84	W	.016	LB A/A	MP								
2	ASSURE II	.8	EC	.069	LB A/A	MP								
2	COC		L	1	QT/A	MP								
3	SYNCHRONY STS	42	DF	.013	LB A/A	-1WK	0	95	95	95	0	95	95	95
3	TOUCHDOWN 5	5	SL	.94	LB A/A	-1WK								
3	INDUCE			.25	% V/V	-1WK								
3	FIRSTRATE	84	W	.016	LB A/A	MP								
3	ASSURE II	.8	EC	.069	LB A/A	MP								
3	COC		L	1	QT/A	MP								



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

Trial ID: S9018

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Drop 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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
4	CANOPY	75	DF	.188	LB A/A	-1WK	0	95	95	95	0	95	95	95
4	AUTHORITY	75	DF	.188	LB A/A	-1WK								
4	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
4	COC		L	1	QT/A	-1WK								
4	ASSURE II	.8	EC	.069	LB A/A	MP								
4	SYNCHRONY STS	42	DF	.013	LB A/A	MP								
4	COC		L	1	QT/A	MP								
4	AMS	100	SG	2	LB/A	MP								
5	CANOPY XL						0	95	95	95	0	95	95	95
5	AUTHORITY	75	DF	.132	LB A/A	-1WK								
5	CLASSIC	25	DF	.026	LB A/A	-1WK								
5	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
5	COC		L	1	QT/A	-1WK								
5	ASSURE II	.8	EC	.069	LB A/A	MP								
5	SYNCHRONY STS	42	DF	.013	LB A/A	MP								
5	COC		L	1	QT/A	MP								
5	AMS	100	SG	2	LB/A	MP								
6	CANOPY XL						0	95	95	95	0	95	95	95
6	AUTHORITY	75	DF	.132	LB A/A	-1WK								
6	CLASSIC	25	DF	.026	LB A/A	-1WK								
6	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
6	COC		L	1	QT/A	-1WK								
6	ASSURE II	.8	EC	.069	LB A/A	MP								
6	SYNCHRONY STS	42	DF	.013	LB A/A	MP								
6	FIRSTRATE	84	W	.008	LB A/A	MP								
6	COC		L	1	QT/A	MP								
6	AMS	100	SG	2	LB/A	MP								

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

NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Need Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
7	CANOPY XL						0	95	95	95	0	95	95	95
7	AUTHORITY	75	DF	.132	LB A/A	-1WK								
7	CLASSIC	25	DF	.026	LB A/A	-1WK								
7	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
7	COC		L	1	QT/A	-1WK								
7	ASSURE II	.8	EC	.069	LB A/A	MP								
7	SYNCHRONY STS	42	DF	.013	LB A/A	MP								
7	FIRSTRATE	84	W	.008	LB A/A	MP								
7	COC		L	1	QT/A	MP								
7	AMS	100	SG	2	LB/A	MP								
8	CANOPY	75	DF	.188	LB A/A	-1WK	0	95	95	95	0	95	95	95
8	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
8	COC		L	1	QT/A	-1WK								
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
9	CANOPY XL						0	95	95	95	0	95	95	95
9	AUTHORITY	75	DF	.132	LB A/A	-1WK								
9	CLASSIC	25	DF	.026	LB A/A	-1WK								
9	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
9	COC		L	1	QT/A	-1WK								
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
10	AUTHORITY	75	DF	.188	LB A/A	-1WK	0	95	95	95	0	95	95	95
10	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
10	COC		L	1	QT/A	-1WK								
10	CLASSIC	25	DF	.005	LB A/A	MP								
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								

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

NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	-1WK	0	95	95	95	0	95	95	95
11	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
11	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
11	COC		L	1.25	QT/A	MP								
12	GRAMOXONE EXTRA	2.5	AS	.63	LB A/A	-1WK	0	95	95	95	0	95	88	95
12	INDUCE			.25	% V/V	-1WK								
12	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
12	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
12	COC		L	1.25	QT/A	MP								
13	CLARITY	4	E	.25	LB A/A	-3WK	0	95	95	95	0	93	95	95
13	ROUNDUP ULTRA	4	AS	.75	LB A/A	-3WK								
13	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
13	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
13	COC		L	1.25	QT/A	MP								
14	CLARITY	4	E	.25	LB A/A	-3WK	0	95	95	95	0	92	92	92
14	GRAMOXONE EXTRA	2.5	AS	.63	LB A/A	-3WK								
14	INDUCE			.25	% V/V	-3WK								
14	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
14	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
14	COC		L	1.25	QT/A	MP								
15	CLARITY	4	E	.25	LB A/A	-3WK	0	67	78	63	0	45	72	45
15	TOUCHDOWN 5	5	SL	.75	LB A/A	-3WK								
15	INDUCE			.25	% V/V	-3WK								
15	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
15	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
15	COC		L	1.25	QT/A	MP								

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

NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
16	CLARITY	4	E	.25	LB A/A	-3WK	0	95	95	95	0	92	95	95
16	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
16	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
16	COC		L	1.25	QT/A	MP								
17	SQUADRON	2.33	EC	.87	LB A/A	-1WK	0	88	95	95	0	85	95	95
17	TOUCHDOWN 5	5	SL	1	LB A/A	-1WK								
17	AMS	100	SG	8.5	LB/A	-1WK								
18	SQUADRON	2.33	EC	.87	LB A/A	-1WK	0	88	95	95	0	85	95	95
18	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK								
18	AMS	100	SG	8.5	LB/A	-1WK								
19	STEEL	2.57	EC	.945	LB A/A	-1WK	0	95	95	95	0	95	95	95
19	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK								
19	AMS	100	SG	8.5	LB/A	-1WK								
20	STEEL	2.57	EC	.945	LB A/A	-1WK	0	88	95	95	0	87	95	95
20	TOUCHDOWN 5	5	SL	1	LB A/A	-1WK								
20	AMS	100	SG	8.5	LB/A	-1WK								
21	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK	0	95	95	95	0	95	95	95
21	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
21	AMS	100	SG	17	LB/A	MP								
22	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK	0	95	95	95	0	95	95	95
22	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
22	AMS	100	SG	17	LB/A	MP								
22	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
22	AMS	100	SG	17	LB/A	REG								

Dept. of Agronomy, Univ. of KY  
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O-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Seed Code								
Drop 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								
Drop Stage								
Drop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
LSD (P=.05)							0.0	16.9	1.0	15.0	0.0	16.9	3.1	15.4
Standard Deviation							0.0	10.3	0.6	9.1	0.0	10.2	1.9	9.3
CV							0.0	11.05	0.65	9.69	0.0	11.25	1.99	10.09

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

Trial ID: S9018                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-17-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTER

Crop 1:GLYMA SOYBEAN                      Variety: ASGROW 4501                      Planting Date: 5-17-99  
Planting Method: DRILLED                      Rate: 3                      S/ROW-FT                      Depth: 1                      IN  
Row Spacing: 8                      IN                      Seed Bed: MEDIUM  
Soil Temperature: 77 F                      Soil Moisture: NORMAL                      Emergence Date: 5-30-99

Plot Width, Unit: 6.66 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

## NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018

Study Dir.:

Location: LEXINTON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-7-99	6-3-99	6-22-99	6-30-99		
Time of Day:	10:00 AM	1:00 PM	1:00 PM	9:00 AM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	-1 WK	MP	3 WK	REG		
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	74 F	83 F	88 F	83 F		
% Relative Humidity:	98	98	82	96		
Wind Velocity, Unit:	4 MPH	5 MPH	3 MPH	2 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	71 F	80 F	85 F	80 F		
Soil Moisture:	ADEQUATE	POOR	POOR	POOR		
% Cloud Cover:	40	75	50	45		

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		MP	3 WK	REG		
		3 TRIFOL	4 TRIFOL	5 TRIFOL		
		8 IN	10 IN	12 IN		

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	3 WK	REG		
		3 LVS	4 LVS	2 LVS		
		2 IN	3 IN	1 IN		
AMBTR		4 LVS	6 LVS	2 LVS		
		3 IN	6 IN	2 IN		
CHEAL		10 LVS	12 LVS	4 LVS		
		2 IN	4 IN	2 IN		

## NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S9018

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

	APPLICATION EQUIPMENT				E	F
	A	B	C	D		
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:	6.66 FT	6.66 FT	6.66 FT	6.66 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	3.5 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  
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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019  
Location: LEXINTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg							
1	CANOPY	75	DF	.188	LB A/A	-1WK	0	100	100	100	0	100	100
1	AUTHORITY	75	DF	.188	LB A/A	-1WK							
1	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK							
1	COC		L	1	QT/A	-1WK							
1	ASSURE II	.8	EC	.069	LB A/A	MP							
1	CLASSIC	25	DF	.01	LB A/A	MP							
1	COC		L	1	QT/A	MP							
1	AMS	100	SG	2	LB/A								
2	AUTHORITY	75	DF	.21	LB A/A	-1WK	0	100	100	100	0	100	100
2	TOUCHDOWN 5	5	SL	.94	LB A/A	-1WK							
2	INDUCE			.25	% V/V	-1WK							
2	CLASSIC	25	DF	.008	LB A/A	MP							
2	FIRSTRATE	84	W	.016	LB A/A	MP							
2	ASSURE II	.8	EC	.069	LB A/A	MP							
2	COC		L	1	QT/A	MP							
3	SYNCHRONY STS	42	DF	.013	LB A/A	-1WK	0	100	100	100	0	100	100
3	TOUCHDOWN 5	5	SL	.94	LB A/A	-1WK							
3	INDUCE			.25	% V/V	-1WK							
3	FIRSTRATE	84	W	.016	LB A/A	MP							
3	ASSURE II	.8	EC	.069	LB A/A	MP							
3	COC		L	1	QT/A	MP							

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Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Drop 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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg							
4	CANOPY	75	DF	.188	LB A/A	-1WK	0	100	100	100	0	100	100
4	AUTHORITY	75	DF	.188	LB A/A	-1WK							
4	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK							
4	COC		L	1	QT/A	-1WK							
4	ASSURE II	.8	EC	.069	LB A/A	MP							
4	SYNCHRONY STS	42	DF	.013	LB A/A	MP							
4	COC		L	1	QT/A	MP							
4	AMS	100	SG	2	LB/A	MP							
5	CANOPY XL						0	100	98	100	0	100	98
5	AUTHORITY	75	DF	.132	LB A/A	-1WK							
5	CLASSIC	25	DF	.026	LB A/A	-1WK							
5	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK							
5	COC		L	1	QT/A	-1WK							
5	ASSURE II	.8	EC	.069	LB A/A	MP							
5	SYNCHRONY STS	42	DF	.013	LB A/A	MP							
5	COC		L	1	QT/A	MP							
5	AMS	100	SG	2	LB/A	MP							
6	CANOPY XL						0	100	100	100	0	100	100
6	AUTHORITY	75	DF	.132	LB A/A	-1WK							
6	CLASSIC	25	DF	.026	LB A/A	-1WK							
6	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK							
6	COC		L	1	QT/A	-1WK							
6	ASSURE II	.8	EC	.069	LB A/A	MP							
6	SYNCHRONY STS	42	DF	.013	LB A/A	MP							
6	FIRSTRATE	84	W	.008	LB A/A	MP							
6	COC		L	1	QT/A	MP							
6	AMS	100	SG	2	LB/A	MP							

