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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	Hopornbeam 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>
LAMPU	Red Deadnettle	<i>Lamium purpureum L.</i>
NIOTA	Burley Tobacco	<i>Nicotiana tabacum L.</i>
PHBPU	Tall Morningglory	<i>Ipomoea purpurea</i>
PHYHE	Clammy Groundcherry	<i>Physalis heterophylla</i>
POLPE	Ladysthumb	<i>Polygonum persicaria</i>
POLPY	Pennsylvania Smartweed	<i>Polygonum pensylvanicum</i>
SETFA	Giant Foxtail	<i>Setaria faberi</i>
SIDSP	Prickly Sida	<i>Sida spinosus</i>
SOLCA	Horsenettle	<i>Solanum carolinense</i>
SOLPT	Eastern Black Nightshade	<i>Solanum ptycanthum</i>
SORHA	Johnsongrass	<i>Sorghum halepense</i>
STEME	Common Chickweed	<i>Stellaria media</i>
TAROF	Common Dandelion	<i>Taraxcum officinale</i>
XANST	Common Cocklebur	<i>Xanthium strumarium</i>
ZEAMX	Corn	<i>Zea mays</i>

## I. ABBREVIATIONS

### B. Herbicide application times

#### PREEMERGENCE

-3WK -3 WEEKS BEFORE PLANTING  
 -1WK -1 WEEK BEFORE PLANTING  
 PRE PREEMERGENCE  
 PRT PRE TRANSPLANT  
 PPI PREPLANT INCORPORATED  
 30DAP DAYS BEFORE PLANTING  
 45DAP DAYS BEFORE PLANTING

#### POSTEMERGENCE

EP EARLY POSTEMERGENCE WEEDS 0-2"  
 MP MID-POSTEMERGENCE WEEDS 2-4"  
 LP LATE POSTEMERGENCE WEEDS 4-6"  
 LLP LATE-LATE POSTEMERGENCE WEEDS 6-8"  
 POST POST TRANSPLANT  
 +1WK APPLIED 1 WEEK AFTER FIRST APPLICATION  
 2LC 2 LEAF CORN  
 3C 3 INCH CORN  
 7C 7 INCH CORN  
 6C 6 INCH CORN  
 10C 10 INCH CORN  
 12C 12 INCH CORN  
 16C 16 INCH CORN  
 18C 18 INCH CORN  
 20C 20 INCH CORN  
 24C 24 INCH CORN  
 30C 30 INCH CORN  
 6"W 6 INCH WEEDS  
 10"W 10 INCH WEEDS  
 16"W 16 INCH WEEDS  
 12J 12 INCH JOHNSONGRASS  
 18J 18 INCH JOHNSONGRASS  
 REG WEED REGROWTH  
 JBC JUST BEFORE CANOPY CLOSURE  
 POD POST DIRECTED  
 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  
 V4 CORN AT GROWTH STAGE V4  
 V8 CORN AT GROWTH STAGE V8

## II. A. APRIL CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
04-01-2000	73	34	54		76	31	54	45	60	48	
04-02-2000	64	57	60	0.19	97	81	55	52	58	56	
04-03-2000	64	48	56	1.19	99	84	56	54	59	56	
04-04-2000	47	34	40	0.08	94	49	54	48	56	49	
04-05-2000	57	31	44		71	31	51	46	54	44	
04-06-2000	69	51	60		70	46	54	49	57	49	
04-07-2000	70	51	60	0.28	96	43	55	51	59	52	
04-08-2000	54	31	42	0.77	99	62	55	47	57	47	
04-09-2000	57	27	42		89	34	50	44	53	43	
04-10-2000	66	38	52		74	31	54	46	57	45	
04-11-2000	57	46	52	0.39	98	53	52	51	54	52	
04-12-2000	49	38	44		90	57	52	49	55	48	
04-13-2000	57	34	46		90	59	53	48	55	46	
04-14-2000	72	44	58		95	60	56	48	61	49	
04-15-2000	75	49	62		99	54	58	51	65	54	
04-16-2000	72	54	63		97	59	60	54	67	57	
04-17-2000	61	49	55	0.45	98	80	57	54	63	56	
04-18-2000	57	46	52		99	80	54	53	57	54	
04-19-2000	68	52	60		95	63	59	54	63	55	
04-20-2000	77	57	67	0.59	93	45	59	55	63	57	
04-21-2000	56	41	48	0.06	95	68	58	52	60	51	
04-22-2000	58	41	50		96	60	55	52	58	50	
04-23-2000	65	42	54		96	38	57	50	62	49	
04-24-2000	54	50	52	0.10	92	72	55	54	58	55	
04-25-2000	66	48	57		89	43	59	54	63	53	
04-26-2000	62	35	48		85	30	58	51	64	51	
04-27-2000	67	40	54		79	33	58	50	65	52	
04-28-2000	68	39	54		93	38	57	51	65	54	
04-29-2000	69	41	55		88	33	59	52	67	54	
04-30-2000	74	40	57		86	27	60	52	71	55	
	AIR TEMP			TOTAL	RH		SOIL TEMP				TOTAL
	MX	MN	AV	PRECIP	MX	MN	GRASS	MN	BARE	MN	EVAP
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	64	43	53	4.10	91	51	56	51	60	51	
Deviation	-2	-2	-2	+0.22							



## II. A. MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	---	---	---	-----	---	---	---	---	---	---	---
05-01-2000	77	51	64		89	39	60	53	68	58	
05-02-2000	72	54	63	0.07	96	39	63	57	73	61	
05-03-2000	80	50	65	0.23	98	55	63	56	74	60	
05-04-2000	75	60	68		100	63	63	60	69	64	
05-05-2000	81	60	70		96	53	67	61	75	64	
05-06-2000	84	63	74		90	48	68	62	79	65	
05-07-2000	83	62	72		91	49	68	63	79	67	
05-08-2000	83	70	76		75	53	69	65	79	70	
05-09-2000	84	69	76		77	52	68	65	79	71	
05-10-2000	72	56	64		80	37	66	63	80	69	
05-11-2000	82	50	66		85	38	67	60	79	65	
05-12-2000	83	74	78		78	58	69	65	79	72	
05-13-2000	75	52	64	0.62	98	38	68	64	75	68	
05-14-2000	65	44	54		88	35	65	61	74	62	
05-15-2000	70	45	58		80	31	65	58	75	61	
05-16-2000	74	44	59		83	30	65	58	72	62	
05-17-2000	77	61	69	0.10	90	44	65	61	71	65	
05-18-2000	86	70	78		77	36	69	63	77	65	
05-19-2000	77	64	70	0.77	95	61	68	66	73	70	
05-20-2000	62	54	58	0.03	95	74	67	64	70	65	
05-21-2000	66	50	58		100	66	66	63	70	62	
05-22-2000	75	50	62	0.02	95	52	67	62	74	62	
05-23-2000	73	61	67	0.29	98	73	67	65	69	66	
05-24-2000	84	65	74		95	49	71	65	76	65	
05-25-2000	75	55	65		91	36	70	67	77	69	
05-26-2000	76	51	64		90	30	68	63	75	65	
05-27-2000	79	66	72	0.44	96	66	70	66	74	69	
05-28-2000	72	57	64	0.38	95	62	69	66	71	67	
05-29-2000	64	55	60	0.01	97	68	67	65	70	64	
05-30-2000	76	49	62		99	55	69	63	75	63	
05-31-2000	84	59	72		93	53	72	65	80	66	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
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	76	57	67	2.96	91	50	67	62	75	65	
Deviation	+1	+2	+1	-1.51							

## II. A. JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
06-01-2000	86	64	75		93	47	74	67	85	71	
06-02-2000	87	69	78		85	49	73	69	84	74	
06-03-2000	73	57	65		78	49	72	68	84	72	
06-04-2000	78	53	66		92	43	72	66	83	70	
06-05-2000	75	57	66	0.07	93	54	70	67	77	72	
06-06-2000	70	52	61		83	39	66	63	77	67	
06-07-2000	77	44	60		91	33	69	61	81	65	0.21
06-08-2000	82	55	68		78	32	70	63	82	68	
06-09-2000	87	66	76		73	36	73	66	85	72	0.30
06-10-2000	90	68	79		79	38	74	68	86	74	0.26
06-11-2000	91	72	82		75	37	75	69	87	76	
06-12-2000	92	70	81		87	35	75	70	87	77	
06-13-2000	92	72	82		78	31	76	70	88	77	
06-14-2000	89	75	82		75	47	76	72	87	79	
06-15-2000	82	68	75	0.50	95	60	74	71	81	77	
06-16-2000	85	71	78		92	54	75	71	82	74	
06-17-2000	81	70	76	0.66	97	67	75	72	79	75	
06-18-2000	74	67	70	0.28	96	88	73	72	75	73	0.07
06-19-2000	75	63	69	0.11	97	70	73	71	75	71	
06-20-2000	84	64	74	0.06	98	67	75	71	79	70	
06-21-2000	84	73	78	0.05	87	63	76	73	80	73	
06-22-2000	84	65	74		94	37	76	71	84	71	
06-23-2000	88	67	78		83	46	77	71	87	73	
06-24-2000	89	71	80		78	37	77	72	88	76	
06-25-2000	83	70	76	0.07	92	60	77	73	84	77	
06-26-2000	86	66	76	0.06	97	61	77	72	83	75	
06-27-2000	76	60	68	1.36	98	74	74	71	78	72	
06-28-2000	74	61	68		99	66	72	70	75	69	
06-29-2000	78	57	68		98	46	73	69	77	68	
06-30-2000	78	56	67		94	36	74	68	80	67	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
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	82	64	73	3.22	88	50	74	69	82	72	0.84
Deviation	-1	+2	+1	-0.44							

## II. A. JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
07-01-2000	83	58	70		95	38	76	69	83	70	
07-02-2000	85	59	72		88	47	77	70	85	71	
07-03-2000	86	73	80		69	56	76	72	82	76	
07-04-2000	86	72	79	0.05	94	66	78	73	85	76	
07-05-2000	81	70	76	1.06	94	79	76	74	80	76	
07-06-2000	85	69	77		97	65	79	74	83	74	
07-07-2000	79	63	71		89	47	78	74	84	74	
07-08-2000	84	57	70		94	36	79	71	86	71	
07-09-2000	89	65	77		87	54	79	73	87	75	
07-10-2000	89	69	79	0.73	95	59	79	75	86	78	
07-11-2000	84	70	77	0.15	96	61	78	75	83	77	
07-12-2000	82	72	77	0.09	96	74	78	76	81	77	
07-13-2000	85	71	78		96	57	80	76	84	76	
07-14-2000	86	65	76		97	48	80	74	87	74	
07-15-2000	82	64	73		90	48	78	74	86	75	
07-16-2000	81	60	70		95	52	77	72	85	74	
07-17-2000	85	62	74		96	46	77	71	88	74	
07-18-2000	82	66	74	0.03	93	66	76	73	82	77	
07-19-2000	75	61	68	0.39	95	77	75	72	79	73	
07-20-2000	78	59	68		97	59	75	69	79	69	
07-21-2000	78	63	70		97	62	76	71	80	71	
07-22-2000	77	58	68		93	44	76	70	83	70	
07-23-2000	79	58	68		95	52	76	70	84	71	
07-24-2000	79	59	69		86	42	77	70	85	72	
07-25-2000	82	59	70	0.07	96	54	78	70	86	73	
07-26-2000	86	64	75		95	48	79	72	86	75	
07-27-2000	89	64	76		94	36	79	72	88	75	
07-28-2000	84	68	76	0.04	89	51	76	73	82	77	
07-29-2000	75	66	70	0.54	100	78	74	72	79	73	
07-30-2000	78	67	72	0.27	95	78	74	71	76	71	
07-31-2000	85	67	76		94	57	78	72	81	72	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	83	64	74	3.42	93	56	77	72	83	74	
Deviation	-3	-0	-2	-1.58							

## II. A. AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
08-01-2000	82	66	74	0.53	97	63	76	72	79	73	
08-02-2000	86	68	77	0.28	96	53	79	73	83	73	
08-03-2000	83	68	76		94	54	79	75	82	74	
08-04-2000	82	67	74	0.01	95	57	78	75	82	74	
08-05-2000	82	59	70		86	46	79	73	85	72	
08-06-2000	88	75	82		81	57	78	75	85	77	
08-07-2000	88	73	80	0.02	86	58	79	75	85	78	
08-08-2000	85	68	76	0.72	95	70	77	74	81	76	
08-09-2000	93	68	80	0.75	92	53	80	75	85	75	
08-10-2000	81	66	74		95	53	79	74	82	75	
08-11-2000	82	60	71		96	52	78	73	83	72	
08-12-2000	78	59	68		95	42	76	72	83	72	
08-13-2000	79	60	70		89	53	76	71	83	72	
08-14-2000	84	60	72		96	45	78	71	86	73	
08-15-2000	88	63	76		92	50	79	72	88	75	
08-16-2000	86	68	77		86	46	79	74	88	78	
08-17-2000	89	61	75	0.46	91	55	77	72	84	75	
08-18-2000	78	63	70	0.40	96	61	75	72	79	74	
08-19-2000	77	54	66		97	47	75	70	80	69	
08-20-2000	77	59	68		87	56	75	71	82	70	0.21
08-21-2000	81	58	70		93	58	76	70	83	70	
08-22-2000	83	66	74		93	61	76	71	83	73	
08-23-2000	77	69	73	0.04	92	70	74	72	79	75	
08-24-2000	76	67	72	0.16	95	79	74	72	76	73	
08-25-2000	80	62	71	0.01	98	60	75	71	79	71	
08-26-2000	83	57	70	0.01	97	47	75	69	80	69	
08-27-2000	80	66	73	0.07	96	66	76	71	79	72	
08-28-2000	81	64	72		98	54	77	72	82	72	
08-29-2000	87	62	74		95	45	78	71	86	72	
08-30-2000	86	65	76		95	49	78	72	87	75	
08-31-2000	86	68	77		93	55	78	73	87	76	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	83	64	74	3.46	93	55	77	72	83	73	0.21
Deviation	-1	+2	+0	-0.47							

## II. B. APRIL CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
04-01-2000	78	39	58		100	48	62	52			
04-02-2000	76	59	68	0.47	100	98	61	60			
04-03-2000	62	55	58	0.43	100	92	61	58			
04-04-2000	55	40	48	0.05	100	48	62	58			
04-05-2000	70	28	49		100	84	62	54			
04-06-2000	78	56	67		100	30	64	58			
04-07-2000	78	58	68		100	60	68	58			
04-08-2000	58	42	50	0.78	100	80	64	58			
04-09-2000	68	27	48		85	40	61	56			
04-10-2000	69	42	56		100	40	56	52			
04-11-2000	69	54	62	0.56	100	80	56	52			
04-12-2000	56	35	46		88	40	58	52			
04-13-2000	66	40	53		80	50	58	54			
04-14-2000	70	54	62		97	70	60	54			
04-15-2000	72	55	64		98	70	60	54			
04-16-2000	75	51	63		96	58	61	59			
04-17-2000	72	46	59	1.12	100	90	61	60			
04-18-2000	73	46	60		90	60	60	56			
04-19-2000	83	48	66		92	48	65	58			
04-20-2000	84	68	76	0.02	90	60	64	60			
04-21-2000	76	44	60		100	68	64	60			
04-22-2000	72	35	54		100	34	66	56			
04-23-2000	71	45	58		90	50	65	60			
04-24-2000	70	48	59	1.31	100	94	66	58			
04-25-2000	68	46	57	0.34	100	38	66	60			
04-26-2000	70	38	54		100	32	66	62			
04-27-2000	72	40	56	0.35	100	50	64	58			
04-28-2000	70	42	56	0.31	100	38	66	58			
04-29-2000	78	52	65	0.03	100	30	66	60			
04-30-2000	78	44	61		98	38	66	60			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP			
	MX	MN	AV		MX	MN	GRASS	MN	BARE	TOTAL
	71	46	59	5.77	97	57	63	57		
Deviation	-0	-0	-0	+0.97						

## II. B. MAY CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
05-01-2000	80	55	68		100	38	66	64			
05-02-2000	81	60	70		100	32	68	60			
05-03-2000	81	62	72	T	100	60	68	64			
05-04-2000	78	62	70	0.41	100	90	66	62			
05-05-2000	85	63	74	0.16	100	72	68	64			
05-06-2000	82	64	73		100	66	69	65			
05-07-2000	83	65	74		92	66	72	65			
05-08-2000	84	78	81		100	60	72	66			
05-09-2000	84	66	75		100	78	72	66			
05-10-2000	80	50	65		100	40	72	68			
05-11-2000	88	58	73		98	42	72	70			
05-12-2000	86	74	80		100	60	72	68			
05-13-2000	85	61	73	1.17	100	42	72	66			
05-14-2000	69	46	58		96	44	75	68			
05-15-2000	75	47	61		100	60	74	70			
05-16-2000	81	52	66		100	38	76	70			
05-17-2000	85	62	74	0.13	100	64	78	72			
05-18-2000	84	60	72		94	38	76	72			
05-19-2000	76	58	67	0.17	100	68	78	70			
05-20-2000	72	52	62	0.02	100	82	76	70			
05-21-2000	74	45	60		100	50	74	70			
05-22-2000	84	52	68		90	32	76	72			
05-23-2000	85	65	75	0.76	100	80	78	72			
05-24-2000	89	70	80	0.16	100	70	78	74			
05-25-2000	84	63	74	0.34	100	40	78	74			
05-26-2000	79	55	67	0.36	100	90	78	70			
05-27-2000	75	66	70	1.35	100	94	78	72			
05-28-2000	77	64	70		100	64	73	70			
05-29-2000	74	60	67		100	50	78	70			
05-30-2000	85	55	70		100	60	78	72			
05-31-2000	88	65	76		100	32	80	76			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	81	60	70	5.03	99	58	74	69			
Deviation	+0	+3	+2	+0.07							

"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	MX	MN	MX	MN	
06-01-2000	90	65	78		100	38	81	74			
06-02-2000	90	70	80		100	28	82	78			
06-03-2000	88	64	76	0.03	100	38	78	72			
06-04-2000	89	54	72		98	48	80	77			
06-05-2000	80	60	70	0.02	98	40	80	74			
06-06-2000	73	50	62		96	42	82	76			
06-07-2000	82	44	63		100	30	78	68			
06-08-2000	85	50	68		100	32	80	76			
06-09-2000	90	60	75		100	28	82	78			
06-10-2000	91	64	78		100	48	82	78			
06-11-2000	92	66	79		92	50	81	78			
06-12-2000	94	67	80		100	28	81	78			
06-13-2000	95	68	82		100	50	84	78			
06-14-2000	92	72	82		100	60	84	78			
06-15-2000	88	68	78	0.82	100	72	84	78			
06-16-2000	88	72	80		100	60	86	80			
06-17-2000	87	72	80	0.38	100	70	84	78			
06-18-2000	77	70	74	0.28	100	96	81	77			
06-19-2000	88	62	75	0.13	100	70	80	74			
06-20-2000	89	72	80	0.03	100	50	80	74			
06-21-2000	87	68	78	0.17	100	60	84	78			
06-22-2000	88	62	75		100	38	84	76			
06-23-2000	91	62	76		100	40	86	82			
06-24-2000	89	64	76		100	38	86	80			
06-25-2000	90	72	81	0.06	78	62	83	78			
06-26-2000	92	72	82		100	60	86	82			
06-27-2000	90	68	79	1.12	100	80	84	84			
06-28-2000	80	64	72	0.03	100	50	84	80			
06-29-2000	82	69	76		100	40	86	82			
06-30-2000	86	57	72		100	44	86	80			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
	87	64	76	3.07	99	50	83	78			
Deviation	+0	+1	+1	-0.78							

## II. B. JULY CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
07-01-2000	90	58	74		100	38	86	80			
07-02-2000	88	59	74		86	46	84	80			
07-03-2000	92	72	82		100	30	86	82			
07-04-2000	90	73	82	T	100	60	84	80			
07-05-2000	92	68	80	0.12	100	50	86	82			
07-06-2000	94	75	84		100	70	86	84			
07-07-2000	90	72	81		98	60	88	84			
07-08-2000	90	68	79		92	60	88	86			
07-09-2000	92	65	78		88	84	86	82			
07-10-2000	94	69	82		98	60	88	84			
07-11-2000 E	93	78	86		100	63	81	79			
07-12-2000	94	75	84		98	60	87	82			
07-13-2000	94	72	83		100	60	88	82			
07-14-2000	97	69	83		100	42	89	82			
07-15-2000	88	68	78		100	50	88	80			
07-16-2000	87	63	75		98	46	87	80			
07-17-2000	90	61	76		98	56	88	82			
07-18-2000	92	72	82		100	60	88	84			
07-19-2000	90	72	81	1.12	100	40	88	82			
07-20-2000	84	63	74	0.05	100	62	88	82			
07-21-2000	83	60	72		100	60	88	80			
07-22-2000	80	64	72		100	48	88	78			
07-23-2000	81	64	72		96	56	85	78			
07-24-2000	84	57	70		100	50	81	75			
07-25-2000	84	57	70		98	42	81	75			
07-26-2000	88	56	72		98	44	80	75			
07-27-2000	93	62	78		96	42	82	77			
07-28-2000	92	69	80	0.04	98	68	87	78			
07-29-2000	88	68	78	2.90	100	80	87	80			
07-30-2000	79	69	74	0.28	100	84	81	75			
07-31-2000	87	65	76		98	60	81	76			

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	89	67	78	4.51	98	56	86	80			
Deviation	-0	+0	-0	+0.22							

"E" indicates data estimated by NWS.

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



## II. B. JULY CLIMATOLOGICAL DATA, PRINCETON

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP		EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
07-01-2000	90	58	74		100	38	86	80	
07-02-2000	88	59	74		86	46	84	80	
07-03-2000	92	72	82		100	30	86	82	
07-04-2000	90	73	82	T	100	60	84	80	
07-05-2000	92	68	80	0.12	100	50	86	82	
07-06-2000	94	75	84		100	70	86	84	
07-07-2000	90	72	81		98	60	88	84	
07-08-2000	90	68	79		92	60	88	86	
07-09-2000	92	65	78		88	84	86	82	
07-10-2000	94	69	82		98	60	88	84	
07-11-2000 E	93	78	86		100	63	81	79	
07-12-2000	94	75	84		98	60	87	82	
07-13-2000	94	72	83		100	60	88	82	
07-14-2000	97	69	83		100	42	89	82	
07-15-2000	88	68	78		100	50	88	80	
07-16-2000	87	63	75		98	46	87	80	
07-17-2000	90	61	76		98	56	88	82	
07-18-2000	92	72	82		100	60	88	84	
07-19-2000	90	72	81	1.12	100	40	88	82	
07-20-2000	84	63	74	0.05	100	62	88	82	
07-21-2000	83	60	72		100	60	88	80	
07-22-2000	80	64	72		100	48	88	78	
07-23-2000	81	64	72		96	56	85	78	
07-24-2000	84	57	70		100	50	81	75	
07-25-2000	84	57	70		98	42	81	75	
07-26-2000	88	56	72		98	44	80	75	
07-27-2000	93	62	78		96	42	82	77	
07-28-2000	92	69	80	0.04	98	68	87	78	
07-29-2000	88	68	78	2.90	100	80	87	80	
07-30-2000	79	69	74	0.28	100	84	81	75	
07-31-2000	87	65	76		98	60	81	76	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP		TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	
-----	-----	-----	-----	-----	-----	-----	-----	-----	
	89	67	78	4.51	98	56	86	80	
Deviation	-0	+0	-0	+0.22					

### III. HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
AATREX	ATRAZINE	NOVARTIS
ACCENT	NICOSULFURON	DUPONT
ACCENT GOLD	CLOPYRALID + FLUMETSULAM + NICOSULFURON + ATRAZINE	DUPONT
ACTIVATOR 90	NONIONIC SURFACTANT	LOVELAND
AE F130360		AVENTIS
AIM	CARFENTRAZONE	FMC
AMS	AMMONIUM SULFATE	CLEAN CROP
ASSURE II	QUIZALOFOP	DUPONT
AUTHORITY	SULFENTRAZONE	FMC
AXIOM	THIAFLUAMIDE + METRIBUZIN	BAYER
AXIOM AT	FLUFENACET + METRIBUZIN + ATRAZINE	BAYER
BACKDRAFT	GLYPHOSATE + IMAZAQUIN	AMERICAN CYANAMID
BALANCE	ISOXAFLUTOLE	AVENTIS
BASAGRAN	BENTAZON	BASF
BASIS	RIMSULFURON + THIFENSULFURON	DUPONT
BASIS GOLD	RIMSULFURON + NICOSULFURON + ATRAZINE	DUPONT
BEACON	PRIMISULFURON	NOVARTIS
BICEP II	METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BICEP LITE II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	NOVARTIS
BLAZER	ACIFLUORFEN	BASF
BOUNDRY	S-METOLACHLOR + METRIBUZIN	NOVARTIS
BUCTRIL	BROMOXYNIL	AVENTIS
CANOPY	CHLORIMURON + METRIBUZIN (1:6 RATIO)	DUPONT
CANOPY XL	CHLORIMURON + SULFENTRAZONE (1:5 RATIO)	DUPONT
CELEBRITY PLUS	DIFLUFENZOPYR/SODIUM SALT OF 3,6 O-ANISIC ACID	
	DICAMBA (DIGLYCOLAMINE SALT) + NICOSULFURON	BASF
CLARITY	DICAMBA (DIGLYCOLAMINE SALT)	BASF
CLASSIC	CHLORIMURON	DUPONT
COBRA	LACTOFEN	VALENT
COMMAND	CLOMAZONE	FMC
CONCLUDE XACT	BENTAZON + ACIFLUORFEN + SETHOXYDIM	BASF
CROP OIL CONCENTRATE (COC)		LOVELAND
DEGREE	ACETOCHLOR	MONSANTO
DEGREE EXTRA	ACETOCHLOR + ATRAZINE	MONSANTO
DOMAIN	FLUFENACET + METRIBUZIN	BAYER
DISTINCT	DIFLUFENZOPYR/SODIUM SALT OF 3,6 O-ANISIC ACID	BASF

**TRADE NAME****COMMON NAME****COMPANY**

DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	NOVARTIS
EPIC	FLUFEMACET + ISOXAFLUTOLE	BAYER
EXCEED	PROSULFURON + PRIMISULFURON	NOVARTIS
EXP 31430A		AVENTIS
EXPRESS	TRIBENURON	DUPONT
EXTREME	GLYPHOSATE + IMAZETHAPYR	AMERICAN CYANAMID
FIRSTRATE	CLORANSULAM	DOW AgroSciences
FLEXSTAR HL	FOMESAFEN + SURFACTANT	ZENECA
FRONTROW	CLORANSULAM + FLUMETSULAM	DOW AgroSciences
FRONTIER	DIMETHENAMID	BASF
FULTIME	ACETOCHLOR + ATRAZINE + SAFENER	ZENECA
FUSION	FLUAZIFOP-P-BUTYL + FENOXAPROP-P-ETHYL	ZENECA
GLYPHOMAX	GLYPHOSATE	CHEMINOVA
GRAMOXONE EXTRA	PARAQUAT	ZENECA
GUARDSMAN	DIMETHENAMID + ATRAZINE	BASF
HARNESS	ACETOCHLOR	MONSANTO
HARNESS XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
HORNET	FLUMETSULAM + CLOPYRALID	DOW AgroSciences
IMPRESSIVE	SURFACTANT	VALENT
INDUCE	SURFACTANT	HELENA
ICIA5676/ZA1296	ACETOCHLOR + ATRAZINE + R-25788 + ZA1296	ZENECA
LEADOFF	DIMETHENAMID + ATRAZINE	DUPONT
LIBERTY	GLUFOSINATE	AVENTIS
LIBERTY ATZ	GLUFOSINATE + ATRAZINE	AVENTIS
LIGHTNING	IMAZETHAPYR + IMAZAPYR	AMERICAN CYANAMID
LIQUID N	28% NITROGEN	
LOROX	LINURON	DUPONT
MARKSMAN	DICAMBA + ATRAZINE (2.1 + 1.1)	BASF
MATRIX	RIMSULFURON	DUPONT
MICRO-TECH	ALACHLOR	MONSANTO
MON 69423	GLYPHOSATE + ACETACHLOR + ATRAZINE	MONSANTO
MSO	METHYLATED SEED OIL	LOVELAND
NORTHSTAR	DICAMBA + PRIMISULFURON	NOVARTIS
OUTLOOK	DIMETHENAMID-P	BASF
PENDIMAX	PENDIMETHALIN	DOW AgroSciences
PERMIT	HALOSULFURON	MONSANTO
PINNALE	THIFENSULFURON	DUPONT
POAST	SETHOXYDIM	BASF
POAST PLUS	SETHOXYDIM + SURFACTANT	BASF
PRINCEP	SIMAZINE	NOVARTIS
PROWL	PENDIMETHALIN	AMERICAN CYANAMID
PRO-X	UREA + DISPERSING AGENT	PRO SERVICES, INC

**TRADE NAME****COMMON NAME****COMPANY**

PURSUIT	IMAZETHAPYR	AMERICAN CYANAMID
READYMASTER ATZ	ATRAZINE + GLYPHOSATE	MONSANTO
RAPTOR	IMAZAMOX	AMERICAN CYANAMID
ROUNDUP	GLYPHOSATE	MONSANTO
ROUNDUP ULTRA	GLYPHOSATE + ADJUVANT	MONSANTO
ROUNDUP ULTRAMAX	GLYPHOSATE + ADJUVANT	MONSANTO
S 3153	FLUFENPYR-ETHYL	VALENT
SELECT	CLETHODIM	VALENT
SPARTAN	SULFENTRAZONE	FMC
SPIRIT	PROSULFURON	NOVARTIS
SPREADER HF	NON-IONIC SURFACANT	LOVELAND
SQUADRON	PENDIMETHALIN + IMAZAQUIN	AMERICAN CYANAMID
STEEL	IMAZAQUIN + IMAZETHAPYR + PENDIMETHALIN	AMERICAN CYANAMID
STORM	BENTAZON + ACIFLUORFEN	BASF
STRONGARM	DICLOSULAM	DOW AgroSciences
SYNCHRONY STS	CHLORIMURON + THIFENSULFURON	DUPONT
TOPNOTCH	ACETOCHLOR + SAFENER	ZENECA
TOUCHDOWN 5	SULFOSATE	ZENECA
TOUCHDOWN 4	SULFOSATE	ZENECA
ULTRA BLAZER	BENTAZON	BASF
V-10080		VALENT
V-10081		VALENT
VALOR	FLUMIOXAZIN (V-53482)	VALENT
WEEDONE LV4	2,4-D ESTER	AVENTIS
ZA1296	MESOTRIONE (purposed)	ZENECA

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

CORN PREEMGEENCE

Trial ID: C0001  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	ZEAMX	ZEAMX	AMBTR	IPOSS	CHEAL	SETFA	ZEAMX	ZEAMAX	ZEAMX	CHEAL	SETFA
Crop Code	INJURY CONTROL		CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	4 WEEK		4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P		P	P	P	P	P	P	P	P	P
ARM Action Codes	0		0	0	0	0	0	0	0	0	0
# 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	ZEAMX	AMBTR	IPOSS	CHEAL	SETFA	ZEAMX	ZEAMAX	ZEAMX	CHEAL	SETFA
1	BICEP II MAGNUM	5.5 L		2.88 LB	A/A PRE		0	0	73	80	95	93	0	63	78	95	87
2	HARNESS XTRA	5.6 EC		2.88 LB	A/A PRE		0	0	78	78	95	95	0	68	77	95	90
3	AATREX	4 F		1.25 LB	A/A PRE		0	0	70	78	85	78	0	47	75	85	68
4	AATREX	4 F		1.8 LB	A/A PRE		0	0	80	85	92	80	0	67	80	90	75
5	AXIOM AT	75 WG		2.25 LB	A/A PRE		0	0	80	90	95	95	0	72	87	95	90
6	AXIOM	68 DF		0.77 LB	A/A PRE		0	0	78	88	95	95	0	77	87	95	92
6	AATREX	4 F		1.8 LB	A/A PRE												
7	EPIC	58 DF		0.435 LB	A/A PRE		0	0	90	87	95	93	0	90	87	95	93
7	AATREX	4 F		1.8 LB	A/A PRE												
8	BALANCE	4 SC		0.094 LB	A/A PRE		0	0	85	80	95	90	0	82	80	95	85
8	AATREX	4 F		1.5 LB	A/A PRE												
9	BALANCE	75 WG		0.094 LB	A/A PRE		0	0	93	83	95	93	0	90	82	95	92
9	AATREX	4 F		1.5 LB	A/A PRE												
10	BALANCE	4 SC		0.094 LB	A/A PRE		0	0	77	82	92	95	0	77	80	92	92
10	BICEP II MAGNUM	5.5 L		1.9 LB	A/A PRE												
11	BALANCE	75 WG		0.094 LB	A/A PRE		0	0	83	85	95	95	0	73	83	95	92
11	BICEP II MAGNUM	5.5 L		1.9 LB	A/A PRE												
12	BALANCE	4 SC		0.094 LB	A/A PRE		0	0	72	77	83	90	0	53	70	83	82
13	BALANCE	4 SC		0.094 LB	A/A PRE		0	0	77	80	93	88	0	70	78	93	83
13	AATREX	4 F		1.25 LB	A/A PRE												
14	EXP31430A	4.3 SC		1.34 LB	A/A PRE		0	0	78	83	95	93	0	73	80	95	90
15	BALANCE	4 SC		0.094 LB	A/A PRE		0	0	87	83	95	95	0	85	83	95	93
15	HARNESS	7 EC		0.875 LB	A/A PRE												
15	AATREX	4 F		1.25 LB	A/A PRE												

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Weed Code	ZEAMX		AMBTR	IPOSS	CHEAL	SETFA	ZEAMX		AMBTR	IPOSS	CHEAL	SETFA				
	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL					
Crop Code	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Data Type	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK				
Rating Unit	P	P	P	P	P	P	P	P	P	P	P	P				
Trt-Eval Interval	0	0	0	0	0	0	0	0	0	0	0	0				
ARM Action Codes																
# Subsamples, Dec.																
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg											
16 EXP31430A	4.3	SC	1.34	LB	A/A PRE	0	0	83	83	95	95	0	83	80	95	92
16 HARNESS	7	EC	0.875	LB	A/A PRE											
LSD (P=.05)	0.0	0.0	8.2	7.5	7.7	9.0	0.0	14.8	6.8	7.6	10.0					
Standard Deviation	0.0	0.0	4.9	4.5	4.6	5.4	0.0	8.9	4.1	4.5	6.0					
CV	0.0	0.0	6.12	5.46	4.95	5.91	0.0	12.11	5.06	4.89	6.88					

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CORN FREEMGEENCE

Trial ID: C0001                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** Lexington                      **Trial Status:** complete  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-26-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** GARST 8541IT  
**Planting Date:** 04-26-00                      **Planting Method:** ROW  
**Rate:** 28000 S/A                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 60 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-04-00

**SITE AND DESIGN**

**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**

% Sand: 6	% OM: 2.5	Texture: SILT LOAM
% Silt: 64	pH: 6.4	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.4                      **Unit:** MI

**APPLICATION DESCRIPTION**

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A

Application Date: 04-26-00  
 Time of Day: 10:30  
 Application Method: SPRAY  
 Application Timing: PRE  
 Applic. Placement: BROSOI  
 Air Temp., Unit: 56 F  
 % Relative Humidity: 72  
 Wind Velocity, Unit: 3 MPH  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 58 F  
 Soil Moisture: ADEQUATE

## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX

## WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: SETFA  
 Weed 2 Code, Stage: AMBTR  
 Weed 3 Code, Stage: IPOSS  
 Weed 4 Code, Stage: CHEAL

## APPLICATION EQUIPMENT

A

Appl. Equipment: ATV  
 Operating Pressure: 30  
 Nozzle Type: FLAT FAN  
 Nozzle Size: 8004 DG  
 Nozzle Spacing, Unit: 20 IN  
 Boom Length, Unit: 5 FT  
 Boom Height, Unit: 20 IN  
 Ground Speed, Unit: 3.5 MPH  
 Carrier: WATER  
 Spray Volume, Unit: 24 GPA  
 Propellant: CO2



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Weed Science Field Research

CORN PREEMERGENCE II

Trial ID: C0002  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	ZEAMX				SETFA	CHEAL	IPOSS	XANST	ZEAMX	SETFA	CHEAL	IPOSS	XANST
Crop Code	INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	1 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	ZEAMX 1 WEEK	ZEAMX 2 WEEK	ZEAMX 4 WEEK	SETFA 4 WEEK	CHEAL 4 WEEK	IPOSS 4 WEEK	XANST 4 WEEK	ZEAMX 8 WEEK	SETFA 8 WEEK	CHEAL 8 WEEK	IPOSS 8 WEEK	XANST 8 WEEK
1	FULTIME	4	CS	3	LB	A/A PRE	0	0	0	94	95	88	86	0	91	95	85	86
1	AATREX	4	F	0.3	LB	A/A PRE												
2	FULTIME	4	CS	3	LB	A/A PRE	0	0	0	94	95	90	94	0	94	95	90	94
2	SPIRIT	57	WG	0.036	LB	A/A MP												
2	COC	L		1	QT/A	MP												
3	FULTIME	4	CS	3	LB	A/A PRE	0	0	0	93	95	84	81	0	93	95	84	81
3	BALANCE	4	SC	0.07	LB	A/A PRE												
4	ICIA5676/ZA1296	3.5	CS	1.97	LB	A/A PRE	0	0	0	90	91	80	81	0	90	91	80	81
5	ICIA5676/ZA1296	3.5	CS	2.19	LB	A/A PRE	0	0	0	95	95	80	86	0	95	95	80	86
6	BICEP II MAGNUM	5.5	L	2.88	LB	A/A PRE	0	0	0	94	95	75	85	0	91	95	70	85
7	TOPNOTCH	3.2	CS	2	LB	A/A PRE	0	0	0	95	95	89	94	0	95	95	89	94
7	ZA1296	4	SC	0.094	LB	A/A 7"C												
7	COC	L		1	QT/A	7"C												
7	LIQUID N	L		2.5	QT/A	7"C												
8	FULTIME	4	CS	3	LB	A/A PRE	18	0	0	95	95	89	94	0	95	95	89	94
8	ZA1296	4	SC	0.094	LB	A/A 7"C												
8	COC	L		1	QT/A	7"C												
8	LIQUID N	L		2.5	QT/A	7"C												
9	TOPNOTCH	3.2	CS	2	LB	A/A PRE	0	0	0	95	95	89	93	0	95	95	89	93
9	ZA1296	4	SC	0.094	LB	A/A 7"C												
9	AATREX	4	F	0.25	LB	A/A 7"C												
9	COC	L		1	QT/A	7"C												
9	LIQUID N	L		2.5	QT/A	7"C												
10	FRONTIER	6	E	1.4	LB	A/A PRE	0	0	0	90	95	88	94	0	90	95	88	94
10	MARKSMAN	3.2	F	1.4	LB	A/A 7"C												
10	COC	L		1	QT/A	7"C												

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	ZEAMX		SETFA		CHEAL		IPOSS		XANST				
							INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT			
							1 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
							P	P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Rate	Unit	Grow Stg	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	SETFA INJURY PERCENT	SETFA CONTROL PERCENT	CHEAL INJURY PERCENT	CHEAL CONTROL PERCENT	IPOSS INJURY PERCENT	IPOSS CONTROL PERCENT	XANST INJURY PERCENT	XANST CONTROL PERCENT		
11	DUAL II MAGNUM	7.6	EC	1.6	LB A/A	PRE		PRE	0	0	0	90	95	88	89	0	90	95	86	89
11	SPIRIT	57	WG	0.036	LB A/A	7"C														
11	COC		L	1	QT/A	7"C														
11	LIQUID N		L	2.5	QT/A	7"C														
12	LEADOFF	5	CS	2.8	LB A/A	PPE		PPE	0	0	0	93	95	89	89	0	93	95	88	89
13	LEADOFF	5	CS	1.25	LB A/A	PRE		PRE	0	0	0	89	95	89	93	0	89	95	89	93
13	AATREX	4	F	0.5	LB A/A	PRE														
13	BASIS GOLD	89.5	DF	0.78	LB A/A	MP														
13	COC		L	1	QT/A	MP														
14	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE		PRE	0	0	0	90	95	88	79	0	90	95	84	79
15	GUARDSMAN	5	E	2.18	LB A/A	PRE		PRE	0	0	0	91	90	73	71	0	91	90	73	71
16	HARNESS XTRA	5.6	EC	2.88	LB A/A	PRE		PRE	0	0	0	94	95	83	88	0	94	95	83	88
17	DEGREE XTRA	4.04	CS	2.88	LB A/A	PRE		PRE	0	0	0	95	95	71	84	0	95	95	71	84
18	FULTIME	4	CS	3	LB A/A	PRE		PRE	0	0	0	95	95	89	90	0	95	95	89	90
19	GUARDSMAN	5	E	2.81	LB A/A	PRE		PRE	0	0	0	95	95	84	89	0	95	95	84	89
19	BALANCE	4	SC	0.047	LB A/A	PRE														
20	GUARDSMAN	5	E	2.81	LB A/A	PRE		PRE	0	0	0	93	95	90	91	0	93	95	90	91
20	HORNET	85.6	WG	0.128	LB A/A	PRE														
21	AXIOM AT	75	WG	2.25	LB A/A	PRE		PRE	0	0	0	95	95	71	88	0	95	95	71	88
22	EPIC	58	DF	0.435	LB A/A	PRE		PRE	0	0	0	90	95	78	84	0	90	95	78	84
23	OUTLOOK	6	EC	0.75	LB A/A	PRE		PRE	0	0	0	94	95	90	95	0	94	95	90	95
23	MARKSMAN	3.2	F	2.4	LB A/A	3"C														
23	LIQUID N		L	2.5	QT/A	3"C														
24	HARNESS	7	EC	1.6	LB A/A	PRE		PRE	0	0	0	90	95	84	95	0	90	95	85	95
24	HORNET	85.6	WG	0.128	LB A/A	PRE														
25	GUARDSMAN	5	E	2.81	LB A/A	PRE		PRE	0	0	0	94	95	90	94	0	94	95	90	94
25	DISTINCT	70	WG	0.175	LB A/A	7"C														
25	SPREADER HF			0.25	% V/V	7"C														
25	LIQUID N		L	1.25	QT/A	7"C														