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
7	CANOPY XL						0	100	100	100	0	100	100	100
7	AUTHORITY	75	DF	.132	LB A/A	-1WK								
7	CLASSIC	25	DF	.026	LB A/A	-1WK								
7	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
7	COC		L	1	QT/A	-1WK								
7	ASSURE II	.8	EC	.069	LB A/A	MP								
7	SYNCHRONY STS	42	DF	.013	LB A/A	MP								
7	FIRSTRATE	84	W	.008	LB A/A	MP								
7	COC		L	1	QT/A	MP								
7	AMS	100	SG	2	LB/A	MP								
8	CANOPY	75	DF	.188	LB A/A	-1WK	0	100	100	100	0	100	100	100
8	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
8	COC		L	1	QT/A	-1WK								
8	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
9	CANOPY XL						0	100	100	100	0	100	100	100
9	AUTHORITY	75	DF	.132	LB A/A	-1WK								
9	CLASSIC	25	DF	.026	LB A/A	-1WK								
9	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
9	COC		L	1	QT/A	-1WK								
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
10	AUTHORITY	75	DF	.188	LB A/A	-1WK	0	100	100	100	0	100	100	100
10	GRAMOXONE EXTRA	2.5	AS	.469	LB A/A	-1WK								
10	COC		L	1	QT/A	-1WK								
10	CLASSIC	25	DF	.005	LB A/A	MP								
10	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								

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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
11	ROUNDUP ULTRA	4	AS	.75	LB A/A	-1WK	0	100	100	98	0	100	100	98
11	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
11	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
11	COC		L	1.25	QT/A	MP								
12	GRAMOXONE EXTRA	2.5	AS	.63	LB A/A	-1WK	0	100	100	100	0	100	100	100
12	INDUCE			.25	% V/V	-1WK								
12	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
12	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
12	COC		L	1.25	QT/A	MP								
13	CLARITY	4	E	.25	LB A/A	-3WK	0	100	100	100	0	100	100	100
13	ROUNDUP ULTRA	4	AS	.75	LB A/A	-3WK								
13	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
13	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
13	COC		L	1.25	QT/A	MP								
14	CLARITY	4	E	.25	LB A/A	-3WK	0	100	100	100	0	100	100	100
14	GRAMOXONE EXTRA	2.5	AS	.63	LB A/A	-3WK								
14	INDUCE			.25	% V/V	-3WK								
14	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
14	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
14	COC		L	1.25	QT/A	MP								
15	CLARITY	4	E	.25	LB A/A	-3WK	0	100	43	67	0	100	43	67
15	TOUCHDOWN 5	5	SL	.75	LB A/A	-3WK								
15	INDUCE			.25	% V/V	-3WK								
15	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
15	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
15	COC		L	1.25	QT/A	MP								

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
16	CLARITY	4	E	.25	LB A/A	-3WK	0	100	100	92	0	100	100	92
16	CONCLUDE ULTRA B	2.53	E	.47	LB A/A	MP								
16	CONCLUDE ULTRA G	1.29	E	.14	LB A/A	MP								
16	COC		L	1.25	QT/A	MP								
17	SQUADRON	2.33	EC	.87	LB A/A	-1WK	0	100	85	98	0	100	85	98
17	TOUCHDOWN 5	5	SL	1	LB A/A	-1WK								
17	AMS	100	SG	8.5	LB/A	-1WK								
18	SQUADRON	2.33	EC	.87	LB A/A	-1WK	0	98	88	98	0	98	88	98
18	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK								
18	AMS	100	SG	8.5	LB/A	-1WK								
19	STEEL	2.57	EC	.945	LB A/A	-1WK	0	100	90	100	0	100	90	100
19	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK								
19	AMS	100	SG	8.5	LB/A	-1WK								
20	STEEL	2.57	EC	.945	LB A/A	-1WK	0	100	87	100	0	100	87	100
20	TOUCHDOWN 5	5	SL	1	LB A/A	-1WK								
20	AMS	100	SG	8.5	LB/A	-1WK								
21	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK	0	100	100	100	0	100	100	100
21	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
21	AMS	100	SG	17	LB/A	MP								
22	ROUNDUP ULTRA	4	AS	1	LB A/A	-1WK	0	100	100	100	0	100	100	100
22	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
22	AMS	100	SG	17	LB/A	MP								
22	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
22	AMS	100	SG	17	LB/A	REG								

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

MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Weed Code								
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg
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LSD (P=.05)	0.0	1.0	16.9	20.2	0.0	1.0	16.9	20.2
Standard Deviation	0.0	0.6	10.3	12.3	0.0	0.6	10.3	12.3
CV	0.0	0.62	10.79	12.53	0.0	0.62	10.79	12.53

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

## MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack  
Affiliation: University of Kentucky Postal Code: 40546  
Investigator: Charles H. Slack

Trial Status: complete Initiation Date: 4-22-99 Country: USA  
City: Lexington State/Prov.: KY Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTER

Crop 1:GLXMA SOYBEAN Variety: AG 4301 Planting Date: 5-10-99  
Planting Method: DRILLED Rate: 55 LB/A Depth: 1 IN  
Row Spacing: 7 IN Seed Bed: ROUGH  
Soil Temperature: 74 F Soil Moisture: BELOW NORMAL Emergence Date: 5-20-99

Plot Width, Unit: 6.66 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 % Sand: 6 % Silt: 64 % Clay: 30  
pH: 6.5 CEC: 25 Soil Name: LANTON Fertility Level: EXCELLENT

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

MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-22-99	5-7-99	5-12-99	6-3-99		
Time of Day:	1:00 PM	10:00 AM	2:00	1:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	3 WEEK	1 WEEK	PRE	MP		
Applic. Placement:	BROSOI	BROSOI	BROSOI	BROFOL		
Air Temp., Unit:	75 F	73 F	80 F	77 F		
% Relative Humidity:	67	81	86	95		
Wind Velocity, Unit:	8 MPH	5 MPH	3 MPH	1 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	63 F	69 F	75 F	75 F		
Soil Moisture:	ADEQUATE	INADEQUAT	INADEQUAT	ADEQUATE		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		MP	3WK	REG		
		3 TRIFOL	4 TRIFOL	5 TRIFOL		
		8 IN	10 IN	12 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		MP	3WK	REG		
		2 LVS	3 LVS	2 LVS		
		2 IN	3 IN	1 IN		
AMBTR		4 LVS	6 LVS	2 LVS		
		3 IN	6 IN	2 IN		
CHEAL		10 LVS	12 LVS	4 LVS		
		2 IN	4 IN	2 IN		



Dept. of Agronomy, Univ. of KY  
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## MINIMUM TILL SOYBEAN EARLY PREPLANT

Trial ID: S9019

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	10 FT	10 FT	10 FT	10 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	3.5 IN	3.5 IN	3.5 IN	3.5 IN		
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 SOYBEAN FULL SEASON

Trial ID: S9020  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
1	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	92	82	95	0	95	87	93
1	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
1	AMS	100	SG	8.5	LB/100 GAL	PRE								
1	FUSION	2.66	EC	.21	LB A/A	MP								
1	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP								
1	MSO		L	1	QT/A	MP								
2	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE	0	93	99	99	0	95	99	99
2	CANOPY XL													
2	AUTHORITY	75	DF	.117	LB A/A	PRE								
2	CLASSIC	25	DF	.024	LB A/A	PRE								
2	FUSION	2.66	EC	.21	LB A/A	MP								
2	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP								
2	MSO		L	1	QT/A	MP								
3	COMMAND	3	ME	.5	LB A/A	PRE	10	94	91	96	10	95	95	99
3	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
3	AMS	100	SG	17	LB/100 GAL	PRE								
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
3	AMS	100	SG	17	LB/100 GAL	MP								
4	COMMAND	3	ME	.5	LB A/A	PRE	0	96	80	93	0	96	77	96
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
4	AMS	100	SG	17	LB/100 GAL	PRE								
4	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
4	AMS	100	SG	17	LB/100 GAL	MP								

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

NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
5	COMMAND	3	ME	.75	LB A/A	PRE	0	94	77	92	0	98	63	98
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
5	AMS	100	SG	17	LB/100 GAL	PRE								
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
5	AMS	100	SG	17	LB/100 GAL	MP								
6	SQUADRON	2.33	EC	.87	LB A/A	PRE	0	93	98	99	0	98	96	99
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
6	AMS	100	SG	2.5	LB/A	PRE								
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	93	99	99	0	96	99	99
7	AMS	100	SG	17	LB/100 GAL	PRE								
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
7	AMS	100	SG	2.5	LB/A	LP								
8	SCEPTER	70	WG	.125	LB A/A	PRE	13	95	99	99	7	95	99	99
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
8	AMS	100	SG	2.5	LB/A	PRE								
8	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
8	AMS	100	SG	2.5	LB/A	LP								
9	PROWL	3.3	EC	1	LB A/A	PRE	0	95	99	99	0	96	99	99
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
9	AMS	100	SG	2.5	LB/A	PRE								
9	RAPTOR	1	E	.04	LB A/A	LP								
9	INDUCE			.25	8 V/V	LP								
9	AMS	100	SG	2.5	LB/A	LP								

NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
10	STEEL	2.57	EC	.965	LB A/A	PRE	23	93	99	99	27	98	99	99
10	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
10	AMS	100	SG	2.5	LB/A	LP								
11	PROWL	3.3	EC	1	LB A/A	PRE	3	92	78	93	0	98	73	96
11	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
11	AMS	100	SG	2.5	LB A/A	PRE								
11	PURSUIT	70	DF	.063	LB A/A	MP								
11	STATUS	2	EC	.156	LB A/A	MP								
11	INDUCE			.25	% V/V	MP								
11	LIQUID N		L	1	QT/A	MP								
12	PROWL	3.3	EC	1	LB A/A	PRE	0	95	93	98	0	98	86	98
12	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
12	AMS	100	SG	2.5	LB/A	PRE								
12	RAPTOR	1	E	.04	LB A/A	MP								
12	INDUCE			.25	% V/V	MP								
12	LIQUID N		L	1	QT/A	MP								
13	STEEL	2.57	EC	.965	LB A/A	PRE	23	96	83	355	20	98	70	95
13	PROWL	3.3	EC	.5	LB A/A	PRE								
13	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
13	AMS	100	SG	2.5	LB/A	PRE								
13	STATUS	2	EC	.156	LB A/A	MP								
13	INDUCE			.25	% V/V	MP								