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	ZEAMX	ZEAMX	ZEAMX	SETFA	CHEAL	IPOSS	XANST	ZEAMX	SETFA	CHEAL	IPOSS	XANST	
							INJURY PERCENT	INJURY PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	
							1 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
							P	P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg														
26 GUARDSMAN	5 E		2.81 LB	A/A	+1WK	0	0	0	94	95	90	93	0	94	95	90	93		
26 CLARITY	4 E		0.375 LB	A/A	+1WK														
27 GUARDSMAN	5 E		1.87 LB	A/A	PRE	0	0	0	93	95	85	88	0	93	95	85	88		
27 BALANCE	4 SC		0.094 LB	A/A	PRE														
28 OUTLOOK	6 EC		0.75 LB	A/A	+1WK	0	0	0	94	95	90	90	0	94	95	90	90		
28 MARKSMAN	3.2 F		1.4 LB	A/A	+1WK														
28 LIQUID N	L		2.5 QT/A		+1WK														
LSD (P=.05)						0.8	0.0	0.0	2.8	0.7	3.2	3.3	0.0	2.8	0.7	3.3	3.3		
Standard Deviation						0.5	0.0	0.0	1.9	0.5	2.3	2.4	0.0	2.0	0.5	2.3	2.4		
CV						87.29	0.0	0.0	2.1	0.5	2.69	2.66	0.0	2.13	0.5	2.73	2.66		

## CORN PREEMERGENCE II

Trial ID: C0002                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-26-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

Crop 1: ZEAMX CORN, FIELD                      Variety: N-63 G7  
Planting Date: 04-26-00                      Planting Method: ROW  
Rate: 28000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 58 F                      Soil Moisture: NORMAL                      Emergence Date: 05-04-00

## SITE AND DESIGN

Plot Width, Unit: 5 FT                      Plot Length, Unit: 33 FT                      Reps: 4  
Site Type: FIELD  
Tillage Type: CONVENTIONAL                      Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP                      Distance: 1.4                      Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	04-26-00	05-10-00	05-16-00	05-22-00

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Time of Day:	10:00	11:00	10:30	1:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	3"C	7"C	MP
Applic. Placement:	BROS0I	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	56 F	62 F	60 F	70 F
% Relative Humidity:	70	69	65	83
Wind Velocity, Unit:	3 MPH	5 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	58 F	68 F	68 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	5	20	10	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX 3"C	ZEAMX 7"C	ZEAMX MP
Stage Scale:		2 LF	4 LF	5 LF
Height, Unit:		3 IN	7 IN	9 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA 3"C	SETFA 7"C	SETFA MP
Stage Scale:		2 LF	4 LF	6 LF
Density, Unit:		2 IN	4 IN	7 IN
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		6 LF	10 LF	12 LF
Density, Unit:		2 IN	4 IN	7 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		2 LF	4 LF	6 LF
Density, Unit:		1.5 IN	3 IN	5 IN
Weed 4 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	5 LF	7 LF
Density, Unit:		2 IN	5 IN	8 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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	20 IN	26 IN	30 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 PREEMGEENCE III

Trial ID: C0034

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	ZEAMX		SETFA		ZEAMX		SETFA	
							INJURY CONTROL	PERCENT	INJURY CONTROL	PERCENT	INJURY CONTROL	PERCENT	INJURY 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 Conc	Form Type	Rate	Unit	Grow Stg	ZEAMX INJURY CONTROL	ZEAMX PERCENT	SETFA INJURY CONTROL	SETFA PERCENT	ZEAMX INJURY CONTROL	ZEAMX PERCENT	SETFA INJURY CONTROL	SETFA PERCENT
1	FRONTIER	6 E		1.31 LB	A/A	PRE	0	90	0	73	0	72		
1	CLARITY	4 E		0.5 LB	A/A	EP								
1	LIQUID N	L		2.5 QT/A		EP								
2	OUTLOOK	6 EC		0.75 LB	A/A	PRE	0	92	0	80	0	78		
2	CLARITY	4 E		0.5 LB	A/A	EP								
2	LIQUID N	L		2.5 QT/A		EP								
3	OUTLOOK	6 EC		0.85 LB	A/A	PRE	0	93	0	77	0	75		
3	CLARITY	4 E		0.5 LB	A/A	EP								
3	LIQUID N	L		2.5 QT/A		EP								
4	DUAL II MAGNUM	7.6 EC		1.28 LB	A/A	PRE	0	92	0	77	0	75		
4	CLARITY	4 E		0.5 LB	A/A	EP								
4	LIQUID N	L		2.5 QT/A		EP								
5	HARNESS	7 EC		1.67 LB	A/A	PRE	0	90	0	72	0	70		
5	CLARITY	4 E		0.5 LB	A/A	EP								
5	LIQUID N	L		2.5 QT/A		EP								
6	TOPNOTCH	3.2 CS		1.67 LB	A/A	PRE	0	92	0	80	0	77		
6	CLARITY	4 E		0.5 LB	A/A	EP								
6	LIQUID N	L		2.5 QT/A		EP								
7	DEGREE	3.8 CS		1.67 LB	A/A	PRE	0	92	0	77	0	75		
7	CLARITY	4 E		0.5 LB	A/A	EP								
7	LIQUID N	L		2.5 QT/A		EP								
8	HARNESS	7 EC		0.84 LB	A/A	PRE	0	92	0	73	0	70		
8	BALANCE	4 SC		0.094 LB	A/A	PRE								
8	CLARITY	4 E		0.5 LB	A/A	EP								
8	LIQUID N	L		2.5 QT/A		EP								
9	FRONTIER	6 E		0.75 LB	A/A	PRE	0	93	0	78	0	77		
9	BALANCE	4 SC		0.094 LB	A/A	PRE								
9	CLARITY	4 E		0.5 LB	A/A	EP								
9	LIQUID N	L		2.5 QT/A		EP								

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Weed Code	SETFA		SETFA		SETFA	
	ZEAMX	INJURY CONTROL	ZEAMX	INJURY CONTROL	ZEAMX	INJURY CONTROL
Crop Code	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Data Type	2 WEEK	2 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Rating Unit	P	P	P	P	P	P
Trt-Eval Interval	0	0	0	0	0	0
ARM Action Codes						
# Subsamples, Dec.						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Rate	Unit	Grow Stg	0	95	0	75	0	73
10	AXIOM	68	DF	0.78	LB	A/A	PRE		0	95	0	75	0	73
10	CLARITY	4	E	0.5	LB	A/A	EP							
10	LIQUID N		L	2.5	QT/A		EP							
11	EPIC	58	DF	0.435	LB	A/A	PRE		0	90	0	77	0	75
11	CLARITY	4	E	0.5	LB	A/A	EP							
11	LIQUID N		L	2.5	QT/A		EP							
LSD (P=.05)									0.0	4.6	0.0	6.5	0.0	8.7
Standard Deviation									0.0	2.7	0.0	3.8	0.0	5.1
CV									0.0	2.97	0.0	5.0	0.0	6.92

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CORN PREEMGEENCE III

Trial ID: C0034                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-28-00  
Country: USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT SETARIA FABERI HERRM.	

Crop 1: ZEAMX    FIELD CORN                      Variety: GARST 8541IT  
Planting Date: 04-28-00                      Planting Method: ROW  
Rate: 28000    S/A                      Depth: 1.25    IN  
Row Spacing: 30    IN                      Seed Bed: MEDIUM  
Soil Temperature: 66    F    Soil Moisture: NORMAL                      Emergence Date: 05-10-00

**SITE AND DESIGN**

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**

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.2                      Unit: MI

**APPLICATION DESCRIPTION**

	A	B
Application Date:	04-28-00	05-24-00
Time of Day:	1:00 PM	2:00 PM



Application Method:	ATV	ATV
Application Timing:	PRE	EP
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	65 F	72 F
% Relative Humidity:	70	75
Wind Velocity, Unit:	3 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	58 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	0	10

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX EP
Height, Unit:		12 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA EP
Stage Scale:		3 LF
Density, Unit:		4 IN

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	ATV	ATV
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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	25 GPA	25 GPA
Propellant:	CO2	CO2

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CORN POSTMERGENCE

Trial ID: C0003  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	SETFA			CHEAL			XANST			SETFA			CHEAL			XANST		
	ZEAMX	ZEAMX		ZEAMX	ZEAMX		ZEAMX	ZEAMX		ZEAMX	ZEAMX		ZEAMX	ZEAMX		ZEAMX	ZEAMX	
	INJURY	INJURY	CONTROL	INJURY	INJURY	CONTROL	INJURY	INJURY	CONTROL	INJURY	INJURY	CONTROL	INJURY	INJURY	CONTROL	INJURY	INJURY	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg													
1 AXIOM	68 DF		0.77 LB	A/A PRE		0	0	88	92	92	0	87	92	90	0	87	92	88
1 DISTINCT	70 WG		0.263 LB	A/A 6"C														
1 SPREADER HF			0.25 %	V/V 6"C														
1 LIQUID N	L		1.25 QT/A	6"C														
2 AXIOM	68 DF		0.77 LB	A/A PRE		0	0	80	65	62	0	75	63	68	0	75	63	68
2 HORNET	85.6 WG		0.128 LB	A/A 18"C														
2 SPREADER HF			0.25 %	V/V 18"C														
2 LIQUID N	L		2.5 QT/A	18"C														
3 AXIOM	68 DF		0.77 LB	A/A PRE		0	0	98	93	95	0	92	93	95	0	90	93	92
3 AATREX	4 F		1.8 LB	A/A 6"C														
3 COC	L		1 QT/A	6"C														
4 EPIC	58 DF		0.435 LB	A/A PRE		0	0	88	95	95	0	87	95	95	0	88	95	92
4 AATREX	4 F		1.8 LB	A/A 6"C														
4 COC	L		1 QT/A	6"C														
5 AXIOM AT	75 WG		1.5 LB	A/A PRE		0	0	97	93	85	0	93	93	85	0	92	92	85
5 AXIOM AT	75 WG		0.75 LB	A/A 2LC														
5 SPREADER HF			0.25 %	V/V 2LC														
6 DUAL II MAGNUM	7.6 EC		1.43 LB	A/A PRE		10	5	67	68	85	0	65	67	83	0	65	67	83
6 AIM	40 DF		0.008 LB	A/A MP														
6 SPREADER HF			0.25 %	V/V MP														
7 DUAL II MAGNUM	7.6 EC		1.43 LB	A/A PRE		15	8	77	92	87	0	78	90	85	0	78	90	85
7 AIM	40 DF		0.008 LB	A/A MP														
7 AATREX	4 F		0.75 LB	A/A MP														
7 SPREADER HF			0.25 %	V/V MP														
8 DUAL II MAGNUM	7.6 EC		1.43 LB	A/A PRE		7	5	92	90	90	0	88	90	90	0	88	90	90
8 AIM	40 DF		0.008 LB	A/A MP														
8 LIGHTNING	70 DG		0.056 LB	A/A MP														
8 SPREADER HF			0.25 %	V/V MP														

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA		CHEAL		XANST		SETFA		CHEAL		XANST			
							ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT		
							1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
							P	P	P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg														
9	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	8	5	92	90	92	0	98	90	92	0	87	90	92	
9	AIM	40	DF	0.008	LB A/A	MP														
9	DISTINCT	70	WG	0.26	LB A/A	MP														
9	SPREADER HF			0.25	% V/V	MP														
10	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	8	5	82	85	85	0	80	85	85	0	80	85	85	
10	AIM	40	DF	0.008	LB A/A	MP														
10	SPIRIT	57	WG	0.036	LB A/A	MP														
10	SPREADER HF			0.25	% V/V	MP														
11	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	5	0	80	83	95	0	80	83	95	0	80	83	92	
11	AIM	40	DF	0.008	LB A/A	MP														
11	EXCEED	57	DF	0.036	LB A/A	MP														
11	SPREADER HF			0.25	% V/V	MP														
12	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	8	5	75	75	90	0	73	75	90	0	73	75	88	
12	AIM	40	DF	0.008	LB A/A	MP														
12	HORNET	85.6	WG	0.128	LB A/A	MP														
12	SPREADER HF			0.25	% V/V	MP														
13	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	5	5	95	90	85	0	90	90	88	0	90	90	88	
13	AIM	40	DF	0.008	LB A/A	MP														
13	BASIS GOLD	89.5	DF	0.78	LB A/A	MP														
13	SPREADER HF			0.25	% V/V	MP														
14	DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	5	5	93	83	90	0	92	83	90	0	90	83	90	
14	AIM	40	DF	0.008	LB A/A	MP														
14	ACCENT GOLD	75	DF	0.15	LB A/A	MP														
14	SPREADER HF			0.25	% V/V	MP														
15	BASIS GOLD	89.5	DF	0.78	LB A/A	MP	0	0	70	70	88	0	70	73	88	0	70	73	88	
15	DISTINCT	70	WG	0.09	LB A/A	MP														
15	LIQUID N		L	2.5	QT/A	MP														
16	BASIS GOLD	89.5	DF	0.78	LB A/A	MP	0	0	95	93	82	0	88	93	85	0	87	92	85	
16	AATREX	4	F	0.5	LB A/A	MP														
16	COC		L	1	QT/A	MP														
17	BASIS GOLD	89.5	DF	0.78	LB A/A	MP	0	0	80	95	95	0	80	95	95	0	80	93	93	
17	EXCEED	57	DF	0.009	LB A/A	MP														
17	COC		L	1	QT/A	MP														

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	XANST	SETFA	CHEAL	XANST	SETFA	CHEAL	XANST	
							ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT		
18 ACCENT	75 WG	0.031 LB A/A	MP	0	0	73	63	80	0	72	63	80	0	72	63	80
18 DISTINCT	70 WG	0.09 LB A/A	MP													
18 SPREADER HF		0.25 % V/V	MP													
19 ACCENT	75 WG	0.031 LB A/A	MP	0	0	67	72	72	0	70	72	80	0	70	72	80
19 DISTINCT	70 WG	0.18 LB A/A	MP													
19 SPREADER HF		0.25 % V/V	MP													
LSD (P=.05)				2.1	1.1	6.2	4.3	6.1	0.0	6.9	5.3	5.3	0.0	6.5	5.5	5.8
Standard Deviation				1.3	0.7	3.7	2.6	3.7	0.0	4.2	3.2	3.2	0.0	4.0	3.3	3.5
CV				34.38	29.04	4.48	3.1	4.25	0.0	5.13	3.85	3.71	0.0	4.87	3.99	4.09

## CORN POSTMERGENCE

Trial ID: C0003  
Location: LEXINGTON, KY.Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON  
State/Prov.: KY  
Postal Code: 40546  
Country: USA  
Trial Status: COMPLETE  
Initiation Date: 04-26-00

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

Crop 1: ZEAMX CORN, FIELD  
Planting Date: 04-26-00  
Rate: 28000 S/A  
Row Spacing: 30 IN  
Soil Temperature: 59 F  
Variety: GARST 8541 IT  
Planting Method: ROW  
Depth: 1.5 IN  
Seed Bed: MEDIUM  
Soil Moisture: NORMAL  
Emergence Date: 05-05-00

## SITE AND DESIGN

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

## SOIL DESCRIPTION

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP  
Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	04-26-00	05-10-00	05-16-00	05-22-00		
Time of Day:	10:00	1:00	11:00	11:00		

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Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2LC	6C	MP
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	56 F	62 F	60 F	70 F
% Relative Humidity:	70	69	65	83
Wind Velocity, Unit:	3 MPH	5 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	58 F	68 F	68 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	25	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX 2 LC	ZEAMX 6C	ZEAMX MP
Stage Scale:		2 LF	4 LF	5 LF
Height, Unit:		3 IN	6 IN	9 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA	SETFA 2LC	SETFA 6C	SETFA MP
Stage Scale:		2 LF	4 LF	6 LF
Density, Unit:		2 IN	3 IN	5 IN
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	7 LF	11 LF
Density, Unit:		2 IN	4 IN	5 IN
Weed 3 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		3 LF	5 LF	6 LF
Density, Unit:		1.5 IN	3.5 IN	5 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 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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CORN POSTEMERGENCE II

Trial ID: C0014  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H.SLACK  
Investigator: Charles Slack

Weed Code	ZEAMX	ZEAMX	SETFA	CHEAL	IPOSS	AMBTR	SETFA	CHEAL	IPOSS	AMBTR
Crop Code	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval										
ARM Action Codes	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	Form Conc	Form Rate	Rate Unit	Grow Stg											
1	AE F130360	WG	70	0.055 LB	A/A	MP	3	0	90	82	88	87	0	90	82	85	87
	1 MSO	L		0.75 QT/A		MP											
	1 LIQUID N	L		2 QT/A		MP											
2	ACCENT	WG	75	0.031 LB	A/A	MP	3	0	88	63	83	77	0	88	63	83	77
	2 MSO	L		0.75 QT/A		MP											
	2 LIQUID N	L		2 QT/A		MP											
3	AE F130360	WG	62	0.048 LB	A/A	MP	2	0	93	73	83	93	0	90	73	83	93
	3 MSO	L		0.75 QT/A		MP											
	3 LIQUID N	L		2 QT/A		MP											
4	AE F130360	WG	62	0.048 LB	A/A	MP	3	0	95	68	83	85	0	90	68	83	85
	4 MSO	L		0.75 QT/A		MP											
5	AE F130360	WG	62	0.048 LB	A/A	MP	0	0	50	23	73	73	0	50	23	73	73
	5 SPREADER HF			0.5 % V/V		MP											
	5 LIQUID N	L		2 QT/A		MP											
6	AE F130360	WG	62	0.048 LB	A/A	MP	0	0	40	20	73	77	0	40	20	73	77
	6 COC	L		0.75 QT/A		MP											
	6 LIQUID N	L		2 QT/A		MP											
7	BALANCE	SC	4	0.07 LB	A/A	PRE	3	0	82	95	73	95	0	82	95	73	95
	7 AATREX	F		1 LB	A/A	PRE											
	7 AE F130360	WG	70	0.055 LB	A/A	LP											
	7 MSO	L		0.75 QT/A		LP											
	7 LIQUID N	L		2 QT/A		LP											
8	BALANCE	SC	4	0.07 LB	A/A	PRE	2	0	87	88	75	95	0	87	88	75	93
	8 AE F130360	WG	70	0.055 LB	A/A	LP											
	8 MSO	L		0.75 QT/A		LP											
	8 LIQUID N	L		2 QT/A		LP											
9	AE F130360	WG	70	0.055 LB	A/A	MP	5	3	77	92	90	93	0	82	95	88	92
	9 DISTINCT	WG	70	0.256 LB	A/A	MP											
	9 MSO	L		0.75 QT/A		MP											
	9 LIQUID N	L		2 QT/A		MP											

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	IPOSS	AMBTR	SETFA	CHEAL	IPOSS	AMBTR			
							ZEAMX INJURY PERCENT	ZEAMX INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	ZEAMX INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
							2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 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	Unit	Grow Stg											
10	AE F130360	62	WG	0.048	LB A/A	MP	5	0	87	95	88	95	0	87	95	87	95
10	DISTINCT	70	WG	0.256	LB A/A	MP											
10	MSO	L		0.75	QT/A	MP											
10	LIQUID N	L		2	QT/A	MP											
11	ACCENT	75	WG	0.031	LB A/A	MP	0	0	87	93	92	95	0	85	85	85	87
11	DISTINCT	70	WG	0.256	LB A/A	MP											
11	COC	L		0.75	QT/A	MP											
11	LIQUID N	L		2	QT/A	MP											
12	BASIS GOLD	89.5	DF	0.78	LB A/A	MP	0	0	83	92	87	90	0	87	93	85	93
12	COC	L		0.75	QT/A	MP											
12	LIQUID N	L		2	QT/A	MP											
13	ACCENT GOLD	83.8	DF	0.15	LB A/A	MP	0	0	92	62	85	83	0	87	70	82	87
13	COC	L		0.75	QT/A	MP											
13	LIQUID N	L		2	QT/A	MP											
LSD (P=.05)							4.0	2.7	10.0	15.6	5.8	5.6	0.0	10.7	19.9	5.0	8.5
Standard Deviation							2.4	1.6	5.9	9.2	3.4	3.3	0.0	6.3	11.8	3.0	5.1
CV							114.9	624.5	7.33	12.69	4.15	3.8	0.0	7.89	16.16	3.67	5.81



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

## CORN POSTEMERGENCE II

Trial ID: C0014                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-26-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: ZEAMX CORN, FIELD                      Variety: GARST 8541 IT  
Planting Date: 04-26-00                      Planting Method: ROW  
Rate: 28000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 59 F                      Soil Moisture: NORMAL                      Emergence Date: 05-05-00

## SITE AND DESIGN

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

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 1.5                      Unit: MI

## APPLICATION DESCRIPTION

	A	B	C
Application Date:	04-26-00	05-22-00	05-26-00

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Time of Day:	2:00	1:00	11:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP
Applic. Placement:	BROSOI	BROFOI	BROFOI
Air Temp., Unit:	58 F	68 F	65 F
% Relative Humidity:	55	65	60
Wind Velocity, Unit:	3 MPH	3 MPH	4 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	56 F	64 F	63 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP	ZEAMX LP
Stage Scale:		5 LF	7 LF
Height, Unit:		10 IN	15 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP
Stage Scale:		3 LF	5 LF
Density, Unit:		4 IN	7 IN
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:		6 LF	12 LF
Density, Unit:		3 IN	6 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS
Stage Scale:		4 LF	4 LF
Density, Unit:		2 IN	5 IN
Weed 4 Code, Stage:	AMBTR	AMBTR	AMBTR
Stage Scale:		3 LF	6 LF
Density, Unit:		4 IN	6 IN

## APPLICATION EQUIPMENT

	A	B	C
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	20 IN	20 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 III

Trial ID: C0015  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	ZEAMX	SETFA	AMBTR	CHEAL	XANST	ZEAMX	SETFA	AMBTR	CHEAL	XANST
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Trt-Eval Interval										
ARM Action Codes	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	Unit	Rate	Unit	Grow Stg	0	95	95	95	95	0	90	92	87	88
1	AATREX	4	F	1.5	LB	A/A	PRE		0	95	95	95	95	0	90	92	87	88
1	LIGHTNING	70	DG	0.056	LB	A/A	MP											
1	DISTINCT	70	WG	0.175	LB	A/A	MP											
1	COC		L		1	QT/A	MP											
1	LIQUID N		L		1	QT/A	MP											
2	AATREX	4	F	1.5	LB	A/A	PRE		0	92	95	95	95	0	87	85	85	87
2	LIGHTNING	70	DG	0.056	LB	A/A	MP											
2	DISTINCT	70	WG	0.175	LB	A/A	MP											
2	SPREADER HF			0.25	%	V/V	MP											
2	LIQUID N		L		1	QT/A	MP											
3	AATREX	4	F	1.5	LB	A/A	PRE		0	90	95	95	95	0	90	88	90	88
3	LIGHTNING	70	DG	0.056	LB	A/A	MP											
3	CLARITY	4	E	0.125	LB	A/A	MP											
3	SPREADER HF			0.25	%	V/V	MP											
3	LIQUID N		L		1	QT/A	MP											
4	AATREX	4	F	1.5	LB	A/A	PRE		0	88	93	93	95	0	87	85	88	88
4	LIGHTNING	70	DG	0.056	LB	A/A	MP											
4	AIM	40	DF	0.008	LB	A/A	MP											
4	SPREADER HF			0.25	%	V/V	MP											
4	LIQUID N		L		1	QT/A	MP											
5	AATREX	4	F	1.5	LB	A/A	PRE		0	92	83	88	92	0	87	77	83	88
5	PROWL	3.3	EC	1.05	LB	A/A	MP											
5	ACCENT	75	WG	0.032	LB	A/A	MP											
5	COC		L		1	QT/A	MP											
5	LIQUID N		L		1	QT/A	MP											
6	PROWL	3.3	EC	1.05	LB	A/A	PRE		0	92	82	87	92	0	88	73	83	88
6	BASIS GOLD	89.5	DF	0.78	LB	A/A	MP											
6	COC		L		1	QT/A	MP											
6	LIQUID N		L		2	QT/A	MP											
7	PROWL	3.3	EC	1.05	LB	A/A	PRE		0	87	57	73	85	0	90	57	67	82
7	AATREX	4	F	1.5	LB	A/A	PRE											
7	BALANCE	4	SC	0.047	LB	A/A	PRE											

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST		
							ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
						INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	
						PERCENT	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	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	Unit	Grow Stg										
8	AATREX	4	F	1.5	LB A/A	PRE	0	93	95	95	95	0	92	87	87	88
8	LIGHTNING	70	DG	0.056	LB A/A	MP										
8	ZA1296	4	SC	0.063	LB A/A	MP										
8	COC	L		1	QT/A	MP										
8	LIQUID N	L		1	QT/A	MP										
9	LIGHTNING	70	DG	0.056	LB A/A	MP	0	88	95	95	95	0	85	85	83	87
9	ZA1296	4	SC	0.063	LB A/A	MP										
9	COC	L		1	QT/A	MP										
9	LIQUID N	L		1	QT/A	MP										
10	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	95	93	93	95	0	88	88	85	90
10	LIGHTNING	70	DG	0.056	LB A/A	MP										
10	COC	L		1	QT/A	MP										
10	LIQUID N	L		1	QT/A	MP										
11	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	95	95	95	95	0	90	85	88	90
11	LIGHTNING	70	DG	0.056	LB A/A	MP										
11	AATREX	4	F	0.5	LB A/A	MP										
11	COC	L		1	QT/A	MP										
11	LIQUID N	L		1	QT/A	MP										
12	AATREX	4	F	1.5	LB A/A	PRE	0	95	95	95	95	0	88	90	85	88
12	LIGHTNING	70	DG	0.056	LB A/A	MP										
12	MARKSMAN	3.2	F	0.6	LB A/A	MP										
12	COC	L		1	QT/A	MP										
12	LIQUID N	L		1	QT/A	MP										
13	AATREX	4	F	1.6	LB A/A	PRE	0	95	93	95	95	0	92	83	88	87
13	LIGHTNING	70	DG	0.056	LB A/A	MP										
13	COC	L		1	QT/A	MP										
13	LIQUID N	L		1	QT/A	MP										
LSD (P=.05)				0.0			0.0	6.4	7.9	5.8	1.8	0.0	5.6	13.4	8.8	5.5
Standard Deviation				0.0			0.0	3.8	4.7	3.4	1.1	0.0	3.3	8.0	5.2	3.3
CV				0.0			0.0	4.1	5.23	3.74	1.16	0.0	3.73	9.63	6.19	3.73

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## CORN POSTEMERGENCE III

Trial ID: C0015  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
1	AATREX	4	F	1.5	LB A/A	PRE	0	90	88	90	88
1	LIGHTNING	70	DG	0.056	LB A/A	MP					
1	DISTINCT	70	WG	0.175	LB A/A	MP					
1	COC		L	1	QT/A	MP					
1	LIQUID N		L	1	QT/A	MP					
2	AATREX	4	F	1.5	LB A/A	PRE	0	90	90	90	85
2	LIGHTNING	70	DG	0.056	LB A/A	MP					
2	DISTINCT	70	WG	0.175	LB A/A	MP					
2	SPREADER HF			0.25	% V/V	MP					
2	LIQUID N		L	1	QT/A	MP					
3	AATREX	4	F	1.5	LB A/A	PRE	0	87	90	90	88
3	LIGHTNING	70	DG	0.056	LB A/A	MP					
3	CLARITY	4	E	0.125	LB A/A	MP					
3	SPREADER HF			0.25	% V/V	MP					
3	LIQUID N		L	1	QT/A	MP					
4	AATREX	4	F	1.5	LB A/A	PRE	0	85	90	90	87
4	LIGHTNING	70	DG	0.056	LB A/A	MP					
4	AIM	40	DF	0.008	LB A/A	MP					
4	SPREADER HF			0.25	% V/V	MP					
4	LIQUID N		L	1	QT/A	MP					
5	AATREX	4	F	1.5	LB A/A	PRE	0	90	78	88	85
5	PROWL	3.3	EC	1.05	LB A/A	MP					
5	ACCENT	75	WG	0.032	LB A/A	MP					
5	COC		L	1	QT/A	MP					
5	LIQUID N		L	1	QT/A	MP					
6	PROWL	3.3	EC	1.05	LB A/A	PRE	0	90	82	83	87
6	BASIS GOLD	89.5	DF	0.78	LB A/A	MP					
6	COC		L	1	QT/A	MP					
6	LIQUID N		L	2	QT/A	MP					
7	PROWL	3.3	EC	1.05	LB A/A	PRE	0	87	57	73	80
7	AATREX	4	F	1.5	LB A/A	PRE					
7	BALANCE	4	SC	0.047	LB A/A	PRE					

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Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
8	AATREX	4	F	1.5	LB A/A	PRE	0	90	90	88	83
8	LIGHTNING	70	DG	0.056	LB A/A	MP					
8	ZAI296	4	SC	0.063	LB A/A	MP					
8	COC		L	1	QT/A	MP					
8	LIQUID N		L	1	QT/A	MP					
9	LIGHTNING	70	DG	0.056	LB A/A	MP	0	87	90	90	87
9	ZAI296	4	SC	0.063	LB A/A	MP					
9	COC		L	1	QT/A	MP					
9	LIQUID N		L	1	QT/A	MP					
10	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	90	90	90	87
10	LIGHTNING	70	DG	0.056	LB A/A	MP					
10	COC		L	1	QT/A	MP					
10	LIQUID N		L	1	QT/A	MP					
11	GUARDSMAN	5	E	2.8	LB A/A	PRE	0	90	90	90	88
11	LIGHTNING	70	DG	0.056	LB A/A	MP					
11	AATREX	4	F	0.5	LB A/A	MP					
11	COC		L	1	QT/A	MP					
11	LIQUID N		L	1	QT/A	MP					
12	AATREX	4	F	1.5	LB A/A	PRE	0	90	90	90	88
12	LIGHTNING	70	DG	0.056	LB A/A	MP					
12	MARKSMAN	3.2	F	0.6	LB A/A	MP					
12	COC		L	1	QT/A	MP					
12	LIQUID N		L	1	QT/A	MP					
13	AATREX	4	F	1.6	LB A/A	PRE	0	90	87	92	88
13	LIGHTNING	70	DG	0.056	LB A/A	MP					
13	COC		L	1	QT/A	MP					
13	LIQUID N		L	1	QT/A	MP					

LSD (P=.05)	0.0	6.0	7.3	6.7	6.0
Standard Deviation	0.0	3.5	4.3	4.0	3.6
CV	0.0	3.98	5.05	4.51	4.15

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Weed Science Field Research

## CORN POSTEMERGENCE III

Trial ID: C0015  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Postal Code: 40511  
Investigator: Charles Slack

## TRIAL LOCATION

City: LEXINGTON  
State/Prov.: KY  
Postal Code: 40546

Trial Status: COMPLETE  
Initiation Date: 04-26-00

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA GIANT FOXTAIL	SETARIA FABERII HERM.
2.	AMBTR GIANT RAGWEED	AMBROSIA TRIFIDA L.
3.	CHEAL LAMBSQUARTERS	CHENIPODIUM ALBUM L.
4.	XANST COMMON COCKLEBUR	XANTHIUM STRUMARIUM

Crop 1: ZEAMX FIELD CORN  
Planting Date: 04-26-00  
Rate: 28000 S/A  
Row Spacing: 30 IN  
Soil Temperature: 58 F

Variety: GARST 8541IT  
Planting Method: ROW  
Depth: 1.5 IN  
Seed Bed: MEDIUM  
Soil Moisture: NORMAL  
Emergence Date: 05-04-00

## SITE AND DESIGN

Plot Width, Unit: 5 FT  
Site Type: FIELD  
Tillage Type: CONVENTIONAL

Plot Length, Unit: 44 FT  
Reps: 3  
Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

% Sand: 6	% OM: 2.5	Texture: SILT LOAM
% Silt: 64	pH: 6.4	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 1.4 Unit: MI

## APPLICATION DESCRIPTION

	A	B
Application Date:	04-26-00	05-22-00
Time of Day:	10:30	2:00

Application Method:	SPRAY.	SPRAY
Application Timing:	PRE	MP
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	56 F	67 F
% Relative Humidity:	65	75
Wind Velocity, Unit:	3 MPH	2 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	58 F	62 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX 4 LF
Height, Unit:		7 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA	SETFA MP
Stage Scale:		2 LF
Density, Unit:		2 IN
Weed 2 Code, Stage:	AMBTR	AMBTR
Stage Scale:		4 LF
Density, Unit:		3.5 IN
Weed 3 Code, Stage:	CHEAL	CHEAL
Stage Scale:		4 LF
Density, Unit:		3.5 IN
Weed 4 Code, Stage:	XANST	XANST
Stage Scale:		4 LF
Density, Unit:		3.5 IN

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	ATV	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:	20 IN	20 IN
Ground Speed, Unit:	3.5 MPH	3.5 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: C0016  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H.SLACK  
Investigator: Charles Slack

Weed Code	SETFA	XANST	ABUTH	CHEAL	IPOSS	SETFA	XANST	ABUTH	CHEAL	IPOSS
Crop Code	ZEAMX					ZEAMX				
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
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	95	95	95	95	95	0	93	93	93	93	93
1	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	95	95	95	95	95	0	93	93	93	93	93
1	MARKSMAN	3.2	F	1.4	LB A/A	3"C												
1	LIQUID N		L	2.5	QT/A	3"C												
2	DUAL II MAGNUM	7.6	EC	1.24	LB A/A	PRE	0	95	92	93	90	87	0	93	90	92	88	83
2	NORTHSTAR	47.4	WG	0.148	LB A/A	6"C												
2	SPREADER HF			0.25	% V/V	6"C												
2	LIQUID N		L	2.5	QT/A	6"C												
3	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	93	95	95	93	87	0	92	93	93	92	83
3	CLARITY	4	E	0.5	LB A/A	3"C												
3	LIQUID N		L	2.5	QT/A	3"C												
4	DUAL II MAGNUM	7.6	EC	1.24	LB A/A	PRE	0	92	93	93	80	82	0	90	92	92	78	78
4	SPIRIT	57	WG	0.036	LB A/A	6"C												
4	SPREADER HF			0.25	% V/V	6"C												
4	LIQUID N		L	2.5	QT/A	6"C												
5	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	95	95	95	95	95	0	93	93	93	93	92
5	DISTINCT	70	WG	0.263	LB A/A	6"C												
5	SPREADER HF			0.25	% V/V	6"C												
5	LIQUID N		L	1.25	QT/A	6"C												
6	TOPNOTCH	3.2	CS	1.6	LB A/A	PRE	0	93	92	93	78	78	0	92	90	92	77	77
6	HORNET	85.6	WG	0.128	LB A/A	6"C												
6	SPREADER HF			0.25	% V/V	6"C												
7	TOPNOTCH	3.2	CS	1.6	LB A/A	PRE	0	90	95	95	95	90	0	88	93	93	93	89
7	ZA1296	4	SC	0.094	LB A/A	6"C												
7	COC		L	1	QT/A	6"C												
7	LIQUID N		L	1	QT/A	6"C												
8	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	93	92	95	95	88	0	93	90	93	93	87
8	CELEBRITY PLUS	70	WG	0.21	LB A/A	6"C												
8	SPREADER HF			0.25	% V/V	6"C												
8	LIQUID N		L	1	QT/A	6"C												

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

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	ABUTH	CHEAL	IPOSS	SETFA	XANST	ABUTH	CHEAL	IPOSS	
							ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
							INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
							PERCENT	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	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	Unit	Grow Stg												
9	LEADOFF	5	CS	0.94	LB A/A	PRE	0	95	80	95	95	88	0	93	80	93	93	87
9	BASIS GOLD	89.5	DF	0.78	LB A/A	6"C												
9	COC		L	1	QT/A	6"C												
9	LIQUID N		L	2.5	QT/A	6"C												
10	GUARDSMAN	5	E	0.94	LB A/A	PRE	0	95	95	95	93	88	0	93	93	93	93	87
10	CELEBRITY PLUS	70	WG	0.21	LB A/A	6"C												
10	SPREADER HF			0.25	% V/V	6"C												
10	LIQUID N		L	2.5	QT/A	6"C												
11	AATREX	4	F	1.5	LB A/A	PRE	0	88	95	90	95	92	0	88	93	90	93	89
11	CELEBRITY PLUS	70	WG	0.21	LB A/A	6"C												
11	SPREADER HF			0.25	% V/V	6"C												
11	LIQUID N		L	2.5	QT/A	6"C												
12	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	95	95	93	93	0	93	93	93	92	92
12	MARKSMAN	3.2	F	1.4	LB A/A	6"C												
12	LIQUID N		L	2.5	QT/A	6"C												
13	FRONTIER	6	E	1.2	LB A/A	PRE	0	92	95	95	92	90	0	92	93	93	90	88
13	CLARITY	4	E	0.5	LB A/A	6"C												
13	LIQUID N		L	2.5	QT/A	6"C												
14	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	95	95	92	88	0	93	93	93	90	87
14	DISTINCT	70	WG	0.263	LB A/A	6"C												
14	SPREADER HF			0.25	% V/V	6"C												
14	LIQUID N		L	1.25	QT/A	6"C												
15	FRONTIER	6	E	1.2	LB A/A	PRE	0	93	93	92	83	88	0	90	90	90	82	85
15	SPIRIT	57	WG	0.036	LB A/A	6"C												
15	SPREADER HF			0.25	% V/V	6"C												
15	LIQUID N		L	2.5	QT/A	6"C												
16	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	95	92	90	88	0	93	93	90	88	87
16	NORTHSTAR	47.4	WG	0.148	LB A/A	6"C												
16	SPREADER HF			0.25	% V/V	6"C												
16	LIQUID N		L	2.5	QT/A	6"C												
17	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	93	92	77	82	0	93	92	90	75	80
17	HORNET	85.6	WG	0.128	LB A/A	6"C												
17	SPREADER HF			0.25	% V/V	6"C												
17	LIQUID N		L	2.5	QT/A	6"C												

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	ABUTH	CHEAL	IPOSS	SETFA	XANST	ABUTH	CHEAL	IPOSS			
							ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
							INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT		
							2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
							P	P	P	P	P	P	P	P	P	P	P	P	
							0	0	0	0	0	0	0	0	0	0	0	0	
Trt No.	Treatment Name	Form	Form Conc	Rate	Unit	Grow Stg													
18	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	88	93	93	90	0	93	88	93	92	88	
18	BASIS GOLD	89.5	DF	0.78	LB A/A	6"C													
18	COC		L	1	QT/A	6"C													
18	LIQUID N		L	2.5	QT/A	6"C													
19	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	95	93	92	92	0	93	93	92	90	90	
19	DISTINCT	70	WG	0.175	LB A/A	12"C													
19	SPREADER HF			0.25	% V/V	12"C													
19	LIQUID N		L	1.25	QT/A	12"C													
20	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	92	93	73	78	0	92	88	90	73	75	
20	HORNET	85.6	WG	0.128	LB A/A	12"C													
20	SPREADER HF			0.25	% V/V	12"C													
20	LIQUID N		L	2.5	QT/A	12"C													
21	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	92	90	77	83	0	93	90	88	77	80	
21	SPIRIT	57	WG	0.036	LB A/A	12"C													
21	SPREADER HF			0.25	% V/V	12"C													
21	LIQUID N		L	2.5	QT/A	12"C													
22	FRONTIER	6	E	1.2	LB A/A	PRE	0	95	95	93	88	90	0	93	93	93	88	88	
22	NORTHSTAR	47.4	WG	0.148	LB A/A	12"C													
22	SPREADER HF			0.25	% V/V	12"C													
22	LIQUID N		L	2.5	QT/A	12"C													
LSD (P=.05)							0.0	4.0	4.4	4.5	5.2	6.7	0.0	3.9	5.3	4.1	4.7	7.1	
Standard Deviation							0.0	2.4	2.7	2.7	3.1	4.1	0.0	2.4	3.2	2.5	2.9	4.3	
CV							0.0	2.6	2.87	2.93	3.53	4.62	0.0	2.59	3.51	2.72	3.27	5.03	

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CORN POSTEMERGENCE IV

Trial ID: C0016  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H.SLACK  
Investigator: Charles Slack