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

NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
14	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	98	99	99	0	98	99	99
14	AMS	100	SG	2.5	LB/A	PRE								
14	RAPTOR	1	E	.04	LB A/A	LP								
14	INDUCE			.25	% V/V	LP								
14	LIQUID N		L	1	QT/A	LP								
15	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	96	89	96	0	98	73	99
15	AMS	100	SG	8.5	LB/100 GAL	PRE								
15	PURSUIT	70	DF	.063	LB A/A	LP								
15	TOUCHDOWN 5	5	SL	.47	LB A/A	LP								
15	AMS	100	SG	2.5	LB/A	LP								
16	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	95	99	99	0	98	99	99
16	AMS	100	SG	2.5	LB/A	PRE								
16	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
16	AMS	100	SG	2.5	LB/A	LP								
17	USA 1999	75	DF	.38	LB A/A	PRE	0	90	99	99	0	98	99	99
17	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
17	AMS	100	SG	17	LB/100 GAL	PRE								
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
17	AMS	100	SG	17	LB/100 GAL	LP								
18	FRONTIER	6	E	1.3	LB A/A	PRE	3	92	90	96	3	98	86	99
18	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
18	AMS	100	SG	8.5	LB/100 GAL	PRE								
18	FIRSTRATE	84	W	.031	LB A/A	MP								
18	COC		L	1	QT/A	MP								

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

NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Crop Code	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Part Rated								
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	95	93	96	0	98	86	99
19	AMS	100	SG	2.5	LB/A	PRE								
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
19	AMS	100	SG	2.5	LB/A	LP								
20	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	3	93	99	99	0	98	99	99
20	AMS	100	SG	2.5	LB/A	PRE								
20	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
20	AMS	100	SG	17	LB/100 GAL	LP								
20	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
20	AMS	100	SG	17	LB/100 GAL	REG								
21	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	3	93	99	99	0	98	99	99
21	AMS	100	SG	8.5	LB/100 GAL	PRE								
21	TOUCHDOWN 5	5	SL	1	LB A/A	LP								
21	AMS	100	SG	8.5	LB/100 GAL	LP								
22	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	93	99	99	0	98	99	99
22	AMS	100	SG	8.5	LB/100 GAL	PRE								
22	TOUCHDOWN 5	5	SL	1	LB A/A	LP								
22	AMS	100	SG	8.5	LB/100 GAL	LP								
22	TOUCHDOWN 5	5	SL	1	LB A/A	REG								
22	AMS	100	SG	8.5	LB/100 GAL	REG								
LSD (P=.05)							11.5	4.0	14.7	166.2	11.4	1.1	24.5	3.8
Standard Deviation							7.0	2.4	8.9	100.7	6.9	0.6	14.8	2.3
CV							184.24	2.59	9.59	92.45	227.03	0.66	16.48	2.33

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

NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020                      Study Dir.:  
Location: LEXINGTON, KY.            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack  
Affiliation: University of Kentucky

Trial Status: COMPLETE                      Initiation Date: 5-10-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546  
Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTER

Crop 1:GLXMA soybeans                      Variety: AG4501                      Planting Date: 5-10-99  
Planting Method: DRILL                      Rate: 3                      S/ROW FT                      Depth: 1.5 IN  
Row Spacing: 8 IN                      Seed Bed: MEDIUM/TRASHY  
Soil Temperature: 64 F                      Soil Moisture: SLIGHTLY DRY

Plot Width, Unit: 6.66 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: 7                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 27                      Soil Name: LANTON                      Fertility Level: EXCELLENT

Overall Moisture Conditions: DRY-DRY-VERY DRY  
Closest Weather Station: SPINDLETOP

Distance: 2                      Unit: MI

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

NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	5-10-99	6-4-99	6-21-99			
Time of Day:	2 PM	2 PM	11 AM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP	LP			
Applic. Placement:	BROSOI	BROFOI	BROFOI			
Air Temp., Unit:	79 F	83 F	87 F			
% Relative Humidity:	40	90	30			
Wind Velocity, Unit:	2 MPH	1 MPH	3 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	64 F	69 F	73 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	20	40	20			

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
GLXMA		MP	LP			
		2 ND TRI	4TH TRI			
		6 IN	10 IN			

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
SETFA		MP	LP			
		2 LVS	3LVS			
		3 IN	7 IN			
AMBTR		4 LVS	8 LVS			
		4 IN	10 IN			
CHEAL		10 LVS	12 LVS			
		3 IN	5 IN			



## NO-TILL SOYBEAN FULL SEASON

Trial ID: S9020

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK	BACKPACK			
Operating Pressure:	30	30	30			
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN			
Nozzle Size:	8004	8004	8004			
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			
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	GPA		
Propellant:	CO2	CO2	CO2			

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

NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
1	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
1	AMS	100	SG	2	% W/W	PRE								
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
1	AMS	100	SG	2	% W/W	LP								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
2	AMS	100	SG	2	% W/W	PRE								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
2	AMS	100	SG	2	% W/W	LP								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
2	AMS	100	SG	2	% W/W	REG								
3	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
3	MICRO-TECH	4	ME	2	LB A/A	PRE								
3	AMS	100	SG	2	% W/W	PRE								
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
3	AMS	100	SG	2	% W/W	LP								
3	COC		L	1	QT/A	LP								
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
4	AMS	100	SG	2	% W/W	PRE								
4	RAPTOR	1	E	.04	LB A/A	LP								
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
4	INDUCE			.25	% V/V	LP								
4	LIQUID N		L	1	QT/A	LP								

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
5	AMS	100	SG	2	% W/W	PRE								
5	PURSUIT	2	EC	.063	LB A/A	LP								
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
5	COC	L	L	1	QT/A	LP								
5	LIQUID N	L	L	1	QT/A	LP								
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
6	AMS	100	SG	17	LB/100 GAL	PRE								
6	SCEPTER	70	WG	.125	LB A/A	LP								
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
6	INDUCE			.25	% V/V	LP								
7	CANOPY XL					PRE	0	100	100	100	0	100	100	100
7	CLASSIC	25	DF	.018	LB A/A	PRE								
7	AUTHORITY	75	DF	.088	LB A/A	PRE								
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
7	AMS	100	SG	2	% W/W	PRE								
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
8	AUTHORITY	75	DF	.141	LB A/A	PRE	0	100	100	100	0	100	100	100
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
8	AMS	100	SG	2	% W/W	PRE								
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
9	AMS	100	SG	2	% W/W	PRE								
9	CLASSIC	25	DF	.005	LB A/A	LP								
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								

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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
10	CANOPY	75	DF	.141	LB A/A	PRE	0	100	100	100	0	100	100	100
10	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
10	AMS	100	SG	2	% W/W	PRE								
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
11	CANOPY	75	DF	.141	LB A/A	PRE	0	100	100	100	0	100	100	100
11	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
11	AMS	100	SG	2	% W/W	PRE								
11	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
11	CLASSIC	25	DF	.005	LB A/A	LP								
12	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	100	100	100	0	100	100	100
12	AMS	100	SG	2	% W/W	PRE								
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP								
12	FLEXSTAR HL	1.88	CS	.118	LB A/A	LP								
12	COC		L	1	QT/A	LP								
12	AMS	100	SG	8.5	LB/100 GAL	LP								
13	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	100	100	100	0	100	100	100
13	AMS	100	SG	2	% W/W	PRE								
13	TOUCHDOWN 5	5	SL	.75	LB A/A	LP								
13	AMS	100	SG	8.5	LB/100 GAL	LP								
14	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	100	100	100	0	100	100	100
14	AMS	100	SG	2	% W/W	PRE								
14	TOUCHDOWN 5	5	SL	1	LB A/A	LP								
14	AMS	100	SG	8.5	LB/100 GAL	LP								
14	TOUCHDOWN 5	5	SL	1	LB A/A	REG								
14	AMS	100	SG	8.5	LB/100 GAL	REG								

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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
15	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
15	AMS	100	SG	2	% W/W	PRE								
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
15	RESOURCE	.86	EC	.02	LB A/A	LP								
15	COC		L	.5	QT/A	LP								
16	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	100	100	100	0	100	100	100
16	AMS	100	SG	2	% W/W	PRE								
16	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
16	FIRSTRATE	84	W	.016	LB A/A	LP								
17	AXIOM	68	DF	.425	LB A/A	PRE	0	100	100	100	0	100	100	100
17	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
17	AMS	100	SG	2	% W/W	PRE								
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
17	AMS	100	SG	2	% W/W	LP								
18	STEEL	2.57	EC	.97	LB A/A	PRE	0	100	100	100	0	100	100	100
18	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
18	AMS	100	SG	2	% W/W	PRE								
18	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
19	CANOPY	75	DF	.188	LB A/A	PRE	0	100	100	100	0	100	100	100
19	AUTHORITY	75	DF	.188	LB A/A	PRE								
19	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
19	AMS	100	SG	2	% W/W	PRE								
19	ASSURE II	.8	EC	.069	LB A/A	LP								
19	SYNCHRONY STS	42	DF	.013	LB A/A	LP								
19	COC		L	1	QT/A	LP								
19	AMS	100	SG	2	LB/A	LP								

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	AMBTR	CHEAL	GLXMA	SETFA	AMBTR	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
20	CANOPY XL						0	100	100	100	0	100	100	100
20	AUTHORITY	75	DF	.117	LB A/A	PRE								
20	CLASSIC	25	DF	.024	LB A/A	PRE								
20	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
20	AMS	100	SG	2	% W/W	PRE								
20	ASSURE II	.8	EC	.069	LB A/A	LP								
20	SYNCHRONY STS	42	DF	.013	LB A/A	LP								
20	COC		L	1	QT/A	LP								
20	AMS	100	SG	2	LB/A	LP								
21	AUTHORITY	75	DF	.21	LB A/A	PRE	0	100	100	100	0	100	100	100
21	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
21	AMS	100	SG	2	% W/W	PRE								
21	CLASSIC	25	DF	.008	LB A/A	LP								
21	FIRSTRATE	84	W	.016	LB A/A	LP								
21	ASSURE II	.8	EC	.069	LB A/A	LP								
21	COC		L	1	QT/A	LP								
22	SYNCHRONY STS	42	DF	.013	LB A/A	PRE	0	100	100	100	0	100	100	100
22	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
22	AMS	100	SG	2	% W/W	PRE								
22	CLASSIC	25	DF	.008	LB A/A	LP								
22	FLEXSTAR HL	1.88	CS	.29	LB A/A	LP								
22	ASSURE II	.8	EC	.069	LB A/A	LP								
LSD (P=.05)							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Dept. of Agronomy, Univ. of KY  
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## NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022                      Study Dir.:  
Location: LEXINGTON, KY            Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack                      Postal Code: 40526  
Affiliation: University of Kentucky  
Investigator: Charles H. Slack

Trial Status: complete                      Initiation Date: 5-10-99                      Country: USA  
City: Lexington                      State/Prov.: KY                      Postal Code: 40526

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL                      2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTER

Crop 1:GLXMA SOYBEAN                      Variety: AG 4301                      Planting Date: 5-10-99  
Planting Method: DRILLED                      Rate: 55                      LB/A                      Depth: 1                      IN  
Row Spacing: 7                      IN                      Seed Bed: ROUGH  
Soil Temperature: 77                      F                      Soil Moisture: DRY                      Emergence Date: 5-22-99