Weed Code	SETFA	XANST	ABUTH	CHEAL	IPOSS
Crop Code	ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	93	93	93	93	93
1	OUTLOOK	6 EC		0.75 LB	A/A PRE		0	93	93	93	93	93
1	MARKSMAN	3.2 F		1.4 LB	A/A 3"C							
1	LIQUID N	L		2.5 QT/A	3"C							
2	DUAL II MAGNUM	7.6 EC		1.24 LB	A/A PRE		0	93	90	92	88	83
2	NORTHSTAR	47.4 WG		0.148 LB	A/A 6"C							
2	SPREADER HF			0.25 %	V/V 6"C							
2	LIQUID N	L		2.5 QT/A	6"C							
3	OUTLOOK	6 EC		0.75 LB	A/A PRE		0	92	93	93	92	83
3	CLARITY	4 E		0.5 LB	A/A 3"C							
3	LIQUID N	L		2.5 QT/A	3"C							
4	DUAL II MAGNUM	7.6 EC		1.24 LB	A/A PRE		0	90	92	92	78	78
4	SPIRIT	57 WG		0.036 LB	A/A 6"C							
4	SPREADER HF			0.25 %	V/V 6"C							
4	LIQUID N	L		2.5 QT/A	6"C							
5	OUTLOOK	6 EC		0.75 LB	A/A PRE		0	93	93	93	93	92
5	DISTINCT	70 WG		0.263 LB	A/A 6"C							
5	SPREADER HF			0.25 %	V/V 6"C							
5	LIQUID N	L		1.25 QT/A	6"C							
6	TOPNOTCH	3.2 CS		1.6 LB	A/A PRE		0	92	90	92	77	77
6	HORNET	85.6 WG		0.128 LB	A/A 6"C							
6	SPREADER HF			0.25 %	V/V 6"C							
7	TOPNOTCH	3.2 CS		1.6 LB	A/A PRE		0	88	93	93	93	89
7	ZA1296	4 SC		0.094 LB	A/A 6"C							
7	COC	L		1 QT/A	6"C							
7	LIQUID N	L		1 QT/A	6"C							
8	OUTLOOK	6 EC		0.75 LB	A/A PRE		0	93	90	93	93	87
8	CELEBRITY PLUS	70 WG		0.21 LB	A/A 6"C							
8	SPREADER HF			0.25 %	V/V 6"C							
8	LIQUID N	L		1 QT/A	6"C							

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Weed Code	SETFA	XANST	ABUTH	CHEAL	IPOSS
Crop Code	ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
9 LEADOFF	5	CS	0.94	LB A/A	PRE	0	93	80	93	93	87
9 BASIS GOLD	89.5	DF	0.78	LB A/A	6"C						
9 COC		L	1	QT/A	6"C						
9 LIQUID N		L	2.5	QT/A	6"C						
10 GUARDSMAN	5	E	0.94	LB A/A	PRE	0	93	93	93	93	87
10 CELEBRITY PLUS	70	WG	0.21	LB A/A	6"C						
10 SPREADER HF			0.25	% V/V	6"C						
10 LIQUID N		L	2.5	QT/A	6"C						
11 AATREX	4	F	1.5	LB A/A	PRE	0	88	93	90	93	89
11 CELEBRITY PLUS	70	WG	0.21	LB A/A	6"C						
11 SPREADER HF			0.25	% V/V	6"C						
11 LIQUID N		L	2.5	QT/A	6"C						
12 FRONTIER	6	E	1.2	LB A/A	PRE	0	93	93	93	92	92
12 MARKSMAN	3.2	F	1.4	LB A/A	6"C						
12 LIQUID N		L	2.5	QT/A	6"C						
13 FRONTIER	6	E	1.2	LB A/A	PRE	0	92	93	93	90	88
13 CLARITY	4	E	0.5	LB A/A	6"C						
13 LIQUID N		L	2.5	QT/A	6"C						
14 FRONTIER	6	E	1.2	LB A/A	PRE	0	93	93	93	90	87
14 DISTINCT	70	WG	0.263	LB A/A	6"C						
14 SPREADER HF			0.25	% V/V	6"C						
14 LIQUID N		L	1.25	QT/A	6"C						
15 FRONTIER	6	E	1.2	LB A/A	PRE	0	90	90	90	82	85
15 SPIRIT	57	WG	0.036	LB A/A	6"C						
15 SPREADER HF			0.25	% V/V	6"C						
15 LIQUID N		L	2.5	QT/A	6"C						
16 FRONTIER	6	E	1.2	LB A/A	PRE	0	93	93	90	88	87
16 NORTHSTAR	47.4	WG	0.148	LB A/A	6"C						
16 SPREADER HF			0.25	% V/V	6"C						
16 LIQUID N		L	2.5	QT/A	6"C						
17 FRONTIER	6	E	1.2	LB A/A	PRE	0	93	92	90	75	80
17 HORNET	85.6	WG	0.128	LB A/A	6"C						
17 SPREADER HF			0.25	% V/V	6"C						
17 LIQUID N		L	2.5	QT/A	6"C						

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

Weed Code	SETFA	XANST	ABUTH	CHEAL	IPOSS
Crop Code	ZEAMX				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
18 FRONTIER	6 E		1.2 LB	A/A	PRE	0	93	88	93	92	88
18 BASIS GOLD	89.5 DF		0.78 LB	A/A	6"C						
18 COC	L		1 QT/A		6"C						
18 LIQUID N	L		2.5 QT/A		6"C						
19 FRONTIER	6 E		1.2 LB	A/A	PPE	0	93	93	92	90	90
19 DISTINCT	70 WG		0.175 LB	A/A	12"C						
19 SPREADER HF			0.25 %	V/V	12"C						
19 LIQUID N	L		1.25 QT/A		12"C						
20 FRONTIER	6 E		1.2 LB	A/A	PRE	0	92	88	90	73	75
20 HORNET	85.6 WG		0.128 LB	A/A	12"C						
20 SPREADER HF			0.25 %	V/V	12"C						
20 LIQUID N	L		2.5 QT/A		12"C						
21 FRONTIER	6 E		1.2 LB	A/A	PRE	0	93	90	88	77	80
21 SPIRIT	57 WG		0.036 LB	A/A	12"C						
21 SPREADER HF			0.25 %	V/V	12"C						
21 LIQUID N	L		2.5 QT/A		12"C						
22 FRONTIER	6 E		1.2 LB	A/A	PRE	0	93	93	93	88	88
22 NORTHSTAR	47.4 WG		0.148 LB	A/A	12"C						
22 SPREADER HF			0.25 %	V/V	12"C						
22 LIQUID N	L		2.5 QT/A		12"C						
LSD (P=.05)			0.0			0.0	3.9	5.3	4.1	4.7	7.1
Standard Deviation			0.0			0.0	2.4	3.2	2.5	2.9	4.3
CV			0.0			0.0	2.59	3.51	2.72	3.27	5.03

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

CORN POSTEMERGENCE IV

Trial ID: C0016                      Study Dir.: CHARLES H.SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA GIANT FOXTAIL	SETARIA FABERI
2.	XANST COMMON COCKLEBUR	XANTHIUM STRUMARIUM
3.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI
4.	CHEAL LAMBSQUARTERS	CHENOPODIUM ALBUM
5.	IPOSS MORNINGGLORY	IPOMOEA SP.

**Crop 1:** ZEAMX    FIELD CORN                      **Variety:** GARST 8541IT  
**Planting Date:** 04-26-00                      **Planting Method:** ROW  
**Rate:** 28000    S/A                      **Depth:** 1.5    IN  
**Row Spacing:** 30    IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 59    F    **Soil Moisture:** NORMAL                      **Emergence Date:** 05-05-00

**SITE AND DESIGN**

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

**SOIL DESCRIPTION**

**% Sand:** 6                      **% OM:** 2.7                      **Texture:** SILT LOAM  
**% Silt:** 64                      **pH:** 6.5                      **Soil Name:** MAJRY  
**% Clay:** 30                      **CEC:** 17                      **Fert. Level:** EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.5                      **Unit:** MI

**APPLICATION DESCRIPTION**

A                      B                      C                      D

Application Date:	04-26-00	05-10-00	05-16-00	05-24-00
Time of Day:	2:00 PM	10:00 AM	11:00 AM	2:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	3"C	6"C	12"C
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	56 F	62 F	60 F	70 F
% Relative Humidity:	70	69	60	70
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	58 F	68 F	68 F	70 F
Soil Moisture:	ADEQUATE	ADEQAUTE	ADEQUATE	INADEQUAT
% Cloud Cover:	10	20	20	10

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX	ZEAMX 2 LF	ZEAMX 4 LF	ZEAMX 6 LF
Height, Unit:		3 IN	6 IN	12 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA 3"C	SETFA 6"C	SETFA 12"C
Stage Scale:		2 LF	4 LF	6 LF
Density, Unit:		2 IN	3 IN	6 IN
Weed 2 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	4 LF	6 LF
Density, Unit:		1 IN	3 IN	5 IN
Weed 3 Code, Stage:	ABUTH	ABUTH	ABUTH	ABUTH
Stage Scale:		3 LF	4 LF	6 LF
Density, Unit:		2 IN	4 IN	6 IN
Weed 4 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	8 LF	10 LF
Density, Unit:		3 IN	6 IN	8 IN
Weed 5 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		2 LF	4 LF	8 LF
Density, Unit:		2 IN	4 IN	7 IN

**APPLICATION EQUIPMENT**

	A	B	C	D
Appl. Equipment:	ATV	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:	20 IN	20 IN	20 IN	20 IN



<b>Ground Speed, Unit:</b>	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH
<b>Carrier:</b>	WATER	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24 GPA	24 GPA	24 GPA	24 GPA
<b>Propellant:</b>	CO2	CO2	CO2	CO2

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

CORN POSTEMERGENCE V

Trial ID: C0017  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA		AMBTR		CHEAL		IPOSS			
							ZEAMX	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	ZEAMX	INJURY CONTROL	CONTROL	CONTROL
							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	
							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										
1	DUAL II MAGNUM	7.6	EC	1.6	LB A/A	PRE	0	93	87	72	82	0	93	85	72	75
1	NORTHSTAR	47.4	WG	0.148	LB A/A	MP										
1	SPREADER HF			0.25	% V/V	MP										
1	AMS	100	SG	2.5	LB A/A	MP										
2	DUAL II MAGNUM	7.6	EC	1.6	LB A/A	PRE	0	96	88	78	87	0	95	83	77	85
2	SPIRIT	57	WG	0.036	LB A/A	MP										
2	COC		L	1	QT/A	MP										
2	AMS	100	SG	2.5	LB A/A	MP										
3	BICEP LITE II MAGNUM	6	SL	2.25	LB A/A	PRE	0	93	88	96	87	0	92	85	95	87
3	NORTHSTAR	47.4	WG	0.148	LB A/A	MP										
3	SPREADER HF			0.25	% V/V	MP										
3	AMS	100	SG	2.5	LB A/A	MP										
4	BICEP LITE II MAGNUM	6	SL	2.25	LB A/A	PRE	0	99	90	99	92	0	95	90	95	92
4	SPIRIT	57	WG	0.036	LB A/A	MP										
4	COC		L	1	QT/A	MP										
4	AMS	100	SG	2.5	LB A/A	MP										
5	FRONTIER	6	E	1.4	LB A/A	PRE	0	95	95	87	85	0	93	90	87	80
5	CLARITY	4	E	0.25	LB A/A	MP										
5	SPREADER HF			0.25	% V/V	MP										
5	AMS	100	SG	2.5	LB A/A	MP										
6	FRONTIER	6	E	1.4	LB A/A	PRE	0	96	99	98	96	0	92	95	95	90
6	MARKSMAN	3.2	F	1.2	LB A/A	MP										
6	SPREADER HF			0.25	% V/V	MP										
6	AMS	100	SG	2.5	LB A/A	MP										
7	FRONTIER	6	E	1.4	LB A/A	PRE	0	95	93	91	88	0	95	93	90	85
7	DISTINCT	70	WG	0.262	LB A/A	MP										
7	SPREADER HF			0.25	% V/V	MP										
7	AMS	100	SG	2.5	LB A/A	MP										
8	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	96	75	88	88	0	95	73	88	83
8	HORNET	85.6	WG	0.128	LB A/A	MP										
8	SPREADER HF			0.25	% V/V	MP										
8	AMS	100	SG	2.5	LB A/A	MP										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	IPOSS	SETFA	AMBTR	CHEAL	IPOSS		
							ZEAMX INJURY CONTROL PERCENT 2 WEEK	ZEAMX INJURY CONTROL PERCENT 2 WEEK	ZEAMX INJURY CONTROL PERCENT 2 WEEK	ZEAMX INJURY CONTROL PERCENT 2 WEEK	ZEAMX INJURY CONTROL PERCENT 2 WEEK	ZEAMX INJURY CONTROL PERCENT 4 WEEK	ZEAMX INJURY CONTROL PERCENT 4 WEEK	ZEAMX INJURY CONTROL PERCENT 4 WEEK	ZEAMX INJURY CONTROL PERCENT 4 WEEK	ZEAMX INJURY CONTROL PERCENT 4 WEEK
							P 0	P 0	P 0	P 0	P 0	P 0	P 0	P 0		
Trt Treatment No. Name	Form Conc	Form Type	Rate	Form Unit	Rate	Grow Stg										
9 HARNESS XTRA	5.6	EC	2.8	LB A/A	PRE		0	98	96	98	88	0	95	95	95	82
9 PERMIT	75	DF	0.032	LB A/A	MP											
9 COC		L	1	QT/A	MP											
9 AMS	100	SG	2.5	LB A/A	MP											
10 LEADOFF	5	CS	1.25	LB A/A	PRE		0	96	65	93	87	0	95	65	93	85
10 ACCENT	75	WG	0.116	LB A/A	MP											
10 MATRIX	25	WG	0.116	LB A/A	MP											
10 HORNET	85.6	WG	0.128	LB A/A	MP											
10 SPREADER HF			0.25	% V/V	MP											
10 AMS	100	SG	2.5	LB A/A	MP											
11 LEADOFF	5	CS	1.25	LB A/A	PRE		0	98	90	99	98	0	92	88	95	95
11 BASIS GOLD	89.5	DF	0.79	LB A/A	MP											
11 COC		L	1	QT/A	MP											
11 AMS	100	SG	2.5	LB A/A	MP											
12 DEGREE	3.8	CS	2	LB A/A	PRE		0	95	95	70	92	0	92	95	70	83
12 PERMIT	75	DF	0.032	LB A/A	MP											
12 COC		L	1	QT/A	MP											
12 AMS	100	SG	2.5	LB A/A	MP											
13 AATREX	4	F	1.6	LB A/A	PRE		0	90	90	99	88	0	88	88	95	88
13 LIGHTNING	70	DG	0.056	LB A/A	MP											
13 COC		L	1	QT/A	MP											
13 LIQUID N		L	1	QT/A	MP											
14 CHECK UNTREATED							0	0	0	0	0	0	0	0	0	0
LSD (P=.05)							0.0	6.2	8.5	15.1	8.1	0.0	4.1	6.6	14.4	6.4
Standard Deviation							0.0	3.7	5.1	9.0	4.8	0.0	2.5	3.9	8.5	3.8
CV							0.0	4.16	6.16	10.78	5.85	0.0	2.85	4.9	10.44	4.79

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CORN POSTEMERGENCE V

Trial ID: C0017  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	IPOSS
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	AMBTR	CHEAL	IPOSS	
1	DUAL II MAGNUM	7.6	EC	1.6	LB A/A	PRE	0	93	85	72	.75
1	NORTHSTAR	47.4	WG	0.148	LB A/A	MP					
1	SPREADER HF			0.25	% V/V	MP					
1	AMS	100	SG	2.5	LB A/A	MP					
2	DUAL II MAGNUM	7.6	EC	1.6	LB A/A	PRE	0	95	83	77	85
2	SPIRIT	57	WG	0.036	LB A/A	MP					
2	COC		L	1	QT/A	MP					
2	AMS	100	SG	2.5	LB A/A	MP					
3	BICEP LITE II MAGNUM	6	SL	2.25	LB A/A	PRE	0	92	85	95	83
3	NORTHSTAR	47.4	WG	0.148	LB A/A	MP					
3	SPREADER HF			0.25	% V/V	MP					
3	AMS	100	SG	2.5	LB A/A	MP					
4	BICEP LITE II MAGNUM	6	SL	2.25	LB A/A	PRE	0	93	90	95	85
4	SPIRIT	57	WG	0.036	LB A/A	MP					
4	COC		L	1	QT/A	MP					
4	AMS	100	SG	2.5	LB A/A	MP					
5	FRONTIER	6	E	1.4	LB A/A	PRE	0	93	90	87	80
5	CLARITY	4	E	0.25	LB A/A	MP					
5	SPREADER HF			0.25	% V/V	MP					
5	AMS	100	SG	2.5	LB A/A	MP					
6	FRONTIER	6	E	1.4	LB A/A	PRE	0	92	95	95	90
6	MARKSMAN	3.2	F	1.2	LB A/A	MP					
6	SPREADER HF			0.25	% V/V	MP					
6	AMS	100	SG	2.5	LB A/A	MP					
7	FRONTIER	6	E	1.4	LB A/A	PRE	0	95	93	90	83
7	DISTINCT	70	WG	0.262	LB A/A	MP					
7	SPREADER HF			0.25	% V/V	MP					
7	AMS	100	SG	2.5	LB A/A	MP					
8	TOPNOTCH	3.2	CS	2	LB A/A	PRE	0	95	73	88	83
8	HORNET	85.6	WG	0.128	LB A/A	MP					
8	SPREADER HF			0.25	% V/V	MP					
8	AMS	100	SG	2.5	LB A/A	MP					

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Weed Code	SETFA	AMBTR	CHEAL	IPOSS
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	AMBTR	CHEAL	IPOSS
9	HARNES XTRA	5.6	EC	2.8	LB A/A	PRE	0	95	95	82
9	PERMIT	75	DF	0.032	LB A/A	MP				
9	COC		L	1	QT/A	MP				
9	AMS	100	SG	2.5	LB A/A	MP				
10	LEADOFF	5	CS	1.25	LB A/A	PRE	0	95	65	85
10	ACCENT	75	WG	0.116	LB A/A	MP				
10	MATRIX	25	WG	0.116	LB A/A	MP				
10	HORNET	85.6	WG	0.128	LB A/A	MP				
10	SPREADER HF			0.25	% V/V	MP				
10	AMS	100	SG	2.5	LB A/A	MP				
11	LEADOFF	5	CS	1.25	LB A/A	PRE	0	90	88	87
11	BASIS GOLD	89.5	DF	0.79	LB A/A	MP				
11	COC		L	1	QT/A	MP				
11	AMS	100	SG	2.5	LB A/A	MP				
12	DEGREE	3.8	CS	2	LB A/A	PRE	0	92	95	83
12	PERMIT	75	DF	0.032	LB A/A	MP				
12	COC		L	1	QT/A	MP				
12	AMS	100	SG	2.5	LB A/A	MP				
13	AATREX	4	F	1.6	LB A/A	PRE	0	88	88	88
13	LIGHTNING	70	DG	0.056	LB A/A	MP				
13	COC		L	1	QT/A	MP				
13	LIQUID N		L	1	QT/A	MP				
14	CHECK UNTREATED						0	0	0	0
LSD (P=.05)							0.0	4.0	6.6	5.7
Standard Deviation							0.0	2.4	3.9	3.4
CV							0.0	2.79	4.9	4.38

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

CORN POSTEMERGENCE V

Trial ID: C0017                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-26-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** GARST 8541 IT  
**Planting Date:** 04-26-00                      **Planting Method:** ROW  
**Rate:** 28000 S/A                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 59 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-05-00

**SITE AND DESIGN**

**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**

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.5                      **Unit:** MI

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	04-26-00	05-22-00

Time of Day:	1:30	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Applic. Placement:	BROSUI	BROFOI
Air Temp., Unit:	58 F	65 F
% Relative Humidity:	55	60
Wind Velocity, Unit:	3 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	58 F	68 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP
Stage Scale:		6 LF
Height, Unit:		18 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA MP
Stage Scale:		3 LF
Density, Unit:		4 IN
Weed 2 Code, Stage:	AMBTR	AMBTR
Stage Scale:		4 LF
Density, Unit:		5 IN
Weed 3 Code, Stage:	IPOSS	IPOSS
Stage Scale:		5 LF
Density, Unit:		4 IN
Weed 4 Code, Stage:	CHEAL	CHEAL
Stage Scale:		6 LF
Density, Unit:		4 IN

## APPLICATION EQUIPMENT

	A	B
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	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

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Weed Science Field Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C0020  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA					AMBTR					IPOSS					XANST					CHEAL				
	ZEAMX					ZEAMX					ZEAMX					ZEAMX					ZEAMX				
Crop Code	INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL				
Rating Data Type	PERCENT					PERCENT					PERCENT					PERCENT					PERCENT				
Rating Unit	2 WEEK					2 WEEK					2 WEEK					2 WEEK					2 WEEK				
Trt-Eval Interval	P					P					P					P					P				
ARM Action Codes	0					0					0					0					0				
# Subsamples, Dec.	0					0					0					0					0				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	0	65	79	78	69	96	0	53	70	74	69	94
1	BALANCE	4	SC	0.094	LB A/A	PRE	0	65	79	78	69	96	0	53	70	74	69	94
1	AATREX	4	F	1.5	LB A/A	PRE												
2	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	83	81	70	61	91	0	76	79	68	60	91
3	BALANCE	4	SC	0.055	LB A/A	PRE	0	80	98	85	96	98	0	78	95	83	91	95
3	LIBERTY	1.67	E	0.31	LB A/A	MP												
3	AATREX	4	F	0.75	LB A/A	MP												
3	AMS	100	SG	3	LB A/A	MP												
4	BALANCE	4	SC	0.055	LB A/A	PRE	0	85	92	92	85	98	0	80	88	84	83	94
4	AATREX	4	F	0.75	LB A/A	PRE												
4	LIBERTY	1.67	E	0.31	LB A/A	MP												
4	AATREX	4	F	0.75	LB A/A	MP												
4	AMS	100	SG	3	LB A/A	MP												
5	BALANCE	4	SC	0.055	LB A/A	PRE	0	81	97	84	91	91	0	80	95	79	90	89
5	AATREX	4	F	0.75	LB A/A	PRE												
5	LIBERTY	1.67	E	0.31	LB A/A	MP												
5	AMS	100	SG	3	LB A/A	MP												
6	LIBERTY ATZ	4.3	F	1.34	LB A/A	LP	0	75	98	94	97	97	0	76	95	90	95	95
6	AMS	100	SG	3	LB A/A	LP												
7	BALANCE	4	SC	0.055	LB A/A	PRE	0	82	91	79	91	87	0	78	90	79	90	84
7	LIBERTY	1.67	E	0.36	LB A/A	MP												
7	AMS	100	SG	3	LB A/A	MP												
8	ACCENT GOLD	75	DF	0.136	LB A/A	LP	0	88	93	94	90	50	0	85	93	90	90	50
8	CLARITY	4	E	0.125	LB A/A	LP												
8	LIQUID N	L		2	QT/A	LP												
9	LEADOFF	5	CS	0.94	LB A/A	PRE	0	97	91	96	78	99	0	94	89	91	78	95
9	BASIS GOLD	89.5	DF	0.78	LB A/A	MP												
9	COC	L		1	QT/A	MP												
9	LIQUID N	L		2	QT/A	MP												



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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	IPOSS	XANST	CHEAL	SETFA	AMBTR	IPOSS	XANST	CHEAL		
							ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT	ZEAMX INJURY CONTROL PERCENT				
							P	P	P	P	P	P	P	P	P	P		
							0	0	0	0	0	0	0	0	0	0		
Trt Treatment No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg												
10	BICEP II MAGNUM	5.5 L		2.88 LB	A/A PRE		0	92	97	81	97	96	0	85	94	79	93	94
10	SPIRIT	57 WG		0.036 LB	A/A MP													
10	COC	L		1 QT/A	MP													
10	LIQUID N	L		2 QT/A	MP													
LSD (P=.05)							0.0	20.1	14.6	14.1	17.4	6.8	0.0	22.3	17.7	12.8	16.3	4.7
Standard Deviation							0.0	13.9	10.1	9.7	12.0	4.7	0.0	15.4	12.2	8.8	11.2	3.3
CV							0.0	16.76	10.98	11.43	14.04	5.21	0.0	19.64	13.76	10.85	13.4	3.71

Dept. of Agronomy, Univ. of Ky  
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## CORN POSTEMERGENCE LIBERTY

Trial ID: C0020

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	AMBTR	IPOSS	XANST	CHEAL
Crop Code	ZEAMX				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
1	BALANCE	4	SC	0.094	LB A/A	PRE	0	53	70	74	69	94
1	AATREX	4	F	1.5	LB A/A	PRE						
2	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	76	79	68	60	91
3	BALANCE	4	SC	0.055	LB A/A	PRE	0	78	95	81	91	95
3	LIBERTY	1.67	E	0.31	LB A/A	MP						
3	AATREX	4	F	0.75	LB A/A	MP						
3	AMS	100	SG	3	LB A/A	MP						
4	BALANCE	4	SC	0.055	LB A/A	PRE	0	80	88	84	83	94
4	AATREX	4	F	0.75	LB A/A	PRE						
4	LIBERTY	1.67	E	0.31	LB A/A	MP						
4	AATREX	4	F	0.75	LB A/A	MP						
4	AMS	100	SG	3	LB A/A	MP						
5	BALANCE	4	SC	0.055	LB A/A	PRE	0	80	95	78	90	89
5	AATREX	4	F	0.75	LB A/A	PRE						
5	LIBERTY	1.67	E	0.31	LB A/A	MP						
5	AMS	100	SG	3	LB A/A	MP						
6	LIBERTY ATZ	4.3	F	1.34	LB A/A	LP	0	76	95	88	95	95
6	AMS	100	SG	3	LB A/A	LP						
7	BALANCE	4	SC	0.055	LB A/A	PRE	0	78	90	79	90	84
7	LIBERTY	1.67	E	0.36	LB A/A	MP						
7	AMS	100	SG	3	LB A/A	MP						
8	ACCENT GOLD	75	DF	0.136	LB A/A	LP	0	85	93	90	90	69
8	CLARITY	4	E	0.125	LB A/A	LP						
8	LIQUID N	L		2	QT/A	LP						
9	LEADOFF	5	CS	0.94	LB A/A	PRE	0	94	89	89	78	95
9	BASIS GOLD	89.5	DF	0.78	LB A/A	MP						
9	COC	L		1	QT/A	MP						
9	LIQUID N	L		2	QT/A	MP						

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Weed Code	SETFA	AMBTR	IPOSS	XANST	CHEAL
Crop Code	ZEAMX				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
10 BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	85	94	79	93	94
10 SPIRIT	57	WG	0.036	LB A/A	MP						
10 COC		L		1 QT/A	MP						
10 LIQUID N		L		2 QT/A	MP						
LSD (P=.05)						0.0	22.3	17.7	12.2	16.3	4.9
Standard Deviation						0.0	15.4	12.2	8.4	11.2	3.4
CV						0.0	19.64	13.76	10.37	13.4	3.77

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

CORN POSTEMERGENCE LIBERTY.

Trial ID: C0020                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-26-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
5.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** PIONEER 34B29LL  
**Planting Date:** 04-26-00                      **Planting Method:** ROW  
**Rate:** 28000 S/A                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 59 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-05-00

**SITE AND DESIGN**

**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**

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP

**Distance:** 1.5                      **Unit:** MI

**APPLICATION DESCRIPTION**

A                      B                      C

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

Application Date:	04-26-00	05-22-00	05-22-00
Time of Day:	10:30	1:00	1:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP
Applic. Placement:	BROSOI	BROFOI	BROFOI
Air Temp., Unit:	56 F	62 F	62 F
% Relative Humidity:	50	59	59
Wind Velocity, Unit:	3 MPH	5 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	55 F	62 F	62 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP	ZEAMX LP
Stage Scale:		5 LF	5 LF
Height, Unit:		18 IN	18 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP
Stage Scale:		4 LF	4 LF
Density, Unit:		6 IN	6 IN
Weed 2 Code, Stage:	AMBTR	AMBTR	AMBTR
Stage Scale:		4 LF	4 LF
Density, Unit:		5 IN	5 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS
Stage Scale:		5 LF	5 LF
Density, Unit:		4 IN	4 IN
Weed 4 Code, Stage:	XANST	XANST	XANST
Stage Scale:		4 LF	4 LF
Density, Unit:		6 IN	6 IN
Weed 5 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:		8 LF	8 LF
Density, Unit:		6 IN	6 IN

## APPLICATION EQUIPMENT

	A	B	C
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:	10 FT	10 FT	10 FT

<b>Boom Height, Unit:</b>	19	IN	20	IN	20	IN
<b>Ground Speed, Unit:</b>	4	MPH	3.5	MPH	3.5	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2		CO2	

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CORN POSTEMERGENCE ROUNDUP

Trial ID: C0031  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	XANST	CHEAL	IPOSS	AMBTR	SETFA	XANST	CHEAL	IPOSS	AMBTR
Crop Code	ZEAMX					ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg												
1	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP	0	91	93	85	90	91	0	89	93	84	89	91
2	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP	0	96	99	96	90	95	0	94	95	94	90	93
2	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	REG(POD)												
3	HARNESSE	7	EC	1.05 LB	A/A	PRE	0	98	96	98	93	96	0	94	95	95	90	95
3	ROUNDUP ULTRA	4	AS	1 LB	A/A	16"C												
4	HARNESSE XTRA	5.6	EC	1.68 LB	A/A	PRE	0	96	96	99	93	96	0	94	95	95	90	94
4	ROUNDUP ULTRA	4	AS	1 LB	A/A	16"C												
5	HARNESSE	7	EC	1.3 LB	A/A	PRE	0	96	96	94	95	99	0	95	94	93	90	95
5	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP												
6	HARNESSE XTRA	5.6	EC	2.24 LB	A/A	PRE	0	96	98	94	90	99	0	95	94	93	88	95
6	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP												
7	READYMASTER ATZ	5.6	SE	2 LB	A/A	MP	0	78	95	93	91	95	0	83	93	93	89	94
8	MON 6943	5	CS	3.38 LB	A/A	MP	0	90	100	99	100	100	0	90	94	95	93	95
9	DUAL II MAGNUM	7.6	EC	1.27 LB	A/A	PRE	0	85	96	99	98	99	0	88	94	95	91	95
9	MARKSMAN	3.2	F	1.4 LB	A/A	MP												
10	BICEP II MAGNUM	5.5	L	2.475 LB	A/A	PRE	0	85	80	93	88	91	0	86	76	93	86	90
11	BICEP II MAGNUM	5.5	L	2.475 LB	A/A	PRE	0	85	83	93	90	91	0	88	89	93	90	91
11	SPIRIT	57	WG	0.035 LB	A/A	16"C												
11	SPREADER HF			0.25 %	V/V	16"C												
11	LIQUID N		L	2.5 QT/A		16"C												
12	BASIS GOLD	89.5	DF	0.783 LB	A/A	MP	0	89	84	96	95	88	0	88	84	95	90	88
12	COC		L	1 QT/A		MP												
12	LIQUID N		L	4 QT/A		MP												
13	CELEBRITY PLUS	70	WG	0.2 LB	A/A	MP	0	68	93	70	95	95	0	75	93	75	91	95
13	SPREADER HF			0.25 %	V/V	MP												
13	LIQUID N		L	4 QT/A		MP												

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	CHEAL	IPOSS	AMBTR	SETFA	XANST	CHEAL	IPOSS	AMBTR			
							ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
							INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT		
							2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
							P	P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg														
14 LEADOFF	5	CS	1.25	LB A/A	PRE		0	91	84	98	95	98	0	90	83	95	91	95	
14 BASIS GOLD	89.5	DF	0.783	LB A/A	MP														
14 COC	L		1	QT/A	MP														
14 LIQUID N	L		4	QT/A	MP														
15 DEGREE XTRA	4.04	CS	3.03	LB A/A	PRE		0	91	83	98	93	98	0	91	83	95	91	95	
15 AATREX	4	F	0.4	LB A/A	PRE														
16 FULTIME	4	CS	3.4	LB A/A	PRE		0	95	85	96	93	93	0	94	85	95	89	93	
17 LEADOFF	5	CS	1.8	LB A/A	PRE		0	91	83	95	91	90	0	90	83	94	89	88	
17 AATREX	4	F	0.3	LB A/A	PRE														
LSD (P=.05)							0.0	7.2	6.7	5.2	4.9	6.2	0.0	5.2	6.6	4.5	4.1	5.4	
Standard Deviation							0.0	5.1	4.7	3.6	3.4	4.3	0.0	3.7	4.6	3.2	2.9	3.8	
CV							0.0	5.67	5.2	3.89	3.7	4.54	0.0	4.1	5.2	3.44	3.18	4.09	



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CORN POSTEMERGENCE ROUNDUP

Trial ID: C0031                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

Weed Code	SETFA	XANST	CHEAL	IPOSS	AMBTR
Crop Code	ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
1	ROUNDUP ULTRA	4	AS	1 LB	A/A MP	0	89	93	80	85	91
2	ROUNDUP ULTRA	4	AS	1 LB	A/A MP	0	94	95	94	90	93
2	ROUNDUP ULTRA	4	AS	0.75 LB	A/A REG(POD)						
3	HARNESS	7	EC	1.05 LB	A/A PRE	0	94	95	95	90	95
3	ROUNDUP ULTRA	4	AS	1 LB	A/A 16"C						
4	HARNESS XTRA	5.6	EC	1.68 LB	A/A PRE	0	94	95	95	90	94
4	ROUNDUP ULTRA	4	AS	1 LB	A/A 16"C						
5	HARNESS	7	EC	1.3 LB	A/A PRE	0	95	94	93	90	95
5	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						
6	HARNESS XTRA	5.6	EC	2.24 LB	A/A PRE	0	95	94	93	88	95
6	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						
7	READYMASTER ATZ	5.6	SE	2 LB	A/A MP	0	83	93	93	85	94
8	MON 6943	5	CS	3.38 LB	A/A MP	0	90	94	95	93	95
9	DUAL II MAGNUM	7.6	EC	1.27 LB	A/A PRE	0	88	94	95	91	95
9	MARKSMAN	3.2	F	1.4 LB	A/A MP						
10	BICEP II MAGNUM	5.5	L	2.475 LB	A/A PRE	0	84	76	90	84	90
11	BICEP II MAGNUM	5.5	L	2.475 LB	A/A PRE	0	88	89	93	90	91
11	SPIRIT	57	WG	0.035 LB	A/A 16"C						
11	SPREADER HF			0.25 %	V/V 16"C						
11	LIQUID N		L	2.5 QT/A	16"C						
12	BASIS GOLD	89.5	DF	0.783 LB	A/A MP	0	88	84	95	90	88
12	COC		L	1 QT/A	MP						
12	LIQUID N		L	4 QT/A	MP						
13	CELEBRITY PLUS	70	WG	0.2 LB	A/A MP	0	75	93	75	91	95
13	SPREADER HF			0.25 %	V/V MP						
13	LIQUID N		L	4 QT/A	MP						

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	CHEAL	IPOSS	AMBTR	
							ZEAMX	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
							8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
							P	P	P	P	P	P
							0	0	0	0	0	0
Trt Treatment No.	Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
14	LEADOFF	5	CS	1.25	LB A/A	PRE	0	89	83	94	90	95
14	BASIS GOLD	89.5	DF	0.783	LB A/A	MP						
14	COC		L		1 QT/A	MP						
14	LIQUID N		L		4 QT/A	MP						
15	DEGREE XTRA	4.04	CS	3.03	LB A/A	PRE	0	89	83	93	88	95
15	AATREX	4	F	0.4	LB A/A	PRE						
16	FULTIME	4	CS	3.4	LB A/A	PRE	0	91	85	95	89	93
17	LEADOFF	5	CS	1.8	LB A/A	PRE	0	89	83	91	89	88
17	AATREX	4	F	0.3	LB A/A	PRE						
LSD (P=.05)							0.0	5.0	6.6	4.4	3.7	5.4
Standard Deviation							0.0	3.5	4.6	3.1	2.6	3.8
CV							0.0	3.92	5.2	3.34	2.92	4.09

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Weed Science Field Research

## CORN POSTEMERGENCE ROUNDUP

Trial ID: C0031                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-26-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
5.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: ZEAMX CORN, FIELD                      Variety: DEKALB DK626RR  
Planting Date: 04-26-00                      Planting Method: ROW  
Rate: 28000 S/A                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 59 F                      Soil Moisture: NORMAL                      Emergence Date: 05-05-00

## SITE AND DESIGN

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

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP                      Distance: 1.5                      Unit: MI

## APPLICATION DESCRIPTION

A                      B                      C                      D

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Weed Science Field Research

Application Date:	04-26-00	05-27-00	05-31-00	06-05-00
Time of Day:	11:00	2:00	11:00	2:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	16"C	REG
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	56 F	72 F	70 F	74 F
% Relative Humidity:	52	69	65	72
Wind Velocity, Unit:	3 MPH	5 MPH	5 MPH	4 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	55 F	60 F	65 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	INADEQUAT
% Cloud Cover:	10	10	20	10

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP	ZEAMX 16"C	ZEAMX REG
Stage Scale:		4 LF	5 LF	6 LF
Height, Unit:		10 IN	17 IN	20 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA 16"C	SETFA REG
Stage Scale:		3 LF	5 LF	6 LF
Density, Unit:		4 IN	7 IN	8 IN
Weed 2 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	4 LF	5 LF
Density, Unit:		3 IN	6 IN	8 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	7 LF	10 LF
Density, Unit:		3 IN	5 IN	7 IN
Weed 4 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		3 LF	6 LF	9 LF
Density, Unit:		3 IN	5 IN	6 IN
Weed 5 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Scale:		4 LF	6 LF	8 LF
Density, Unit:		4 IN	6 IN	7 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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

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<b>Boom Height, Unit:</b>	19	IN	20	IN	20	IN	20	IN
<b>Ground Speed, Unit:</b>	3.5	MPH	3.5	MPH	3.5	MPH	3.5	MPH
<b>Carrier:</b>	WATER		WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2		CO2		CO2	

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

CORN POSTEMERGENCE ROUNDUP II

Trial ID: C0032 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON KY. Investigator: Charles Slack

Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	SETFA	AMBTR	CHEAL	XANST	IPOSS	SETFA	AMBTR	CHEAL	XANST	IPOSS						
							ZEAMX					ZEAMX										
							INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
							P	P	P	P	P	P	P	P	P	P						
							0	0	0	0	0	0	0	0	0	0						
							2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK						
							0	95	90	87	87	88	0	90	88	83	87	83				
							0	95	90	83	88	85	0	88	90	88	90	82				
							0	95	95	95	95	93	0	90	87	83	90	78				
							2	95	92	93	95	93	2	90	88	88	90	87				
							0	95	90	80	87	82	0	88	88	87	88	77				
							0	95	95	95	95	92	0	88	87	87	90	83				
							0	95	95	95	95	93	0	90	88	83	88	85				
							3	95	87	88	90	87	3	88	87	83	87	85				
							5	95	88	85	88	87	5	87	85	78	88	82				

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	IPOSS	SETFA	AMBTR	CHEAL	XANST	IPOSS
							ZEAMX INJURY PERCENT 2 WEEK	ZEAMX CONTROL PERCENT 2 WEEK	ZEAMX CONTROL PERCENT 2 WEEK	ZEAMX CONTROL PERCENT 2 WEEK	ZEAMX CONTROL PERCENT 2 WEEK	ZEAMX CONTROL PERCENT 2 WEEK	ZEAMX INJURY PERCENT 4 WEEK	ZEAMX CONTROL PERCENT 4 WEEK	ZEAMX CONTROL PERCENT 4 WEEK	ZEAMX CONTROL PERCENT 4 WEEK
10 DUAL II MAGNUM	7.6 EC	1.43 LB A/A	PRE	5	95	73	83	83	83	80	5	90	82	77	80	85
10 AIM	40 DF	0.008 LB A/A	MP													
10 SPREADER HF		0.25 % V/V	MP													
11 AXIOM	68 DF	0.55 LB A/A	PPE	2	95	90	92	95	90	90	2	88	87	80	90	82
11 ROUNDUP ULTRA	4 AS	0.75 LB A/A	MP													
11 AMS	100 SG	17 LB/100 GAL	MP													
12 AXIOM	68 DF	0.55 LB A/A	PRE	5	95	90	92	93	90	90	5	88	87	87	85	80
12 ROUNDUP ULTRAMAX	5 SL	0.78 LB A/A	MP													
12 AMS	100 SG	17 LB/100 GAL	MP													
13 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE	2	95	95	95	95	93	93	2	90	87	85	88	80
13 SPIRIT	57 WG	0.036 LB A/A	MP													
13 SPREADER HF		0.25 % V/V	MP													
13 AMS	100 SG	17 LB/100 GAL	MP													
14 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE	0	95	95	95	95	93	93	0	90	87	85	90	82
14 EXCEED	57 DF	0.036 LB A/A	MP													
14 SPREADER HF		0.25 % V/V	MP													
14 AMS	100 SG	17 LB/100 GAL	MP													
15 OUTLOOK	6 EC	0.75 LB A/A	PRE	2	95	95	93	93	90	90	2	90	87	82	87	85
15 DISTINCT	70 WG	0.253 LB A/A	MP													
15 SPREADER HF		0.25 % V/V	MP													
15 LIQUID N	L	1 QT/A	MP													
16 OUTLOOK	6 EC	0.75 LB A/A	PRE	0	95	95	93	93	90	90	0	87	87	82	90	83
16 CELEBRITY PLUS	70 WG	0.21 LB A/A	MP													
16 SPREADER HF		0.25 % V/V	MP													
16 LIQUID N	L	1 QT/A	MP													
LSD (P=.05)				34.7	0.0	5.5	7.4	6.7	8.2	34.7	3.4	6.2	9.7	6.0	6.3	
Standard Deviation				20.8	0.0	3.3	4.4	4.0	4.9	20.8	2.0	3.7	5.8	3.6	3.8	
CV				363.3	0.0	3.63	4.89	4.4	5.5	363.3	2.3	4.31	6.93	4.07	4.58	

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

CORN POSTEMERGENCE ROUNDUP II

Trial ID: C0032

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON KY.

Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST	IPOSS
Crop Code	. ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
1	READYMASTER ATZ	4	SC	1 LB	A/A	MP 12C	0	63	58	57	57	58
1	AMS	100	SG	1.5 %	W/W	MP 12C						
2	ROUNDUP ULTRAMAX	5	SL	0.78 LB	A/A	MP	0	92	83	78	85	80
2	AMS	100	SG	1.5 %	W/W	MP						
2	ROUNDUP ULTRAMAX	5	SL	0.78 LB	A/A	24C						
2	AMS	100	SG	1.5 %	W/W	24C						
3	HARNESX XTRA	5.6	EC	1.68 LB	A/A	PRE	0	93	90	90	88	88
3	ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	LP						
3	AMS	100	SG	1.5 %	W/W	LP						
4	ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	MP	2	93	90	90	88	88
4	DEGREE XTRA	4.04	CS	1.5 LB	A/A	MP						
4	AATREX	4	F	0.5 LB	A/A	MP						
4	AMS	100	SG	1.5 %	W/W	MP						
5	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	MP	33	93	88	80	85	78
5	AMS	100	SG	1.5 %	W/W	MP						
5	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	24C						
5	AMS	100	SG	1.5 %	W/W	24C						
6	HARNESX XTRA	5.6	EC	1.68 LB	A/A	PRE	0	93	90	90	88	87
6	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	LP						
6	AMS	100	SG	1.5 %	W/W	LP						
7	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	MP	0	93	87	88	88	87
7	DEGREE XTRA	4.04	CS	1.5 LB	A/A	MP						
7	AATREX	4	F	0.5 LB	A/A	MP						
7	AMS	100	SG	1.5 %	W/W	MP						
8	AIM	40	DF	0.008 LB	A/A	MP	2	92	85	85	90	83
8	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	MP						
8	AMS	100	SG	17 LB/100	GAL	MP						
9	AIM	40	DF	0.008 LB	A/A	MP	3	93	85	83	87	82
9	ROUNDUP ULTRAMAX	5	SL	0.78 LB	A/A	MP						
9	AMS	100	SG	17 LB/100	GAL	MP						



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Weed Code	SETFA	AMBTR	CHEAL	XANST	IPOSS
Crop Code	ZEAMX				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
10 DUAL II MAGNUM	7.6	EC	1.43	LB A/A	PRE	3	93	67	82	80	77
10 AIM	40	DF	0.008	LB A/A	MP						
10 SPREADER HF			0.25	% V/V	MP						
11 AXIOM	68	DF	0.55	LB A/A	PRE	2	93	87	87	88	83
11 ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP						
11 AMS	100	SG	17	LB/100 GAL	MP						
12 AXIOM	68	DF	0.55	LB A/A	PRE	2	93	87	90	90	87
12 ROUNDUP ULTRAMAX	5	SL	0.78	LB A/A	MP						
12 AMS	100	SG	17	LB/100 GAL	MP						
13 BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	2	93	90	88	90	88
13 SPIRIT	57	WG	0.036	LB A/A	MP						
13 SPREADER HF			0.25	% V/V	MP						
13 AMS	100	SG	17	LB/100 GAL	MP						
14 BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	92	90	90	88	83
14 EXCEED	57	DF	0.036	LB A/A	MP						
14 SPREADER HF			0.25	% V/V	MP						
14 AMS	100	SG	17	LB/100 GAL	MP						
15 OUTLOOK	6	EC	0.75	LB A/A	PRE	2	93	90	90	90	87
15 DISTINCT	70	WG	0.253	LB A/A	MP						
15 SPREADER HF			0.25	% V/V	MP						
15 LIQUID N		L	1	QT/A	MP						
16 OUTLOOK	6	EC	0.75	LB A/A	PRE	0	93	88	90	88	87
16 CELEBRITY PLUS	70	WG	0.21	LB A/A	MP						
16 SPREADER HF			0.25	% V/V	MP						
16 LIQUID N		L	1	QT/A	MP						
LSD (P=.05)			34.8				21.5	21.6	21.6	21.6	20.7
Standard Deviation			20.9				12.9	12.9	13.0	12.9	12.4
CV			400.64				14.15	15.28	15.28	15.09	15.04

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CORN POSTEMERGENCE ROUNDUP II

Trial ID: C0032                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-26-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA GIANT FOXTAIL	SETARIA FABERI
2.	AMBTR GIANT RAGWEED	AMBROSIA ARTEMISIIFOLIA
3.	CHEAL LAMBSQUARTERS	CHENOPODIUM ALBUM
4.	XANST COMMON COCKLEBUR	XANTHIUM STRUMARIUM
5.	IPOSS MORNINGGLORY	IPOMOEA SP.

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** DK 626RR  
**Planting Date:** 04-27-00                      **Planting Method:** ROW  
**Rate:** 28000 S/A                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 59 F                      **Soil Moisture:** ADEQUATE                      **Emergence Date:** 05-08-00

**SITE AND DESIGN**

**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**

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL**Closest Weather Station:** SPINDLETOP**Distance:** 1.8                      **Unit:** MI**APPLICATION DESCRIPTION**

A                      B                      C                      D                      E

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Application Date:	04-26-00	05-22-00	05-24-00	05-30-00	06-07-00
Time of Day:	2:00 PM	10:00 AM	1:00 PM	2:00 PM	9:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	12C	LP	24C
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	56 F	70 F	75 F	76 F	85 F
% Relative Humidity:	70	83	75	75	70
Wind Velocity, Unit:	3 MPH	2 MPH	5 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N	N
Soil Temp., Unit:	58 F	70 F	76 F	75 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20	10	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP	ZEAMX 12C	ZEAMX LP	ZEAMX 24C
Height, Unit:		6 IN	12 IN	16 IN	24 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA 12C	SETFA LP	SETFA 24C
Stage Scale:		2 LF	4 LF	6 LF	8 LF
Density, Unit:		3 IN	5 IN	6 IN	9 IN
Weed 2 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Stage Scale:		2 LF	4 LF	5 LF	6 LF
Density, Unit:		3 IN	4 IN	6 IN	8 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		3 LF	5 LF	7 LF	8 LF
Density, Unit:		3 IN	6 IN	7 IN	8 IN
Weed 4 Code, Stage:	XANST	XANST	XANST	XANST	XANST
Stage Scale:		3 LF	5 LF	6 LF	7 LF
Density, Unit:		3 IN	5 IN	7 IN	8 IN
Weed 5 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		3 LF	5 LF	7 LF	9 LF
Density, Unit:		2 IN	3 IN	5 IN	6 IN

## APPLICATION EQUIPMENT

	A	B	C	D	E
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:	8004DG	8004DG	8004DG	8004DG	8004DG
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

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<b>Ground Speed, Unit:</b>	4	MPH	3.5	MPH	3.5	MPH	3.5	MPH	3.5	MPH
<b>Carrier:</b>	WATER		WATER		WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA	24	GPA	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2		CO2		CO2		CO2	

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CORN POSTEMERGENCE ROUNDUP III

Trial ID: C0033  
Location: LEXINGTON, KY

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST	
							ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
							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	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	Form Rate	Rate Unit	Grow Stg	0	84	89	88	85	0	81	83	83	81
1	BICEP II MAGNUM	5.5 L		2.88 LB	A/A	PRE	0	84	89	88	85	0	81	83	83	81
1	DK 626															
2	BICEP II MAGNUM	5.5 L		2.88 LB	A/A	PRE	0	95	95	94	95	0	91	94	91	91
2	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	MP, 2WK										
2	AMS	100 SG		1.7 LB	A/A	MP, 2WK										
2	DK 626															
3	BICEP II MAGNUM	5.5 L		2.88 LB	A/A	PRE	0	95	95	94	94	0	91	94	90	94
3	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LP, 4WK										
3	AMS	100 SG		1.7 LB	A/A	LP, 4WK										
3	DK 626															
4	BICEP II MAGNUM	5.5 L		2.88 LB	A/A	PRE	0	94	95	95	94	0	93	93	91	94
4	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LLP, 6WK										
4	AMS	100 SG		1.7 LB	A/A	LLP, 6WK										
4	DK 626															
5	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	MP, 2WK	0	94	91	92	90	0	91	85	84	86
5	AMS	100 SG		1.7 LB	A/A	MP, 2WK										
5	DK 626															
6	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LP, 4WK	0	94	94	93	94	0	89	88	86	88
6	AMS	100 SG		1.7 LB	A/A	LP, 4WK										
6	DK 626															
7	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LLP, 6WK	0	93	91	90	90	0	89	90	84	88
7	AMS	100 SG		1.7 LB	A/A	LLP, 6WK										
7	DK 626															
8	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	MP, 2WK	0	95	95	95	95	0	90	94	91	93
8	AMS	100 SG		1.7 LB	A/A	MP, 2WK										
8	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LLP, 6WK										
8	AMS	100 SG		1.7 LB	A/A	LLP, 6WK										
8	DK 626															

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST		
							ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
							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	4 WEEK	
							P	P	P	P	P	P	P	P	P	
							0	0	0	0	0	0	0	0	0	
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Rate	Grow Stg										
9 BICEP II MAGNUM	5.5 L		2.88 LB A/A	PRE			0	90	95	94	94	0	88	94	90	93
9 SPIRIT	57 WG		0.036 LB A/A	MP, 2WK												
9 SPREADER HF			0.25 % V/V	MP, 2WK												
9 AMS	100 SG		1.7 LB A/A	MP, 2WK												
9 DK 626																
10 WEEDY CHECK							1	55	54	38	49	1	34	34	33	33
10 DK 625																
11 BICEP II MAGNUM	5.5 L		2.88 LB A/A	PRE			0	91	69	78	80	0	88	65	71	75
11 N63-G7																
12 BICEP II MAGNUM	5.5 L		2.88 LB A/A	PRE			0	95	95	95	95	0	90	91	90	95
12 SPIRIT	57 WG		0.036 LB A/A	MP, 2WK												
12 SPREADER HF			0.25 % V/V	MP, 2WK												
12 AMS	100 SG		1.7 LB A/A	MP, 2WK												
12 N63-G7																
13 WEEDY CHECK							1	45	40	43	39	1	25	24	25	25
13 N63-G7																
LSD (P=.05)							1.3	17.6	17.1	16.7	15.7	1.3	16.2	16.2	16.4	17.0
Standard Deviation							0.9	12.3	11.9	11.7	11.0	0.9	11.4	11.3	11.5	11.9
CV							488.19	14.35	14.14	14.02	13.11	488.19	14.23	14.36	14.81	14.92

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CORN POSTEMERGENCE ROUNDUP III

Trial ID: C0033  
Location: LEXINGTON, KY

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
1	BICEP II MAGNUM	5.5 L		2.88 LB	A/A PRE		0	81	83	83	81
1	DK 626										
2	BICEP II MAGNUM	5.5 L		2.88 LB	A/A PRE		0	90	91	89	88
2	ROUNDUP ULTRA	4 AS		0.75 LB	A/A MP, 2WK						
2	AMS	100 SG		1.7 LB	A/A MP, 2WK						
2	DK 626										
3	BICEP II MAGNUM	5.5 L		2.88 LB	A/A PRE		0	89	90	89	90
3	ROUNDUP ULTRA	4 AS		0.75 LB	A/A LP, 4WK						
3	AMS	100 SG		1.7 LB	A/A LP, 4WK						
3	DK 626										
4	BICEP II MAGNUM	5.5 L		2.88 LB	A/A PRE		0	90	90	89	86
4	ROUNDUP ULTRA	4 AS		0.75 LB	A/A LLP, 6WK						
4	AMS	100 SG		1.7 LB	A/A LLP, 6WK						
4	DK 626										
5	ROUNDUP ULTRA	4 AS		0.75 LB	A/A MP, 2WK		0	85	83	83	86
5	AMS	100 SG		1.7 LB	A/A MP, 2WK						
5	DK 626										
6	ROUNDUP ULTRA	4 AS		0.75 LB	A/A LP, 4WK		0	86	88	84	86
6	AMS	100 SG		1.7 LB	A/A LP, 4WK						
6	DK 626										
7	ROUNDUP ULTRA	4 AS		0.75 LB	A/A LLP, 6WK		0	88	89	85	88
7	AMS	100 SG		1.7 LB	A/A LLP, 6WK						
7	DK 626										
8	ROUNDUP ULTRA	4 AS		0.75 LB	A/A MP, 2WK		0	90	90	89	89
8	AMS	100 SG		1.7 LB	A/A MP, 2WK						
8	ROUNDUP ULTRA	4 AS		0.75 LB	A/A LLP, 6WK						
8	AMS	100 SG		1.7 LB	A/A LLP, 6WK						
8	DK 626										

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Weed Code		SETFA	AMBTR	CHEAL	XANST
Crop Code		ZEAMX			
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
# Subsamples, Dec.		0	0	0	0

Trt Treatment No. Name	Form Form Conc Type Rate	Rate Unit	Grow Stg					
9 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE	0	88	90	86	89
9 SPIRIT	57 WG	0.036 LB A/A	MP, 2WK					
9 SPREADER HF		0.25 % V/V	MP, 2WK					
9 AMS	100 SG	1.7 LB A/A	MP, 2WK					
9 DK 626								
10 WEEDY CHECK				1	34	34	33	33
10 DK 625								
11 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE	0	88	65	71	75
11 N63-G7								
12 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE	0	89	89	85	89
12 SPIRIT	57 WG	0.036 LB A/A	MP, 2WK					
12 SPREADER HF		0.25 % V/V	MP, 2WK					
12 AMS	100 SG	1.7 LB A/A	MP, 2WK					
12 N63-G7								
13 WEEDY CHECK				1	25	24	25	25
13 N63-G7								
LSD (P=.05)				1.3	16.7	16.3	16.9	17.0
Standard Deviation				0.9	11.7	11.4	11.8	11.9
CV				488.19	14.84	14.77	15.54	15.37



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## CORN POSTEMERGENCE ROUNDUP III

Trial ID: C0033                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-26-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA GIANT FOXTAIL	SETARIA FABERI
2.	AMBTR GIANT RAGWEED	AMBROSIA ARTEMISIIFOLIA
3.	CHEAL LAMBSQUARTERS	CHENOPODIUM ALBUM
4.	XANST COMMON COCKLEBUR	XANTHIUM STRUMARIUM

Crop 1: ZEAMX    FIELD CORN                      Variety: DK 626RR  
Planting Date: 04-26-00                      Planting Method: ROW  
Rate: 28000    S/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: MEDIUM  
Soil Temperature: 59    F    Soil Moisture: ADEQUATE                      Emergence Date: 05-09-00

Crop 2: ZEAMX    FIELD CORN                      Variety: N63-G7  
Planting Date: 04-27-00                      Planting Method: ROW  
Rate: 28000    S/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: MEDIUM  
Soil Temperature: 59    F    Soil Moisture: ADEQUATE                      Emergence Date: 05-09-00

## SITE AND DESIGN

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

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.8 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	04-27-00	05-22-00	05-26-00	05-31-00
Time of Day:	2:00 PM	11:00 AM	12:00 PM	1:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP	LLP
Applic. Placement:	BROFSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	56 F	70 F	76 F	78 F
% Relative Humidity:	70	83	65	70
Wind Velocity, Unit:	3 MPH	3 MPH	5 MPH	5 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	58 F	70 F	72 F	72 F
Soil Moisture:	ADEQUATE	INADEQUAT	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10	10	10

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP	ZEAMX LP	ZEAMX LLP
Height, Unit:		9 IN	15 IN	20 IN
Crop 2 Code, Stage:	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Height, Unit:		9 IN	15 IN	20 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP	SETFA LLP
Stage Scale:		2 LF	4 LF	6 LF
Density, Unit:		2 IN	4 IN	6 IN
Weed 2 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Scale:		3 LF	4 LF	6 LF
Density, Unit:		3 IN	5 IN	8 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	6 LF	9 LF
Density, Unit:		4 IN	6 IN	9 IN
Weed 4 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		3 LF	5 LF	6 LF
Density, Unit:		3 IN	4.5 IN	6.5 IN

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Weed Science Field Research

## APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	ATV	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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

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CORN POSTEMERGENCE ROUNDUP V

Trial ID: C0040  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	CHEAL	AMBTR	SETFA	CHEAL	AMBTR	SETFA	CHEAL	AMBTR	SETFA	CHEAL	AMBTR
Crop Code	ZEAMX			ZEAMX			ZEAMX			ZEAMX		
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg												
1 UNTREATED CHECK 1 DK 626						3	3	5	3	0	2	2	0	3	3	7	3
2 ROUNDUP ULTRA 2 ROUNDUP ULTRA 2 DK 626	4 AS		1 LB	A/A V4		2	95	95	95	0	95	95	95	2	90	90	90
3 ROUNDUP ULTRA 3 ROUNDUP ULTRA 3 DK 626	4 AS		2 LB	A/A V4		3	95	95	95	0	95	95	95	3	92	90	92
4 ROUNDUP ULTRA 4 ROUNDUP ULTRA 4 DK 626	4 AS		3 LB	A/A V4		8	95	95	95	0	95	95	95	8	90	92	90
5 UNTREATED CHECK 5 NK603						7	33	38	38	0	33	38	38	7	32	37	37
6 ROUNDUP ULTRA 6 ROUNDUP ULTRA 6 NK603	4 AS		1 LB	A/A V4		3	95	95	95	0	95	95	95	3	92	90	87
7 ROUNDUP ULTRA 7 ROUNDUP ULTRA 7 NK603	4 AS		2 LB	A/A V4		3	95	95	95	0	95	95	95	3	93	88	87
8 ROUNDUP ULTRA 8 ROUNDUP ULTRA 8 NK603	4 AS		3 LB	A/A V4		3	95	95	95	0	95	95	95	3	90	93	87
LSD (P=.05)						5.9	33.4	31.1	31.0	0.0	33.3	30.7	30.5	5.9	31.9	29.5	29.4
Standard Deviation						3.3	19.1	17.7	17.7	0.0	19.0	17.6	17.4	3.3	18.2	16.8	16.8
CV						80.18	25.15	23.13	23.12	0.0	25.13	23.02	22.94	80.18	25.07	22.96	23.46

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## CORN POSTEMERGENCE ROUNDUP V

Trial ID: C0040                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-26-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: ZEAMX    FIELD CORN                      Variety: DK626RR  
Planting Date: 04-28-00                      Planting Method: ROW  
Rate: 28000    S/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: MEDIUM  
Soil Temperature: 59    F    Soil Moisture: ADEQUATE                      Emergence Date: 05-05-00

Crop 2: ZEAMX    FIELD CORN                      Variety: NK603  
Planting Date: 04-26-00                      Planting Method: ROW  
Rate: 2800    S/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: MEDIUM  
Soil Temperature: 59    F    Soil Moisture: ADEQUATE                      Emergence Date: 05-05-00

## SITE AND DESIGN

Plot Width, Unit: 5                      FT                      Plot Length, Unit: 40                      FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL                      Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY

09-19-00 (C0040)

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Site Description Page 2 of

% Clay: 30

CEC: 17

Fert. Level: EXCELLENT

## APPLICATION DESCRIPTION

	A	B
Application Date:	05-26-00	06-06-00
Time of Day:	10:00 AM	2:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	V4	V8
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	56 F	82 F
% Relative Humidity:	70	60
Wind Velocity, Unit:	3 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	58 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX V4	ZEAMX V8
Height, Unit:	12 IN	28 IN
Crop 2 Code, Stage:	ZEAMX	ZEAMX

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA V4	SETFA V8
Stage Scale:	4 LF	8 LF
Density, Unit:	3 IN	7 IN
Weed 2 Code, Stage:	CHEAL	CHEAL
Stage Scale:	4 LF	7 LF
Density, Unit:	3 IN	8 IN
Weed 3 Code, Stage:	AMBTR	AMBTR
Stage Scale:	6 LF	10 LF
Density, Unit:	4 IN	8 IN

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	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:	20 IN	20 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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Weed Science Field Research

CORN POSTEMERGENCE ROUNDUP VI

Trial ID: C0030  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST
Crop Code	ZEAMX				ZEAMX			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Rate Unit	Grow Stg	ZEAMX INJURY	SETFA CONTROL	AMBTR CONTROL	CHEAL CONTROL	XANST CONTROL	ZEAMX INJURY	SETFA CONTROL	AMBTR CONTROL	CHEAL CONTROL	XANST CONTROL
1	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		V4	0	94	94	94	94	0	93	93	88	88
1	AMS	100 SG		2 % W/W		V4										
2	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		V4	0	95	95	95	95	0	94	91	88	88
3	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		V8	0	94	94	94	94	0	93	90	91	89
3	AMS	100 SG		2 % W/W		V8										
4	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		V8	0	94	94	94	94	0	93	90	88	89
5	TOUCHDOWN	4 AS		1 LB A/A		V4	0	95	95	95	95	0	91	94	91	88
5	AMS	100 SG		8.5 LB/100	GAL	V4										
6	TOUCHDOWN	4 AS		1 LB A/A		V4	0	94	94	94	94	0	91	91	89	89
7	TOUCHDOWN	4 AS		1 LB A/A		V8	0	95	95	95	95	0	95	95	90	88
7	AMS	100 SG		8.5 LB/100	GAL	V8										
8	TOUCHDOWN	4 AS		1 LB A/A		V8	0	95	95	95	95	0	89	91	88	88
9	ROUNDUP ULTRA	4 AS		1 LB A/A		V4	0	95	95	95	95	0	93	91	91	90
9	AMS	100 SG		2 % W/W		V4										
10	ROUNDUP ULTRA	4 AS		1 LB A/A		V4	0	94	94	94	94	0	93	91	91	88
11	ROUNDUP ULTRA	4 AS		1 LB A/A		V8	0	95	95	95	95	0	90	91	90	88
11	AMS	100 SG		2 % W/W		V8										
12	ROUNDUP ULTRA	4 AS		1 LB A/A		V8	0	94	94	94	94	0	91	90	89	88
13	ROUNDUP	4 AS		1 LB A/A		V4	0	94	94	94	94	0	93	90	91	89
13	AMS	100 SG		17 LB/100	GAL	V4										
13	SPREADER HF			0.5 % V/V		V4										
14	ROUNDUP	4 AS		1 LB A/A		V8	0	94	94	94	94	0	93	93	90	86
14	AMS	100 SG		17 LB/100	GAL	V8										
14	SPREADER HF			0.5 % V/V		V8										



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Weed Code	SETFA	AMBTR	CHEAL	XANST		SETFA	AMBTR	CHEAL	XANST	
Crop Code	ZEAMX					ZEAMX				
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
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt Treatment	Form	Form	Rate	Grow						
No. Name	Conc	Type	Rate	Unit	Stg					
LSD (P=.05)	0.0	2.7	2.7	2.7	2.7	0.0	5.3	5.0	5.3	3.1
Standard Deviation	0.0	1.9	1.9	1.9	1.9	0.0	3.7	3.5	3.7	2.2
CV	0.0	2.0	2.0	2.0	2.0	0.0	4.01	3.82	4.16	2.45

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## CORN POSTEMERGENCE ROUNDUP VI

Trial ID: C0030

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	0	90	88	86	89
1	ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	V4	0	90	88	86	89
1	AMS	100	SG	2 %	W/W	V4					
2	ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	V4	0	90	88	85	88
3	ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	V8	0	89	85	79	85
3	AMS	100	SG	2 %	W/W	V8					
4	ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	V8	0	90	81	83	83
5	TOUCHDOWN	4	AS	1 LB	A/A	V4	0	90	88	85	86
5	AMS	100	SG	8.5 LB	LB/100 GAL	V4					
6	TOUCHDOWN	4	AS	1 LB	A/A	V4	0	89	86	85	90
7	TOUCHDOWN	4	AS	1 LB	A/A	V8	0	86	84	79	83
7	AMS	100	SG	8.5 LB	LB/100 GAL	V8					
8	TOUCHDOWN	4	AS	1 LB	A/A	V8	0	89	85	84	88
9	ROUNDUP ULTRA	4	AS	1 LB	A/A	V4	0	90	88	85	86
9	AMS	100	SG	2 %	W/W	V4					
10	ROUNDUP ULTRA	4	AS	1 LB	A/A	V4	0	90	89	85	90
11	ROUNDUP ULTRA	4	AS	1 LB	A/A	V8	0	89	85	83	88
11	AMS	100	SG	2 %	W/W	V8					
12	ROUNDUP ULTRA	4	AS	1 LB	A/A	V8	0	90	84	84	85
13	ROUNDUP	4	AS	1 LB	A/A	V4	0	90	89	85	88
13	AMS	100	SG	17 LB	LB/100 GAL	V4					
13	SPREADER HF			0.5 %	V/V	V4					
14	ROUNDUP	4	AS	1 LB	A/A	V8	0	86	86	80	85
14	AMS	100	SG	17 LB	LB/100 GAL	V8					
14	SPREADER HF			0.5 %	V/V	V8					

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Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	ZEAMX			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg
LSD (P=.05)	0.0	3.1	4.3	5.0	5.0
Standard Deviation	0.0	2.2	3.0	3.5	3.5
CV	0.0	2.46	3.49	4.19	4.07

Dept. of Agronomy, Univ. of Ky  
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CORN POSTEMERGENCE ROUNDUP VI

Trial ID: C0030                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-26-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPodium ALBUM L.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** DK626RR  
**Planting Date:** 04-26-00                      **Planting Method:** ROW  
**Rate:** 28000 S/A                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 65 F                      **Soil Moisture:** ADEQUATE                      **Emergence Date:** 05-05-00

**SITE AND DESIGN**

**Plot Width, Unit:** 5 FT                      **Plot Length, Unit:** 33 FT                      **Reps:** 4  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL                      **Study Design:** RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

% Sand: 7	% OM: 2.7	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	05-25-00	06-06-00
<b>Time of Day:</b>	10:00 AM	2:00 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	V4	V8

Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	65 F	80 F
% Relative Humidity:	65	70
Wind Velocity, Unit:	3 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	70 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX V4	ZEAMX V8
Stage Scale:	V4	V8
Height, Unit:	12 IN	19 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA V4	SETFA V8
Stage Scale:	3 LF	4 LF
Density, Unit:	6 IN	7 IN
Weed 2 Code, Stage:	AMBTR	AMBTR
Stage Scale:	4 LF	6 LF
Density, Unit:	6 IN	10 IN
Weed 3 Code, Stage:	CHEAL	CHEAL
Stage Scale:	8 LF	12 LF
Density, Unit:	7 IN	10 IN
Weed 4 Code, Stage:	XANST	XANST
Stage Scale:	4 LF	8 LF
Density, Unit:	5 IN	8 IN

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	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:	20 IN	20 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

Dept. of Agronomy, Univ. of Ky  
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NO-TILL CORN POSTEMERGENCE ROUNDUP

Trial ID: C0005

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Crop Stage	ARM Action Codes	# Subsamples, Dec.	SETFA		AMACH		CHEAL		IPOSS		ABUTH	
							ZEAMX INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	ZEAMX INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL INJURY PERCENT
							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	Unit	Grow Stg	3	92	95	95	93	95	0	88	90	93	85	90
1	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	3	92	95	95	93	95	0	88	90	93	85	90
1	AMS	100	SG	1.5	% W/W	PRE												
1	READYMASTER ATZ	4	SC	1	LB A/A	MP 12C												
1	AMS	100	SG	1.5	% W/W	MP 12C												
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	95	95	95	93	95	0	92	95	93	87	93
2	AMS	100	SG	1.5	% W/W	PRE												
2	ROUNDUP ULTRAMAX	5	SL	0.78	LB A/A	MP												
2	AMS	100	SG	1.5	% W/W	MP												
2	ROUNDUP ULTRAMAX	5	SL	0.78	LB A/A	24C												
2	AMS	100	SG	1.5	% W/W	24C												
3	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	88	82	87	80	78	0	87	78	82	70	77
3	AMS	100	SG	1.5	% W/W	PRE												
3	HARNES XTRA	5.6	EC	1.68	LB A/A	PRE												
3	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP												
3	AMS	100	SG	1.5	% W/W	LP												
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	95	95	95	95	95	0	92	95	95	90	95
4	AMS	100	SG	1.5	% W/W	PRE												
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	MP												
4	DEGREE XTRA	4.04	CS	1.5	LB A/A	MP												
4	AATREX	4	F	0.5	LB A/A	MP												
4	AMS	100	SG	1.5	% W/W	MP												
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	3	93	95	93	93	95	0	87	93	93	85	92
5	AMS	100	SG	1.5	% W/W	PRE												
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP												
5	AMS	100	SG	1.5	% W/W	MP												
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	24C												
5	AMS	100	SG	1.5	% W/W	24C												
6	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE	2	92	88	88	87	87	0	90	87	88	78	87
6	AMS	100	SG	1.5	% W/W	PRE												
6	HARNES XTRA	5.6	EC	1.68	LB A/A	PRE												
6	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP												
6	AMS	100	SG	1.5	% W/W	LP												

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Crop Stage	ARM Action Codes	# Subsamples, Dec.	SETFA	AMACH	CHEAL	IPOSS	ABUTH	SETFA	AMACH	CHEAL	IPOSS	ABUTH		
							ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX CONTROL 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	P	
							0	0	0	0	0	0	0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg												
7	ROUNDUP ULTRA	4 AS		1 LB A/A		PRE	2	93	95	95	93	92	0	92	95	95	85	92
7	AMS	100 SG		0.15 % W/W		PRE												
7	ROUNDUP ULTRA	4 AS		0.75 LB A/A		MP												
7	DEGREE XTRA	4.04 CS		1.5 LB A/A		MP												
7	AATREX	4 F		0.5 LB A/A		MP												
7	AMS	100 SG		1.5 % W/W		MP												
8	ROUNDUP ULTRA	4 AS		1 LB A/A		PRE	2	93	90	90	87	88	0	88	85	83	78	85
8	AMS	100 SG		17 LB/100 GAL		PRE												
8	AIM	40 DF		0.008 LB A/A		MP												
8	ROUNDUP ULTRA	4 AS		0.75 LB A/A		MP												
8	AMS	100 SG		17 LB/100 GAL		MP												
9	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		PRE	3	95	92	92	92	93	2	83	80	87	82	92
9	AMS	100 SG		17 LB/100 GAL		PRE												
9	AIM	40 DF		0.008 LB A/A		MP												
9	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		MP												
9	AMS	100 SG		17 LB/100 GAL		MP												
10	ROUNDUP ULTRA	4 AS		1 LB A/A		PRE	3	90	93	93	90	93	0	77	85	88	78	92
10	AMS	100 SG		17 LB/100 GAL		PRE												
10	DUAL II MAGNUM	7.6 EC		1.43 LB A/A		PRE												
10	AIM	40 DF		0.008 LB A/A		MP												
10	SPREADER HF			0.25 % V/V		MP												
11	ROUNDUP ULTRA	4 AS		1 LB A/A		PRE	2	93	92	92	92	92	2	90	78	90	80	90
11	AMS	100 SG		1.5 % W/W		PRE												
11	AXIOM	68 DF		0.55 LB A/A		PRE												
11	ROUNDUP ULTRA	4 AS		1 LB A/A		MP												
11	AMS	100 SG		17 LB/100 GAL		MP												
12	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		PRE	3	95	95	95	95	65	2	85	83	92	85	88
12	AMS	100 SG		1.5 % W/W		PRE												
12	EPIC	58 DF		0.435 LB A/A		PRE												
12	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		MP												
12	AMS	100 SG		17 LB/100 GAL		MP												
13	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		PRE	2	95	95	95	95	95	0	90	95	95	88	95
13	AMS	100 SG		1.5 % W/W		PRE												
13	BICEP II MAGNUM	5.5 L		2.88 LB A/A		PRE												
13	SPIRIT	57 WG		0.036 LB A/A		MP												
13	SPREADER HF			0.25 % V/V		MP												
13	AMS			17 LB/100 GAL		MP												

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Weed Code	SETFA	AMACH	CHEAL	IPOSS	ABUTH	SETFA	AMACH	CHEAL	IPOSS	ABUTH
Crop Code	ZEAMX					ZEAMX				
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL INJURY PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Crop Stage	P	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK		
14	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	2	95	95	95	95	93	0	90	92	95	87	93
14	AMS	100	SG	1.5	% W/W	PRE												
14	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE												
14	EXCEED	57	DF	0.036	LB A/A	MP												
14	SPREADER HF			0.25	% V/V	MP												
14	AMS			17	LB/100 GAL	MP												
15	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	1	92	91	95	92	92	2	87	92	92	87	90
15	AMS	100	SG	1.5	% W/W	PRE												
15	OUTLOOK	6	EC	0.75	LB A/A	PRE												
15	DISTINCT	70	WG	0.253	LB A/A	MP												
15	SPREADER HF			0.25	% V/V	MP												
15	LIQUID N		L	1	QT/A	MP												
16	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	95	93	93	92	92	0	92	93	92	83	90
16	AMS	100	SG	1.5	% W/W	PRE												
16	OUTLOOK	6	EC	0.75	LB A/A	PRE												
16	CELEBRITY PLUS	70	WG	0.21	LB A/A	MP												
16	SPREADER HF			0.25	% V/V	MP												
16	LIQUID N		L	1	QT/A	MP												
LSD (P=.05)							3.2	5.1	5.1	4.8	5.8	23.1	2.5	11.2	11.6	7.7	10.7	7.0
Standard Deviation							1.9	3.1	3.0	2.9	3.5	13.9	1.5	6.7	7.0	4.6	6.4	4.2
CV							103.28	3.29	3.28	3.12	3.78	15.43	354.96	7.63	7.87	5.1	7.75	4.63



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NO-TILL CORN POSTEMERGENCE ROUNDUP

Trial ID: C0005

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	AMACH	CHEAL	IPOSS	ABUTH	
Crop Code	ZEAMX					
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Crop Stage	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg						
1	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	83	87	87	77	87
1	AMS	100	SG	1.5	% W/W	PRE						
1	READYMASTER ATZ	4	SC	1	LB A/A	MP 12C						
1	AMS	100	SG	1.5	% W/W	MP 12C						
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	88	87	85	78	87
2	AMS	100	SG	1.5	% W/W	PRE						
2	ROUNDUP ULTRAMAX	5	SL	0.78	LB A/A	MP						
2	AMS	100	SG	1.5	% W/W	MP						
2	ROUNDUP ULTRAMAX	5	SL	0.78	LB A/A	24C						
2	AMS	100	SG	1.5	% W/W	24C						
3	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	82	75	80	70	77
3	AMS	100	SG	1.5	% W/W	PRE						
3	HARNNESS XTRA	5.6	EC	1.68	LB A/A	PRE						
3	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP						
3	AMS	100	SG	1.5	% W/W	LP						
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	83	87	87	80	87
4	AMS	100	SG	1.5	% W/W	PRE						
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	MP						
4	DEGREE XTRA	4.04	CS	1.5	LB A/A	MP						
4	AATREX	4	F	0.5	LB A/A	MP						
4	AMS	100	SG	1.5	% W/W	MP						
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	82	87	88	77	85
5	AMS	100	SG	1.5	% W/W	PRE						
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP						
5	AMS	100	SG	1.5	% W/W	MP						
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	24C						
5	AMS	100	SG	1.5	% W/W	24C						
6	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE	0	87	83	85	75	87
6	AMS	100	SG	1.5	% W/W	PRE						
6	HARNNESS XTRA	5.6	EC	1.68	LB A/A	PRE						
6	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP						
6	AMS	100	SG	1.5	% W/W	LP						

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Weed Code Crop Code Rating Data Type Rating Unit Crop Stage ARM Action Codes # Subsamples, Dec.	SETFA AMACH CHEAL IPOSS ABUTH									
	ZEAMX									
	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
	PERCENT	PERCENT	PERCENT	INJURY	PERCENT	PERCENT				
	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK				
	P	P	P	P	P	P				
	0	0	0	0	0	0				
Trt Treatment No. Name	Form Conc	Form Type Rate	Rate Unit	Grow Stg						
7 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE		0	88	88	90	77	90
7 AMS	100 SG	0.15 % W/W	PRE							
7 ROUNDUP ULTRA	4 AS	0.75 LB A/A	MP							
7 DEGREE XTRA	4.04 CS	1.5 LB A/A	MP							
7 AATREX	4 F	0.5 LB A/A	MP							
7 AMS	100 SG	1.5 % W/W	MP							
8 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE		0	85	75	80	72	85
8 AMS	100 SG	17 LB/100	GAL PRE							
8 AIM	40 DF	0.008 LB A/A	MP							
8 ROUNDUP ULTRA	4 AS	0.75 LB A/A	MP							
8 AMS	100 SG	17 LB/100	GAL MP							
9 ROUNDUP ULTRAMAX	5 SL	1 LB A/A	PRE		2	82	80	85	73	85
9 AMS	100 SG	17 LB/100	GAL PRE							
9 AIM	40 DF	0.008 LB A/A	MP							
9 ROUNDUP ULTRAMAX	5 SL	1 LB A/A	MP							
9 AMS	100 SG	17 LB/100	GAL MP							
10 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE		0	72	75	82	72	88
10 AMS	100 SG	17 LB/100	GAL PRE							
10 DUAL II MAGNUM	7.6 EC	1.43 LB A/A	PRE							
10 AIM	40 DF	0.008 LB A/A	MP							
10 SPREADER HF		0.25 % V/V	MP							
11 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE		0	87	77	87	75	88
11 AMS	100 SG	1.5 % W/W	PRE							
11 AXIOM	68 DF	0.55 LB A/A	PRE							
11 ROUNDUP ULTRA	4 AS	1 LB A/A	MP							
11 AMS	100 SG	17 LB/100	GAL MP							
12 ROUNDUP ULTRAMAX	5 SL	1 LB A/A	PRE		0	83	82	90	75	88
12 AMS	100 SG	1.5 % W/W	PRE							
12 EPIC	58 DF	0.435 LB A/A	PRE							
12 ROUNDUP ULTRAMAX	5 SL	1 LB A/A	MP							
12 AMS	100 SG	17 LB/100	GAL MP							
13 ROUNDUP ULTRAMAX	5 SL	1 LB A/A	PRE		0	88	90	92	87	90
13 AMS	100 SG	1.5 % W/W	PRE							
13 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE							
13 SPIRIT	57 WG	0.036 LB A/A	MP							
13 SPREADER HF		0.25 % V/V	MP							
13 AMS		17 LB/100	GAL MP							

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Weed Code	SETFA	AMACH	CHEAL	IPOSS	ABUTH
Crop Code	ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	INJURY PERCENT	PERCENT
Crop Stage	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
14	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	85	87	90	77	90
14	AMS	100	SG	1.5	% W/W	PRE						
14	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE						
14	EXCEED	57	DF	0.036	LB A/A	MP						
14	SPREADER HF			0.25	% V/V	MP						
14	AMS			17	LB/100 GAL	MP						
15	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	85	87	92	80	90
15	AMS	100	SG	1.5	% W/W	PRE						
15	OUTLOOK	6	EC	0.75	LB A/A	PRE						
15	DISTINCT	70	WG	0.253	LB A/A	MP						
15	SPREADER HF			0.25	% V/V	MP						
15	LIQUID N		L	1	QT/A	MP						
16	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	PRE	0	85	88	87	77	88
16	AMS	100	SG	1.5	% W/W	PRE						
16	OUTLOOK	6	EC	0.75	LB A/A	PRE						
16	CELEBRITY PLUS	70	WG	0.21	LB A/A	MP						
16	SPREADER HF			0.25	% V/V	MP						
16	LIQUID N		L	1	QT/A	MP						
LSD (P=.05)				1.2			10.3	9.9	7.6	8.4	5.6	
Standard Deviation				0.7			6.2	5.9	4.6	5.1	3.4	
CV				692.82			7.34	7.11	5.29	6.64	3.89	

## NO-TILL CORN POSTEMERGENCE ROUNDUP

Trial ID: C0005                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 04-28-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA GIANT FOXTAIL	SETARIA FABERI, HERM.
2.	AMACH SMOOTH PIGWEED	AMARANTHUS HYBRIDUS
3.	CHEAL LAMBSQUARTERS	CHENOPODIUM ALBUM
4.	IPOSS MORNINGGLORY SP.	IPOMOEA SP.
5.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI

Crop 1: ZEAMX    FIELD CORN                      Variety: DK626RR  
Planting Date: 04-28-00                      Planting Method: ROW  
Rate: 28000    S/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: MEDIUM  
Soil Temperature: 60    F    Soil Moisture: NORMAL                      Emergence Date: 05-07-00

## SITE AND DESIGN

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

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP                      Distance: 1.5    Unit: MI

## APPLICATION DESCRIPTION

A                      B                      C                      D

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Application Date:	04-28-00	05-26-00	06-06-00	06-06-00
Time of Day:	10:00 AM	2:00 PM	3:00 PM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	24C	LP
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	68 F	76 F	80 F	82 F
% Relative Humidity:	65	75	70	70
Wind Velocity, Unit:	5 MPH	4 MPH	4 MPH	5 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	60 F	62 F	64 F	65 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20	30