Plot Width, Unit: 6.66                      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                      % Sand: 6                      % Silt: 64                      % Clay: 30  
pH: 6.5                      CEC: 25                      Soil Name: LANTON                      Fertility Level: EXCELLENT

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

Dept. of Agronomy, Univ. of KY  
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## NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-11-99	6-21-99				
Time of Day:	3:00 PM	1:00 pm				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	82 F	85 F				
% Relative Humidity:	79	82				
Wind Velocity, Unit:	3 MPH	2 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	74 F	83 F				
Soil Moisture:	INADEQUAT	INADEQUAT				
% Cloud Cover:	10	20				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		3 TRIFOL				
		6 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		LP				
		4 LVS				
		5 IN				
AMBTR		6 LVS				
		6 IN				
CHEAL		12 LVS				
		5 IN				



NO-TILL SOYBEAN FULL SEASON II

Trial ID: S9022

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	3.5 MPH	3.5 MPH				
Carrier:	WATER	WATER				
Spray Volume, Unit:	25 GPA	25 GPA				
Propellant:	CO2	CO2				
		C				

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Weed Science Field Research

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S9032  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL
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									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
1	TOUCHDOWN 5	5	SL	1	LB A/A	LP	3	100	100	3	100	100	0	100	100
1	AMS	100	SG	8.5	LB/100 GAL	LP									
2	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	100	0	100	100	0	100	100
2	BASAGRAN	4	E	.03	LB A/A	LP									
2	AMS	100	SG	8.5	LB/100 GAL	LP									
3	STEEL	2.57	EC	.9713	LB A/A	PRE	23	100	100	23	100	100	7	100	100
3	TOUCHDOWN 5	5	SL	.75	LB A/A	LP									
3	AMS	100	SG	8.5	LB/100 GAL	LP									
4	STEEL	2.57	EC	.9713	LB A/A	PRE	27	100	100	27	100	100	7	100	100
4	TOUCHDOWN 5	5	SL	1	LB A/A	LP									
4	AMS	100	SG	8.5	LB/100 GAL	LP									
5	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	100	0	100	100	0	100	100
5	FLEXSTAR HL	1.88	CS	.1175	LB A/A	LP									
5	MSO		L	.5	% V/V	LP									
5	AMS	100	SG	8.5	LB/100 GAL	LP									
6	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	8	100	100	8	100	100	2	100	100
6	FLEXSTAR HL	1.88	CS	.1763	LB A/A	LP									
6	MSO		L	.5	% V/V	LP									
6	AMS	100	SG	8.5	LB/100 GAL	LP									
7	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	100	0	100	100	0	100	100
7	FLEXSTAR HL	1.88	CS	.1175	LB A/A	LP									
7	MSO		L	.5	% V/V	LP									
7	AMS	100	SG	8.5	LB/100 GAL	LP									

Dept. of Agronomy, Univ. of KY  
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NO-TILL SOYBEAN FULL SEASON III

Trial ID: S9032  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL
8	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	100	100	0	100	100	0	100	100
8	FLEXSTAR HL	1.88	CS	.1763	LB A/A	LP									
8	MSO		L	.5	% V/V	LP									
8	AMS	100	SG	8.5	LB/100 GAL	LP									
9	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	100	0	100	100	0	100	100
9	FUSION	2.66	EC	.1247	LB A/A	LP									
9	MSO		L	.5	% V/V	LP									
9	AMS	100	SG	8.5	LB/100 GAL	LP									
10	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	100	0	100	100	0	100	100
10	PURSUIT	70	DF	.032	LB A/A	LP									
10	INDUCE			.25	% V/V	LP									
10	AMS	100	SG	8.5	LB/100 GAL	LP									
11	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	100	0	100	100	0	100	100
11	PURSUIT	70	DF	.063	LB A/A	LP									
11	INDUCE			.25	% V/V	LP									
11	AMS	100	SG	8.5	LB/100 GAL	LP									
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	100	100	0	100	100	0	100	100
12	CLASSIC	25	DF	.008	LB A/A	LP									
12	AMS	100	SG	8.5	LB/100 GAL	LP									
13	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK	0	100	100	0	100	100	0	100	100
13	AMS	100	SG	2	% W/W	2WK									
14	TOUCHDOWN 5	5	SL	1.1	LB A/A	2WK	0	100	100	0	100	100	0	100	100
14	AMS	100	SG	8.5	LB/100 GAL	2WK									

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NO-TILL SOYBEAN FULL SEASON III

Trial ID: S9032

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL	GLXMA	SETFA	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									
Rating Unit									
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL	GLXMA	SETFA	CHEAL
15	ROUNDUP ULTRA	4	AS	1	LB A/A	3WK	0	100	100	0	100	100	0	100	100
15	AMS	100	SG	2	% W/W	3WK									
16	TOUCHDOWN 5	5	SL	1.1	LB A/A	3WK	0	100	100	0	100	100	0	100	100
16	AMS	100	SG	8.5	LB/100 GAL	3WK									
17	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK	0	100	100	0	100	100	0	100	100
17	AMS	100	SG	2	% W/W	4WK									
18	TOUCHDOWN 5	5	SL	1.1	LB A/A	4WK	0	100	100	0	100	100	0	100	100
18	AMS	100	SG	8.5	LB/100 GAL	4WK									
19	ROUNDUP ULTRA	4	AS	1	LB A/A	5WK	0	100	100	0	100	100	0	100	100
19	AMS	100	SG	2	% W/W	5WK									
20	TOUCHDOWN 5	5	SL	1.1	LB A/A	5WK	0	100	100	0	100	100	0	100	100
20	AMS	100	SG	8.5	LB/100 GAL	5WK									
21	ROUNDUP ULTRA	4	AS	1	LB A/A	6WK	0	100	95	0	100	95	0	100	93
21	AMS	100	SG	2	% W/W	6WK									
22	TOUCHDOWN 5	5	SL	1.1	LB A/A	6WK	0	100	93	0	100	93	0	93	90
22	AMS	100	SG	8.5	LB/100 GAL	6WK									
LSD (P=.05)							7.7	0.0	5.0	7.7	0.0	5.0	1.8	4.1	7.2
Standard Deviation							4.7	0.0	3.0	4.7	0.0	3.0	1.1	2.5	4.3
CV							165.98	0.0	3.02	165.98	0.0	3.02	156.35	2.47	4.37



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

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S9032 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-12-99	5-25-99	6-3-99	6-10-99	6-17-99	6-25-99
Time of Day:	10:00 AM	2:00 PM	1:00 PM	11:00 AM	3:00 PM	1:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2 WK	3 WK	4 WK	5 WK	LP
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	80 F	68 F	77 F	93 F	71 F	83 F
% Relative Humidity:	85	95	98	95	72	95
Wind Velocity, Unit:	3 MPH	5 MPH	1 MPH	1 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	75 F	70 F	75 F	84 F	75 F	77 F
Soil Moisture:	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		2 UNIFOL	1 TRIFOL	1 TRIFOL	2 TRIFOL	4 TRIFOL
		2 IN	3 IN	4 IN	5 IN	8 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		2WK	3WK	4WK	5WK	LP
			1 LF	2 LF	3 LF	4 LF
			.5 IN	1 IN	2 IN	4 IN
CHEAL			3 LF	5 LF	6 LF	10 LF
			1 IN	2 IN	3.5 IN	5 IN

## NO-TILL SOYBEAN FULL SEASON III

Trial ID: S9032

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	6.66 FT	6.66 FT	6.66 FT	6.66 FT	6.66 FT	6.66 FT
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 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

C

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

MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S9021  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Drop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
1	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	85	85	70	0	95	88	92
1	WEEDONE LV4	3.8	E	.5	LB A/A	PRE								
1	AMS	100	SG	8.5	LB/100 GAL	PRE								
1	FUSION	2.66	EC	.21	LB A/A	MP								
1	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP								
1	MSO		L	1	QT/A	MP								
2	GRAMOXONE EXTRA	2.5	AS	.625	LB A/A	PRE	0	85	62	52	0	62	85	85
2	CANOPY XL													
2	AUTHORITY	75	DF	.117	LB A/A	PRE								
2	CLASSIC	25	DF	.024	LB A/A	PRE								
2	FUSION	2.66	EC	.21	LB A/A	MP								
2	FLEXSTAR HL	1.88	CS	.3525	LB A/A	MP								
2	MSO		L	1	QT/A	MP								
3	COMMAND	3	ME	.5	LB A/A	PRE	0	83	58	57	0	92	95	95
3	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
3	AMS	100	SG	17	LB/100 GAL	PRE								
3	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP								
3	AMS	100	SG	17	LB/100 GAL	MP								
4	COMMAND	3	ME	.5	LB A/A	PRE	0	67	65	78	0	95	95	95
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
4	AMS	100	SG	17	LB/100 GAL	PRE								
4	ROUNDUP ULTRA	4	AS	1	LB A/A	MP								
4	AMS	100	SG	17	LB/100 GAL	MP								



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

MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S9021  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type								
Rating Unit								
Rating Date								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg							
5	COMMAND	3	ME	.75	LB A/A	PRE	0	70	67	85	0	88	95
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE							
5	AMS	100	SG	17	LB/100 GAL	PRE							
5	ROUNDUP ULTRA	4	AS	.75	LB A/A	MP							
5	AMS	100	SG	17	LB/100 GAL	MP							
6	SQUADRON	2.33	EC	.87	LB A/A	PRE	0	70	70	58	0	50	45
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE							
6	AMS	100	SG	2.5	LB/A	PRE							
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	63	70	53	0	85	75
7	AMS	100	SG	17	LB/100 GAL	PRE							
7	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP							
7	AMS	100	SG	2.5	LB/A	LP							
8	SCEPTER	70	WG	.125	LB A/A	PRE	0	88	88	80	0	78	78
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE							
8	AMS	100	SG	2.5	LB/A	PRE							
8	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP							
8	AMS	100	SG	2.5	LB/A	LP							
9	PROWL	3.3	EC	1	LB A/A	PRE	0	83	82	60	0	78	72
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE							
9	AMS	100	SG	2.5	LB/A	PRE							
9	RAPTOR	1	E	.04	LB A/A	LP							
9	INDUCE			.25	% V/V	LP							
9	AMS	100	SG	2.5	LB/A	LP							

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MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S9021

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Drop 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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
10	STEEL	2.57	EC	.965	LB A/A	PRE	0	83	80	75	0	78	73	75
10	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
10	AMS	100	SG	2.5	LB/A	LP								
11	PROWL	3.3	EC	1	LB A/A	PRE	0	87	85	82	0	88	92	92
11	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
11	AMS	100	SG	2.5	LB A/A	PRE								
11	PURSUIT	70	DF	.063	LB A/A	MP								
11	STATUS	2	EC	.156	LB A/A	MP								
11	INDUCE			.25	% V/V	MP								
11	LIQUID N		L	1	QT/A	MP								
12	PROWL	3.3	EC	1	LB A/A	PRE	0	88	85	60	0	92	88	92
12	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
12	AMS	100	SG	2.5	LB/A	PRE								
12	RAPTOR	1	E	.04	LB A/A	MP								
12	INDUCE			.25	% V/V	MP								
12	LIQUID N		L	1	QT/A	MP								
13	STEEL	2.57	EC	.965	LB A/A	PRE	0	75	87	75	0	30	78	75
13	PROWL	3.3	EC	.5	LB A/A	PRE								
13	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
13	AMS	100	SG	2.5	LB/A	PRE								
13	STATUS	2	EC	.156	LB A/A	MP								
13	INDUCE			.25	% V/V	MP								