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX	ZEAMX 8 LF	ZEAMX 12 LF	ZEAMX 12 LF
Height, Unit:		12 IN	24 IN	24 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA	SETFA MP	SETFA 24 C	SETFA LP
Density, Unit:		3 IN	4 IN	4 IN
Weed 2 Code, Stage:	AMACH	AMACH	AMACH	AMACH
Density, Unit:		4 IN	6 IN	6 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Density, Unit:		3 IN	6 IN	6 IN
Weed 4 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Density, Unit:		2.5 IN	5 IN	5 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

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CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C0010 Investigator:  
Location: LEXINGTON, KY. Study Dir.: Charles Slack

Weed Code	SORHA		SORHA		SORHA	
	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Code	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P	P
PRM Data Type	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	0	87	0	87	0	87
1	HARNES	7	EC	1.05	LB A/A	PRE	0	87	0	87	0	87
1	ROUNDUP ULTRA	4	AS	1	LB A/A	18J						
1	AMS	100	SG	17	LB/100 GAL	18J						
1	DK 626											
2	HARNES XTRA	5.6	EC	1.68	LB A/A	PRE	0	88	0	83	0	83
2	ROUNDUP ULTRA	4	AS	1	LB A/A	18J						
2	AMS	100	SG	17	LB/100 GAL	18J						
2	DK 626											
3	HARNES XTRA	5.6	EC	2.24	LB A/A	PRE	0	83	0	78	0	78
3	ROUNDUP ULTRA	4	AS	1	LB A/A	18J						
3	AMS	100	SG	17	LB/100 GAL	18J						
3	DK 626											
4	READYMASTER ATZ	5.6	SC	2	LB A/A	18J	0	83	0	78	0	78
4	AMS	100	SG	17	LB/100 GAL	18J						
4	DK 626											
5	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	80	0	73	0	73
5	EXCEED	65	DF	0.036	LB A/A	18J						
5	COC		L	1	QT/A	18J						
5	DK 626											
6	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	87	0	85	0	85
6	ACCENT	75	WG	0.031	LB A/A	18J						
6	COC		L	1	QT/A	18J						
6	LIQUID N		L	2	QT/A	18J						
6	DK 626											
7	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	87	0	80	0	78
7	SPIRIT	57	WG	0.036	LB A/A	18J						
7	COC		L	1	QT/A	18J						
7	LIQUID N		L	2	QT/A	18J						
7	DK 626											

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SORHA	SORHA	SORHA	SORHA
							ZEAMX	ZEAMX	ZEAMX	ZEAMX
							INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL
							PERCENT	PERCENT	PERCENT	PERCENT
							2 WEEK	2 WEEK	4 WEEK	8 WEEK
							P	P	P	P
							0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg				
8	AATREX	4	F	1.5	LB A/A	PRE	0	93	0	85
8	ROUNDUP ULTRA	4	AS	1	LB A/A	12J				
8	AMS	100	SG	17	LB/100	GAL 12J				
8	DK 626									
9	AATREX	4	F	1.5	LB A/A	PRE	0	88	0	88
9	ROUNDUP ULTRA	4	AS	1	QT/A	18J				
9	AMS	100	SG	17	LB/100	GAL 18J				
9	DK 626									
10	ACCENT	75	WG	0.016	LB A/A	18J	0	57	0	57
10	SPIRIT	57	WG	0.018	LB A/A	18J				
10	COC		L	1	QT/A	18J				
10	LIQUID N		L	1	QT/A	18J				
10	DK 626									
11	ROUNDUP ULTRA	4	AS	1	LB A/A	12J	0	93	0	87
11	AMS	100	SG	17	LB/100	GAL 12J				
11	DK 626									
12	ROUNDUP ULTRA	4	AS	1	LB A/A	12J	0	85	0	90
12	AMS	100	SG	17	LB/100	GAL 12J				
12	ROUNDUP ULTRA	4	AS	0.75	LB A/A	REG				
12	AMS	100	SG	17	LB/100	GAL REG				
12	DK 626									
13	ROUNDUP ULTRA	4	AS	1	LB A/A	18J	0	88	0	85
13	AMS	100	SG	17	LB/100	GAL 18J				
13	DK 626									
14	ROUNDUP ULTRAMX	3.7	SL	1	LB A/A	12J	0	92	0	87
14	AMS	100	SG	17	LB/100	GAL 12J				
14	DK 626									
15	ROUNDUP ULTRAMX	3.7	SL	1	LB A/A	18J	0	92	0	85
15	AMS	100	SG	17	LB/100	GAL 18J				
15	DK 626									
16	GUARDSMAN	5	E	1.875	LB A/A	PRE	0	43	0	43
16	CELEBRITY PLUS	70	WG	0.21	LB A/A	18J				
16	SPREADER HF			0.25	% V/V	18J				
16	DK 626									

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Weed Code	SORHA		SORHA		SORHA	
	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Code	INJURY CONTROL		INJURY CONTROL		INJURY CONTROL	
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P	P
PRM Data Type	0	0	0	0	0	0
# Subsamples, Dec.						
Trt Treatment No. Name	Form Amt	Fm Ds	Rate	Unit	Grow Stg	
LSD (P=.05)	0.0	6.6	0.0	8.4	0.0	8.2
Standard Deviation	0.0	3.9	0.0	5.0	0.0	4.9
CV	0.0	4.74	0.0	6.33	0.0	6.21



CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C0010      Investigator:  
Location: LEXINGTON, KY.      Study Dir.: Charles Slack**GENERAL TRIAL INFORMATION**Study Director: CHARLES H. SLACK  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: Charles Slack

Postal Code: 40546

City: LEXINGTON      Initiation Date: 04-27-00      Country: USA  
State/Prov.: KY      Postal Code: 40546**CROP AND PEST DESCRIPTION**

Weed 1. SORHA JOHNSONGRASS

Crop 1: ZEAMX CORN, FIELD      Variety: DEKALB DK626RR      Planting Date: 04-27-00  
Planting Method: ROW      Rate: 28000 S/A      Depth: 1.5 IN  
Row Spacing: 30 IN      Seed Bed: MEDIUM  
Soil Temperature: 59 F      Soil Moisture: NORMAL      Emergence Date: 05-05-00Plot 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: 2.6      % Sand: 6      % Silt: 62      % Clay: 32  
pH: 6.5      CEC: 17      Soil Name: MAURY      Fertility Level: EXCELLENTOverall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 1.5      Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	04-27-00	05-26-00	05-26-00	06-07-00		
Time of Day:	10:00	11:00	11:00	1:30		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY		
Application Timing:	PRE	12J	18J	REG		
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI		
Air Temp., Unit:	58 F	65 F	65 F	78 F		
% Relative Humidity:	45	60	60	68		
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH	5 MPH		
Dew Presence (Y/N):	N	N	N	N		
Soil Temp., Unit:	60 F	70 F	70 F	72 F		
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE		
% Cloud Cover:	20	10	10	10		

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	PRE	12J	18J	REG		
		7LF	7LF	10LF		
		15 IN	15 IN	28 IN		

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	PRE	12J	18J	REG		
		7 LF	7 LF	7 LF		
		15 IN	15 IN	18 IN		

## 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:	20 IN	20 IN	20 IN	20 IN		
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH		
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA		
Propellant:	CO2	CO2	CO2	CO2		

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CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C0023 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

Weed Code	SORHA				IPOSS				AMBTR			
	ZEAMX	CONTROL	CONTROL	CONTROL	ZEAMX	CONTROL	CONTROL	CONTROL	ZEAMX	CONTROL	CONTROL	CONTROL
Crop Code	INJURY	PERCENT	PERCENT	PERCENT	INJURY	PERCENT	PERCENT	PERCENT	INJURY	PERCENT	PERCENT	PERCENT
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P	P	P	P
PRM Data Type	0	0	0	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.												

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	9	10		
1	AATREX	4	F	2	LB A/A	PRE	1	80	83	58	2	77	80	83	2	73	80	82
1	LIGHTNING	70	DG	0.056	LB A/A	12J												
1	COC	L		1	QT/A	12J												
1	LIQUID N	L		1	QT/A	12J												
2	PROWL	3.3	EC	1.05	LB A/A	PRE	3	80	85	85	0	73	83	82	0	72	85	85
2	AATREX	4	F	2	LB A/A	PRE												
2	LIGHTNING	70	DG	0.056	LB A/A	12J												
2	COC	L		1	QT/A	12J												
2	LIQUID N	L		1	QT/A	12J												
3	AATREX	4	F	1	LB A/A	PRE	2	73	83	87	2	67	78	85	0	65	78	87
3	LIGHTNING	70	DG	0.056	LB A/A	12J												
3	COC	L		1	QT/A	12J												
3	LIQUID N	L		1	QT/A	12J												
4	AATREX	4	F	1.5	LB A/A	PRE	12	52	68	73	7	45	65	68	10	43	63	70
4	EXCEED	57	DF	0.036	LB A/A	12J												
4	COC	L		1	QT/A	12J												
4	LIQUID N	L		1	QT/A	12J												
5	AATREX	4	F	1.5	LB A/A	PRE	10	73	82	83	5	68	75	78	8	65	75	83
5	ACCENT	75	WG	0.031	LB A/A	12J												
5	COC	L		1	QT/A	12J												
5	LIQUID N	L		1	QT/A	12J												
6	ACCENT GOLD	75	DF	0.023	LB A/A	12J	0	83	87	87	0	80	78	83	0	75	83	87
6	AATREX	4	F	0.45	LB A/A	12J												
6	COC	L		1	QT/A	12J												
6	LIQUID N	L		2	QT/A	12J												
7	BASIS GOLD	89.5	DF	0.79	LB A/A	12J	0	80	87	88	0	72	83	87	0	70	83	88
7	COC	L		1	QT/A	12J												
7	LIQUID N	L		2	QT/A	12J												
8	CELEBRITY PLUS	70	WG	0.21	LB A/A	12J	0	82	85	88	0	82	82	87	0	77	82	87
8	SPREADER HF			0.25	% v/v	12J												
8	LIQUID N	L		2	QT/A	12J												

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Weed Code	SORHA			IPOSS			AMBTR			SORHA			IPOSS			AMBTR			
Crop Code	ZEAMX			ZEAMX			ZEAMX			ZEAMX			ZEAMX			ZEAMX			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
PRM Data Type	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SORHA			IPOSS			AMBTR					
9 SPIRIT	57	WG	0.036	LB A/A	12J	2	75	85	88	2	70	78	85	0	70	82	88
9 COC	L		1	QT/A	12J												
9 LIQUID N	L		1	QT/A	12J												
10 SPIRIT	57	WG	0.018	LB A/A	12J	0	83	87	90	0	80	82	85	0	78	77	90
10 ACCENT	75	WG	0.016	LB A/A	12J												
10 COC	L		1	QT/A	12J												
10 LIQUID N	L		1	QT/A	12J												
LSD (P=.05)			11.2				16.2	13.5	26.5	4.8	16.4	14.6	14.0	11.2	19.0	16.7	16.6
Standard Deviation			6.5				9.4	7.9	15.5	2.8	9.6	8.5	8.2	6.5	11.1	9.8	9.7
CV			206.76				12.39	9.46	18.66	167.33	13.39	10.81	9.94	326.67	16.07	12.38	11.43

09-19-00 (C0023)

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Site Description Page 1 of 3

CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C0023                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.          Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

Trial Status: COMPLETE                      Initiation Date: 04-27-00      Country: USA  
City: LEXINGTON                      State/Prov.: KY                      Postal Code: 40546

**CROP AND PEST DESCRIPTION**

Weed 1.SORHA JOHNSONGRASS                      2.IPOSS MORNINGGLORY SP.  
Weed 3.AMBTR GIANT RAGWEED

Crop 1:ZEAMX FIELD CORN      Variety: GARST 8541IT      Planting Date: 04-27-00  
Planting Method: ROW                      Rate: 28000 S/A                      Depth: 1.5 IN  
                    Row Spacing: 30 IN      Seed Bed: MEDIUM  
Soil Temperature: 59 F      Soil Moisture: ADEQUATE      Emergence Date: 05-06-00

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: 2.7      % Sand: 5      % Silt: 65      % Clay: 30  
pH: 6.5      CEC: 17      Soil Name: MAURY                      Fertility Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP                      Distance: 1.8      Unit: MI

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	04-27-00	05-22-00				
Time of Day:	4:00 PM	10:00 AM				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	12J				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	72 F	85 F				
% Relative Humidity:	70	75				
Wind Velocity, Unit:	3 MPH	3 MPH				
Dew Presence (Y/N):	N	N				
Soil Temp., Unit:	58 F	70 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	20	20				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 ZEAMX Stage:	PRE	12J 5 LF 8 IN				
ZEAMX	G	H	I	J	K	L

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 SORHA Stage:	PRE	12J 7 LF 12 IN				

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	ATV	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:	18 IN	18 IN				
Ground Speed, Unit:	3.5 IN	3.5 IN				
Carrier:	WATER	WATER				
Spray Volume, Unit:	24 GPA	24 GPA				
Propellant:	CO2	CO2				

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NO-TILL CORN STALKLAND

Trial ID: C0004  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH
Crop Code	ZEAMX				ZEAMX				ZEAMX			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	85	88	90	0	83	87	90	0	83	87	90
1	DEGREE XTRA	4.04	CS	2.8	LB A/A	PRE	0	85	88	90	0	83	87	90	0	83	87	90
1	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
1	AMS	100	SG	17	LB/100	GAL PRE												
2	HARNESX XTRA	5.6	EC	3.36	LB A/A	PRE	0	88	95	90	0	87	92	88	0	87	92	88
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
2	AMS	100	SG	17	LB/100	GAL PRE												
3	BICEP II MAGNUM	5.5	L	2.8	LB A/A	PRE	0	88	90	92	0	88	90	85	0	88	90	83
3	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
3	AMS	100	SG	17	LB/100	GAL PRE												
4	EPIC	58	DF	0.435	LB A/A	PRE	0	88	93	95	0	90	92	90	0	90	90	88
4	AATREX	4	F	1.8	LB A/A	PRE												
4	WEEDONE LV4	3.8	E	0.5	LB A/A	PRE												
4	COC		L	1	QT/A	PRE												
5	AXIOM AT	75	WG	2.25	LB A/A	PRE	0	88	95	88	0	87	93	85	0	87	88	85
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
5	AMS	100	SG	17	LB/100	GAL PRE												
6	FULTIME	4	CS	1.7	LB A/A	PRE	0	97	95	95	0	92	93	90	0	88	90	90
6	AATREX	4	F	0.5	LB A/A	PRE												
6	PRINCEP	4	F	0.5	LB A/A	PRE												
6	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE												
6	INDUCE			0.125	% V/V	PRE												
7	FULTIME	4	CS	3	LB A/A	PRE	0	92	83	92	0	88	83	90	0	88	83	88
7	AATREX	4	F	0.3	LB A/A	PRE												
7	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE												
7	INDUCE			0.125	% V/V	PRE												
8	FULTIME	4	CS	3	LB A/A	PRE	0	95	90	88	0	90	90	87	0	90	88	87
8	BALANCE	4	SC	0.07	LB A/A	PRE												
8	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE												
8	INDUCE			0.125	% V/V	PRE												



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-Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	Trt Treatment No. Name	Form Form Conc Type Rate	Rate Unit	Grow Stg	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH		
					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
					INJURY CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL		
					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
					2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK		
					P	P	P	P	P	P	P	P	P		
					0	0	0	0	0	0	0	0	0		
9 ICIA5676/ZA1296	3.5 CS	1.75 LB A/A	PRE	0	87	83	90	0	87	83	87	0	87	83	87
9 TOUCHDOWN 5	5 SL	0.75 LB A/A	PRE												
9 AMS	100 SG	17 LB/100 GAL	PRE												
10 ICIA5676/ZA1296	3.5 CS	1.9688 LB A/A	PRE	0	97	95	90	0	93	92	88	0	92	92	88
10 TOUCHDOWN 5	5 SL	0.75 LB A/A	PRE												
10 AMS	100 SG	17 LB/100 GAL	PRE												
11 ICIA5676/ZA1296	3.5 CS	2.1875 LB A/A	PRE	0	90	88	88	0	90	88	87	0	90	88	87
11 TOUCHDOWN 5	5 SL	0.75 LB A/A	PRE												
11 AMS	100 SG	17 LB/100 GAL	PRE												
12 ICIA5676/ZA1296	3.5 CS	1.75 LB A/A	PRE	0	88	95	87	0	88	95	82	0	88	90	82
12 GRAMOXONE EXTRA	2.5 AS	0.625 LB A/A	PRE												
12 INDUCE		0.125 % V/V	PRE												
13 ICIA5676/ZA1296	3.5 CS	1.9688 LB A/A	PRE	0	95	88	92	0	93	88	88	0	93	88	88
13 GRAMOXONE EXTRA	2.5 AS	0.625 LB A/A	PRE												
13 INDUCE		0.125 % V/V	PRE												
14 ICIA5676/ZA1296	3.5 CS	2.1875 LB A/A	PRE	0	90	88	88	0	90	87	88	0	90	87	88
14 GRAMOXONE EXTRA	2.5 AS	0.625 LB A/A	PRE												
14 INDUCE		0.125 % V/V	PRE												
15 AIM	40 DF	0.008 LB A/A	PRE	0	88	95	83	0	88	95	82	0	88	92	82
15 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE												
15 WEEDONE LV4	3.8 E	0.5 LB A/A	PRE												
15 COC	L	1 QT/A	PRE												
16 AIM	40 DF	0.008 LB A/A	PRE	0	98	97	87	0	92	95	85	0	92	90	85
16 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE												
16 WEEDONE LV4	3.8 E	0.5 LB A/A	PRE												
16 ROUNDUP ULTRA	4 AS	0.5 LB A/A	PRE												
16 AMS	100 SG	17 LB/100 GAL	PRE												
17 AIM	40 DF	0.008 LB A/A	PRE	0	95	95	93	0	92	93	90	0	90	90	90
17 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE												
17 GRAMOXONE EXTRA	2.5 AS	0.625 LB A/A	PRE												
17 COC	L	1 QT/A	PRE												
18 AIM	40 DF	0.008 LB A/A	PRE	0	95	95	88	0	92	95	85	0	90	90	85
18 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE												
18 ROUNDUP ULTRA	4 AS	0.75 LB A/A	PRE												
18 AMS	100 SG	17 LB/100 GAL	PRE												

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH			
							ZEAMX INJURY CONTROL CONTROL CONTROL	ZEAMX INJURY CONTROL CONTROL CONTROL	ZEAMX INJURY CONTROL CONTROL CONTROL									
							PERCENT 2 WEEK	PERCENT 2 WEEK	PERCENT 2 WEEK	PERCENT 2 WEEK	PERCENT 4 WEEK	PERCENT 4 WEEK	PERCENT 4 WEEK	PERCENT 4 WEEK	PERCENT 8 WEEK	PERCENT 8 WEEK	PERCENT 8 WEEK	
							P	P	P	P	P	P	P	P	P	P	P	
							0	0	0	0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg												
19	BALANCE	4	SC	0.094	LB A/A	PRE	0	97	90	90	0	90	90	90	0	90	90	90
19	AATREX	4	F	1.5	LB A/A	PRE												
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
19	AMS	100	SG	17	LB/100 GAL	PRE												
20	BALANCE	75	WG	0.094	LB A/A	PRE	0	88	90	90	0	88	90	87	0	88	90	87
20	AATREX	4	F	1.5	LB A/A	PRE												
20	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
20	AMS	100	SG	17	LB/100 GAL	PRE												
21	BALANCE	4	SC	0.094	LB A/A	PRE	0	90	95	92	0	90	93	88	0	90	90	88
21	BICEP II MAGNUM	5.5	L	1.9	LB A/A	PRE												
21	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
21	AMS	100	SG	17	LB/100 GAL	PRE												
22	BALANCE	75	WG	0.094	LB A/A	PRE	0	83	90	92	0	83	90	88	0	83	90	87
22	BICEP II MAGNUM	5.5	L	1.9	LB A/A	PRE												
22	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
22	AMS	100	SG	17	LB/100 GAL	PRE												
23	EXP31430A	4.3	SC	1.34	LB A/A	PRE	0	90	95	97	0	90	93	92	0	90	92	92
23	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
23	AMS	100	SG	17	LB/100 GAL	PRE												
24	READYMASTER ATZ	5.6	SC	2	LB A/A	PRE	0	77	90	92	0	75	90	82	0	75	88	82
25	GUARDSMAN	5	E	0.94	LB A/A	PRE	0	97	95	97	0	92	95	92	0	90	92	92
25	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
25	AMS	100	SG	17	LB/100 GAL	PRE												
25	CELEBRITY PLUS	70	WG	0.21	LB A/A	MP												
25	INDUCE			0.25	% V/V	MP												
25	LIQUID N		L	2.5	QT/A	MP												
26	GUARDSMAN	5	E	0.94	LB A/A	PRE	0	90	93	93	0	90	93	92	0	90	90	90
26	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
26	AMS	100	SG	17	LB/100 GAL	PRE												
26	DISTINCT	70	WG	0.26	LB A/A	MP												
26	INDUCE			0.25	% V/V	MP												
26	LIQUID N		L	2.5	QT/A	MP												

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Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	Trt Treatment No. Name	Form Form Conc Type Rate	Rate Unit	Grow Stg	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH	SETFA	DIGSA	AMACH			
					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
					INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	
					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
					2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
					P	P	P	P	P	P	P	P	P			
					0	0	0	0	0	0	0	0	0			
27 OUTLOOK	6 EC	0.75 LB A/A	PRE	0	97	95	95	0	90	95	93	0	90	92	93	
27 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE													
27 AMS	100 SG	17 LB/100 GAL	PRE													
27 DISTINCT	70 WG	0.26 LB A/A	MP													
27 INDUCE		0.25 % V/V	MP													
27 LIQUID N	L	2.5 QT/A	MP													
28 LEADOFF	5 CS	1.25 LB A/A	PRE	0	92	90	93	0	87	90	93	0	87	90	90	
28 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE													
28 AMS	100 SG	17 LB/100 GAL	PRE													
28 BASIS GOLD	89.5 DF	0.78 LB A/A	MP													
28 COC	L	1 QT/A	MP													
29 BICEP II MAGNUM	5.5 L	2.88 LB A/A	PRE	2	97	95	95	0	90	93	92	0	88	92	92	
29 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE													
29 AMS	100 SG	17 LB/100 GAL	PRE													
29 SPIRIT	57 WG	0.036 LB A/A	MP													
29 INDUCE		0.25 % V/V	MP													
29 AMS	100 SG	17 LB/100 GAL	MP													
30 AATREX	4 F	1.5 LB A/A	PRE	0	95	95	97	0	95	95	92	0	93	93	92	
30 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE													
30 AMS	100 SG	17 LB/100 GAL	PRE													
30 LIGHTNING	70 DG	0.056 LB A/A	MP													
30 AIM	40 DF	0.008 % V/V	MP													
30 INDUCE		0.25 % V/V	MP													
30 LIQUID N	L	1 QT/A	MP													
31 AATREX	4 F	1.5 LB A/A	PRE	0	97	95	97	0	93	95	95	0	93	95	95	
31 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE													
31 AMS	100 SG	17 LB/100 GAL	PRE													
31 LIGHTNING	70 DG	0.056 LB A/A	MP													
31 DISTINCT	70 WG	0.175 LB A/A	MP													
31 COC	L	1 QT/A	MP													
31 LIQUID N	L	1 QT/A	MP													
32 AATREX	4 F	1.5 LB A/A	PRE	0	90	93	92	0	90	92	90	0	90	92	90	
32 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE													
32 AMS	100 SG	17 LB/100 GAL	PRE													
32 LIGHTNING	70 DG	0.056 LB A/A	MP													
32 DISTINCT	70 WG	0.175 LB A/A	MP													
32 INDUCE		0.25 % V/V	MP													
32 LIQUID N	L	1 QT/A	MP													

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Weed Code	SETFA			DIGSA			AMACH			SETFA			DIGSA			AMACH		
	ZEAMX	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	
Crop Code	ZEAMX			ZEAMX			ZEAMX			ZEAMX			ZEAMX			ZEAMX		
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Trt Treatment	Form	Form	Rate	Grow														
No. Name	Conc	Type	Rate	Unit	Stg													
LSD (P=.05)	0.8	4.5	2.6	4.2	0.0	4.2	3.7	5.9	0.0	4.0	4.1	5.9						
Standard Deviation	0.5	2.8	1.6	2.5	0.0	2.6	2.3	3.6	0.0	2.5	2.5	3.6						
CV	979.8	3.04	1.7	2.78	0.0	2.88	2.5	4.11	0.0	2.79	2.78	4.08						

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Weed Science Field Research

NO-TILL CORN STALKLAND

Trial ID: C0004                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-28-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	DIGSA CRABGRASS, LARGE	DIGITARIA SANGUINALIS (L.) SCOP.
3.	AMACH PIGWEED, SMOOTH	AMARANTHUS CHLOROSTACHYS WILLD.

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** GARST 8541 IT  
**Planting Date:** 04-28-00                      **Planting Method:** ROW  
**Rate:** 28000 S/A                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 59 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-06-00

**SITE AND DESIGN**

**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**

% Sand: 6	% OM: 2.6	Texture: SILT LOAM
% Silt: 64	pH: 6.7	Soil Name: MAURY
% Clay: 30	CEC: 18	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.5                      **Unit:** MI**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	04-28-00	05-31-00
<b>Time of Day:</b>	11:00	1:00

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Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Applic. Placement:	BROSOI	BROFOI
Air Temp., Unit:	58 F	68 F
% Relative Humidity:	50	65
Wind Velocity, Unit:	3 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	59 F	68 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX PRE	ZEAMX MP
Stage Scale:		8 LF
Height, Unit:		20 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA MP
Stage Scale:		4 LF
Density, Unit:		5 IN
Weed 2 Code, Stage:	DIGSA	DIGSA
Stage Scale:		6 LF
Density, Unit:		4 IN
Weed 3 Code, Stage:	AMACH	AMACH
Stage Scale:		6 LF
Density, Unit:		5 IN

## APPLICATION EQUIPMENT

	A	B
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:	20 IN	20 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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## NO-TILL CORN EARLY PREPLANT

Trial ID: C0007

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	ABUTH	AMACH	SETFA	SETFA
Crop Code	ZEAMX			ZEAMX	ZEAMX
Rating Data Type	INJJURY CONTROL	CONTROL	CONTROL	INJJURY CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Stage	4 WEEK	4 WEEK	4 WEEK	8 WEEK	12 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	ABUTH	AMACH	SETFA	SETFA			
1	DEGREE	3.8	CS	2	LB A/A	45 DAP	2	82	27	28	2	60	0	53
2	HARNESS	7	EC	2	LB A/A	45 DAP	0	45	25	23	0	30	0	23
3	DUAL II MAGNUM	7.6	EC	1.4	LB A/A	45 DAP	3	73	28	27	3	65	0	62
4	FRONTIER	6	E	1.3	LB A/A	45 DAP	2	58	30	32	2	42	0	38
5	TOPNOTCH	3.2	CS	2	LB A/A	45 DAP	2	68	27	32	2	53	0	50
6	AXIOM	68	DF	0.9	LB A/A	45 DAP	2	75	25	35	2	57	0	53
7	DEGREE XTRA	4.04	CS	2.8	LB A/A	45 DAP	0	77	37	45	0	60	0	60
8	BICEP II MAGNUM	5.5	L	2.9	LB A/A	45 DAP	3	82	45	48	3	68	0	65
9	FULTIME	4	CS	3.1	LB A/A	45 DAP	2	72	32	28	2	58	0	57
10	HARNESS XTRA	5.6	EC	2.7	LB A/A	45 DAP	0	42	28	22	0	37	0	37
11	DEGREE	3.8	CS	2	LB A/A	30 DAP	2	83	45	50	2	67	0	65
12	HARNESS	7	EC	2	LB A/A	30 DAP	2	70	25	30	2	55	0	52
13	DUAL II MAGNUM	7.6	EC	1.4	LB A/A	30 DAP	0	85	35	38	0	75	0	68
14	FRONTIER	6	E	1.3	LB A/A	30 DAP	0	73	28	30	0	60	0	57
15	TOPNOTCH	3.2	CS	2	LB A/A	30 DAP	0	77	27	24	0	53	0	48
16	AXIOM	68	DF	0.9	LB A/A	30 DAP	5	85	25	27	5	72	0	65
17	DEGREE XTRA	4.04	CS	2.8	LB A/A	30 DAP	2	88	42	47	2	77	0	77
18	BICEP II MAGNUM	5.5	L	2.9	LB A/A	30 DAP	7	92	62	62	7	75	0	75
19	FULTIME	4	CS	3.1	LB A/A	30 DAP	5	88	40	47	5	70	0	70
20	HARNESS XTRA	5.6	EC	2.7	LB A/A	30 DAP	2	55	25	23	2	50	0	48

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Crop Stage	ARM Action Codes	# Subsamples, Dec.	SETFA		ABUTH		AMACH		SETFA		SETFA	
							ZEAMX	INJJURY	CONTROL	CONTROL	CONTROL	INJJURY	CONTROL	ZEAMX	INJJURY	CONTROL
							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
							4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	12 WEEK	12 WEEK	12 WEEK	12 WEEK
							P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Rate	Grow Stg										
21 DEGREE	3.8	CS	2	LB	A/A	PRE	7	88	42	47	7	70	0	70		
22 HARNESS	7	EC	2	LB	A/A	PRE	7	92	47	50	7	77	0	73		
23 DUAL II MAGNUM	7.6	EC	1.4	LB	A/A	PRE	5	80	33	37	5	67	0	63		
24 FRONTIER	6	E	1.3	LB	A/A	PRE	2	93	25	28	2	75	0	75		
25 TOPNOTCH	3.2	CS	2	LB	A/A	PRE	2	88	32	33	2	72	0	68		
26 AXIOM	60	DF	0.9	LB	A/A	PRE	3	90	42	48	3	77	0	77		
27 DEGREE XTRA	4.04	CS	2.8	LB	A/A	PRE	0	95	42	48	0	73	0	73		
28 BICEP II MAGNUM	5.5	L	2.9	LB	A/A	PRE	0	90	25	30	0	72	0	68		
29 FULTIME	4	CS	3.1	LB	A/A	PRE	0	93	25	28	0	72	0	70		
30 HARNESS XTRA	5.6	EC	2.7	LB	A/A	PRE	0	87	38	38	0	68	0	65		
LSD (P=.05)							6.4	15.7	22.6	21.3	6.4	16.5	0.0	14.4		
Standard Deviation							3.9	9.6	13.8	13.0	3.9	10.1	0.0	8.8		
CV							186.19	12.2	41.21	35.99	186.19	15.93	0.0	14.44		



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NO-TILL CORN EARLY PREPLANT

Trial ID: C0007                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 03-13-00  
Country: USA

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA GIANT FOXTAIL	SETARIA FABERI
2.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI
3.	AMACH PIGWEED, SMOOTH	AMARANTHUS CHLOROSTACHYS WILLD.

Crop 1: ZEAMX    FIELD CORN                      Variety: GARST 8541IT  
Planting Date: 04-26-00                      Planting Method: ROW  
Rate: 28000    S/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: ROUGH/TRASHY  
Soil Temperature: 55    F    Soil Moisture: BELOW NORMAL    Emergence Date: 05-08-00

SITE AND DESIGN

Plot Width, Unit: 5            FT            Plot Length, Unit: 44            FT            Reps: 3  
Study Design: SPLIT-BLOCK

SOIL DESCRIPTION

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: ADEQUATE  
Closest Weather Station: SPINDLETOP                      Distance: 1.5    Unit: MI

APPLICATION DESCRIPTION

	A	B	C
Application Date:	03-13-00	03-28-00	04-27-00

Time of Day:	10:00 AM	2:00 PM	2:00 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	45 DAP	30 DAP	PRE
Applic. Placement:	BROSOI	BROSOI	BROSOI
Air Temp., Unit:	45 F	55 F	56 F
% Relative Humidity:	25	45	55
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Moisture:	ADEQUATE	INADEQUATE	ADEQUATE
% Cloud Cover:	20	10	10

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Height, Unit:	0 in	0 in	0 in

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA 45 DAP	SETFA 30 DAP	SETFA PRE
Weed 2 Code, Stage:	ABUTH	ABUTH	ABUTH
Weed 3 Code, Stage:	AMACH	AMACH	AMACH

## APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2

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NO-TILL CORN EARLY PREPLANT II

Trial ID: C0008

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	AMACH		SETFA	AMACH		SETFA	AMACH		SETFA
	ZEAMX			ZEAMX			ZEAMX		
	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
	P	P	P	P	P	P	P	P	P
	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg									
1 BICEP II MAGNUM	5.5	L	2.88	LB A/A	3WK	0	90	90	0	90	87	0	90	87
1 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
1 INDUCE			0.125	% V/V	3WK									
2 HARNESS XTRA	5.6	EC	3.36	LB A/A	3WK	0	68	82	0	68	80	0	68	77
2 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
2 INDUCE			0.125	% V/V	3WK									
3 GUARDSMAN	5	E	2.88	LB A/A	3WK	0	91	96	0	88	92	0	88	87
3 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
3 INDUCE			0.125	% V/V	3WK									
4 TOPNOTCH	3.2	CS	2	LB A/A	3WK	0	91	88	0	85	83	0	85	83
4 AATREX	4	F	1.5	LB A/A	3WK									
4 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
4 INDUCE			0.125	% V/V	3WK									
5 DEGREE XTRA	4.04	CS	2.8	LB A/A	3WK	0	90	87	0	88	85	0	88	85
5 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
5 INDUCE			0.125	% V/V	3WK									
6 BASIS	75	DF	0.0234	LB A/A	3WK	0	95	83	0	92	83	0	92	83
6 AATREX	4	F	1	LB A/A	3WK									
6 WEEDONE LV4	3.8	E	0.5	LB A/A	3WK									
6 COC	L		1	QT/A	3WK									
6 BASIS GOLD	89.5	DF	0.78	LB A/A	MP									
6 COC	L		1	QT/A	MP									
7 FULTIME	4	CS	2.7	LB A/A	3WK	0	83	92	0	78	90	0	78	85
7 AATREX	4	F	0.5	LB A/A	3WK									
7 PRINCEP	4	F	0.5	LB A/A	3WK									
7 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
7 WEEDONE LV4	3.8	E	0.5	LB A/A	3WK									
7 INDUCE			0.125	% V/V	3WK									
8 FULTIME	4	CS	3	LB A/A	3WK	0	88	93	0	87	88	0	87	85
8 AATREX	4	F	0.3	LB A/A	3WK									
8 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	3WK									
8 INDUCE			0.125	% V/V	3WK									

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Weed Code	AMACH	SETFA	AMACH	SETFA	AMACH	SETFA	AMACH	SETFA
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX	
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Grow Unit	Stg									
9 FULTIME	4	CS	3 LB	A/A	3WK	0	93	93	0	90	87	0	90	85
9 BALANCE	4	SC	0.07 LB	A/A	3WK									
9 GRAMOXONE EXTRA	2.5	AS	0.625 LB	A/A	3WK									
9 INDUCE			0.125 %	V/V	3WK									
10 EPIC	58	DF	0.544 LB	A/A	2WK	0	93	96	0	90	87	0	90	88
10 AATREX	4	F	1.8 LB	A/A	2WK									
10 WEEDONE LV4	3.8	E	0.5 LB	A/A	2WK									
10 COC		L	1 QT/A		2WK									
11 EPIC	58	DF	0.435 LB	A/A	1WK	0	95	93	0	88	85	0	88	85
11 AATREX	4	F	1.8 LB	A/A	1WK									
11 WEEDONE LV4	3.8	E	0.5 LB	A/A	1WK									
11 COC		L	1 QT/A		1WK									
12 EPIC	58	DF	0.435 LB	A/A	PRE	0	93	92	0	88	88	0	88	88
12 AATREX	4	F	1.8 LB	A/A	PRE									
12 WEEDONE LV4	3.8	E	0.5 LB	A/A	PRE									
12 COC		L	1 QT/A		PRE									
LSD (P=.05)			0.0			0.0	11.3	7.7	0.0	9.4	5.2	0.0	9.4	5.5
Standard Deviation			0.0			0.0	6.7	4.6	0.0	5.6	3.0	0.0	5.6	3.2
CV			0.0			0.0	7.46	5.06	0.0	6.45	3.53	0.0	6.45	3.83

NO-TILL CORN EARLY PREPLANT II

Trial ID: C0008 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: LEXINGTON Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546 Initiation Date: 04-07-00  
Country: USA

CROP AND WEED DESCRIPTION

Weed Code Common Name Scientific Name  
1. SETFA FOXTAIL, GIANT SETARIA FABERI HERRM.  
2. AMACH PIGWEED, SMOOTH AMARANTHUS CHLOROSTACHYS WILLD.

Crop 1: ZEAMX CORN, FIELD Variety: GARST 8541 IT  
Planting Date: 04-28-00 Planting Method: ROW  
Rate: 28000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 59 F Soil Moisture: NORMAL Emergence Date: 05-06-00

SITE AND DESIGN

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

% Sand: 6 % OM: 2.6 Texture: SILT LOAM  
% Silt: 63 pH: 6.5 Soil Name: MAURY  
% Clay: 31 CEC: 17 Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	04-07-00	04-14-00	04-21-00	04-28-00	05-31-00
Time of Day:	10:45	1:30	10:00	10:00	11:00

Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	3WK	2WK	1WK	PRE	MP
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	60 F	64 F	49 F	51 F	70 F
% Relative Humidity:	50	65	62	50	70
Wind Velocity, Unit:	3 MPH	5 MPH	3 MPH	3 MPH	5 MPH
Dew Presence (Y/N):	N	N	N	N	N
Soil Temp., Unit:	55 F	56 F	57 F	59 F	67
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10	20	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	ZEAMX 3WK	ZEAMX 2WK	ZEAMX 1WK	ZEAMX PRE	ZEAMX MP
Stage Scale:					6 LF
Height, Unit:					12 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code, Stage:	SETFA 3WK	SETFA 2WK	SETFA 1WK	SETFA PRE	SETFA MP
Stage Scale:				1 LF	4 LF
Density, Unit:				1 IN	5 IN
Weed 2 Code, Stage:	AMACH	AMACH	AMACH	AMACH	AMACH
Stage Scale:					6 LF
Density, Unit:					4 IN

## APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	ATV	ATV	ATV	ATV	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	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	3.5 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

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

SOYBEAN PREEMERGENCE

Trial ID: S0011  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	IPOSS	CHEAL	SETFA	XANST	IPOSS	CHEAL
							GLYMA INJURY PERCENT 2 WEEK	GLYMA CONTROL PERCENT 2 WEEK	GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK
1 AXIOM	68 DF	0.77 LB A/A	A/A	PRE	0	95	80	77	.88	0	90	77	73	87
1 FIRSTRATE	84 W	0.032 LB A/A	A/A	PRE										
2 AXIOM	68 DF	0.77 LB A/A	A/A	PRE	0	85	43	82	88	0	85	37	80	88
2 CANOPY XL	75 DF	0.12 LB A/A	A/A	PRE										
2 AUTHORITY	25 DF	0.024 LB A/A	A/A	PRE										
2 CLASSIC														
3 AXIOM	68 DF	0.468 LB A/A	A/A	PRE	0	65	40	68	72	0	63	27	67	68
3 DOMAIN	60 DF	0.413 LB A/A	A/A	PRE										
3 CANOPY XL														
3 AUTHORITY	75 DF	0.073 LB A/A	A/A	PRE										
3 CLASSIC	25 DF	0.015 LB A/A	A/A	PRE										
3 AUTHORITY	75 DF	0.117 LB A/A	A/A	PRE										
4 AXIOM	68 DF	0.51 LB A/A	A/A	PRE	0	85	83	83	85	0	82	80	80	85
4 DOMAIN	60 DF	0.45 LB A/A	A/A	PRE										
4 FIRSTRATE	84 W	0.032 LB A/A	A/A	PRE										
5 AXIOM	68 DF	0.77 LB A/A	A/A	PRE	3	92	82	92	87	0	87	83	88	83
5 FIRSTRATE	84 W	0.016 LB A/A	A/A	MP										
5 SPREADER HF		0.25 % V/V	V/V	MP										
5 LIQUID N	L	2.5 QT/A	QT/A	MP										
6 DOMAIN	60 DF	0.375 LB A/A	A/A	PRE	0	95	82	82	95	0	95	82	80	95
6 ROUNDUP ULTRA	4 AS	0.75 LB A/A	A/A	MP										
6 AMS	100 SG	17 LB/100	GAL	MP										
7 DOMAIN	60 DF	0.375 LB A/A	A/A	PRE	10	95	80	72	93	5	92	83	82	90
7 PURSUIT	70 DF	0.063 LB A/A	A/A	MP										
7 SPREADER HF		0.25 % V/V	V/V	MP										
7 LIQUID N	L	1 QT/A	QT/A	MP										
8 DOMAIN	60 DF	0.375 LB A/A	A/A	PRE	15	93	78	80	92	5	93	87	83	92
8 RAPTOR	1 E	0.039 LB A/A	A/A	MP										
8 SPREADER HF		0.25 % V/V	V/V	MP										
8 LIQUID N	L	1 QT/A	QT/A	MP										

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	IPOSS	CHEAL	SETFA	XANST	IPOSS	CHEAL		
							GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA 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 Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Rate Unit	Grow Stg										
9 DOMAIN	60	DF	0.375	LB A/A	LB A/A	PRE	2	93	83	88	68	0	93	87	85	65
9 FIRSTRATE	84	W	0.016	LB A/A	LB A/A	MP										
9 SELECT	2	EC	0.094	LB A/A	LB A/A	MP										
9 COC	L		0.5	QT/A	QT/A	MP										
9 AMS	100	SG	2	LB A/A	LB A/A	MP										
10 FIRSTRATE	84	W	0.031	LB A/A	LB A/A	PRE	0	95	75	82	92	0	95	70	78	92
10 AUTHORITY	75	DF	0.248	LB A/A	LB A/A	PRE										
10 COMMAND	3	ME	0.75	LB A/A	LB A/A	PRE										
11 FIRSTRATE	84	W	0.031	LB A/A	LB A/A	PRE	0	98	93	90	98	0	95	92	90	95
11 AUTHORITY	75	DF	0.248	LB A/A	LB A/A	PRE										
11 COMMAND	3	ME	0.75	LB A/A	LB A/A	PRE										
11 ROUNDUP ULTRA	4	AS	0.5	LB A/A	LB A/A	MP										
11 AMS	100	SG	17	LB/100	GAL	MP										
12 FIRSTRATE	84	W	0.031	LB A/A	LB A/A	PRE	0	95	73	82	92	0	95	63	80	90
12 AUTHORITY	75	DF	0.248	LB A/A	LB A/A	PRE										
12 PROWL	3.3	EC	0.75	LB A/A	LB A/A	PRE										
12 SELECT	2	EC	0.125	LB A/A	LB A/A	MP										
12 COC	L		1	QT/A	QT/A	MP										
13 FIRSTRATE	84	W	0.023	LB A/A	LB A/A	PRE	0	100	92	90	100	0	93	88	90	95
13 AUTHORITY	75	DF	0.186	LB A/A	LB A/A	PRE										
13 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LB A/A	MP										
13 AMS	100	SG	17	LB/100	GAL	MP										
14 FIRSTRATE	84	W	0.031	LB A/A	LB A/A	PRE	0	95	90	85	97	0	93	88	85	95
14 AUTHORITY	75	DF	0.248	LB A/A	LB A/A	PRE										
14 ROUNDUP ULTRA	4	AS	0.5	LB A/A	LB A/A	MP										
14 AMS	100	SG	17	LB/100	GAL	MP										
15 STEEL	2.57	EC	0.97	LB A/A	LB A/A	PRE	0	98	90	82	95	0	93	90	82	93
15 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LB A/A	MP										
15 AMS	100	SG	17	LB/100	GAL	MP										
16 CANOPY XL							0	95	60	78	88	0	92	37	77	88
16 AUTHORITY	75	DF	0.22	LB A/A	LB A/A	PRE										
16 CLASSIC	25	DF	0.04	LB A/A	LB A/A	PRE										
16 ASSURE II	0.8	EC	0.055	LB A/A	LB A/A	MP										
16 COC	L		1	QT/A	QT/A	MP										
17 ROUNDUP ULTRA	4	AS	1	LB A/A	LB A/A	MP	0	95	87	83	88	0	90	80	80	88
17 AMS	100	SG	17	LB/100	GAL	MP										



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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	XANST	IPOSS	CHEAL	SETFA	XANST	IPOSS	CHEAL		
							GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA 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	Unit	Grow Stg										
18	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	MP	0	97	83	83	93	0	92	82	83	92
18	AMS	100 SG		17 LB/100	GAL	MP										
18	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	REG										
18	AMS	100 SG		17 LB/100	GAL	REG										
19	ROUNDUP ULTRAMAX	5 SL		1 LB	A/A	MP	0	95	83	83	90	0	92	83	80	92
19	AMS	100 SG		17 LB/100	GAL	MP										
20	ROUNDUP ULTRAMAX	5 SL		0.75 LB	A/A	MP	0	97	85	85	90	0	88	82	82	92
20	AMS	100 SG		17 LB/100	GAL	MP										
20	ROUNDUP ULTRAMAX	5 SL		0.75 LB	A/A	REG										
20	AMS	100 SG		17 LB/100	GAL	REG										
21	TOUCHDOWN 5	5 SL		1 LB	A/A	MP	0	97	85	83	95	0	90	80	82	93
21	AMS	100 SG		8.5 LB/100	GAL	MP										
22	TOUCHDOWN 5	5 SL		0.75 LB	A/A	MP	0	93	90	85	95	0	90	85	80	95
22	AMS	100 SG		8.5 LB/100	GAL	MP										
22	TOUCHDOWN 5	5 SL		0.75 LB	A/A	REG										
22	AMS	100 SG		8.5 LB/100	GAL	REG										
LSD (P=.05)							2.2	19.4	13.9	14.2	18.2	0.0	20.0	15.0	13.2	19.9
Standard Deviation							1.3	11.7	8.5	8.6	11.0	0.0	12.1	9.1	8.0	12.1
CV							98.98	12.6	10.7	10.45	12.22	0.0	13.46	12.05	9.87	13.59

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

SOYBEAN PREEMERGENCE

Trial ID: S0011  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	XANST	IPOSS	CHEAL
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT			
Trt-Eval Interval	8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS			
ARM Action Codes	P P P P P			
# Subsamples, Dec.	0 0 0 0 0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
1	AXIOM	68	DF	0.77	LB A/A	PRE	0	88	73	73	87
1	FIRSTRATE	84	W	0.032	LB A/A	PRE					
2	AXIOM	68	DF	0.77	LB A/A	PRE	0	83	27	80	88
2	CANOPY XL										
2	AUTHORITY	75	DF	0.12	LB A/A	PRE					
2	CLASSIC	25	DF	0.024	LB A/A	PRE					
3	AXIOM	68	DF	0.468	LB A/A	PRE	0	60	27	67	68
3	DOMAIN	60	DF	0.413	LB A/A	PRE					
3	CANOPY XL										
3	AUTHORITY	75	DF	0.073	LB A/A	PRE					
3	CLASSIC	25	DF	0.015	LB A/A	PRE					
3	AUTHORITY	75	DF	0.117	LB A/A	PRE					
4	AXIOM	68	DF	0.51	LB A/A	PRE	0	82	75	77	85
4	DOMAIN	60	DF	0.45	LB A/A	PRE					
4	FIRSTRATE	84	W	0.032	LB A/A	PRE					
5	AXIOM	68	DF	0.77	LB A/A	PRE	0	85	83	87	83
5	FIRSTRATE	84	W	0.016	LB A/A	MP					
5	SPREADER HF			0.25	% V/V	MP					
5	LIQUID N		L	2.5	QT/A	MP					
6	DOMAIN	60	DF	0.375	LB A/A	PRE	0	92	78	80	95
6	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP					
6	AMS	100	SG	17	LB/100 GAL	MP					
7	DOMAIN	60	DF	0.375	LB A/A	PRE	0	92	83	82	90
7	PURSUIT	70	DF	0.063	LB A/A	MP					
7	SPREADER HF			0.25	% V/V	MP					
7	LIQUID N		L	1	QT/A	MP					
8	DOMAIN	60	DF	0.375	LB A/A	PRE	0	90	87	83	92
8	RAPTOR	1	E	0.039	LB A/A	MP					
8	SPREADER HF			0.25	% V/V	MP					
8	LIQUID N		L	1	QT/A	MP					

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

Weed Code		SETFA	XANST	IPOSS	CHEAL
Crop Code		GLYMA			
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes		P	P	P	P
# Subsamples, Dec.		0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
9	DOMAIN	60	DF	0.375	LB A/A	PRE	0	92	87	85	60
9	FIRSTRATE	84	W	0.016	LB A/A	MP					
9	SELECT	2	EC	0.094	LB A/A	MP					
9	COC		L	0.5	QT/A	MP					
9	AMS	100	SG	2	LB A/A	MP					
10	FIRSTRATE	84	W	0.031	LB A/A	PRE	0	92	58	75	92
10	AUTHORITY	75	DF	0.248	LB A/A	PRE					
10	COMMAND	3	ME	0.75	LB A/A	PRE					
11	FIRSTRATE	84	W	0.031	LB A/A	PRE	0	90	90	88	95
11	AUTHORITY	75	DF	0.248	LB A/A	PRE					
11	COMMAND	3	ME	0.75	LB A/A	PRE					
11	ROUNDUP ULTRA	4	AS	0.5	LB A/A	MP					
11	AMS	100	SG	17	LB/100 GAL	MP					
12	FIRSTRATE	84	W	0.031	LB A/A	PRE	0	90	60	80	90
12	AUTHORITY	75	DF	0.248	LB A/A	PRE					
12	PROWL	3.3	EC	0.75	LB A/A	PRE					
12	SELECT	2	EC	0.125	LB A/A	MP					
12	COC		L	1	QT/A	MP					
13	FIRSTRATE	84	W	0.023	LB A/A	PRE	0	92	85	87	95
13	AUTHORITY	75	DF	0.186	LB A/A	PRE					
13	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP					
13	AMS	100	SG	17	LB/100 GAL	MP					
14	FIRSTRATE	84	W	0.031	LB A/A	PRE	0	93	85	83	95
14	AUTHORITY	75	DF	0.248	LB A/A	PRE					
14	ROUNDUP ULTRA	4	AS	0.5	LB A/A	MP					
14	AMS	100	SG	17	LB/100 GAL	MP					
15	STEEL	2.57	EC	0.97	LB A/A	PRE	0	90	88	82	93
15	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP					
15	AMS	100	SG	17	LB/100 GAL	MP					
16	CANOPY XL						0	92	30	77	88
16	AUTHORITY	75	DF	0.22	LB A/A	PRE					
16	CLASSIC	25	DF	0.04	LB A/A	PRE					
16	ASSURE II	0.8	EC	0.055	LB A/A	MP					
16	COC		L	1	QT/A	MP					
17	ROUNDUP ULTRA	4	AS	1	LB A/A	MP	0	88	78	78	88
17	AMS	100	SG	17	LB/100 GAL	MP					

Weed Code		SETFA	XANST	IPOSS	CHEAL
Crop Code		GLYMA			
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes		P	P	P	P
# Subsamples, Dec.		0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
18	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP	0	90	82	82	92
18	AMS	100	SG	17	LB/100 GAL	MP					
18	ROUNDUP ULTRA	4	AS	0.75	LB A/A	REG					
18	AMS	100	SG	17	LB/100 GAL	REG					
19	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	MP	0	90	82	80	92
19	AMS	100	SG	17	LB/100 GAL	MP					
20	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	MP	0	88	82	80	92
20	AMS	100	SG	17	LB/100 GAL	MP					
20	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	REG					
20	AMS	100	SG	17	LB/100 GAL	REG					
21	TOUCHDOWN 5	5	SL	1	LB A/A	MP	0	87	80	82	93
21	AMS	100	SG	8.5	LB/100 GAL	MP					
22	TOUCHDOWN 5	5	SL	0.75	LB A/A	MP	0	90	88	83	95
22	AMS	100	SG	8.5	LB/100 GAL	MP					
22	TOUCHDOWN 5	5	SL	0.75	LB A/A	REG					
22	AMS	100	SG	8.5	LB/100 GAL	REG					
LSD (P=.05)							0.0	18.6	14.8	13.4	21.2
Standard Deviation							0.0	11.3	9.0	8.1	12.8
CV							0.0	12.8	12.28	10.12	14.5

## SOYBEAN PREEMERGENCE

Trial ID: S0011                      Study Dir.: CHARLES H. SLACK  
 Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
 State/Prov.: KY  
 Postal Code: 40546                    Initiation Date: 05-02-00  
 Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
 Planting Date: 05-02-00                      Planting Method: ROW  
 Rate: 190000 S/A                      Depth: 1.25 IN  
 Row Spacing: 30 IN                      Seed Bed: MEDIUM  
 Soil Temperature: 73 F                      Soil Moisture: NORMAL                      Emergence Date: 05-08-00

## SITE AND DESIGN

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

% Sand: 5	% OM: 2.8	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: MAURY
% Clay: 32	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
 Closest Weather Station: SPINDLETOP

Distance: 1                      Unit: MI

## APPLICATION DESCRIPTION

Application Date:	A	B	C
	05-02-00	05-24-00	07-06-00

Time of Day: -	10:00	10:00	11:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	REG
Applic. Placement:	BROSOI	BROFOI	BROFOI
Air Temp., Unit:	65 F	78 F	83 F
% Relative Humidity:	70	72	78
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	64 F	69 F	74 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA PRE	GLXMA MP	GLXMA REG
Stage Scale:		2 TRIFOL	6 TRIFOL
Height, Unit:		5 IN	16 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA REG
Stage Scale:		3 LF	2 LF
Density, Unit:		4 IN	2 IN
Weed 2 Code, Stage:	XANST	XANST	XANST
Stage Scale:		4 LF	2 LF
Density, Unit:		4 IN	2 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS
Stage Scale:		4 LF	3 LF
Density, Unit:		4 IN	3 IN
Weed 4 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:		10 LF	6 LF
Density, Unit:		4 IN	2 IN

## APPLICATION EQUIPMENT

	A	B	C
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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2

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Weed Science Field Research

SOYBEAN PREEMERGENCE II

Trial ID: S0012  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	XANST	ABUTH	SETFA	IPOSS	XANST	ABUTH	
							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	
							INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL	
							PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT			
							2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 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 P P P P P	P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P		
							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg										
1 VALOR	50 WG		0.063 LB	A/A	FFF	0	95	90	92	95	0	93	82	87	93
1 CLASSIC	25 DF		0.031 LB	A/A	FFF										
1 ROUNDUP ULTRA	4 AS		1 LB	A/A	MP										
1 AMS	100 SG		17 LB/100		GAL MP										
2 VALOR	50 WG		0.078 LB	A/A	PRE	0	95	88	95	95	0	93	82	92	93
2 CLASSIC	25 DF		0.025 LB	A/A	PRE										
2 ROUNDUP ULTRA	4 AS		1 LB	A/A	MP										
2 AMS	100 SG		17 LB/100		GAL MP										
3 CANOPY	75 DF		0.18 LB	A/A	PRE	0	95	90	95	95	0	92	78	92	93
3 ROUNDUP ULTRA	4 AS		1 LB	A/A	MP										
3 AMS	100 SG		17 LB/100		GAL MP										
4 CANOPY XL						0	95	88	95	95	0	92	83	92	95
4 AUTHORITY	75 DF		0.12 LB	A/A	PRE										
4 CLASSIC	25 DF		0.025 LB	A/A	PRE										
4 ROUNDUP ULTRA	4 AS		1 LB	A/A	MP										
4 AMS	100 SG		17 LB/100		GAL MP										
5 VALOR	50 WG		0.047 LB	A/A	PRE	0	95	88	95	95	0	93	80	92	93
5 FIRSTRATE	84 W		0.031 LB	A/A	PRE										
5 ROUNDUP ULTRA	4 AS		1 LB	A/A	MP										
5 AMS	100 SG		17 LB/100		GAL MP										
6 VALOR	50 WG		0.094 LB	A/A	PRE	0	95	92	93	93	0	93	83	93	93
6 CLASSIC	25 DF		0.047 LB	A/A	PRE										
6 ROUNDUP ULTRA	4 AS		1 LB	A/A	LP										
6 AMS	100 SG		17 LB/100		GAL LP										
7 VALOR	50 WG		0.094 LB	A/A	PRE	0	95	88	93	93	0	95	83	90	92
7 CLASSIC	25 DF		0.03 LB	A/A	PRE										
7 ROUNDUP ULTRA	4 AS		1 LB	A/A	LP										
7 AMS	100 SG		17 LB/100		GAL LP										
8 CANOPY	75 DF		0.28 LB	A/A	PRE	0	95	90	95	95	0	93	82	93	92
8 ROUNDUP ULTRA	4 AS		1 LB	A/A	LP										
8 AMS	100 SG		17 LB/100		GAL LP										

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	XANST	ABUTH	SETFA	IPOSS	XANST	ABUTH		
							GLYMA INJURY PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	GLYMA INJURY PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK
							P	P	P	P	P	P	P	P		
							0	0	0	0	0	0	0	0		
Trt Treatment No. Name	Form Conc	Form Type	Rate	Form Unit	Rate	Grow Stg										
9 CANOPY XL							0	90	67	70	70	0	90	85	92	92
9 AUTHORITY	75	DF	0.2	LB A/A		PRE										
9 CLASSIC	25	DF	0.04	LB A/A		PRE										
9 ROUNDUP ULTRA	4	AS	1	LB A/A		LP										
9 AMS	100	SG	17	LB/100	GAL	LP										
10 VALOR	50	WG	0.047	LB A/A		PRE	0	95	88	95	95	0	95	82	92	93
10 FIRSTRATE	84	W	0.031	LB A/A		PRE										
10 ROUNDUP ULTRA	4	AS	1	LB A/A		LP										
10 AMS	100	SG	17	LB/100	GAL	LP										
11 CANOPY XL							0	88	70	45	45	0	47	10	10	10
11 AUTHORITY	75	DF	0.15	LB A/A		PRE										
11 CLASSIC	25	DF	0.03	LB A/A		PRE										
11 BOUNDRY	7.8	EC	1.22	LB A/A		PRE										
12 AUTHORITY	75	DF	0.188	LB A/A		PRE	0	62	40	22	22	0	40	23	8	8
12 BOUNDRY	7.8	EC	1.22	LB A/A		PRE										
13 CANOPY XL							2	87	58	30	38	0	73	32	8	23
13 AUTHORITY	75	DF	0.22	LB A/A		PRE										
13 CLASSIC	25	DF	0.04	LB A/A		PRE										
13 ASSURE II	0.8	EC	0.055	LB A/A		MP										
13 COC		L	1	QT/A		MP										
14 CANOPY XL							0	95	90	95	95	0	92	80	92	92
14 AUTHORITY	75	DF	0.11	LB A/A		PRE										
14 CLASSIC	25	DF	0.02	LB A/A		PRE										
14 ROUNDUP ULTRA	4	AS	1	LB A/A		MP										
14 AMS	100	SG	17	LB/100	GAL	MP										
15 ROUNDUP ULTRA	4	AS	0.75	LB A/A		MP	0	95	87	95	95	0	92	78	90	90
15 CLASSIC	25	DF	0.005	LB A/A		MP										
15 SPREADER HF			0.25	% V/V		MP										
16 ROUNDUP ULTRA	4	AS	1	LB A/A		LP	0	95	85	93	93	0	93	73	90	90
16 AMS	100	SG	17	LB/100	GAL	LP										
17 ROUNDUP ULTRA	4	AS	0.75	LB A/A		LP	0	95	90	93	93	0	93	77	92	90
17 AMS	100	SG	17	LB/100	GAL	LP										
17 ROUNDUP ULTRA	4	AS	0.75	LB A/A		REG										
17 AMS	100	SG	17	LB/100	GAL	REG										



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 Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	XANST	ABUTH	SETFA	IPOSS	XANST	ABUTH	
							GLYMA INJURY CONTROL PERCENT 2 WEEK P 0	CONTROL PERCENT 2 WEEK P 0	CONTROL PERCENT 2 WEEK P 0	CONTROL PERCENT 2 WEEK P 0	CONTROL PERCENT 2 WEEK P 0	GLYMA INJURY CONTROL PERCENT 4 WEEK P 0	CONTROL PERCENT 4 WEEK P 0	CONTROL PERCENT 4 WEEK P 0	CONTROL PERCENT 4 WEEK P 0
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg										
18 ROUNDUP ULTRAMAX 18 AMS	5 SL 100 SG		1 LB A/A 17 LB/100	LP GAL LP		0	95	88	95	95	0	95	77	93	93
19 ROUNDUP ULTRAMAX 19 AMS	5 SL 100 SG		0.75 LB A/A 17 LB/100	LP GAL LP		2	95	90	93	93	2	95	78	93	93
19 ROUNDUP ULTRAMAX 19 AMS	5 SL 100 SG		0.75 LB A/A 17 LB/100	REG GAL REG											
20 TOUCHDOWN 5 20 AMS	5 SL 100 SG		1 LB A/A 8.5 LB/100	LP GAL LP		0	95	88	93	93	0	93	75	93	93
21 TOUCHDOWN 5 21 AMS	5 SL 100 SG		0.75 LB A/A 8.5 LB/100	LP GAL LP		0	95	90	93	93	0	93	80	92	92
21 TOUCHDOWN 5 21 AMS	5 SL 100 SG		0.75 LB A/A 8.5 LB/100	REG GAL REG											
22 VALOR 22 ROUNDUP ULTRA 22 AMS	50 WG 4 AS 100 SG		0.063 LB A/A 1 LB A/A 17 LB/100	PRE LP GAL LP		0	95	90	95	95	0	95	82	93	95
23 VALOR 23 ROUNDUP ULTRA 23 AMS	50 WG 4 AS 100 SG		0.094 LB A/A 1 LB A/A 17 LB/100	PRE LP GAL LP		0	95	92	95	95	0	95	83	95	95
24 WEEDY CHECK						0	80	53	45	45	0	40	10	10	10
LSD (P=.05)						1.4	12.4	20.6	26.6	28.1	1.0	18.9	16.1	5.2	8.9
Standard Deviation						0.8	7.5	12.5	16.1	17.0	0.6	11.5	9.7	3.2	5.4
CV						606.49	8.14	15.15	19.36	20.27	848.53	13.31	13.93	4.04	6.8

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Weed Science Field Research

## SOYBEAN PREEMERGENCE II

Trial ID: S0012  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	IPOSS	XANST	ABUTH
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stq	SETFA	IPOSS	XANST	ABUTH
1	VALOR	50	WG	0.063	LB A/A	FFF	0	92	82	92
1	CLASSIC	25	DF	0.031	LB A/A	FFF				
1	ROUNDUP ULTRA	4	AS	1	LB A/A	MP				
1	AMS	100	SG	17	LB/100 GAL	MP				
2	VALOR	50	WG	0.078	LB A/A	PRE	0	92	82	92
2	CLASSIC	25	DF	0.025	LB A/A	PRE				
2	ROUNDUP ULTRA	4	AS	1	LB A/A	MP				
2	AMS	100	SG	17	LB/100 GAL	MP				
3	CANOPY	75	DF	0.18	LB A/A	PRE	0	90	78	90
3	ROUNDUP ULTRA	4	AS	1	LB A/A	MP				
3	AMS	100	SG	17	LB/100 GAL	MP				
4	CANOPY XL						0	90	83	90
4	AUTHORITY	75	DF	0.12	LB A/A	PRE				
4	CLASSIC	25	DF	0.025	LB A/A	PRE				
4	ROUNDUP ULTRA	4	AS	1	LB A/A	MP				
4	AMS	100	SG	17	LB/100 GAL	MP				
5	VALOR	50	WG	0.047	LB A/A	PRE	0	92	78	90
5	FIRSTRATE	84	W	0.031	LB A/A	PRE				
5	ROUNDUP ULTRA	4	AS	1	LB A/A	MP				
5	AMS	100	SG	17	LB/100 GAL	MP				
6	VALOR	50	WG	0.094	LB A/A	PRE	0	92	82	88
6	CLASSIC	25	DF	0.047	LB A/A	PRE				
6	ROUNDUP ULTRA	4	AS	1	LB A/A	LP				
6	AMS	100	SG	17	LB/100 GAL	LP				
7	VALOR	50	WG	0.094	LB A/A	PRE	0	93	82	90
7	CLASSIC	25	DF	0.03	LB A/A	PRE				
7	ROUNDUP ULTRA	4	AS	1	LB A/A	LP				
7	AMS	100	SG	17	LB/100 GAL	LP				
8	CANOPY	75	DF	0.28	LB A/A	PRE	0	92	78	92
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP				
8	AMS	100	SG	17	LB/100 GAL	LP				

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Weed Code	SETFA	IPOSS	XANST	ABUTH
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT			
Trt-Eval Interval	8 WEEK 8 WEEK 8 WEEK 8 WEEK 8 WEEK			
ARM Action Codes	P P P P P			
# Subsamples, Dec.	0 0 0 0 0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	IPOSS	XANST	ABUTH	
9	CANOPY XL						0	88	80	90	90
9	AUTHORITY	75	DF	0.2	LB A/A	PRE					
9	CLASSIC	25	DF	0.04	LB A/A	PRE					
9	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
9	AMS	100	SG	17	LB/100 GAL	LP					
10	VALOR	50	WG	0.047	LB A/A	PRE	0	93	80	92	92
10	FIRSTRATE	84	W	0.031	LB A/A	PRE					
10	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
10	AMS	100	SG	17	LB/100 GAL	LP					
11	CANOPY XL						0	47	10	10	10
11	AUTHORITY	75	DF	0.15	LB A/A	PRE					
11	CLASSIC	25	DF	0.03	LB A/A	PRE					
11	BOUNDRY	7.8	EC	1.22	LB A/A	PRE					
12	AUTHORITY	75	DF	0.188	LB A/A	PRE	0	38	20	8	8
12	BOUNDRY	7.8	EC	1.22	LB A/A	PRE					
13	CANOPY XL						0	70	30	8	23
13	AUTHORITY	75	DF	0.22	LB A/A	PRE					
13	CLASSIC	25	DF	0.04	LB A/A	PRE					
13	ASSURE II	0.8	EC	0.055	LB A/A	MP					
13	COC		L	1	QT/A	MP					
14	CANOPY XL						0	92	78	92	90
14	AUTHORITY	75	DF	0.11	LB A/A	PRE					
14	CLASSIC	25	DF	0.02	LB A/A	PRE					
14	ROUNDUP ULTRA	4	AS	1	LB A/A	MP					
14	AMS	100	SG	17	LB/100 GAL	MP					
15	ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP	0	92	77	90	88
15	CLASSIC	25	DF	0.005	LB A/A	MP					
15	SPREADER HF			0.25	% V/V	MP					
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	93	73	90	88
16	AMS	100	SG	17	LB/100 GAL	LP					
17	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP	0	92	75	90	87
17	AMS	100	SG	17	LB/100 GAL	LP					
17	ROUNDUP ULTRA	4	AS	0.75	LB A/A	REG					
17	AMS	100	SG	17	LB/100 GAL	REG					

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Weed Code	SETFA	IPOSS	XANST	ABUTH	
Crop Code	GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
18 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	77	92	92
18 AMS	100	SG	17	LB/100	GAL LP					
19 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP	2	93	77	92	90
19 AMS	100	SG	17	LB/100	GAL LP					
19 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	REG					
19 AMS	100	SG	17	LB/100	GAL REG					
20 TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	92	73	92	92
20 AMS	100	SG	8.5	LB/100	GAL LP					
21 TOUCHDOWN 5	5	SL	0.75	LB A/A	LP	0	92	78	90	90
21 AMS	100	SG	8.5	LB/100	GAL LP					
21 TOUCHDOWN 5	5	SL	0.75	LB A/A	REG					
21 AMS	100	SG	8.5	LB/100	GAL REG					
22 VALOR	50	WG	0.063	LB A/A	PRE	0	93	78	92	93
22 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
22 AMS	100	SG	17	LB/100	GAL LP					
23 VALOR	50	WG	0.094	LB A/A	PRE	0	93	82	93	93
23 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
23 AMS	100	SG	17	LB/100	GAL LP					
24 WEEDY CHECK						0	40	10	10	10
LSD (P=.05)						1.0	17.7	15.3	5.0	9.8
Standard Deviation						0.6	10.7	9.3	3.0	5.9
CV						848.53	12.67	13.55	3.9	7.63

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

## SOYBEAN PREEMERGENCE II

Trial ID: S0012  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON  
State/Prov.: KY  
Postal Code: 40546  
Country: USA

Trial Status: COMPLETE  
Initiation Date: 05-02-00

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.

Crop 1: GLYMA SOYBEAN  
Planting Date: 05-02-00  
Rate: 190000 S/A  
Row Spacing: 30 IN  
Soil Temperature: 70 F

Variety: AG4602  
Planting Method: ROW  
Depth: 1.25 IN  
Seed Bed: MEDIUM  
Soil Moisture: ADEQUATE  
Emergence Date: 05-08-00

## SITE AND DESIGN

Plot Width, Unit: 5 FT  
Site Type: FIELD  
Tillage Type: CONVENTIONAL

Plot Length, Unit: 44 FT  
Reps: 3  
Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP  
Distance: 1.0 Unit: MI

## APPLICATION DESCRIPTION

Application Date:	A	B	C	D
	05-02-00	05-24-00	05-31-00	06-07-00

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Time of Day:	10:00 AM	2:00 PM	1:00 PM	4:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP	REG
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	63 F	74 F	62 F	83 F
% Relative Humidity:	80	75	70	70
Wind Velocity, Unit:	3 MPH	2 MPH	4 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	70 F	72 F	72 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	10	10

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLYMA PRE	GLYMA MP	GLYMA LP	GLYMA REG
Height, Unit:		4 IN	8 IN	12 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP	SETFA REG
Stage Scale:		2 LF	4 LF	3 LF
Density, Unit:		3 IN	8 IN	3 IN
Weed 2 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		3 LF	6 LF	4 LF
Density, Unit:		2.5 IN	7 IN	3 IN
Weed 3 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		3 LF	6 LF	2 LF
Density, Unit:		3.5 IN	6 IN	2 IN
Weed 4 Code, Stage:	ABUTH	ABUTH	ABUTH	ABUTH
Stage Scale:		3 LF	6 LF	3 LF
Density, Unit:		3 IN	6 IN	2 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

SOYBEAN POSTEMERGENCE

Trial ID: S0014  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	SETFA		IPOSS		CHEAL		XANST		AMBAT		SETFA		IPOSS		CHEAL		XANST		AMBAT		
	GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		
	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1 RAPTOR	1 E	0.063 LB A/A	MP	0.0	95	88	93	93	93	93	0	95	85	92	92	93					
1 SPREADER HF		0.25 % V/V	MP																		
1 LIQUID N	L	1 QT/A	MP																		
2 PROWL	3.3 EC	1.05 LB A/A	PRE	0.0	95	90	87	93	93	93	0	95	87	77	93	93					
2 PURSUIT	70 DF	0.063 LB A/A	MP																		
2 FIRSTRATE	84 W	0.008 LB A/A	MP																		
2 SPREADER HF		0.25 % V/V	MP																		
2 LIQUID N	L	1 QT/A	MP																		
3 PROWL	3.3 EC	1.05 LB A/A	PRE	0.0	93	92	93	95	93	93	0	92	88	87	95	93					
3 PURSUIT	70 DF	0.063 LB A/A	MP																		
3 FLEXSTAR HL	1.88 CS	0.176 LB A/A	MP																		
3 SPREADER HF		0.25 % V/V	MP																		
3 LIQUID N	L	1 QT/A	MP																		
4 PROWL	3.3 EC	1.05 LB A/A	PRE	0.0	95	92	93	95	95	95	0	93	88	92	92	95					
4 RAPTOR	1 E	0.039 LB A/A	MP																		
4 FLEXSTAR HL	1.88 CS	0.176 LB A/A	MP																		
4 SPREADER HF		0.25 % V/V	MP																		
4 LIQUID N	L	1 QT/A	MP																		
5 RAPTOR	1 E	0.039 LB A/A	MP	0.0	95	92	92	95	95	95	0	93	88	90	93	93					
5 FLEXSTAR HL	1.88 CS	0.176 LB A/A	MP																		
5 SPREADER HF		0.25 % V/V	MP																		
5 LIQUID N	L	1 QT/A	MP																		
6 STEEL	2.57 EC	0.964 LB A/A	PRE	0.0	95	90	95	95	95	95	0	95	88	93	93	95					
6 ROUNDUP ULTRA	4 AS	0.75 LB A/A	LP																		
6 AMS	100 SG	17 LB/100 GAL	LP																		
7 STEEL	2.57 EC	0.964 LB A/A	PRE	0.0	95	90	92	95	95	95	0	95	88	92	93	95					
7 TOUCHDOWN 5	5 SL	0.75 LB A/A	LP																		
7 AMS	100 SG	8.5 LB/100 GAL	LP																		
8 SQUADRON	2.33 EC	0.87 LB A/A	PRE	0.0	95	93	92	95	95	95	0	95	92	92	93	95					
8 ROUNDUP ULTRA	4 AS	0.75 LB A/A	LP																		
8 AMS	100 SG	17 LB/100 GAL	LP																		

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Weed Science Field Research

					SETFA	IPOSS	CHEAL	XANST	AMBAT						SETFA	IPOSS	CHEAL	XANST	AMBAT		
					GLYMA						GLYMA										
Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	INJURY CONTROL	CONTROL CONTROL	CONTROL CONTROL	CONTROL CONTROL	INJURY CONTROL	CONTROL CONTROL	CONTROL CONTROL	CONTROL CONTROL	CONTROL CONTROL	CONTROL CONTROL	CONTROL CONTROL	CONTROL CONTROL			
						2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
						P	P	P	P	P	P	P	P	P	P	P	P	P			
						0	0	0	0	0	0	0	0	0	0	0	0	0			
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg																
9 SQUADRON	2.33	EC	0.87	LB A/A	PRE	0.0	95	88	93	95	95	0	93	87	93	93	93	95			
9 TOUCHDOWN 5	5	SL	0.75	LB A/A	LP																
9 AMS	100	SG	8.5	LB/100 GAL	LP																
10 STEEL	2.57	EC	0.964	LB A/A	PRE	0.0	92	87	82	62	70	0	90	83	78	48	67				
10 VALOR	50	WG	0.063	LB A/A	PRE																
11 SQUADRON	2.33	EC	0.87	LB A/A	PRE	0.0	87	80	82	63	72	0	83	77	78	50	68				
11 VALOR	50	WG	0.063	LB A/A	PRE																
12 PROWL	3.3	EC	1.05	LB A/A	PRE	0.0	93	90	90	93	95	0	93	87	88	92	95				
12 VALOR	50	WG	0.063	LB A/A	PRE																
12 PURSUIT	70	DF	0.063	LB A/A	MP																
12 SPREADER HF			0.25	% V/V	MP																
12 LIQUID N		L	1	QT/A	MP																
13 VALOR	50	WG	0.063	LB A/A	PRE	0.0	95	90	90	92	92	0	95	88	88	90	90				
13 RAPTOR	1	E	0.039	LB A/A	MP																
13 SPREADER HF			0.25	% V/V	MP																
13 LIQUID N		L	1	QT/A	MP																
14 ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0.0	95	88	95	95	95	0	95	85	95	94	95				
14 AMS	100	SG	17	LB/100 GAL	LP																
15 ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP	0.0	95	93	95	95	95	0	95	90	93	93	95				
15 AMS	100	SG	17	LB/100 GAL	MP																
15 ROUNDUP ULTRA	4	AS	0.75	LB A/A	REG																
15 AMS	100	SG	17	LB/100 GAL	REG																
16 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0.0	95	92	95	95	95	0	93	87	95	95	95				
16 AMS	100	SG	17	LB/100 GAL	LP																
17 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	MP	0.0	63	63	63	62	63	0	62	60	62	60	63				
17 AMS	100	SG	17	LB/100 GAL	MP																
17 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	REG																
17 AMS	100	SG	17	LB/100 GAL	REG																
18 TOUCHDOWN 5	5	SL	1	LB A/A	LP	0.0	95	90	95	95	95	0	93	85	93	93	95				
18 AMS	100	SG	8.5	LB/100 GAL	LP																
19 TOUCHDOWN 5	5	SL	0.75	LB A/A	MP	0.0	95	92	92	93	95	0	93	88	90	92	93				
19 AMS	100	SG	8.5	LB/100 GAL	MP																
19 TOUCHDOWN 5	5	SL	0.75	LB A/A	REG																
19 AMS	100	SG	8.5	LB/100 GAL	REG																



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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	CHEAL	XANST	AMBAT	GLYMA	SETFA	IPOSS	CHEAL	XANST	AMBAT	
							INJURY CONTROL CONTROL CONTROL CONTROL CONTROL	INJURY CONTROL CONTROL CONTROL CONTROL CONTROL										
							PERCENT	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	4 WEEK
							P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0
Trt Treatment	Form	Form	Rate	Grow														
No. Name	Conc	Type	Rate	Unit	Stg													
20 Weedy Check						0.0	8	7	7	8	8	0	8	7	7	8	8	
LSD (P=.05)						0.00	21.4	21.4	21.5	22.7	22.1	0.0	21.1	21.3	22.7	27.5	22.2	
Standard Deviation						0.00	13.0	13.0	13.0	13.8	13.4	0.0	12.8	12.9	13.7	16.7	13.5	
CV						0.0	14.71	15.37	15.21	16.13	15.5	0.0	14.62	15.86	16.42	20.14	15.7	

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Weed Science Field Research

## SOYBEAN POSTEMERGENCE

Trial ID: S0014  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	XANST	AMBAT
Crop Code	GLYMA				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	IPOSS	CHEAL	XANST	AMBAT	
1	RAPTOR	1	E	0.063	LB A/A	MP	0	95	85	92	92	93
1	SPREADER HF			0.25	% V/V	MP						
1	LIQUID N	L		1	QT/A	MP						
2	PROWL	3.3	EC	1.05	LB A/A	PRE	0	95	87	77	93	93
2	PURSUIT	70	DF	0.063	LB A/A	MP						
2	FIRSTRATE	84	W	0.008	LB A/A	MP						
2	SPREADER HF			0.25	% V/V	MP						
2	LIQUID N	L		1	QT/A	MP						
3	PROWL	3.3	EC	1.05	LB A/A	PRE	0	92	88	87	95	93
3	PURSUIT	70	DF	0.063	LB A/A	MP						
3	FLEXSTAR HL	1.88	CS	0.176	LB A/A	MP						
3	SPREADER HF			0.25	% V/V	MP						
3	LIQUID N	L		1	QT/A	MP						
4	PROWL	3.3	EC	1.05	LB A/A	PRE	0	93	88	92	92	95
4	RAPTOR	1	E	0.039	LB A/A	MP						
4	FLEXSTAR HL	1.88	CS	0.176	LB A/A	MP						
4	SPREADER HF			0.25	% V/V	MP						
4	LIQUID N	L		1	QT/A	MP						
5	RAPTOR	1	E	0.039	LB A/A	MP	0	93	88	90	93	93
5	FLEXSTAR HL	1.88	CS	0.176	LB A/A	MP						
5	SPREADER HF			0.25	% V/V	MP						
5	LIQUID N	L		1	QT/A	MP						
6	STEEL	2.57	EC	0.964	LB A/A	PRE	0	95	88	93	93	95
6	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP						
6	AMS	100	SG	17	LB/100 GAL	LP						
7	STEEL	2.57	EC	0.964	LB A/A	PRE	0	95	88	92	93	95
7	TOUCHDOWN 5	5	SL	0.75	LB A/A	LP						
7	AMS	100	SG	8.5	LB/100 GAL	LP						
8	SQUADRON	2.33	EC	0.87	LB A/A	PRE	0	95	92	92	93	95
8	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP						
8	AMS	100	SG	17	LB/100 GAL	LP						

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Weed Code	SETFA	IPOSS	CHEAL	XANST	AMBAT
Crop Code	GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg						
9 SQUADRON	2.33	EC	0.87	LB A/A	PRE	0	93	87	93	93	95
9 TOUCHDOWN 5	5	SL	0.75	LB A/A	LP						
9 AMS	100	SG	8.5	LB/100 GAL	LP						
10 STEEL	2.57	EC	0.964	LB A/A	PRE	0	90	83	78	48	67
10 VALOR	50	WG	0.063	LB A/A	PRE						
11 SQUADRON	2.33	EC	0.87	LB A/A	PRE	0	83	77	78	50	68
11 VALOR	50	WG	0.063	LB A/A	PRE						
12 PROWL	3.3	EC	1.05	LB A/A	PRE	0	93	87	88	92	95
12 VALOR	50	WG	0.063	LB A/A	PRE						
12 PURSUIT	70	DF	0.063	LB A/A	MP						
12 SPREADER HF			0.25	% V/V	MP						
12 LIQUID N		L	1	QT/A	MP						
13 VALOR	50	WG	0.063	LB A/A	PRE	0	95	88	88	90	90
13 RAPTOR	1	E	0.039	LB A/A	MP						
13 SPREADER HF			0.25	% V/V	MP						
13 LIQUID N		L	1	QT/A	MP						
14 ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	95	85	95	94	95
14 AMS	100	SG	17	LB/100 GAL	LP						
15 ROUNDUP ULTRA	4	AS	0.75	LB A/A	MP	0	95	90	93	93	95
15 AMS	100	SG	17	LB/100 GAL	MP						
15 ROUNDUP ULTRA	4	AS	0.75	LB A/A	REG						
15 AMS	100	SG	17	LB/100 GAL	REG						
16 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	87	95	95	95
16 AMS	100	SG	17	LB/100 GAL	LP						
17 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	MP	0	62	60	62	60	63
17 AMS	100	SG	17	LB/100 GAL	MP						
17 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	REG						
17 AMS	100	SG	17	LB/100 GAL	REG						
18 TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	93	85	93	93	95
18 AMS	100	SG	8.5	LB/100 GAL	LP						
19 TOUCHDOWN 5	5	SL	0.75	LB A/A	MP	0	93	88	90	92	93
19 AMS	100	SG	8.5	LB/100 GAL	MP						
19 TOUCHDOWN 5	5	SL	0.75	LB A/A	REG						
19 AMS	100	SG	8.5	LB/100 GAL	REG						

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Weed Code	SETFA	IPOSS	CHEAL	XANST	AMBAT
Crop Code	GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg
20 Weedy Check	0	8	7	7	8 8
LSD (P=.05)	0.0	21.1	21.3	22.7	27.5 22.2
Standard Deviation	0.0	12.8	12.9	13.7	16.7 13.5
CV	0.0	14.62	15.86	16.42	20.14 15.7

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

SOYBEAN POSTEMERGENCE

Trial ID: S0014                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 05-02-00  
Country: USA