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MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S9021  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

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

	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
	2 WEEK P	2 WEEK P	2 WEEK P	2 WEEK P	4 WEEK P	4 WEEK P	4 WEEK P	4 WEEK P
	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
14	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	88	87	63	0	80	73	75
14	AMS	100	SG	2.5	LB/A	PRE								
14	RAPTOR	1	E	.04	LB A/A	LP								
14	INDUCE			.25	% V/V	LP								
14	LIQUID N		L	1	QT/A	LP								
15	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	93	68	0	83	82	75
15	AMS	100	SG	8.5	LB/100 GAL	PRE								
15	PURSUIT	70	DF	.063	LB A/A	LP								
15	TOUCHDOWN 5	5	SL	.47	LB A/A	LP								
15	AMS	100	SG	2.5	LB/A	LP								
16	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	87	85	60	0	82	75	78
16	AMS	100	SG	2.5	LB/A	PRE								
16	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
16	AMS	100	SG	2.5	LB/A	LP								
17	USA 1999	75	DF	.38	LB A/A	PRE	0	90	88	87	0	85	78	77
17	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
17	AMS	100	SG	17	LB/100 GAL	PRE								
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
17	AMS	100	SG	17	LB/100 GAL	LP								
18	FRONTIER	6	E	1.3	LB A/A	PRE	0	90	87	82	0	82	92	77
18	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
18	AMS	100	SG	8.5	LB/100 GAL	PRE								
18	FIRSTRATE	84	W	.031	LB A/A	MP								
18	COC		L	1	QT/A	MP								

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

MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S9021

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Seed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Drop 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								
Drop Stage								
Drop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	87	87	88	0	85	75	80
19	AMS	100	SG	2.5	LB/A	PRE								
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
19	AMS	100	SG	2.5	LB/A	LP								
20	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	85	85	83	0	85	78	78
20	AMS	100	SG	2.5	LB/A	PRE								
20	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
20	AMS	100	SG	17	LB/100 GAL	LP								
20	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
20	AMS	100	SG	17	LB/100 GAL	REG								
21	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	85	68	65	0	80	80	78
21	AMS	100	SG	8.5	LB/100 GAL	PRE								
21	TOUCHDOWN 5	5	SL	1	LB A/A	LP								
21	AMS	100	SG	8.5	LB/100 GAL	LP								
22	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	93	80	83	0	82	77	77
22	AMS	100	SG	8.5	LB/100 GAL	PRE								
22	TOUCHDOWN 5	5	SL	1	LB A/A	LP								
22	AMS	100	SG	8.5	LB/100 GAL	LP								
22	TOUCHDOWN 5	5	SL	1	LB A/A	REG								
22	AMS	100	SG	8.5	LB/100 GAL	REG								
LSD (P=.05)							0.0	19.3	14.1	26.0	0.0	20.7	13.6	15.2
Standard Deviation							0.0	11.7	8.5	15.8	0.0	12.5	8.2	9.2
CV							0.0	14.14	10.78	22.15	0.0	15.71	10.24	11.52

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

MINIMUM TILL SOYBEAN FULL SEASON

rial ID: S9021                      Study Dir.:  
ocation: LEXINGTON, KY.            Investigator: Charles H. Slack

**GENERAL TRIAL INFORMATION**

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

Trial Status: COMPLETE                      Initiation Date: 5-10-99                      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

**CROP AND PEST DESCRIPTION**

Weed 1.SETFA GIANT FOXTAIL                      2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL LAMSQUARTERS

Crop 1:GLYMA SOYBEAN                      Variety: ASGROW 4501                      Planting Date: 5-10-99  
Planting Method: DRILLED                      Rate: 3                      S/ROW-FT                      Depth: 1.5 IN  
Row Spacing: 8 IN                      Seed Bed: MEDIUM  
Soil Temperature: 74 F                      Soil Moisture: ADEQUATE                      Emergence Date: 5-17-99

Plot Width, Unit: 6.66 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

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

MINIMUM TILL SOYBEAN FULL SEASON

rial ID: S9021                      Study Dir.:  
ocation: LEXINGTON, KY.            Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-10-99	6-4-99	6-21-99	7-3-99		
Time of Day:	10:00 AM	2:00 PM	3:00 PM	2:00 PM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	MP	LP	REG		
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL		
Air Temp., Unit:	79 F	83 F	87 F	89 F		
% Relative Humidity:	94	95	86	90		
Wind Velocity, Unit:	4 MPH	3 MPH	2 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	74 F	80 F	85 F	85 F		
Soil Moisture:	ADEQUATE	ADEQUATE	POOR	POOR		
% Cloud Cover:	75	35	45	55		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GLYMA Stage:	PRE	MP	LP	REG		
		3 TROFOL	6 TRIFOL	8 TRIFOL		
		6 IN	10 IN	15 IN		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SETFA Stage:	PRE	MP	LP	REG		
		3 LVS	6 LVS	2 LVS		
		2 IN	5 IN	2 IN		
AMBTR		4 LVS	6 LVS			
		4 IN	8 IN			
CHEAL		10 LVS	12 LVS			
		3 IN	4 IN			

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON

erial ID: S9021

Study Dir.:

ocation: LEXINGTON, KY.

Investigator: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	10 FT	10 FT	10 FT	10 FT		
Boom Height, Unit:	19 IN	19 IN	19 IN	19 IN		
Ground Speed, Unit:	3.5 IN	3.5 IN	3.5 IN	3.5 IN		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	25 GPA	25 GPA	25 GPA	25 GPA		

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

MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
1	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	99	99	99	0	99	99	99
1	AMS	100	SG	2	% W/W	PRE								
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
1	AMS	100	SG	2	% W/W	LP								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	20	99	98	98	17	99	99	99
2	AMS	100	SG	2	% W/W	PRE								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
2	AMS	100	SG	2	% W/W	LP								
2	ROUNDUP ULTRA	4	AS	1	LB A/A	REG								
2	AMS	100	SG	2	% W/W	REG								
3	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	3	99	99	99	0	99	99	99
3	MICRO-TECH	4	ME	2	LB A/A	PRE								
3	AMS	100	SG	2	% W/W	PRE								
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
3	AMS	100	SG	2	% W/W	LP								
3	COC		L	1	QT/A	LP								
4	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	7	99	96	99	7	99	99	99
4	AMS	100	SG	2	% W/W	PRE								
4	RAPTOR	1	E	.04	LB A/A	LP								
4	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
4	INDUCE			.25	% V/V	LP								
4	LIQUID N		L	1	QT/A	LP								



Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
P	P	P	P	P	P	P	P	P
0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	10	99	99	99	7	99	99	99
5	AMS	100	SG	2	% W/W	PRE								
5	PURSUIT	2	EC	.063	LB A/A	LP								
5	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
5	COC		L	1	QT/A	LP								
5	LIQUID N		L	1	QT/A	LP								
6	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	7	99	99	99	10	99	99	99
6	AMS	100	SG	17	LB/100 GAL	PRE								
6	SCEPTER	70	WG	.125	LB A/A	LP								
6	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
6	INDUCE			.25	% V/V	LP								
7	CANOPY XL					PRE	3	99	99	99	0	99	99	99
7	CLASSIC	25	DF	.018	LB A/A	PRE								
7	AUTHORITY	75	DF	.088	LB A/A	PRE								
7	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
7	AMS	100	SG	2	% W/W	PRE								
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
8	AUTHORITY	75	DF	.141	LB A/A	PRE	0	99	99	99	0	99	99	99
8	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
8	AMS	100	SG	2	% W/W	PRE								
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
9	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	99	99	99	0	99	99	99
9	AMS	100	SG	2	% W/W	PRE								
9	CLASSIC	25	DF	.005	LB A/A	LP								
9	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
10	CANOPY	75	DF	.141	LB A/A	PRE	0	99	99	99	0	99	99	99
10	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
10	AMS	100	SG	2	% W/W	PRE								
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
11	CANOPY	75	DF	.141	LB A/A	PRE	0	99	99	99	0	99	99	99
11	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
11	AMS	100	SG	2	% W/W	PRE								
11	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
11	CLASSIC	25	DF	.005	LB A/A	LP								
12	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	99	99	99	0	99	99	99
12	AMS	100	SG	2	% W/W	PRE								
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP								
12	FLEXSTAR HL	1.88	CS	.118	LB A/A	LP								
12	COC		L	1	QT/A	LP								
12	AMS	100	SG	8.5	LB/100 GAL	LP								
13	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	3	99	99	99	0	99	99	99
13	AMS	100	SG	2	% W/W	PRE								
13	TOUCHDOWN 5	5	SL	.75	LB A/A	LP								
13	AMS	100	SG	8.5	LB/100 GAL	LP								
14	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	99	99	99	0	99	99	99
14	AMS	100	SG	2	% W/W	PRE								
14	TOUCHDOWN 5	5	SL	1	LB A/A	LP								
14	AMS	100	SG	8.5	LB/100 GAL	LP								
14	TOUCHDOWN 5	5	SL	1	LB A/A	REG								
14	AMS	100	SG	8.5	LB/100 GAL	REG								

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Seed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
Drop 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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
15	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	7	99	96	99	3	99	99	99
15	AMS	100	SG	2	% W/W	PRE								
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP								
15	RESOURCE	.86	EC	.02	LB A/A	LP								
15	COC		L	.5	QT/A	LP								
16	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	99	98	99	0	99	98	99
16	AMS	100	SG	2	% W/W	PRE								
16	ROUNDUP ULTRA	4	AS	.5	LB A/A	LP								
16	FIRSTRATE	84	W	.016	LB A/A	LP								
17	AXIOM	68	DF	.425	LB A/A	PRE	3	99	99	99	0	99	99	99
17	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
17	AMS	100	SG	2	% W/W	PRE								
17	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
17	AMS	100	SG	2	% W/W	LP								
18	STEEL	2.57	EC	.97	LB A/A	PRE	0	99	99	99	0	99	99	99
18	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE								
18	AMS	100	SG	2	% W/W	PRE								
18	ROUNDUP ULTRA	4	AS	.75	LB A/A	LP								
19	CANOPY	75	DF	.188	LB A/A	PRE	0	99	98	99	0	99	98	99
19	AUTHORITY	75	DF	.188	LB A/A	PRE								
19	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
19	AMS	100	SG	2	% W/W	PRE								
19	ASSURE II	.8	EC	.069	LB A/A	LP								
19	SYNCHRONY STS	42	DF	.013	LB A/A	LP								
19	COC		L	1	QT/A	LP								
19	AMS	100	SG	2	LB/A	LP								