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
5.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: GLYMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-02-00                      Planting Method: ROW  
Rate: 180000 S/A                              Depth: 1.25 IN  
Row Spacing: 30 IN                            Seed Bed: MEDIUM  
Soil Temperature: 61 F                      Soil Moisture: ADEQUATE                      Emergence Date: 05-08-00

SITE AND DESIGN

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

% Sand: 6                      % OM: 2.7                      Texture: SILT LOAM  
% Silt: 64                      pH: 6.5                      Soil Name: MAURY  
% Clay: 30                      CEC: 17                      Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP                      Distance: 1.2                      Unit: MI

APPLICATION DESCRIPTION

A                      B                      C                      D

Time of Day:	10:00 AM	1:00 PM	2:00 PM	3:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP	REG
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	63 F	74 F	62 F	83 F
% Relative Humidity:	80	75	70	70
Wind Velocity, Unit:	3 MPH	2 MPH	4 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	70 F	72 F	72 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	10	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLYMA PRE	GLYMA MP	GLYMA LP	GLYMA REG
Height, Unit:		4 IN	6 IN	12 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP	SETFA REG
Stage Scale:		2 LF	4 LF	3 LF
Density, Unit:		3 IN	8 IN	3 IN
Weed 2 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		3 LF	6 LF	4 LF
Density, Unit:		2.5 IN	7 IN	3 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		3 LF	6 LF	2 LF
Density, Unit:		3.5 IN	6 IN	2 IN
Weed 4 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		3 LF	6 LF	3 LF
Density, Unit:		3 IN	6 IN	2 IN
Weed 5 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR

## APPLICATION EQUIPMENT

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

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

SOYBEAN POSTEMERGENCE II

Trial ID: S0015  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	CHEAL	XANST	SETFA	SETFA	XANST	IPOSS	CHEAL
Crop Code	GLYMX	GLYMX	GLYMX	GLYMX	GLYMX	GLYMX	GLYMX
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	PRE POST	PRE POST	PRE POST	PRE POST	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	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	Unit	Grow Stg	CHEAL	XANST	SETFA	SETFA	XANST	IPOSS	CHEAL
1	ROUNDUP ULTRA	4	AS	1 LB	A/A LP	0	0	0	0	95	93	80	95
1	AMS	100	SG	2 %	W/W LP								
2	ROUNDUP ULTRAMX	3.7	SL	1 LB	A/A LP	0	0	0	0	93	92	85	92
2	AMS	100	SG	2 %	W/W LP								
3	ROUNDUP ULTRA	4	AS	1 LB	A/A LP	0	0	0	0	95	93	77	93
3	AMS	100	SG	2 %	W/W LP								
3	ROUNDUP ULTRA	4	AS	1 LB	A/A JBC								
3	AMS	100	SG	2 %	W/W JBC								
4	MICRO-TECH	4	ME	2 LB	A/A PRE	0	63	7	87	97	97	77	93
4	ROUNDUP ULTRA	4	AS	1 LB	A/A LP								
4	AMS	100	SG	2 %	W/W LP								
5	PENDIMAX	3.3	EC	0.928 LB	A/A PRE	0	82	3	85	97	85	93	95
5	ROUNDUP ULTRA	4	AS	1 LB	A/A MP								
5	AMS	100	SG	2 %	W/W MP								
6	FIRSTRATE	84	W	0.016 LB	A/A PRE	0	23	50	0	95	92	88	90
6	ROUNDUP ULTRA	4	AS	1 LB	A/A MP								
6	AMS	100	SG	2 %	W/W MP								
7	FIRSTRATE	84	W	0.031 LB	A/A PRE	0	10	75	0	95	92	90	95
7	ROUNDUP ULTRA	4	AS	1 LB	A/A MP								
7	AMS	100	SG	2 %	W/W MP								
8	FIRSTRATE	84	W	0.016 LB	A/A MP	0	0	0	0	95	88	85	88
8	ROUNDUP	4	AS	0.75 LB	A/A MP								
8	AMS	100	SG	2 %	W/W MP								
8	INDUCE			0.5 %	V/V MP								
9	EXTREME	2.17	EC	0.814 LB	A/A EP	0	0	0	0	95	85	85	90
9	INDUCE			0.125 %	V/V EP								
9	AMS	100	SG	1.5 %	W/W EP								

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Weed Code	CHEAL	XANST	SETFA	SETFA	XANST	IPOSS	CHEAL
Crop Code	GLYMX		GLYMX				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	PRE POST	PRE POST	PRE POST	PRE POST	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg									
10 PROWL	3.3	EC	0.928	LB A/A	PRE	0	85	23	78	17	97	90	85	95
10 EXTREME	2.17	EC	0.814	LB A/A	EP									
10 INDUCE			0.125	% V/V	EP									
10 AMS	100	SG	1.5	% W/W	EP									
11 BOUNDRY	7.8	EC	1.22	LB A/A	PPE	0	72	0	70	0	98	83	85	95
11 ROUNDUP	4	AS	0.75	LB A/A	MP									
11 INDUCE			0.5	% V/V	MP									
11 AMS	100	SG	2	% W/W	MP									
12 DOMAIN	60	DF	0.375	LB A/A	PRE	0	33	33	27	0	97	92	82	92
12 ROUNDUP	4	AS	0.75	LB A/A	MP									
12 INDUCE			0.5	% V/V	MP									
12 AMS	100	SG	2	% W/W	MP									
13 CANOPY	75	DF	0.14	LB A/A	PRE	0	72	60	33	0	97	90	85	88
13 ROUNDUP	4	AS	0.75	LB A/A	MP									
13 INDUCE			0.5	% V/V	MP									
13 AMS	100	SG	2	% W/W	MP									
14 CANOPY XL						0	65	58	0	0	95	95	83	90
14 AUTHORITY	75	DF	0.099	LB A/A	PRE									
14 CLASSIC	25	DF	0.02	LB A/A	PRE									
14 ROUNDUP	4	AS	0.75	LB A/A	MP									
14 INDUCE			0.5	% V/V	MP									
14 AMS	100	SG	2	% W/W	MP									
LSD (P=.05)						0.0	22.1	20.8	25.5	2.2	3.3	5.1	5.1	7.0
Standard Deviation						0.0	13.2	12.4	15.2	1.3	2.0	3.0	3.0	4.2
CV						0.0	36.47	55.95	55.96	46.77	2.07	3.37	3.57	4.54



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SOYBEAN POSTEMERGENCE II

Trial ID: S0015  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	XANST	IPOSS	CHEAL	GLYMX	SETFA	XANST	IPOSS	CHEAL	
Crop Code										
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	
ARM Action Codes	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	SETFA	XANST	IPOSS	CHEAL	GLYMX
1	ROUNDUP ULTRA	4	AS	1 LB	A/A LP	95	92	80	93	0	90
1	AMS	100	SG	2 %	W/W LP						80
2	ROUNDUP ULTRAMX	3.7	SL	1 LB	A/A LP	93	92	83	92	0	92
2	AMS	100	SG	2 %	W/W LP						83
3	ROUNDUP ULTRA	4	AS	1 LB	A/A LP	93	93	77	90	0	93
3	AMS	100	SG	2 %	W/W LP						80
3	ROUNDUP ULTRA	4	AS	1 LB	A/A JBC						92
3	AMS	100	SG	2 %	W/W JBC						
4	MICRO-TECH	4	ME	2 LB	A/A PRE	95	93	77	93	0	92
4	ROUNDUP ULTRA	4	AS	1 LB	A/A LP						90
4	AMS	100	SG	2 %	W/W LP						77
5	PENDIMAX	3.3	EC	0.928 LB	A/A PRE	95	80	87	95	0	92
5	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						80
5	AMS	100	SG	2 %	W/W MP						85
6	FIRSTRATE	84	W	0.016 LB	A/A PRE	90	90	87	90	0	90
6	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						90
6	AMS	100	SG	2 %	W/W MP						83
7	FIRSTRATE	84	W	0.031 LB	A/A PRE	90	92	90	92	0	88
7	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						90
7	AMS	100	SG	2 %	W/W MP						88
8	FIRSTRATE	84	W	0.016 LB	A/A MP	92	82	83	88	0	90
8	ROUNDUP	4	AS	0.75 LB	A/A MP						82
8	AMS	100	SG	2 %	W/W MP						83
8	INDUCE			0.5 %	V/V MP						88
9	EXTREME	2.17	EC	0.814 LB	A/A EP	95	90	90	90	0	95
9	INDUCE			0.125 %	V/V EP						90
9	AMS	100	SG	1.5 %	W/W EP						88

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Weed Code	SETFA	XANST	IPOSS	CHEAL	GLYMX	SETFA	XANST	IPOSS	CHEAL
Crop Code	CONTROL				INJURY	CONTROL			
Rating Data Type	PERCENT				PERCENT	PERCENT			
Rating Unit	4 WEEK				8 WEEKS	8 WEEKS			
Trt-Eval Interval	P				P	P			
ARM Action Codes	0				0	0			
# Subsamples, Dec.	0				0	0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	SETFA	XANST	IPOSS	CHEAL	GLYMX	SETFA	XANST	IPOSS	CHEAL
10	PROWL	3.3	EC	0.928	LB A/A	PRE	95	92	88	95	0	95	93	90	95
10	EXTREME	2.17	EC	0.814	LB A/A	EP									
10	INDUCE			0.125	% V/V	EP									
10	AMS	100	SG	1.5	% W/W	EP									
11	BOUNDRY	7.8	EC	1.22	LB A/A	PRE	93	80	83	90	0	92	80	82	90
11	ROUNDUP	4	AS	0.75	LB A/A	MP									
11	INDUCE			0.5	% V/V	MP									
11	AMS	100	SG	2	% W/W	MP									
12	DOMAIN	60	DF	0.375	LB A/A	PRE	95	82	82	92	0	93	82	80	92
12	ROUNDUP	4	AS	0.75	LB A/A	MP									
12	INDUCE			0.5	% V/V	MP									
12	AMS	100	SG	2	% W/W	MP									
13	CANOPY	75	DF	0.14	LB A/A	PRE	378	88	83	88	0	92	87	82	88
13	ROUNDUP	4	AS	0.75	LB A/A	MP									
13	INDUCE			0.5	% V/V	MP									
13	AMS	100	SG	2	% W/W	MP									
14	CANOPY XL						93	88	83	90	0	90	87	82	90
14	AUTHORITY	75	DF	0.099	LB A/A	PRE									
14	CLASSIC	25	DF	0.02	LB A/A	PRE									
14	ROUNDUP	4	AS	0.75	LB A/A	MP									
14	INDUCE			0.5	% V/V	MP									
14	AMS	100	SG	2	% W/W	MP									
LSD (P=.05)							222.1	5.6	4.8	6.4	0.0	3.6	4.9	4.5	6.7
Standard Deviation							132.3	3.4	2.9	3.8	0.0	2.1	2.9	2.7	4.0
CV							116.27	3.82	3.43	4.21	0.0	2.32	3.36	3.19	4.38

## SOYBEAN POSTEMERGENCE II

Trial ID: S0015                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 05-02-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-02-00                      Planting Method: ROW  
Rate: 190000 S/A                              Depth: 1.25 IN  
Row Spacing: 30 IN                              Seed Bed: MEDIUM  
Soil Temperature: 73 F                      Soil Moisture: NORMAL                      Emergence Date: 05-08-00

## SITE AND DESIGN

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

% Sand: 3.0	% OM: 2.8	Texture: SILT LOAM
% Silt: 65	pH: 6.5	Soil Name: MAURY
% Clay: 32	CEC: 17	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP                      Distance: 1                      Unit: MI

## APPLICATION DESCRIPTION

Application Date:	A	B	C	D	E
	05-02-00	05-22-00	05-24-00	05-31-00	07-07-00

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Time of Day:	10:00	10:00	11:00	10:00	10:30
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP	JBC
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	65 F	68 F	78 F	74 F	82 F
% Relative Humidity:	65	72	80	82	80
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH	3 MPH	5 MPH
Dew Presence (Y/N):	N	N	N	N	N
Soil Temp., Unit:	62 F	69 F	70 F	71 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	15	10	10	10

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA PRE	GLXMA EP	GLXMA MP	GLXMA LP	GLXMA JBC
Stage Scale:		2 TRIFOL	3 TRIFOL	4 TRIFOL	5 TRIFOL
Height, Unit:		5 IN	8 IN	10 IN	15 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E
Weed 1 Code, Stage:	SETFA PRE	SETFA EP	SETFA MP	SETFA LP	SETFA JBC
Stage Scale:		2 LF	3 LF	4 LF	6 LF
Density, Unit:		2 IN	4 IN	6 IN	10 IN
Weed 2 Code, Stage:	XANST	XANST	XANST	XANST	XANST
Stage Scale:		3 LF	6 LF	6 LF	10 LF
Density, Unit:		2 IN	4 IN	6 IN	12 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		2 LF	4 LF	5 LF	10 LF
Density, Unit:		2 IN	4 IN	7 IN	12 IN
Weed 4 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	8 LF	10 LF	16 LF
Density, Unit:		3 LF	5 LF	7 IN	11 IN

**APPLICATION EQUIPMENT**

	A	B	C	D	E
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 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:	20 IN	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 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 III

Trial ID: S0016  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	XANST	AMBTR	SETFA	IPOSS	CHEAL	XANST	AMBTR
Crop Code	GLYMA					GLYMA				
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.										

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT
1	ROUNDUP ULTRA	4 AS		1 LB A/A	6"W	0	95	93	95	95	95	0	90	85	90
1	AMS	100 SG		2 % W/W	6"W										
2	ROUNDUP ULTRAMAX	5 SL		1 LB A/A	6"W	0	95	92	93	95	95	0	88	82	85
2	AMS	100 SG		2 % W/W	6"W										
3	TOUCHDOWN 5	5 SL		1 LB A/A	6"W	0	95	90	93	93	93	0	90	87	87
3	AMS	100 SG		2 % W/W	6"W										
3	ACTIVATOR 90			0.25 % V/V	6"W										
4	EXTREME	2.17 EC		0.814 LB A/A	6"W	0	95	87	92	92	95	0	88	83	90
4	AMS	100 SG		2 % V/V	6"W										
4	ACTIVATOR 90			0.25 % V/V	6"W										
5	GLYPHOMAX	4 SL		1 LB A/A	6"W	0	95	92	93	93	95	0	87	83	90
5	AMS	100 SG		2 % W/W	6"W										
5	ACTIVATOR 90			0.25 % V/V	6"W										
6	ROUNDUP ULTRA	4 AS		1 LB A/A	10"W	0	95	88	90	92	93	0	90	82	87
6	AMS	100 SG		2 % W/W	10"W										
7	ROUNDUP ULTRAMAX	5 SL		1 LB A/A	10"W	0	95	90	92	93	93	0	87	78	88
7	AMS	100 SG		2 % W/W	10"W										
8	TOUCHDOWN 5	5 SL		1 LB A/A	10"W	2	95	90	92	92	92	2	90	78	88
8	AMS	100 SG		2 % W/W	10"W										
8	ACTIVATOR 90			0.25 % V/V	10"W										
9	EXTREME	2.17 EC		0.814 LB A/A	10"W	0	95	88	92	92	92	0	90	78	87
9	AMS	100 SG		2 % W/W	10"W										
9	ACTIVATOR 90			0.25 % V/V	10"W										
10	GLYPHOMAX	4 SL		1 LB A/A	10"W	0	95	87	95	95	95	0	90	80	92
10	AMS	100 SG		2 % W/W	10"W										
10	ACTIVATOR 90			0.25 % V/V	10"W										
11	ROUNDUP ULTRA	4 AS		1 LB A/A	16"W	0	93	88	90	90	90	0	85	78	82
11	AMS	100 SG		2 % W/W	16"W										

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Weed Code	SETFA	IPOSS	CHEAL	XANST	AMBTR	GLYMA	SETFA	IPOSS	CHEAL	XANST	AMBTR
Crop Code	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	IPOSS	CHEAL	XANST	AMBTR	GLYMA	SETFA	IPOSS	CHEAL	XANST	AMBTR	
12 ROUNDUP ULTRAMAX	5 SL		1 LB	A/A	16"W	0	93	88	88	88	0	87	68	82	85	83	
12 AMS	100 SG		2 %	W/W	16"W												
13 TOUCHDOWN 5	5 SL		1 LB	A/A	16"W	0	92	87	87	87	0	87	78	77	83	83	
13 AMS	100 SG		2 %	W/W	16"W												
13 ACTIVATOR 90			0.25 %	V/V	16"W												
14 EXTREME	2.17 EC		0.814 LB	A/A	16"W	0	93	88	88	88	0	90	78	78	85	88	
14 AMS	100 SG		2 %	W/W	16"W												
14 ACTIVATOR 90			0.25 %	V/V	16"W												
15 GLYPHOMAX	4 SL		1 LB	A/A	16"W	0	93	87	87	88	0	88	77	80	83	83	
15 AMS	100 SG		2 %	W/W	16"W												
15 ACTIVATOR 90			0.25 %	V/V	16"W												
16 Weedy Check						0	0	0	0	0	0	0	0	0	0	30	
LSD (P=.05)			1.2				2.4	4.4	3.6	4.3	4.3	1.2	4.8	8.8	8.0	7.0	21.2
Standard Deviation			0.7				1.4	2.7	2.1	2.6	2.6	0.7	2.9	5.3	4.8	4.2	12.7
CV			692.82				1.62	3.19	2.52	3.04	2.99	692.82	3.46	7.05	6.02	5.16	15.19

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## SOYBEAN POSTEMERGENCE III

Trial ID: S0016

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	XANST	AMBTR
Crop Code	GLYMA				
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL CONTROL				
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT				
Trt-Eval Interval	8 WEEK 8 WEEK 8 WEEK 8 WEEK 8 WEEK 8 WEEK				
ARM Action Codes	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					
1	ROUNDUP ULTRA	4	AS	1 LB A/A	6"W	0	78	78	83	92	90
1	AMS	100	SG	2 % W/W	6"W						
2	ROUNDUP ULTRAMAX	5	SL	1 LB A/A	6"W	0	82	82	82	90	90
2	AMS	100	SG	2 % W/W	6"W						
3	TOUCHDOWN 5	5	SL	1 LB A/A	6"W	0	83	80	82	90	90
3	AMS	100	SG	2 % W/W	6"W						
3	ACTIVATOR 90			0.25 % V/V	6"W						
4	EXTREME	2.17	EC	0.814 LB A/A	6"W	0	80	83	83	88	90
4	AMS	100	SG	2 % V/V	6"W						
4	ACTIVATOR 90			0.25 % V/V	6"W						
5	GLYPHOMAX	4	SL	1 LB A/A	6"W	0	80	80	83	87	87
5	AMS	100	SG	2 % W/W	6"W						
5	ACTIVATOR 90			0.25 % V/V	6"W						
6	ROUNDUP ULTRA	4	AS	1 LB A/A	10"W	0	82	80	85	87	90
6	AMS	100	SG	2 % W/W	10"W						
7	ROUNDUP ULTRAMAX	5	SL	1 LB A/A	10"W	0	82	78	82	88	88
7	AMS	100	SG	2 % W/W	10"W						
8	TOUCHDOWN 5	5	SL	1 LB A/A	10"W	2	90	78	85	87	85
8	AMS	100	SG	2 % W/W	10"W						
8	ACTIVATOR 90			0.25 % V/V	10"W						
9	EXTREME	2.17	EC	0.814 LB A/A	10"W	0	82	75	80	87	88
9	AMS	100	SG	2 % W/W	10"W						
9	ACTIVATOR 90			0.25 % V/V	10"W						
10	GLYPHOMAX	4	SL	1 LB A/A	10"W	0	87	80	80	93	92
10	AMS	100	SG	2 % W/W	10"W						
10	ACTIVATOR 90			0.25 % V/V	10"W						
11	ROUNDUP ULTRA	4	AS	1 LB A/A	16"W	0	85	75	78	82	83
11	AMS	100	SG	2 % W/W	16"W						

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Weed Code		SETFA	IPOSS	CHEAL	XANST	AMBTR			
Crop Code		GLYMA							
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
ARM Action Codes		P	P	P	P	P			
# Subsamples, Dec.		0	0	0	0	0			
Trt Treatment No. Name	Form Form Conc Type Rate	Rate Unit	Grow Stg						
12 ROUNDUP ULTRAMAX	5 SL	1 LB A/A	16"W	0	83	68	82	85	83
12 AMS	100 SG	2 % W/W	16"W						
13 TOUCHDOWN 5	5 SL	1 LB A/A	16"W	0	83	75	73	83	83
13 AMS	100 SG	2 % W/W	16"W						
13 ACTIVATOR 90		0.25 % V/V	16"W						
14 EXTREME	2.17 EC	0.814 LB A/A	16"W	0	83	75	75	85	85
14 AMS	100 SG	2 % W/W	16"W						
14 ACTIVATOR 90		0.25 % V/V	16"W						
15 GLYPHOMAX	4 SL	1 LB A/A	16"W	0	85	77	77	83	83
15 AMS	100 SG	2 % W/W	16"W						
15 ACTIVATOR 90		0.25 % V/V	16"W						
16 Weedy Check				0	0	0	0	0	30
LSD (P=.05)				1.2	7.2	8.1	7.9	7.0	21.1
Standard Deviation				0.7	4.3	4.8	4.7	4.2	12.7
CV				692.82	5.54	6.64	6.28	5.16	15.13



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## SOYBEAN POSTEMERGENCE III

Trial ID: S0016                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 05-02-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
5.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-02-00                      Planting Method: ROW  
Rate: 180000 S/A                              Depth: 1.25 IN  
Row Spacing: 30 IN                            Seed Bed: MEDIUM  
Soil Temperature: 65 F                      Soil Moisture: ADEQUATE                      Emergence Date: 05-10-00

## SITE AND DESIGN

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

## SOIL DESCRIPTION

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

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 1.25                      Unit: MI

## APPLICATION DESCRIPTION

A                      B                      C

Time of Day:	10:00	10:00	11:00
Application Method:	BACKPACK	BACKPACK	BACKPACK
Application Timing:	6" W	10" W	16' W
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	65 F	62 F	80 F
% Relative Humidity:	70	72	75
Wind Velocity, Unit:	3 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	65 F	63 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA 6" W	GLXMA 10" W	GLXMA 16" W
Height, Unit:	6 IN	12 IN	19 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA 6" W	SETFA 10" W	SETFA 16" W
Stage Scale:	4 LF	6 LF	9 LF
Density, Unit:	6 IN	10 IN	16 IN
Weed 2 Code, Stage:	IPOSS	IPOSS	IPOSS
Stage Scale:	3 LF	5 LF	7 LF
Density, Unit:	4 IN	8 IN	13 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:	8 LF	14 LF	19 LF
Density, Unit:	6 IN	10 IN	16 IN
Weed 4 Code, Stage:	XANST	XANST	XANST
Stage Scale:	5 LF	8 LF	12 LF
Density, Unit:	5 IN	9 IN	17 IN
Weed 5 Code, Stage:	AMBTR	AMBTR	AMBTR
Stage Scale:	4 LF	9 LF	12 LF
Density, Unit:	6 IN	11 IN	20 IN

## APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	30	30	30
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004DG	8004DG	8004DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
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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## SOYBEAN POSTEMERGERNCE IV

Trial ID: S0024

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS	
							INJURY PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	INJURY PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 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	Form Rate	Rate Unit	Grow Stg	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS	
1	FUSION	2.66	EC	0.2	LB A/A	MP	0	92	83	92	87	0	92	83	87	87
1	FLEXSTAR HL	1.88	CS	0.3525	LB A/A	MP										
1	MSO		L	1	QT/A	MP										
2	FUSION	2.66	EC	0.2	LB A/A	MP	0	97	85	90	95	0	95	85	90	90
2	FLEXSTAR HL	1.88	CS	0.3525	LB A/A	MP										
2	FIRSTRATE	84	W	0.008	LB A/A	MP										
2	MSO		L	1	QT/A	MP										
3	FUSION	2.66	EC	0.2	LB A/A	MP	0	97	85	90	95	0	95	87	90	90
3	FLEXSTAR HL	1.88	CS	0.3525	LB A/A	MP										
3	FIRSTRATE	84	W	0.01	LB A/A	MP										
3	MSO		L	1	QT/A	MP										
4	CONCLUDE XACT						0	97	67	82	90	0	93	68	72	85
4	BASAGRAN	4	E	0.5	LB A/A	MP										
4	BLAZER	2	L	0.25	LB A/A	MP										
4	POAST	1.53	EC	0.38	LB A/A	MP										
4	COC		L	0.5	QT/A	MP										
5	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	98	92	87	85	0	95	87	85	83
5	CONCLUDE XACT															
5	BASAGRAN	4	E	0.5	LB A/A	MP										
5	BLAZER	2	L	0.25	LB A/A	MP										
5	POAST	1.53	EC	0.38	LB A/A	MP										
5	COC		L	0.5	QT/A	MP										
6	FRONTIER	6	E	1.3	LB A/A	PRE	0	98	92	90	90	0	93	88	87	85
6	CONCLUDE XACT															
6	BASAGRAN	4	E	0.5	LB A/A	MP										
6	BLAZER	2	L	0.25	LB A/A	MP										
6	POAST	1.53	EC	0.38	LB A/A	MP										
6	COC		L	0.5	QT/A	MP										
7	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	95	85	92	90	0	95	83	92	90
7	STORM	4	EC	0.75	LB A/A	MP										
7	FIRSTRATE	84	W	0.03	LB A/A	MP										
7	COC		L	0.5	QT/A	MP										

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Weed Code	SETFA	CHEAL	XANST	IPOSS	SETFA	CHEAL	XANST	IPOSS
Crop Code	GLYMA				GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg	0	82	72	95	95	0	82	70	95	90
8	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	82	72	95	95	0	82	70	95	90
8	BLAZER	2	L	0.25	LB A/A	MP										
8	FIRSTRATE	84	W	0.03	LB A/A	MP										
8	COC		L	0.5	QT/A	MP										
9	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	72	70	97	97	0	77	67	95	90
9	ULTRA BLAZER	2	L	0.25	LB A/A	MP										
9	FIRSTRATE	84	W	0.03	LB A/A	MP										
9	COC		L	0.5	QT/A	MP										
10	BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	97	95	95	70	0	93	92	92	70
10	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP										
10	AMS	100	SG	2	LB A/A	LP										
11	BOUNDRY	7.8	EC	1.71	LB A/A	PRE	0	95	95	95	78	0	95	95	93	77
11	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP										
11	AMS	100	SG	2	LB A/A	LP										
12	BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	92	87	95	73	0	92	85	92	72
12	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP										
12	AMS	100	SG	2	LB A/A	LP										
13	BOUNDRY	7.8	EC	1.71	LB A/A	PRE	0	97	90	97	82	0	95	88	95	80
13	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP										
13	AMS	100	SG	2	LB A/A	LP										
14	BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	97	95	95	73	0	95	92	95	72
14	TOUCHDOWN 5	5	SL	0.75	LB A/A	LP										
14	AMS	100	SG	8.5	LB/100 GAL	LP										
15	BOUNDRY	7.8	EC	1.71	LB A/A	PRE	0	95	95	97	73	0	95	95	95	73
15	TOUCHDOWN 5	5	SL	0.75	LB A/A	LP										
15	AMS	100	SG	8.5	LB/100 GAL	LP										
16	CANOPY XL						0	97	95	95	87	0	95	95	95	85
16	AUTHORITY	75	DF	0.1	LB A/A	PRE										
16	CLASSIC	25	DF	0.02	LB A/A	PRE										
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
16	AMS	100	SG	2	% W/W	LP										
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	98	98	98	83	0	93	88	95	80
17	AMS	100	SG	2	% W/W	LP										

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Weed Code	SETFA	CHEAL	XANST	IPOSS	GLYMA	SETFA	CHEAL	XANST	IPOSS
Crop Code	GLYMA				GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	GLYMA INJURY PERCENT	SETFA CONTROL PERCENT	CHEAL CONTROL PERCENT	XANST CONTROL PERCENT	IPOSS CONTROL PERCENT	GLYMA INJURY PERCENT	SETFA CONTROL PERCENT	CHEAL CONTROL PERCENT	XANST CONTROL PERCENT	IPOSS CONTROL PERCENT
18 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	LP	0	97	95	95	85	0	95	90	95	82	
18 AMS	100	SG	2 % W/W	LP											
19 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	LP	0	97	97	95	83	0	95	92	95	82	
19 AMS	100	SG	2 % W/W	LP											
19 ROUNDUP ULTRAMAX	5	SL	0.78 LB A/A	REG											
19 AMS	100	SG	2 % W/W	REG											
20 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	LP	0	97	97	97	90	0	95	92	95	85	
20 FIRSTRATE	84	W	0.016 LB A/A	LP											
20 AMS	100	SG	2 % W/W	LP											
21 TOUCHDOWN 5	5	SL	1 LB A/A	LP	0	95	97	97	90	0	93	90	95	87	
21 AMS	100	SG	8.5 LB/100	GAL LP											
22 TOUCHDOWN 5	5	SL	1 LB A/A	LP	0	97	97	95	90	0	95	93	95	83	
22 AMS	100	SG	8.5 LB/100	GAL LP											
22 TOUCHDOWN 5	5	SL	0.75 LB A/A	REG											
22 AMS	100	SG	8.5 LB/100	GAL REG											
LSD (P=.05)						0.0	4.3	3.6	3.3	3.7	0.0	5.1	6.5	4.8	2.8
Standard Deviation						0.0	2.6	2.2	2.0	2.3	0.0	3.1	3.9	2.9	1.7
CV						0.0	2.77	2.48	2.12	2.64	0.0	3.32	4.56	3.18	2.05

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## SOYBEAN POSTEMERGERNCE IV

Trial ID: S0024

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	GLYMA	SETFA	CHEAL	XANST	IPOSS
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P
ARM Action Codes	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	GLYMA	SETFA	CHEAL	XANST	IPOSS
1	FUSION	2.66	EC	0.2	LB A/A	MP	0	92	83	87	87
1	FLEXSTAR HL	1.88	CS	0.3525	LB A/A	MP					
1	MSO		L	1	QT/A	MP					
2	FUSION	2.66	EC	0.2	LB A/A	MP	0	95	85	90	90
2	FLEXSTAR HL	1.88	CS	0.3525	LB A/A	MP					
2	FIRSTRATE	84	W	0.008	LB A/A	MP					
2	MSO		L	1	QT/A	MP					
3	FUSION	2.66	EC	0.2	LB A/A	MP	0	95	83	90	90
3	FLEXSTAR HL	1.88	CS	0.3525	LB A/A	MP					
3	FIRSTRATE	84	W	0.01	LB A/A	MP					
3	MSO		L	1	QT/A	MP					
4	CONCLUDE XACT						0	93	68	72	85
4	BASAGRAN	4	E	0.5	LB A/A	MP					
4	BLAZER	2	L	0.25	LB A/A	MP					
4	POAST	1.53	EC	0.38	LB A/A	MP					
4	COC		L	0.5	QT/A	MP					
5	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	93	87	82	83
5	CONCLUDE XACT										
5	BASAGRAN	4	E	0.5	LB A/A	MP					
5	BLAZER	2	L	0.25	LB A/A	MP					
5	POAST	1.53	EC	0.38	LB A/A	MP					
5	COC		L	0.5	QT/A	MP					
6	FRONTIER	6	E	1.3	LB A/A	PRE	0	93	88	87	85
6	CONCLUDE XACT										
6	BASAGRAN	4	E	0.5	LB A/A	MP					
6	BLAZER	2	L	0.25	LB A/A	MP					
6	POAST	1.53	EC	0.38	LB A/A	MP					
6	COC		L	0.5	QT/A	MP					
7	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	93	83	92	88
7	STORM	4	EC	0.75	LB A/A	MP					
7	FIRSTRATE	84	W	0.03	LB A/A	MP					
7	COC		L	0.5	QT/A	MP					

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Weed Code	SETFA	CHEAL	XANST	IPOSS	
Crop Code	GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg					
8 OUTLOOK	6	EC	0.75	LB A/A	PRE	0	82	70	93	88
8 BLAZER	2	L	0.25	LB A/A	MP					
8 FIRSTRATE	84	W	0.03	LB A/A	MP					
8 COC		L	0.5	QT/A	MP					
9 OUTLOOK	6	EC	0.75	LB A/A	PRE	0	77	67	95	90
9 ULTRA BLAZER	2	L	0.25	LB A/A	MP					
9 FIRSTRATE	84	W	0.03	LB A/A	MP					
9 COC		L	0.5	QT/A	MP					
10 BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	92	92	92	70
10 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP					
10 AMS	100	SG	2	LB A/A	LP					
11 BOUNDRY	7.8	EC	1.71	LB A/A	PRE	0	92	92	93	77
11 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP					
11 AMS	100	SG	2	LB A/A	LP					
12 BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	92	85	92	72
12 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP					
12 AMS	100	SG	2	LB A/A	LP					
13 BOUNDRY	7.8	EC	1.71	LB A/A	PRE	0	93	88	95	80
13 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP					
13 AMS	100	SG	2	LB A/A	LP					
14 BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	95	92	95	72
14 TOUCHDOWN 5	5	SL	0.75	LB A/A	LP					
14 AMS	100	SG	8.5	LB/100 GAL	LP					
15 BOUNDRY	7.8	EC	1.71	LB A/A	PRE	0	92	93	95	73
15 TOUCHDOWN 5	5	SL	0.75	LB A/A	LP					
15 AMS	100	SG	8.5	LB/100 GAL	LP					
16 CANOPY XL						0	93	93	95	85
16 AUTHORITY	75	DF	0.1	LB A/A	PRE					
16 CLASSIC	25	DF	0.02	LB A/A	PRE					
16 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
16 AMS	100	SG	2	% W/W	LP					
17 ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	92	88	95	80
17 AMS	100	SG	2	% W/W	LP					

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Weed Code	SETFA	CHEAL	XANST	IPOSS
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg					
18 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	88	95	82
18 AMS	100	SG	2	% W/W	LP					
19 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	90	95	82
19 AMS	100	SG	2	% W/W	LP					
19 ROUNDUP ULTRAMAX	5	SL	0.78	LB A/A	REG					
19 AMS	100	SG	2	% W/W	REG					
20 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	92	95	85
20 FIRSTRATE	84	W	0.016	LB A/A	LP					
20 AMS	100	SG	2	% W/W	LP					
21 TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	92	90	95	85
21 AMS	100	SG	8.5	LB/100 GAL	LP					
22 TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	93	93	95	83
22 AMS	100	SG	8.5	LB/100 GAL	LP					
22 TOUCHDOWN 5	5	SL	0.75	LB A/A	REG					
22 AMS	100	SG	8.5	LB/100 GAL	REG					
LSD (P=.05)						0.0	5.8	7.2	5.4	2.9
Standard Deviation						0.0	3.5	4.3	3.3	1.7
CV						0.0	3.86	5.05	3.57	2.1



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Weed Science Field Research

## SOYBEAN POSTEMERGERNCE IV

Trial ID: S0024                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 05-02-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-02-00                      Planting Method: ROW  
Rate: 190000 S/A                              Depth: 1.25 IN  
Row Spacing: 30 IN                              Seed Bed: MEDIUM  
Soil Temperature: 65 F                      Soil Moisture: NORMAL                      Emergence Date: 05-09-00

## SITE AND DESIGN

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

% Sand: 5	% OM: 2.8	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: MAURY
% Clay: 32	CEC: 17	Fert. Level: EXCELLENT

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

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	05-02-00	05-22-00	05-31-00	07-07-00

Time of Day:	10:00	10:00	11:00	10:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP	LP
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	65 F	68 F	74 F	76
% Relative Humidity:	65	72	82	70
Wind Velocity, Unit:	3 MPH	4 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	62 F	69 F	71 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA PRE	GLXMA MP	GLXMA LP	GLXMA REG
Stage Scale:		2 TRIFOL	3 TRIFOL	5 TRIFOL
Height, Unit:		5 IN	8 IN	14 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP	SETFA REG
Stage Scale:		3 LF	4 LF	2 LF
Density, Unit:		4 IN	6 IN	2 IN
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		3 LF	6 LF	4 LF
Density, Unit:		3 IN	4 IN	2 IN
Weed 3 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	4 LF	2 LF
Density, Unit:		3 IN	4 IN	3 IN
Weed 4 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		4 LF	8 LF	4 LF
Density, Unit:		3 LF	5 LF	3 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

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## SOYBEAN POSTEMERGENCE V

Trial ID: S0025

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	IPOSS	SETFA	CHEAL	XANST	IPOSS
Crop Code	GLYMA .				GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	-90	95	82	0	93	88	95	80
1	TOUCHDOWN	5	5 SL	1 LB	A/A	LP	0	95	-90	95	82	0	93	88	95	80
1	AMS	100	SG	8.5 LB/100	GAL	LP										
2	STEEL	2.57	EC	0.9713 LB	A/A	PRE	0	95	92	95	85	0	95	92	93	85
2	TOUCHDOWN	5	5 SL	0.75 LB	A/A	LP										
2	AMS	100	SG	8.5 LB/100	GAL	LP										
3	STEEL	2.57	EC	0.9713 LB	A/A	PRE	0	88	95	95	90	0	87	95	95	87
3	TOUCHDOWN	5	5 SL	1 LB	A/A	LP										
3	AMS	100	SG	8.5 LB/100	GAL	LP										
4	TOUCHDOWN	5	5 SL	0.75 LB	A/A	LP	5	92	85	95	88	0	90	82	95	87
4	FLEXSTAR	HL	1.88 CS	0.1175 LB	A/A	LP										
4	AMS	100	SG	8.5 LB/100	GAL	LP										
4	MSO		L	1 QT/A		LP										
5	TOUCHDOWN	5	5 SL	0.75 LB	A/A	LP	5	97	88	97	92	0	92	85	93	87
5	FLEXSTAR	HL	1.88 CS	0.1763 LB	A/A	LP										
5	AMS	100	SG	8.5 LB/100	GAL	LP										
5	MSO		L	1 QT/A		LP										
6	TOUCHDOWN	5	5 SL	1 LB	A/A	LP	5	93	87	95	90	0	90	85	95	85
6	FLEXSTAR	HL	1.88 CS	0.1175 LB	A/A	LP										
6	AMS	100	SG	8.5 LB/100	GAL	LP										
6	MSO		L	1 QT/A		LP										
7	TOUCHDOWN	5	5 SL	1 LB	A/A	LP	5	95	90	95	90	0	95	87	95	85
7	FLEXSTAR	HL	1.88 CS	0.1763 LB	A/A	LP										
7	AMS	100	SG	8.5 LB/100	GAL	LP										
7	MSO		L	1 QT/A		LP										
8	TOUCHDOWN	5	5 SL	0.75 LB	A/A	LP	0	95	85	95	77	0	95	82	95	75
8	FUSION	2.66	EC	0.1247 LB	A/A	LP										
8	AMS	100	SG	8.5 LB/100	GAL	LP										
8	MSO		L	1 QT/A		LP										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	XANST	IPOSS	SETFA	CHEAL	XANST	IPOSS	
							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	
							INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
							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
							P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0

Trt Treatment No.	Form Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg										
9	TOUCHDOWN	5	SL	0.75	LB A/A	LP	5	95	92	95	78	0	95	92	95	78
9	PURSUIT	70	DF	0.032	LB A/A	LP										
9	AMS	100	SG	8.5	LB/100 GAL	LP										
9	SPREADER		HF	0.25	% V/V	LP										
10	TOUCHDOWN	5	SL	0.75	LB A/A	LP	5	95	93	95	80	0	92	92	95	83
10	PURSUIT	70	DF	0.063	LB A/A	LP										
10	AMS	100	SG	8.5	LB/100 GAL	LP										
10	SPREADER		HF	0.25	% V/V	LP										
11	TOUCHDOWN	5	SL	0.75	LB A/A	LP	5	95	92	95	87	0	95	90	95	85
11	CLASSIC	25	DF	0.008	LB A/A	LP										
11	AMS	100	SG	8.5	LB/100 GAL	LP										
11	SPREADER		HF	0.25	% V/V	LP										
12	Weedy Check						0	0	0	0	0	0	0	0	0	0
LSD (P=.05)							0.0	4.4	7.4	1.4	5.9	0.0	5.7	8.6	2.0	6.3
Standard Deviation							0.0	2.6	4.4	0.8	3.5	0.0	3.4	5.1	1.2	3.7
CV							0.0	3.03	5.33	0.96	4.44	0.0	3.96	6.33	1.39	4.89