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MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	SETFA	AMBTR	CHEAL	GLYMA	SETFA	AMBTR	CHEAL
20	CANOPY XL						0	99	99	99	0	99	99	99
20	AUTHORITY	75	DF	.117	LB A/A	PRE								
20	CLASSIC	25	DF	.024	LB A/A	PRE								
20	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
20	AMS	100	SG	2	% W/W	PRE								
20	ASSURE II	.8	EC	.069	LB A/A	LP								
20	SYNCHRONY STS	42	DF	.013	LB A/A	LP								
20	COC		L	1	QT/A	LP								
20	AMS	100	SG	2	LB/A	LP								
21	AUTHORITY	75	DF	.21	LB A/A	PRE	0	99	99	99	0	99	99	99
21	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
21	AMS	100	SG	2	% W/W	PRE								
21	CLASSIC	25	DF	.008	LB A/A	LP								
21	FIRSTRATE	84	W	.016	LB A/A	LP								
21	ASSURE II	.8	EC	.069	LB A/A	LP								
21	COC		L	1	QT/A	LP								
22	SYNCHRONY STS	42	DF	.013	LB A/A	PRE	0	99	99	99	0	99	99	99
22	TOUCHDOWN 5	5	SL	1	LB A/A	PRE								
22	AMS	100	SG	2	% W/W	PRE								
22	CLASSIC	25	DF	.008	LB A/A	LP								
22	FLEXSTAR HL	1.88	CS	.29	LB A/A	LP								
22	ASSURE II	.8	EC	.069	LB A/A	LP								
LSD (P=.05)							8.7	0.0	2.8	0.8	9.6	0.0	1.1	0.0
Standard Deviation							5.2	0.0	1.7	0.5	5.8	0.0	0.7	0.0
CV							182.13	0.0	1.73	0.5	295.96	0.0	0.69	0.0

Dept. of Agronomy, Univ. of KY  
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## MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023 Study Dir.:  
Location: LEXINGTON, KY Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Investigator: Charles H. Slack Title: 40546  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546

Trial Status: COMPLETE Initiation Date: 5-10-99 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546  
Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

## CROP AND PEST DESCRIPTION

Weed 1.SETFA GIANT FOXTAIL 2.AMBTR GIANT RAGWEED  
Weed 3.CHEAL COMMON LAMBSQUARTER

Crop 1:GLXMA SOYBEAN Variety: AG4501 Planting Date: 5-10-99  
Planting Method: DRILL Rate: 3 S/ROWFT Depth: 1.5 IN  
Row Spacing: 8 IN Seed Bed: CLODDY/TRASHY  
Soil Temperature: 68 F Soil Moisture: SLIGHTLY WET

Plot Width, Unit: 6.66 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: DRY-DRY-VERY DRY  
Closest Weather Station: SPINDLETOP Distance: 2 Unit: MI

## MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-10-99	6-21-99				
Time of Day:	5 PM	2 PM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	LP				
Applic. Placement:	BROSOI	BROFOI				
Air Temp., Unit:	79 F	87 F				
% Relative Humidity:	40	40				
Wind Velocity, Unit:	2 MPH	3 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	64 F	73 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	30				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLXMA		LP				
		3RD TRI				
		10 IN				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SETFA		LP				
		4 LVS				
		8 IN				
AMBTR		10				
		2 LVS				
		8 IN				
CHEAL		10 LVS				
		6 IN				

## MINIMUM TILL SOYBEAN FULL SEASON II

Trial ID: S9023

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLATFAN	FLATFAN				
Nozzle Size:	8004	8004				
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:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S9033

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL
Crop Code	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL
Part Rated	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Date	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Crop Stage	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Crop Stage Scale	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Weed Stage	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Weed Density, Unit	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
Footnote Number	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT
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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL
1	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	98	96	0	99	96	0	99	96
1	AMS	100	SG	8.5	LB/100 GAL	LP									
2	TOUCHDOWN 5	5	SL	1	LB A/A	LP	3	63	60	0	65	63	0	98	96
2	BASAGRAN	4	E	.03	LB A/A	LP									
2	AMS	100	SG	8.5	LB/100 GAL	LP									
3	STEEL	2.57	EC	.9713	LB A/A	PRE	0	98	96	0	99	99	0	99	99
3	TOUCHDOWN 5	5	SL	.75	LB A/A	LP									
3	AMS	100	SG	8.5	LB/100 GAL	LP									
4	STEEL	2.57	EC	.9713	LB A/A	PRE	0	99	99	0	99	99	0	99	99
4	TOUCHDOWN 5	5	SL	1	LB A/A	LP									
4	AMS	100	SG	8.5	LB/100 GAL	LP									
5	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	96	98	0	96	98	0	96	98
5	FLEXSTAR HL	1.88	CS	.1175	LB A/A	LP									
5	MSO	L	L	.5	% V/V	LP									
5	AMS	100	SG	8.5	LB/100 GAL	LP									
6	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	3	65	66	0	85	76	0	75	66
6	FLEXSTAR HL	1.88	CS	.1763	LB A/A	LP									
6	MSO	L	L	.5	% V/V	LP									
6	AMS	100	SG	8.5	LB/100 GAL	LP									
7	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	98	96	0	98	96	0	98	96
7	FLEXSTAR HL	1.88	CS	.1175	LB A/A	LP									
7	MSO	L	L	.5	% V/V	LP									
7	AMS	100	SG	8.5	LB/100 GAL	LP									



Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S9033

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

Weed Code	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL
Drop Code	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Part Rated	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type									
Rating Unit									
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
8	TOUCHDOWN 5	5	SL	1	LB A/A	LP	3	96	95	0	96	95	0	96	95
8	FLEXSTAR HL	1.88	CS	.1763	LB A/A	LP									
8	MSO		L	.5	% V/V	LP									
8	AMS	100	SG	8.5	LB/100 GAL	LP									
9	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	7	99	93	3	99	93	0	99	93
9	FUSION	2.66	EC	.1247	LB A/A	LP									
9	MSO		L	.5	% V/V	LP									
9	AMS	100	SG	8.5	LB/100 GAL	LP									
10	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	99	99	0	99	99	0	99	99
10	PURSUIT	70	DF	.032	LB A/A	LP									
10	INDUCE			.25	% V/V	LP									
10	AMS	100	SG	8.5	LB/100 GAL	LP									
11	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	0	99	95	0	99	98	0	99	98
11	PURSUIT	70	DF	.063	LB A/A	LP									
11	INDUCE			.25	% V/V	LP									
11	AMS	100	SG	8.5	LB/100 GAL	LP									
12	TOUCHDOWN 5	5	SL	.75	LB A/A	LP	3	98	93	3	98	93	3	98	93
12	CLASSIC	25	DF	.008	LB A/A	LP									
12	AMS	100	SG	8.5	LB/100 GAL	LP									
13	ROUNDUP ULTRA	4	AS	1	LB A/A	2WK	0	96	99	0	96	99	0	96	99
13	AMS	100	SG	2	% W/W	2WK									
14	TOUCHDOWN 5	5	SL	1.1	LB A/A	2WK	0	99	99	0	99	99	0	99	99
14	AMS	100	SG	8.5	LB/100 GAL	2WK									

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S9033  
Location: LEXINGTON, KY.

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	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									
Rating Unit									
Rating Date									
Crop Stage									
Crop Stage Scale									
Weed Stage									
Weed Density, Unit									
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 No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL	GLYMA	AMBTR	CHEAL
15	ROUNDUP ULTRA	4	AS	1	LB A/A	3WK	0	99	99	0	99	99	0	99	99
15	AMS	100	SG	2	% W/W	3WK									
16	TOUCHDOWN 5	5	SL	1.1	LB A/A	3WK	0	66	66	0	98	96	0	98	96
16	AMS	100	SG	8.5	LB/100 GAL	3WK									
17	ROUNDUP ULTRA	4	AS	1	LB A/A	4WK	3	99	99	0	99	99	0	99	99
17	AMS	100	SG	2	% W/W	4WK									
18	TOUCHDOWN 5	5	SL	1.1	LB A/A	4WK	0	99	99	0	99	99	0	99	99
18	AMS	100	SG	8.5	LB/100 GAL	4WK									
19	ROUNDUP ULTRA	4	AS	1	LB A/A	5WK	0	99	99	0	99	99	0	99	99
19	AMS	100	SG	2	% W/W	5WK									
20	TOUCHDOWN 5	5	SL	1.1	LB A/A	5WK	3	96	96	3	96	96	0	96	96
20	AMS	100	SG	8.5	LB/100 GAL	5WK									
21	ROUNDUP ULTRA	4	AS	1	LB A/A	6WK	0	43	43	0	63	53	0	63	53
21	AMS	100	SG	2	% W/W	6WK									
22	TOUCHDOWN 5	5	SL	1.1	LB A/A	6WK	0	20	20	0	30	27	0	30	20
22	AMS	100	SG	8.5	LB/100 GAL	6WK									
LSD (P=.05)							5.4	39.6	39.5	3.6	25.0	30.0	2.0	19.1	26.2
Standard Deviation							3.3	24.0	23.9	2.2	15.2	18.2	1.2	11.6	15.9
CV							268.68	27.47	27.67	480.08	16.6	20.29	812.4	12.52	17.57

Dept. of Agronomy, Univ. of KY  
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MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S9033 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE Initiation Date: 5-10-99 Country: USA  
City: LEXINGTON State/Prov.: KY Postal Code: 40546  
Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND PEST DESCRIPTION

Weed 1.AMBTR GIANT RAGWEED 2.CHEAL LAMBSQUARTERS  
Crop 1:GLYMA SOYBEAN Variety: AG4501 Planting Date: 5-10-99  
Planting Method: DRILL Rate: 3 S/ ROW FT Depth: 1.5 IN  
Row Spacing: 8 IN Seed Bed: CLODDY/TRASHY  
Soil Temperature: 64 F Soil Moisture: SLIGHTLY DRY

Plot Width, Unit: 6.66 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: SLIGHTLY DRY-DRY-VERYDRY  
Closest Weather Station: SPINDLETOP Distance: 2 Unit: MI

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

MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S9033 Study Dir.:  
Location: LEXINGTON, KY. Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-11-99	5-25-99	6-3-99	6-10-99	6-17-99	6-25-99
Time of Day:	11 AM	1PM	3PM	10 AM	2 PM	1PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2 WAP	3 WAP	4WAP	5 WAP	LP
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	79 F	70 F	79 F	95 F	73 F	85 F
% Relative Humidity:	35	35	90	30	40	55
Wind Velocity, Unit:	2 MPH	5 MPH	1 MPH	1 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	64 F	66 F	68 F	74 F	71 F	74 F
Soil Moisture:	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT	INADEQUAT
% Cloud Cover:	30	30	30	40	50	20

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
GLYMA		2WAP	3 WAP	4 WAP	5 WAP	LP
		UNI	1 TRI	2 TRI	3 TRI	5 TRI
		2 IN	3 IN	4 IN	5 IN	7 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMBTR		2WAP	3WAP	4WAP	5WAP	LP
			2 LF	4 LF	6 LF	7 LF
			1 IN	3 IN	5 IN	6 IN
CHEAL			2 LF	4 LF	8 LF	10 LF
			.5 IN	1.5 IN	2 IN	3 IN

MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S9033

Study Dir.:

Location: LEXINGTON, KY.

Investigator: Charles H. Slack

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	30	30	30	30	30	30
Nozzle Type:	FLATFAN	FLATFAN	FLATFAN	FLATFAN	FLATFAN	FLATFAN
Nozzle Size:	8004	8004	8004	8004	8004	8004
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 PREMERGENCE &amp; POSTEMERGENCE

Trial ID: C9101

Study Dir.:

Location: PRINCETON, KY.

Investigator: Charles H. Slack

Weed Code			
Crop Code		ZEAMX	IPOHE XANST
Part Rated			
Rating Data Type		INJURY	CONTROL CONTROL
Rating Unit		PERCENT	PERCENT PERCENT
Rating Date			
Crop Stage			
Crop Stage Scale			
Weed Stage			
Weed Density, Unit			
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 Conc	Form Type	Rate	Rate Unit	Grow Stg			
1	BALANCE	75	WG	.094	LB A/A	PRE	0	90	85
1	AATREX	4	F	1.5	LB A/A	PRE			
2	BALANCE	75	WG	.094	LB A/A	PRE	0	72	58
2	HARNESS	7	EC	.875	LB A/A	PRE			
2	AATREX	4	F	1.5	LB A/A	PRE			
3	BALANCE	75	WG	.094	LB A/A	PRE	0	83	77
3	AATREX	4	F	1	LB A/A	PRE			
3	PRINCEP	4	F	1	LB A/A	PRE			
4	BALANCE	75	WG	.094	LB A/A	PRE	0	92	82
4	BICEP II MAGNUM	5.5	L	1.93	LB A/A	PRE			
5	BALANCE	75	WG	.094	LB A/A	PRE	0	95	95
5	BUCTRIL	2	EC	.25	LB A/A	10C			
5	AATREX	4	F	.5	LB A/A	10C			
6	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	85	57
7	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	95	95
7	EXCEED	57	DF	.036	LB A/A	10C			
7	INDUCE			.25	% V/V	10C			
7	LIQUID N		L	1	QT/A	10C			
8	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	95	93
8	SPIRIT	57	WG	.036	LB A/A	10C			
8	INDUCE			.25	% V/V	10C			
8	LIQUID N		L	1	QT/A	10C			



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Weed Science Field Research

CORN PREMERGENCE & POSTEMERGENCE

Trial ID: C9101                      Study Dir.:  
Location: PRINCETON, KY.            Investigator: Charles H. Slack

Weed Code		IPOHE	XANST
Crop Code	ZEAMX		
Part Rated			
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Crop Stage			
Crop Stage Scale			
Weed Stage			
Weed Density, Unit			
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 Conc	Form Type	Rate	Rate Unit	Grow Stg			
15	ACCENT GOLD	75	DF	.023	LB A/A	LP	0	82	77
15	HORNET	85.6	WG	.128	LB A/A	LP			
15	AATREX	4	F	.45	LB A/A	LP			
15	COC		L	1	QT/A	LP			
15	LIQUID N		L	2	QT/A	LP			
16	EPIC	58	DF	.435	LB A/A	PRE	0	75	62
16	AATREX	4	F	1.5	LB A/A	PRE			
17	AXIOM	68	DF	.64	LB A/A	PRE	0	70	60
17	AATREX	4	F	1.5	LB A/A	PRE			
18	AXIOM	68	DF	.72	LB A/A	PRE	0	80	80
18	HORNET	85.6	WG	.128	LB A/A	LP			
18	INDUCE			.25	% V/V	LP			
18	LIQUID N		L	1	QT/A	LP			
19	FRONTIER	6	E	1.3	LB A/A	PRE	0	93	92
19	DISTINCT	70	WG	.18	LB A/A	10C			
19	INDUCE			.25	% V/V	10C			
19	LIQUID N		L	1	QT/A	10C			
20	FRONTIER	6	E	1.3	LB A/A	PRE	0	92	90
20	DISTINCT	70	WG	.26	LB A/A	10C			
20	INDUCE			.25	% V/V	10C			
20	LIQUID N		L	1	QT/A	10C			

LSD (P=.05)	0.0	14.3	16.2
Standard Deviation	0.0	8.7	9.8
CV	0.0	10.36	12.62



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Weed Science Field Research

CORN PREMERGENCE & POSTEMERGENCE

Trial ID: C9101 Study Dir.:  
Location: PRINCETON, KY. Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Investigator: JAMES MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546  
Trial Status: COMPLETE Initiation Date: 5-4-99 Country: USA  
City: Princeton State/Prov.: KY

CROP AND PEST DESCRIPTION

Weed 1.AMBTR GIANT RAGWEED 2.XANST COMMON COCKLEBUR  
Crop 1:ZEAMX FIELD CORN Variety: GARST 8481 G-STAC Planting Date: 5-4-99  
Planting Method: ROW Rate: 28000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Moisture: WET Emergence Date: 5-15-99

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

## CORN PREMERGENCE &amp; POSTEMERGENCE

Trial ID: C9101

Study Dir.:

Location: PRINCETON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-7-99	6-1-99	6-9-99			
Time of Day:	2:00 PM	10:00 am	1:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	LP & 7C	10C			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	75 F	80 F	88 F			
% Relative Humidity:	60	60	70			
Wind Velocity, Unit:	4 MPH	3.5 MPH	4 MPH			
Soil Temp., Unit:	68 F	75 F	80 F			
Soil Moisture:	DRY	DRY	DRU			
% Cloud Cover:	10	20	10			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		6 LF	7 LF			
		7 IN	10 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMBTR		10 LF	12 LF			
		4 LF	6 LF			
		6 IN	8 IN			
XANST		4 LF	6 LF			
		6 IN	8 IN			

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## CORN PREMERGENCE &amp; POSTEMERGENCE

Trial ID: C9101

Study Dir.:

Location: PRINCETON, KY.

Investigator: Charles H. Slack

	APPLICATION EQUIPMENT			D	E	F
	A	B	C			
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	30 PSI	30 PSI	30 PSI			
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:	3.5 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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CORN POSTEMERGENCE SICKLEPOD

Trial ID: C9120                      Study Dir.:  
Location: PRINCETON, KY.            Investigator: Charles H. Slack

Weed Code	AMBTR	CASOB
Crop Code	ZEAMX	
Part Rated		
Rating Data Type	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Date		
Crop Stage		
Crop Stage Scale		
Weed Stage		
Weed Density, Unit		
Footnote Number		
Trt-Eval Interval	4 WEEK	4 WEEK
PRM Data Type	P	P
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg			
1	BALANCE	75	WG	.094	LB A/A	PRE	0	90	87
1	AATREX	4	F	1.5	LB A/A	PRE			
2	BALANCE	75	WG	.094	LB A/A	PRE	0	88	88
2	HARNES	7	EC	.875	LB A/A	PRE			
2	AATREX	4	F	1.5	LB A/A	PRE			
3	BALANCE	75	WG	.094	LB A/A	PRE	0	85	85
3	DUAL II MAGNUM	7.6	EC	.668	LB A/A	PRE			
3	AATREX	4	F	1.5	LB A/A	PRE			
4	BALANCE	75	WG	.094	LB A/A	PRE	0	83	80
4	PRINCEP	4	F	1	LB A/A	PRE			
4	AATREX	4	F	1	LB A/A	PRE			
5	EPIC	58	DF	.544	LB A/A	PRE	0	65	65
5	AATREX	4	F	1.5	LB A/A	PRE			
6	BALANCE	75	WG	.094	LB A/A	PRE	0	80	83
6	BICEP II MAGNUM	5.5	L	1.93	LB A/A	PRE			
7	BALANCE	75	WG	.094	LB A/A	PRE	0	87	87
7	ACCENT	75	WG	.015	LB A/A	MP			
7	BEACON	75	DF	.018	LB A/A	MP			
7	COC		L	1	QT/A	MP			
7	LIQUID N		L	1	QT/A	MP			
8	BICEP II MAGNUM	5.5	L	2.89	LB A/A	PRE	0	85	83

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

CORN POSTEMERGENCE SICKLEPOD

Trial ID: C9120                      Study Dir.:  
Location: PRINCETON, KY.            Investigator: Charles H. Slack

Weed Code	AMBTR	CASOB
Crop Code	ZEAMX	
Part Rated		
Rating Data Type	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Date		
Crop Stage		
Crop Stage Scale		
Weed Stage		
Weed Density, Unit		
Footnote Number		
Trt-Eval Interval	4 WEEK	4 WEEK
PRM Data Type	P	P
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg			
9	LIGHTNING	70	DG	.056	LB A/A	MP	0	93	92
9	ATRAZINE	4	F	1.5	LB A/A	MP			
9	COC		L	1	QT/A	MP			
9	LIQUID N		L	1	QT/A	MP			
10	FRONTIER	6	E	.78	LB A/A	PRE	0	87	83
10	DISTINCT	70	WG	.13	LB A/A	10C			
10	INDUCE			.25	% V/V	10C			
10	LIQUID N		L	1	QT/A	10C			
11	FRONTIER	6	E	.78	LB A/A	PRE	0	83	85
11	DISTINCT	70	WG	.18	LB A/A	10C			
11	INDUCE			.25	% V/V	10C			
11	LIQUID N		L	1	QT/A	10C			
12	FRONTIER	6	E	.78	LB A/A	PRE	0	87	85
12	DISTINCT	70	WG	.26	LB A/A	10C			
12	INDUCE			.25	% V/V	10C			
12	LIQUID N		L	1	QT/A	10C			
13	FRONTIER	6	E	.78	LB A/A	PRE	0	80	80
13	DISTINCT	70	WG	.13	LB A/A	20C			
13	INDUCE			.25	% V/V	20C			
13	LIQUID N		L	1	QT/A	20C			
14	FRONTIER	6	E	.78	LB A/A	PRE	0	82	85
14	DISTINCT	70	WG	.18	LB A/A	20C			
14	INDUCE			.25	% V/V	20C			
14	LIQUID N		L	1	QT/A	20C			

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

CORN POSTEMERGENCE SICKLEPOD

Trial ID: C9120                      Study Dir.:  
Location: PRINCETON, KY.            Investigator: Charles H. Slack

Weed Code		AMBTR	CASOB
Crop Code	ZEAMX		
Part Rated			
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date			
Crop Stage			
Crop Stage Scale			
Weed Stage			
Weed Density, Unit			
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 Conc	Form Type	Rate Rate	Rate Unit	Grow Stg
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LSD (P=.05)	0.0	17.6	18.2
Standard Deviation	0.0	10.5	10.8
CV	0.0	12.46	12.98

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

CORN POSTEMERGENCE SICKLEPOD

Trial ID: C9120                      Study Dir.:  
Location: PRINCETON, KY.            Investigator: Charles H. Slack

GENERAL TRIAL INFORMATION

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

Trial Status: COMPLETE                      Initiation Date: 5-4-99                      Country: USA  
City: PRINCETON                      State/Prov.: KY

CROP AND PEST DESCRIPTION

Weed 1.AMBTR GIANT RAGWEED                      2.CASOB SICKLEPOD  
Crop 1:ZEAMX FIELD CORN                      Variety: GARST 8481 G-STAC                      Planting Date: 5-4-99  
Planting Method: ROW                      Rate: 28000 S/A                      Depth: 1.5 IN  
                    Row Spacing: 30 IN                      Seed Bed: MEDIUM  
                    Soil Moisture: WET                      Emergence Date: 5-15-99

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

## CORN POSTEMERGENCE SICKLEPOD

Trial ID: C9120

Study Dir.:

Location: PRINCETON, KY.

Investigator: Charles H. Slack

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-7-99	6-1-99	6-15-99			
Time of Day:	10:00 AM	11:00 AM	2:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	MP & 10C	20C			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	72 F	82 F	78 F			
% Relative Humidity:	50	65	50			
Wind Velocity, Unit:	4 MPH	3.5 MPH	4 MPH			
Soil Temp., Unit:	65 F	78 F	82 F			
Soil Moisture:	DRY	DRY	DRY			
% Cloud Cover:	10	20	20			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		6 LF 10 IN	9 LF 20 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMBTR		3 LF 2 IN	15 LF 8 IN			
CASOB		4 LF 4 IN	10 LF 12 IN			



## CORN POSTEMERGENCE SICKLEPOD

Trial ID: C9120

Study Dir.:

Location: PRINCETON, KY.

Investigator: Charles H. Slack

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	30 PSI	30 PSI	30 PSI			
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:	3.5 MPH	3.5 MPH	3.5 MPH			
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

CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C9123                      Study Dir.:  
Location: PRINCETON, KY            Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg		
1	AATREX	4	F	1.5	LB A/A	PRE	0	40
1	LIGHTNING	70	DG	.056	LB A/A	16J		
1	COC		L	1	QT/A	16J		
1	LIQUID N		L	1	QT/A	16J		
2	PROWL	3.3	EC	1	LB A/A	PRE	0	47
2	AATREX	4	F	1.5	LB A/A	PRE		
2	LIGHTNING	70	DG	.056	LB A/A	16J		
2	COC		L	1	QT/A	16J		
2	LIQUID N		L	1	QT/A	16J		
3	AATREX	4	F	1.5	LB A/A	PRE	0	47
3	EXCEED	57	DF	.036	LB A/A	16J		
3	COC		L	1	QT/A	16J		
3	LIQUID N		L	1	QT/A	16J		
4	AATREX	4	F	1.5	LB A/A	PRE	0	43
4	ACCENT	75	WG	.031	LB A/A	16J		
4	COC		L	1	QT/A	16J		
4	LIQUID N		L	1	QT/A	16J		
5	ACCENT GOLD	75	DF	.023	LB A/A	12J	0	87
5	HORNET	85.6	WG	.128	LB A/A	12J		
5	AATREX	4	F	.45	LB A/A	12J		
5	COC		L	1	QT/A	12J		
5	LIQUID N		L	2	QT/A	12J		

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CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C9123                      Study Dir.:  
Location: PRINCETON, KY            Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg		
6	BASIS GOLD	89.5	DF	.79	LB A/A	12J	0	83
6	CLARITY	4	E	.063	LB A/A	12J		
6	COC		L	1	QT/A	12J		
6	LIQUID N		L	2	QT/A	12J		
7	ACCENT GOLD	75	DF	.023	LB A/A	12J	0	88
7	HORNET	85.6	WG	.128	LB A/A	12J		
7	AATREX	4	F	.45	LB A/A	12J		
7	ACCENT	75	WG	.012	LB A/A	12J		
7	COC		L	1	QT/A	12J		
7	LIQUID N		L	2	QT/A	12J		
8	ACCENT GOLD	75	DF	.023	LB A/A	12J	0	87
8	HORNET	85.6	WG	.128	LB A/A	12J		
8	AATREX	4	F	.45	LB A/A	12J		
8	ACCENT	75	WG	.016	LB A/A	12J		
8	COC		L	1	QT/A	12J		
8	LIQUID N		L	2	QT/A	12J		
9	BASIS GOLD	89.5	DF	.79	LB A/A	12J	0	88
9	ACCENT	75	WG	.012	LB A/A	12J		
9	CLARITY	4	E	.063	LB A/A	12J		
9	COC		L	1	QT/A	12J		
9	LIQUID N		L	2	QT/A	12J		
10	BASIS GOLD	89.5	DF	.79	LB A/A	12J	0	83
10	ACCENT	75	WG	.02	LB A/A	12J		
10	CLARITY	4	E	.063	LB A/A	12J		
10	COC		L	1	QT/A	12J		
10	LIQUID N		L	2	QT/A	12J		

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

Trial ID: C9123                      Study Dir.:  
Location: PRINCETON, KY            Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg		
11	SPIRIT	57	WG	.036	LB A/A	12J	0	80
11	COC		L	1	QT/A	12J		
11	LIQUID N		L	1	QT/A	12J		
12	SPIRIT	57	WG	.018	LB A/A	12J	0	88
12	ACCENT	75	WG	.016	LB A/A	12J		
12	COC		L	1	QT/A	12J		
12	LIQUID N		L	1	QT/A	12J		
LSD (P=.05)							0.0	14.8
Standard Deviation							0.0	8.7
CV							0.0	12.15



CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C9123                      Study Dir.:  
Location: PRINCETON, KY            Investigator: Charles H. Slack

	APPLICATION DESCRIPTION					
	A	B	C	D	E	F
Application Date:	5-10-99	6-1-99	6-6-99			
Time of Day:	2:00 PM	3:00 PM	10:00 AM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	12J	16J			
Applic. Placement:	BROSOL	BROFOL	BROFOL			
Air Temp., Unit:	82 F	80 F	88 F			
% Relative Humidity:	50	60	70			
Wind Velocity, Unit:	4 MPH	3.5 MPH	4 MPH			
Soil Temp., Unit:	68 F	78 F	80 F			
Soil Moisture:	DRY	DRY	DRY			
% Cloud Cover:	20	30	40			

	CROP STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
ZEAMX		6 LF	7 LF			
		10 IN	12 IN			

	WEED STAGE AT EACH APPLICATION					
	A	B	C	D	E	F
SORHA		4 LF	5 LF			
		12 IN	16 IN			

	APPLICATION EQUIPMENT					
	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	30 PSI	30 PSI	30 PSI			
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:	3.5 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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BURLEY TOBACCO

Trial ID: T9001  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

Weed Code	NIOTA	SETFA	AMACH	XANST	NICOT	SETFA	AMACH	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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
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	0	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	NIOTA	SETFA	AMACH	XANST	NICOT	SETFA	AMACH	XANST
1	SPARTAN	75	DF	.313	LB A/A	PRT	0	87	88	95	0	63	62	75
2	SPARTAN	75	DF	.313	LB A/A	PPI	0	72	83	82	3	77	93	92
3	SPARTAN	75	DF	.313	LB A/A	PRT	0	95	90	87	0	90	73	87
3	COMMAND	3	ME	.75	LB A/A	PRT								
4	SPARTAN	75	DF	.313	LB A/A	PPI	0	90	92	88	3	87	68	83
4	COMMAND	3	ME	.75	LB A/A	PPI								
5	PROWL	3.3	EC	1.25	LB A/A	PPI	0	95	97	85	0	98	97	97
6	PROWL	3.3	EC	.75	LB A/A	PPI	0	98	98	90	7	98	85	97
6	COMMAND	3	ME	.75	LB A/A	PPI								
7	PROWL	3.3	EC	.62	LB A/A	PRT	0	97	80	83	3	72	63	82
7	SPARTAN	75	DF	.248	LB A/A	PRT								
8	PROWL	3.3	EC	.62	LB A/A	PPI	0	98	93	87	0	95	93	97
8	SPARTAN	75	DF	.248	LB A/A	PPI								
9	PROWL	3.3	EC	.62	LB A/A	PPI	12	92	85	98	7	85	82	93
9	PROWL	3.3	EC	.62	LB A/A	MP								
10	COMMAND	3	ME	.975	LB A/A	PPI	0	95	67	73	3	87	72	83
10	SPARTAN	75	DF	.248	LB A/A	PPI								
11	POAST	1.53	EC	.19	LB A/A	MP	0	97	25	30	0	93	17	27
11	COC	L	L	1.25	QT/A	MP								

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Weed Science Field Research

BURLEY TOBACCO

Trial ID: T9001  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

	NIOTA	SETFA	AMACH	XANST	NICOT	SETFA	AMACH	XANST
Weed Code								
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								
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
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	0	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg								
12	CHECK UNTREATED						0	0	0	0	0			
	LSD (P=.05)						1.4	15.2	27.8	26.3	6.2	16.4	25.1	17.0
	Standard Deviation						0.8	9.0	16.4	15.5	3.7	9.7	14.8	10.1
	CV						85.71	10.58	21.92	20.71	165.79	12.31	22.1	13.25



BURLEY TOBACCO

Trial ID: T9001

Study Dir.:

Location: LEXINGTON, KY

Investigator: Charles H. Slack

## GENERAL TRIAL INFORMATION

Study Director: Charles H. Slack

Affiliation: University of Kentucky

Postal Code: 40546

Investigator: Charles H. Slack

Trial Status: Complete

Initiation Date: 5-13-99

Country: USA

City: LEXINGTON

State/Prov.: KY

Postal Code: 40546

## CROP AND PEST DESCRIPTION

Weed 1.AMACH SMOOTH PIGWEED 2.SETFA GIANT FOXTAIL

Weed 3.XANST C. COCKLEBUR

Crop 1:NIOTA B. TOBACCO

Variety: NC3

Planting Date: 5-13-99

Planting Method: SET

Rate: 7474

P/A

Depth: 2

IN

Row Spacing: 40 IN

Seed Bed: VERY FINE

Soil Temperature: 74

F Soil Moisture: 73

Plot Width, Unit: 6.66 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: 64

% Silt: 6

% 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

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BURLEY TOBACCO

Trial ID: T9001  
Location: LEXINGTON, KY

Study Dir.:  
Investigator: Charles H. Slack

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-13-99	4-13-99	6-3-99			
Time of Day:	2:00 PM	2:00 PM	2:00 PM			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRT	PPI	MP			
Applic. Placement:	BROSOI	BROSOI	BROFOL			
Air Temp., Unit:	74 F	74 F	80 F			
% Relative Humidity:	90	90	75			
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH			
Dew Presence (Y/N):	N	N	N			
Soil Temp., Unit:	70 F	70 F	70 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	20	20	30			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
NIOTA			MP			
			4 LVS			
			8 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
AMACH						

## BURLEY TOBACCO

Trial ID: T9001

Study Dir.:

Location: LEXINGTON, KY

Investigator: 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:	8004DG	DG	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 MPH	4 MPH	4 MPH			
Incorporation Equip.:	F. CULT	F. CULT				
Hours to Incorp.:	.5	.5				
Incorp. Depth, Unit:	1.5 IN	1.5 IN				
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			