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## SOYBEAN POSTEMERGENCE V

Trial ID: S0025

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	IPOSS
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	GLYMA INJURY CONTROL PERCENT 8 WEEK	SETFA CONTROL PERCENT 8 WEEK	CHEAL CONTROL PERCENT 8 WEEK	XANST CONTROL PERCENT 8 WEEK	IPOSS CONTROL PERCENT 8 WEEK
1	TOUCHDOWN	5	SL	1	LB A/A	LP	0	92	88	95	80
1	AMS	100	SG	8.5	LB/100 GAL	LP					
2	STEEL	2.57	EC	0.9713	LB A/A	PRE	0	92	90	93	85
2	TOUCHDOWN	5	SL	0.75	LB A/A	LP					
2	AMS	100	SG	8.5	LB/100 GAL	LP					
3	STEEL	2.57	EC	0.9713	LB A/A	PRE	0	87	95	95	85
3	TOUCHDOWN	5	SL	1	LB A/A	LP					
3	AMS	100	SG	8.5	LB/100 GAL	LP					
4	TOUCHDOWN	5	SL	0.75	LB A/A	LP	0	88	82	95	87
4	FLEXSTAR HL	1.88	CS	0.1175	LB A/A	LP					
4	AMS	100	SG	8.5	LB/100 GAL	LP					
4	MSO		L	1	QT/A	LP					
5	TOUCHDOWN	5	SL	0.75	LB A/A	LP	0	90	85	93	85
5	FLEXSTAR HL	1.88	CS	0.1763	LB A/A	LP					
5	AMS	100	SG	8.5	LB/100 GAL	LP					
5	MSO		L	1	QT/A	LP					
6	TOUCHDOWN	5	SL	1	LB A/A	LP	0	90	85	95	83
6	FLEXSTAR HL	1.88	CS	0.1175	LB A/A	LP					
6	AMS	100	SG	8.5	LB/100 GAL	LP					
6	MSO		L	1	QT/A	LP					
7	TOUCHDOWN	5	SL	1	LB A/A	LP	0	93	87	95	85
7	FLEXSTAR HL	1.88	CS	0.1763	LB A/A	LP					
7	AMS	100	SG	8.5	LB/100 GAL	LP					
7	MSO		L	1	QT/A	LP					
8	TOUCHDOWN	5	SL	0.75	LB A/A	LP	0	90	82	95	75
8	FUSION	2.66	EC	0.1247	LB A/A	LP					
8	AMS	100	SG	8.5	LB/100 GAL	LP					
8	MSO		L	1	QT/A	LP					

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	XANST	IPOSS	
							GLYMA	INJURY CONTROL	CONTROL	CONTROL	CONTROL
							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
							8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
							P	P	P	P	P
							0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
9	TOUCHDOWN	5	SL	0.75	LB A/A	LP	0	92	92	95	78
9	PURSUIT	70	DF	0.032	LB A/A	LP					
9	AMS	100	SG	8.5	LB/100 GAL	LP					
9	SPREADER		HF	0.25	% V/V	LP					
10	TOUCHDOWN	5	SL	0.75	LB A/A	LP	0	90	90	95	83
10	PURSUIT	70	DF	0.063	LB A/A	LP					
10	AMS	100	SG	8.5	LB/100 GAL	LP					
10	SPREADER		HF	0.25	% V/V	LP					
11	TOUCHDOWN	5	SL	0.75	LB A/A	LP	0	92	90	95	85
11	CLASSIC	25	DF	0.008	LB A/A	LP					
11	AMS	100	SG	8.5	LB/100 GAL	LP					
11	SPREADER		HF	0.25	% V/V	LP					
12	Weedy Check						0	0	0	0	0
LSD (P=.05)							0.0	5.8	8.3	2.0	5.8
Standard Deviation							0.0	3.5	4.9	1.2	3.4
CV							0.0	4.17	6.12	1.39	4.53

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## SOYBEAN POSTEMERGENCE V

Trial ID: S0025                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 05-02-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-02-00                      Planting Method: ROW  
Rate: 190000 S/A                              Depth: 1.25 IN  
Row Spacing: 30 IN                            Seed Bed: MEDIUM  
Soil Temperature: 64 F                      Soil Moisture: NORMAL                      Emergence Date: 05-09-00

## SITE AND DESIGN

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

% Sand: 5	% OM: 2.8	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: MAURY
% Clay: 32	CEC: 17	Fert. Level: EXCELLENT

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

## APPLICATION DESCRIPTION

	A	B
Application Date:	05-02-00	05-31-00

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Time of Day:	10:00	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	LP
Applic. Placement:	BROSOI	BROFOI
Air Temp., Unit:	68 F	69 F
% Relative Humidity:	70	73
Wind Velocity, Unit:	3 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	62 F	65 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA PRE	GLXMA LP
Stage Scale:		3 TRIFOL
Height, Unit:		8 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA LP
Stage Scale:		3 LF
Density, Unit:		6 IN
Weed 2 Code, Stage:	CHEAL	CHEAL
Stage Scale:		12 LF
Density, Unit:		6 IN
Weed 3 Code, Stage:	XANST	XANST
Stage Scale:		4 LF
Density, Unit:		5 IN
Weed 4 Code, Stage:	IPOSS	IPOSS
Stage Scale:		6 LF
Density, Unit:		6 IN

## APPLICATION EQUIPMENT

	A	B
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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2



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## SOYBEAN POSTEMERGENCE VI

Trial ID: S0026

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST
Crop Code	GLYMA				GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST		
1 COBRA	2 EC		0.125 LB	A/A	MP	5	91	15	87	92	0	93	35	87	90
1 COC	L		0.5 QT/A		MP										
1 AMS	100 SG		2 LB	A/A	MP										
1 SELECT	2 EC		0.125 LB	A/A	+1WK										
1 COC	L		1 QT/A		+1WK										
2 COBRA	2 EC		0.125 LB	A/A	MP	5	92	43	87	93	0	92	50	87	90
2 FIRSTRATE	84 W		0.016 LB	A/A	MP										
2 COC	L		0.5 QT/A		MP										
2 AMS	100 SG		2 LB	A/A	MP										
2 SELECT	2 EC		0.125 LB	A/A	+1WK										
2 COC	L		1 QT/A		+1WK										
3 FIRSTRATE	84 W		0.016 LB	A/A	MP	0	92	5	85	92	0	92	2	85	90
3 COC	L		0.5 QT/A		MP										
3 AMS	100 SG		2 LB	A/A	MP										
3 SELECT	2 EC		0.125 LB	A/A	+1WK										
3 COC	L		1 QT/A		+1WK										
4 COBRA	2 EC		0.125 LB	A/A	MP	5	93	28	90	93	0	93	28	90	93
4 PRO-X	100 L		0.5 QT/A		MP										
4 AMS	100 SG		2 LB	A/A	MP										
4 SELECT	2 EC		0.125 LB	A/A	+1WK										
4 COC	L		1 QT/A		+1WK										
5 COBRA	2 EC		0.125 LB	A/A	MP	5	95	50	87	95	0	95	40	87	95
5 FIRSTRATE	84 W		0.016 LB	A/A	MP										
5 PRO-X	100 L		0.5 QT/A		MP										
5 AMS	100 SG		2 LB	A/A	MP										
5 SELECT	2 EC		0.125 LB	A/A	+1WK										
5 COC	L		1 QT/A		+1WK										
6 SELECT	2 EC		0.094 LB	A/A	LP	0	93	13	85	95	0	93	13	85	93
6 COC	L		1 QT/A		LP										
6 FIRSTRATE	84 W		0.016 LB	A/A	+1WK										
6 COC	L		1 QT/A		+1WK										

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Weed Code	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST		
Crop Code	GLYMA					GLYMA				
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
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST		
7 SELECT	2	EC	0.094	LB A/A LP		0	95	10	85	95	0	93	8	85	95
7 COC		L		1 QT/A LP											
7 AMS	100	SG	2.5	LB A/A LP											
7 FIRSTRATE	84	W	0.016	LB A/A +1WK											
7 COC		L		1 QT/A +1WK											
8 SELECT	2	EC	0.094	LB A/A LP		2	92	27	85	95	0	92	23	85	93
8 FIRSTRATE	84	W	0.016	LB A/A LP											
8 COC		L		1 QT/A LP											
8 AMS	100	SG	2.5	LB A/A LP											
9 SELECT	2	EC	0.125	LB A/A LP		2	93	15	87	95	0	93	15	87	93
9 COC		L		1 QT/A LP											
9 FIRSTRATE	84	W	0.016	LB A/A +1WK											
9 COC		L		1 QT/A +1WK											
10 SELECT	2	EC	0.125	LB A/A LP		5	92	8	87	93	0	92	7	87	93
10 COC		L		1 QT/A LP											
10 AMS	100	SG	2.5	LB A/A LP											
10 FIRSTRATE	84	W	0.016	LB A/A +1WK											
10 COC		L		1 QT/A +1WK											
11 SELECT	2	EC	0.125	LB A/A LP		2	92	13	85	92	0	92	13	85	92
11 FIRSTRATE	84	W	0.016	LB A/A LP											
11 COC		L		1 QT/A LP											
11 AMS	100	SG	2.5	LB A/A LP											
12 SELECT	2	EC	0.094	LB A/A MP		0	90	0	0	0	0	90	0	0	0
12 COC		L		1 QT/A MP											
12 AMS	100	SG	2.5	LB A/A MP											
13 SELECT	2	EC	0.094	LB A/A MP		5	93	32	88	95	0	93	32	88	95
13 COBRA	2	EC	0.125	LB A/A MP											
13 COC		L		1 QT/A MP											
13 AMS	100	SG	2.5	LB A/A MP											
14 SELECT	2	EC	0.094	LB A/A MP		5	92	50	90	95	0	92	43	90	92
14 FIRSTRATE	84	W	0.016	LB A/A MP											
14 COBRA	2	EC	0.125	LB A/A MP											
14 COC		L	0.5	QT/A MP											
14 AMS	100	SG	2.5	LB A/A MP											

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Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.			SETFA	AMBTR	CHEAL	XANST			SETFA	AMBTR	CHEAL	XANST	
			GLYMA					GLYMA					
			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		
			0	0	0	0	0	0	0	0	0		
Trt Treatment No. Name	Form Form Conc Type	Rate Unit	Grow Stg										
15 SELECT	2 EC	0.125 LB A/A	MP	5	90	50	90	95	0	90	45	90	92
15 FIRSTRATE	84 W	0.016 LB A/A	MP										
15 COBRA	2 EC	0.125 LB A/A	MP										
15 COC	L	0.5 QT/A	MP										
15 AMS	100 SG	2.5 LB A/A	MP										
16 SELECT	2 EC	0.094 LB A/A	MP	0	87	58	82	90	0	87	53	82	90
16 PURSUIT	70 DF	0.063 LB A/A	MP										
16 COC	L	0.5 QT/A	MP										
16 AMS	100 SG	2.5 LB A/A	MP										
17 SELECT	2 EC	0.125 LB A/A	MP	2	90	53	82	90	0	90	43	82	90
17 PURSUIT	70 DF	0.063 LB A/A	MP										
17 COC	L	0.5 QT/A	MP										
17 AMS	100 SG	2.5 LB A/A	MP										
18 CLASSIC	25 DF	0.008 LB A/A	MP	3	93	42	90	95	0	93	38	90	93
18 IMPRESSIVE DB	100 SG	2.25 LB A/A	MP										
18 SELECT	2 EC	0.125 LB A/A	+1WK										
18 COC	L	1 QT/A	+1WK										
19 CLASSIC	25 DF	0.008 LB A/A	MP	5	95	43	88	93	0	93	42	88	93
19 S-3153	57.6 WG	0.009 LB A/A	MP										
19 IMPRESSIVE DB	100 SG	2.25 LB A/A	MP										
19 SELECT	2 EC	0.125 LB A/A	+1WK										
19 COC	L	1 QT/A	+1WK										
20 FIRSTRATE	84 W	0.016 LB A/A	MP	0	93	30	88	95	0	93	30	88	92
20 COC	L	0.5 QT/A	MP										
20 SELECT	2 EC	0.125 LB A/A	+1WK										
20 COC	L	1 QT/A	+1WK										
21 FIRSTRATE	84 W	0.016 LB A/A	MP	3	92	50	88	93	0	92	48	88	88
21 S-3153	57.6 WG	0.009 LB A/A	MP										
21 COC	L	0.5 QT/A	MP										
21 SELECT	2 EC	0.125 LB A/A	+1WK										
21 COC	L	1 QT/A	+1WK										
22 COBRA	2 EC	0.125 LB A/A	MP	5	95	43	85	93	0	95	43	85	93
22 COC	L	0.5 QT/A	MP										
22 SELECT	2 EC	0.125 LB A/A	+1WK										
22 COC	L	1 QT/A	+1WK										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	SETFA	AMBTR	CHEAL	XANST	
							GLYMA INJURY CONTROL CONTROL CONTROL CONTROL	GLYMA INJURY CONTROL CONTROL CONTROL							
							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
							P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg										
23 COBRA	2	EC	0.125	LB A/A	MP	7	95	43	90	95	0	95	43	90	95
23 S-3153	57.6	WG	0.009	LB A/A	MP										
23 COC	L		0.5	QT/A	MP										
23 SELECT	2	EC	0.125	LB A/A	+1WK										
23 COC	L		1	QT/A	+1WK										
24 WEEDY CHECK						0	0	0	0	0	0	0	0	0	0
LSD (P=.05)			2.6				4.9	24.2	4.6	3.4	0.0	5.1	21.5	4.6	3.9
Standard Deviation			1.6				2.9	14.7	2.8	2.1	0.0	3.1	13.0	2.8	2.4
CV			54.11				3.32	47.36	3.5	2.39	0.0	3.47	44.95	3.5	2.8

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## SOYBEAN POSTEMERGENCE VI

Trial ID: S0026  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Form	Rate	Grow						
		Conc	Type	Rate	Unit	Stg					
1	COBRA	2	EC	0.125	LB A/A	MP	0	90	35	85	90
1	COC	L		0.5	QT/A	MP					
1	AMS	100	SG	2	LB A/A	MP					
1	SELECT	2	EC	0.125	LB A/A	+1WK					
1	COC	L		1	QT/A	+1WK					
2	COBRA	2	EC	0.125	LB A/A	MP	0	90	50	83	90
2	FIRSTRATE	84	W	0.016	LB A/A	MP					
2	COC	L		0.5	QT/A	MP					
2	AMS	100	SG	2	LB A/A	MP					
2	SELECT	2	EC	0.125	LB A/A	+1WK					
2	COC	L		1	QT/A	+1WK					
3	FIRSTRATE	84	W	0.016	LB A/A	MP	0	90	2	85	90
3	COC	L		0.5	QT/A	MP					
3	AMS	100	SG	2	LB A/A	MP					
3	SELECT	2	EC	0.125	LB A/A	+1WK					
3	COC	L		1	QT/A	+1WK					
4	COBRA	2	EC	0.125	LB A/A	MP	0	92	28	85	93
4	PRO-X	100	L	0.5	QT/A	MP					
4	AMS	100	SG	2	LB A/A	MP					
4	SELECT	2	EC	0.125	LB A/A	+1WK					
4	COC	L		1	QT/A	+1WK					
5	COBRA	2	EC	0.125	LB A/A	MP	0	90	40	83	95
5	FIRSTRATE	84	W	0.016	LB A/A	MP					
5	PRO-X	100	L	0.5	QT/A	MP					
5	AMS	100	SG	2	LB A/A	MP					
5	SELECT	2	EC	0.125	LB A/A	+1WK					
5	COC	L		1	QT/A	+1WK					
6	SELECT	2	EC	0.094	LB A/A	LP	0	90	13	85	93
6	COC	L		1	QT/A	LP					
6	FIRSTRATE	84	W	0.016	LB A/A	+1WK					
6	COC	L		1	QT/A	+1WK					

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Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
7 SELECT	2 EC		0.094 LB	A/A LP		0	90	20	83	95
7 COC	L		1 QT/A	LP						
7 AMS	100 SG		2.5 LB	A/A LP						
7 FIRSTRATE	84 W		0.016 LB	A/A +1WK						
7 COC	L		1 QT/A	+1WK						
8 SELECT	2 EC		0.094 LB	A/A LP		0	90	23	85	93
8 FIRSTRATE	84 W		0.016 LB	A/A LP						
8 COC	L		1 QT/A	LP						
8 AMS	100 SG		2.5 LB	A/A LP						
9 SELECT	2 EC		0.125 LB	A/A LP		0	90	15	85	93
9 COC	L		1 QT/A	LP						
9 FIRSTRATE	84 W		0.016 LB	A/A +1WK						
9 COC	L		1 QT/A	+1WK						
10 SELECT	2 EC		0.125 LB	A/A LP		0	88	7	87	93
10 COC	L		1 QT/A	LP						
10 AMS	100 SG		2.5 LB	A/A LP						
10 FIRSTRATE	84 W		0.016 LB	A/A +1WK						
10 COC	L		1 QT/A	+1WK						
11 SELECT	2 EC		0.125 LB	A/A LP		0	88	13	85	92
11 FIRSTRATE	84 W		0.016 LB	A/A LP						
11 COC	L		1 QT/A	LP						
11 AMS	100 SG		2.5 LB	A/A LP						
12 SELECT	2 EC		0.094 LB	A/A MP		0	90	0	0	0
12 COC	L		1 QT/A	MP						
12 AMS	100 SG		2.5 LB	A/A MP						
13 SELECT	2 EC		0.094 LB	A/A MP		0	92	32	85	95
13 COBRA	2 EC		0.125 LB	A/A MP						
13 COC	L		1 QT/A	MP						
13 AMS	100 SG		2.5 LB	A/A MP						
14 SELECT	2 EC		0.094 LB	A/A MP		0	92	43	85	92
14 FIRSTRATE	84 W		0.016 LB	A/A MP						
14 COBRA	2 EC		0.125 LB	A/A MP						
14 COC	L		0.5 QT/A	MP						
14 AMS	100 SG		2.5 LB	A/A MP						

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Weed Code						SETFA	AMBTR	CHEAL	XANST	
Crop Code						GLYMA				
Rating Data Type						INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval						8 WEEK	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes						P	P	P	P	
# Subsamples, Dec.						0	0	0	0	
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
15 SELECT	2	EC	0.125	LB A/A	MP	0	90	45	87	92
15 FIRSTRATE	84	W	0.016	LB A/A	MP					
15 COBRA	2	EC	0.125	LB A/A	MP					
15 COC	L		0.5	QT/A	MP					
15 AMS	100	SG	2.5	LB A/A	MP					
16 SELECT	2	EC	0.094	LB A/A	MP	0	87	53	82	90
16 PURSUIT	70	DF	0.063	LB A/A	MP					
16 COC	L		0.5	QT/A	MP					
16 AMS	100	SG	2.5	LB A/A	MP					
17 SELECT	2	EC	0.125	LB A/A	MP	0	90	43	82	90
17 PURSUIT	70	DF	0.063	LB A/A	MP					
17 COC	L		0.5	QT/A	MP					
17 AMS	100	SG	2.5	LB A/A	MP					
18 CLASSIC	25	DF	0.008	LB A/A	MP	0	90	38	87	93
18 IMPRESSIVE DB	100	SG	2.25	LB A/A	MP					
18 SELECT	2	EC	0.125	LB A/A	+1WK					
18 COC	L		1	QT/A	+1WK					
19 CLASSIC	25	DF	0.008	LB A/A	MP	0	92	42	85	93
19 S-3153	57.6	WG	0.009	LB A/A	MP					
19 IMPRESSIVE DB	100	SG	2.25	LB A/A	MP					
19 SELECT	2	EC	0.125	LB A/A	+1WK					
19 COC	L		1	QT/A	+1WK					
20 FIRSTRATE	84	W	0.016	LB A/A	MP	0	92	30	85	92
20 COC	L		0.5	QT/A	MP					
20 SELECT	2	EC	0.125	LB A/A	+1WK					
20 COC	L		1	QT/A	+1WK					
21 FIRSTRATE	84	W	0.016	LB A/A	MP	0	92	48	87	88
21 S-3153	57.6	WG	0.009	LB A/A	MP					
21 COC	L		0.5	QT/A	MP					
21 SELECT	2	EC	0.125	LB A/A	+1WK					
21 COC	L		1	QT/A	+1WK					
22 COBRA	2	EC	0.125	LB A/A	MP	0	92	43	83	93
22 COC	L		0.5	QT/A	MP					
22 SELECT	2	EC	0.125	LB A/A	+1WK					
22 COC	L		1	QT/A	+1WK					

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Weed Science Field Research

Weed Code	SETFA	AMBTR	CHEAL	XANST
Crop Code	GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
23 COBRA	2 EC		0.125 LB	A/A MP		0	93	43	88	95
23 S-3153	57.6 WG		0.009 LB	A/A MP						
23 COC	L		0.5 QT/A	MP						
23 SELECT	2 EC		0.125 LB	A/A +1WK						
23 COC	L		1 QT/A	+1WK						
24 WEEDY CHECK						0	0	0	0	0
LSD (P=.05)			0.0			0.0	3.6	23.0	3.7	3.9
Standard Deviation			0.0			0.0	2.2	13.9	2.2	2.4
CV			0.0			0.0	2.54	47.19	2.87	2.8



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

## SOYBEAN POSTEMERGENCE VI

Trial ID: S0026

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

Study Director: CHARLES H. SLACK

Affiliation: UNIVERSITY OF KENTUCKY

Postal Code: 40546

Investigator: Charles Slack

Postal Code: 40546

## TRIAL LOCATION

City: LEXINGTON

Trial Status:

COMPLETE

State/Prov.: KY

Postal Code: 40546

Initiation Date:

05-04-00

Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

Crop 1: GLXMA SOYBEAN

Variety: AG4602

Planting Date: 05-04-00

Planting Method: ROW

Rate: 12 S/ROW-FT

Depth: 1.5 IN

Row Spacing: 30 IN

Seed Bed: MEDIUM

Soil Temperature: 65

F

Soil Moisture: ADEQUATE

Emergence Date: 05-10-00

## SITE AND DESIGN

Plot Width, Unit: 5 FT

Plot Length, Unit: 44 FT

Reps: 3

Site Type: FIELD

Tillage Type: CONVNETIONAL

Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

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

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.8

Unit: MI

## APPLICATION DESCRIPTION

A	B	C	D
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09-18-00 (S0026)

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Site Description Page 2 of 3

**Application Date:** 05-04-00 05-22-00 05-24-00 05-25-00

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Time of Day:	10:00	10:00	10:00	11:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP	+ 1 WEEK
Applic. Placement:	BROSOL	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	65 F	73 F	74 F	78
% Relative Humidity:	80	74	76	76
Wind Velocity, Unit:	1 MPH	3 MPH	5 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	64 F	67 F	71 F	72
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	10	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA PRE	GLXMA MP	GLXMA LP	GLXMA +1WEEK
Stage Scale:		2 TRIFOIL	3 TRIFOIL	4 TRIFOIL
Height, Unit:		6 IN	7 IN	12 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP	SETFA +1WEEK
Stage Scale:		3 LF	3 LF	5 LF
Density, Unit:		4 IN	5 IN	8 IN
Weed 2 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Scale:		10 LF	10 LF	16 LF
Density, Unit:		4 IN	4 IN	7 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	4 LF	6 LF
Density, Unit:		4 IN	4 IN	6 IN
Weed 4 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	2 LF	4 LF
Density, Unit:		4 IN	4 IN	7 IN

## APPLICATION EQUIPMENT

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

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Weed Science Field Research

SOYBEAN POSTEMERGENCE VII

Trial ID: S0026-2

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	IPOSS	DATST	XANST	SETFA	CHEAL	IPOSS	DATST	XANST
Crop Code	GLYMA					GLYMA				
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
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg	GLYMA INJURY	GLYMA CONTROL	GLYMA CONTROL	GLYMA CONTROL	GLYMA CONTROL	GLYMA INJURY	GLYMA CONTROL	GLYMA CONTROL	GLYMA CONTROL	GLYMA CONTROL		
1	COBRA	2	EC	0.125	LB A/A	MP	5	93	35	87	92	90	0	93	35	87	90	90
1	COC	L		0.5	QT/A	MP												
1	AMS	100	SG	2	LB A/A	MP												
1	SELECT	2	EC	0.125	LB A/A	+1WK												
1	COC	L		1	QT/A	+1WK												
2	COBRA	2	EC	0.125	LB A/A	MP	5	92	43	87	93	93	0	92	50	87	90	90
2	FIRSTRATE	84	W	0.016	LB A/A	MP												
2	COC	L		0.5	QT/A	MP												
2	AMS	100	SG	2	LB A/A	MP												
2	SELECT	2	EC	0.125	LB A/A	+1WK												
2	COC	L		1	QT/A	+1WK												
3	FIRSTRATE	84	W	0.016	LB A/A	MP	0	92	5	85	92	92	0	92	2	85	90	90
3	COC	L		0.5	QT/A	MP												
3	AMS	100	SG	2	LB A/A	MP												
3	SELECT	2	EC	0.125	LB A/A	+1WK												
3	COC	L		1	QT/A	+1WK												
4	COBRA	2	EC	0.125	LB A/A	MP	5	93	28	90	93	93	0	93	28	90	93	93
4	PRO-X	100	L	0.5	QT/A	MP												
4	AMS	100	SG	2	LB A/A	MP												
4	SELECT	2	EC	0.125	LB A/A	+1WK												
4	COC	L		1	QT/A	+1WK												
5	COBRA	2	EC	0.125	LB A/A	MP	5	95	50	87	95	95	0	95	40	87	95	93
5	FIRSTRATE	84	W	0.016	LB A/A	MP												
5	PRO-X	100	L	0.5	QT/A	MP												
5	AMS	100	SG	2	LB A/A	MP												
5	SELECT	2	EC	0.125	LB A/A	+1WK												
5	COC	L		1	QT/A	+1WK												
6	SELECT	2	EC	0.094	LB A/A	LP	0	93	13	85	95	93	0	93	13	85	93	92
6	COC	L		1	QT/A	LP												
6	FIRSTRATE	84	W	0.016	LB A/A	+1WK												
6	COC	L		1	QT/A	+1WK												

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	IPOSS	DATST	XANST	SETFA	CHEAL	IPOSS	DATST	XANST
							GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK
7 SELECT	2 EC	0.094 LB A/A LP	0	95	10	85	95	95	95	0	93	8	85	95	95	
7 COC	L	1 QT/A LP														
7 AMS	100 SG	2.5 LB A/A LP														
7 FIRSTRATE	84 W	0.016 LB A/A +1WK														
7 COC	L	1 QT/A +1WK														
8 SELECT	2 EC	0.094 LB A/A LP	2	92	27	85	95	92	92	0	92	23	85	93	90	
8 FIRSTRATE	84 W	0.016 LB A/A LP														
8 COC	L	1 QT/A LP														
8 AMS	100 SG	2.5 LB A/A LP														
9 SELECT	2 EC	0.125 LB A/A LP	2	93	15	87	95	93	93	0	93	15	87	93	90	
9 COC	L	1 QT/A LP														
9 FIRSTRATE	84 W	0.016 LB A/A +1WK														
9 COC	L	1 QT/A +1WK														
10 SELECT	2 EC	0.125 LB A/A LP	5	92	8	87	93	93	93	0	92	7	87	93	92	
10 COC	L	1 QT/A LP														
10 AMS	100 SG	2.5 LB A/A LP														
10 FIRSTRATE	84 W	0.016 LB A/A +1WK														
10 COC	L	1 QT/A +1WK														
11 SELECT	2 EC	0.125 LB A/A LP	2	92	13	85	92	90	90	0	92	13	85	92	90	
11 FIRSTRATE	84 W	0.016 LB A/A LP														
11 COC	L	1 QT/A LP														
11 AMS	100 SG	2.5 LB A/A LP														
12 SELECT	2 EC	0.094 LB A/A MP	0	90	0	0	0	0	0	0	90	0	0	0	0	
12 COC	L	1 QT/A MP														
12 AMS	100 SG	2.5 LB A/A MP														
13 SELECT	2 EC	0.094 LB A/A MP	5	93	32	88	95	90	90	0	93	32	88	95	90	
13 COBRA	2 EC	0.125 LB A/A MP														
13 COC	L	1 QT/A MP														
13 AMS	100 SG	2.5 LB A/A MP														
14 SELECT	2 EC	0.094 LB A/A MP	5	92	50	90	95	95	95	0	92	43	90	92	92	
14 FIRSTRATE	84 W	0.016 LB A/A MP														
14 COBRA	2 EC	0.125 LB A/A MP														
14 COC	L	0.5 QT/A MP														
14 AMS	100 SG	2.5 LB A/A MP														

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	IPOSS	DATST	XANST	SETFA	CHEAL	IPOSS	DATST	XANST	
							GLYMA INJURY PERCENT 2 WEEK	GLYMA CONTROL PERCENT 2 WEEK	GLYMA CONTROL PERCENT 2 WEEK	GLYMA CONTROL PERCENT 2 WEEK	GLYMA CONTROL PERCENT 2 WEEK	GLYMA CONTROL PERCENT 2 WEEK	GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 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 Treatment No.	Form Name	Form Conc	Form Rate	Rate Unit	Grow Stg												
15	SELECT	2 EC	0.125 LB	A/A MP		5	90	50	90	95	95	0	90	45	90	92	92
15	FIRSTRATE	84 W	0.016 LB	A/A MP													
15	COBRA	2 EC	0.125 LB	A/A MP													
15	COC	L	0.5 QT/A	MP													
15	AMS	100 SG	2.5 LB	A/A MP													
16	SELECT	2 EC	0.094 LB	A/A MP		0	87	58	82	90	90	0	87	53	82	90	90
16	PURSUIT	70 DF	0.063 LB	A/A MP													
16	COC	L	0.5 QT/A	MP													
16	AMS	100 SG	2.5 LB	A/A MP													
17	SELECT	2 EC	0.125 LB	A/A MP		2	90	53	82	90	88	0	90	43	82	90	88
17	PURSUIT	70 DF	0.063 LB	A/A MP													
17	COC	L	0.5 QT/A	MP													
17	AMS	100 SG	2.5 LB	A/A MP													
18	CLASSIC	25 DF	0.008 LB	A/A MP		3	93	42	90	95	92	0	93	38	90	93	90
18	IMPRESSIVE DB	100 SG	2.25 LB	A/A MP													
18	SELECT	2 EC	0.125 LB	A/A +1WK													
18	COC	L	1 QT/A	+1WK													
19	CLASSIC	25 DF	0.008 LB	A/A MP		5	95	43	88	93	92	0	93	42	88	93	92
19	S-3153	57.6 WG	0.009 LB	A/A MP													
19	IMPRESSIVE DB	100 SG	2.25 LB	A/A MP													
19	SELECT	2 EC	0.125 LB	A/A +1WK													
19	COC	L	1 QT/A	+1WK													
20	FIRSTRATE	84 W	0.016 LB	A/A MP		0	93	30	88	95	93	0	93	30	88	92	92
20	COC	L	0.5 QT/A	MP													
20	SELECT	2 EC	0.125 LB	A/A +1WK													
20	COC	L	1 QT/A	+1WK													
21	FIRSTRATE	84 W	0.016 LB	A/A MP		3	92	50	88	93	93	0	92	48	88	88	88
21	S-3153	57.6 WG	0.009 LB	A/A MP													
21	COC	L	0.5 QT/A	MP													
21	SELECT	2 EC	0.125 LB	A/A +1WK													
21	COC	L	1 QT/A	+1WK													
22	COBRA	2 EC	0.125 LB	A/A MP		5	95	43	85	93	93	0	95	43	85	93	93
22	COC	L	0.5 QT/A	MP													
22	SELECT	2 EC	0.125 LB	A/A +1WK													
22	COC	L	1 QT/A	+1WK													

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	IPOSS	DATST	XANST	SETFA	CHEAL	IPOSS	DATST	XANST		
							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
							INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
							PERCENT	PERCENT	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	4 WEEK
							P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0
Trt Treatment No.	Name	Form	Form	Rate	Unit	Grow												
		Conc	Type	Rate	Unit	Stg												
23	COBRA	2 EC	0.125 LB	A/A	MP		7	95	43	90	95	95	0	95	43	90	95	92
23	S-3153	57.6 WG	0.009 LB	A/A	MP													
23	COC	L	0.5 QT/A		MP													
23	SELECT	2 EC	0.125 LB	A/A	+1WK													
23	COC	L	1 QT/A		+1WK													
24	WEEDY CHECK						0	0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)							2.6	4.9	24.2	4.6	3.4	3.9	0.0	5.1	21.5	4.6	3.9	3.7
Standard Deviation							1.6	2.9	14.7	2.8	2.1	2.4	0.0	3.1	13.0	2.8	2.4	2.3
CV							54.11	3.32	47.36	3.5	2.39	2.81	0.0	3.47	44.95	3.5	2.8	2.72

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Weed Science Field Research

## SOYBEAN POSTEMERGENCE VII

Trial ID: S0026-2  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	CHEAL	IPOSS	DATST	XANST
Crop Code	GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
1 COBRA	2 EC		0.125 LB	A/A MP		0	90	35	85	90
1 COC	L		0.5 QT/A	MP						
1 AMS	100 SG		2 LB	A/A MP						
1 SELECT	2 EC		0.125 LB	A/A +1WK						
1 COC	L		1 QT/A	+1WK						
2 COBRA	2 EC		0.125 LB	A/A MP		0	90	50	83	90
2 FIRSTRATE	84 W		0.016 LB	A/A MP						
2 COC	L		0.5 QT/A	MP						
2 AMS	100 SG		2 LB	A/A MP						
2 SELECT	2 EC		0.125 LB	A/A +1WK						
2 COC	L		1 QT/A	+1WK						
3 FIRSTRATE	84 W		0.016 LB	A/A MP		0	90	2	85	90
3 COC	L		0.5 QT/A	MP						
3 AMS	100 SG		2 LB	A/A MP						
3 SELECT	2 EC		0.125 LB	A/A +1WK						
3 COC	L		1 QT/A	+1WK						
4 COBRA	2 EC		0.125 LB	A/A MP		0	92	28	85	93
4 PRO-X	100 L		0.5 QT/A	MP						
4 AMS	100 SG		2 LB	A/A MP						
4 SELECT	2 EC		0.125 LB	A/A +1WK						
4 COC	L		1 QT/A	+1WK						
5 COBRA	2 EC		0.125 LB	A/A MP		0	90	40	83	95
5 FIRSTRATE	84 W		0.016 LB	A/A MP						
5 PRO-X	100 L		0.5 QT/A	MP						
5 AMS	100 SG		2 LB	A/A MP						
5 SELECT	2 EC		0.125 LB	A/A +1WK						
5 COC	L		1 QT/A	+1WK						
6 SELECT	2 EC		0.094 LB	A/A LP		0	90	13	85	93
6 COC	L		1 QT/A	LP						
6 FIRSTRATE	84 W		0.016 LB	A/A +1WK						
6 COC	L		1 QT/A	+1WK						



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Weed Code	SETFA	CHEAL	IPOSS	DATST	XANST
Crop Code	GLYMA				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form	Form Conc	Rate	Unit	Grow Stg	SETFA	CHEAL	IPOSS	DATST	XANST	
7	SELECT	2	EC	0.094	LB A/A	LP	0	90	20	83	95	95
7	COC	L		1	QT/A	LP						
7	AMS	100	SG	2.5	LB A/A	LP						
7	FIRSTRATE	84	W	0.016	LB A/A	+1WK						
7	COC	L		1	QT/A	+1WK						
8	SELECT	2	EC	0.094	LB A/A	LP	0	90	23	85	93	90
8	FIRSTRATE	84	W	0.016	LB A/A	LP						
8	COC	L		1	QT/A	LP						
8	AMS	100	SG	2.5	LB A/A	LP						
9	SELECT	2	EC	0.125	LB A/A	LP	0	90	15	85	93	90
9	COC	L		1	QT/A	LP						
9	FIRSTRATE	84	W	0.016	LB A/A	+1WK						
9	COC	L		1	QT/A	+1WK						
10	SELECT	2	EC	0.125	LB A/A	LP	0	88	7	87	93	92
10	COC	L		1	QT/A	LP						
10	AMS	100	SG	2.5	LB A/A	LP						
10	FIRSTRATE	84	W	0.016	LB A/A	+1WK						
10	COC	L		1	QT/A	+1WK						
11	SELECT	2	EC	0.125	LB A/A	LP	0	88	13	85	92	90
11	FIRSTRATE	84	W	0.016	LB A/A	LP						
11	COC	L		1	QT/A	LP						
11	AMS	100	SG	2.5	LB A/A	LP						
12	SELECT	2	EC	0.094	LB A/A	MP	0	90	0	0	0	0
12	COC	L		1	QT/A	MP						
12	AMS	100	SG	2.5	LB A/A	MP						
13	SELECT	2	EC	0.094	LB A/A	MP	0	92	32	85	95	90
13	COBRA	2	EC	0.125	LB A/A	MP						
13	COC	L		1	QT/A	MP						
13	AMS	100	SG	2.5	LB A/A	MP						
14	SELECT	2	EC	0.094	LB A/A	MP	0	92	43	85	92	92
14	FIRSTRATE	84	W	0.016	LB A/A	MP						
14	COBRA	2	EC	0.125	LB A/A	MP						
14	COC	L		0.5	QT/A	MP						
14	AMS	100	SG	2.5	LB A/A	MP						

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Weed Code	SETFA	CHEAL	IPOSS	DATST	XANST
Crop Code	GLYMA				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
15	SELECT	2	EC	0.125	LB A/A	MP	0	90	45	87	92	92
15	FIRSTRATE	84	W	0.016	LB A/A	MP						
15	COBRA	2	EC	0.125	LB A/A	MP						
15	COC	L		0.5	QT/A	MP						
15	AMS	100	SG	2.5	LB A/A	MP						
16	SELECT	2	EC	0.094	LB A/A	MP	0	87	51	82	90	90
16	PURSUIT	70	DF	0.063	LB A/A	MP						
16	COC	L		0.5	QT/A	MP						
16	AMS	100	SG	2.5	LB A/A	MP						
17	SELECT	2	EC	0.125	LB A/A	MP	0	90	43	82	90	88
17	PURSUIT	70	DF	0.063	LB A/A	MP						
17	COC	L		0.5	QT/A	MP						
17	AMS	100	SG	2.5	LB A/A	MP						
18	CLASSIC	25	DF	0.008	LB A/A	MP	0	90	38	87	93	90
18	IMPRESSIVE DB	100	SG	2.25	LB A/A	MP						
18	SELECT	2	EC	0.125	LB A/A	+1WK						
18	COC	L		1	QT/A	+1WK						
19	CLASSIC	25	DF	0.008	LB A/A	MP	0	92	42	85	93	92
19	S-3153	57.6	WG	0.009	LB A/A	MP						
19	IMPRESSIVE DB	100	SG	2.25	LB A/A	MP						
19	SELECT	2	EC	0.125	LB A/A	+1WK						
19	COC	L		1	QT/A	+1WK						
20	FIRSTRATE	84	W	0.016	LB A/A	MP	0	92	30	85	92	92
20	COC	L		0.5	QT/A	MP						
20	SELECT	2	EC	0.125	LB A/A	+1WK						
20	COC	L		1	QT/A	+1WK						
21	FIRSTRATE	84	W	0.016	LB A/A	MP	0	92	48	87	88	88
21	S-3153	57.6	WG	0.009	LB A/A	MP						
21	COC	L		0.5	QT/A	MP						
21	SELECT	2	EC	0.125	LB A/A	+1WK						
21	COC	L		1	QT/A	+1WK						
22	COBRA	2	EC	0.125	LB A/A	MP	0	92	43	83	93	93
22	COC	L		0.5	QT/A	MP						
22	SELECT	2	EC	0.125	LB A/A	+1WK						
22	COC	L		1	QT/A	+1WK						

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Weed Code	SETFA	CHEAL	IPOSS	DATST	XANST
Crop Code	GLYMA				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
23 COBRA	2 EC		0.125 LB	A/A MP		0	93	43	88	95	92
23 S-3153	57.6 WG		0.009 LB	A/A MP							
23 COC	L		0.5 QT/A	MP							
23 SELECT	2 EC		0.125 LB	A/A +1WK							
23 COC	L		1 QT/A	+1WK							
24 WEEDY CHECK						0	0	0	0	0	0
LSD (P=.05)						0.0	3.6	23.0	3.7	3.9	3.7
Standard Deviation						0.0	2.2	13.9	2.2	2.4	2.3
CV						0.0	2.54	47.19	2.87	2.8	2.72

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

SOYBEAN POSTEMERGENCE VII

Trial ID: S0026-2                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.              Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 05-11-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	DATST JIMSONWEED	DATURA STRAMONIUM L.
5.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

**Crop 1:** GLXMA SOYBEAN                      **Variety:** AG4602  
**Planting Date:** 05-11-00                      **Planting Method:** DRILLED  
**Rate:** 200000 S/A                      **Depth:** 1.25 IN  
**Row Spacing:** 7.5 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 72 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-18-00

**SITE AND DESIGN**

**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**

**% Sand:** 3.0                      **% OM:** 2.8                      **Texture:** SILT LOAM  
**% Silt:** 63                      **pH:** 6.5                      **Soil Name:** MAURY  
**% Clay:** 32                      **CEC:** 17                      **Fert. Level:** EXCELLENT

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

**APPLICATION DESCRIPTION**

A                      B                      C

Application Date:	06-05-00	06-08-00	06-20-00
Time of Day:	10:00	10:00	11:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	MP	+1 WEEK	LP
Applic. Placement:	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	73 F	74 F	78
% Relative Humidity:	74	76	76
Wind Velocity, Unit:	3 MPH	5 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	67 F	71 F	72
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	GLXMA MP	GLXMA +1 WEEK	GLXMA LP
Stage Scale:	2 TRIFOIL	3 TRIFOIL	4 TRIFOIL
Height, Unit:	6 IN	7 IN	12 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C
Weed 1 Code, Stage:	SETFA MP	SETFA +1 WEEK	SETFA LP
Stage Scale:	3 LF	3 LF	5 LF
Density, Unit:	4 IN	5 IN	8 IN
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:	10 LF	10 LF	16 LF
Density, Unit:	4 IN	4 IN	7 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS
Stage Scale:	4 LF	4 LF	6 LF
Density, Unit:	4 IN	4 IN	6 IN
Weed 4 Code, Stage:	DATST	DATST	DATST
Stage Scale:	2 LF	2 LF	4 LF
Density, Unit:	4 IN	4 IN	7 IN
Weed 5 Code, Stage:	XANST	XANST	XANST
Stage Scale:	2 LF	2 LF	4 LF
Density, Unit:	3 IN	4 IN	7 IN

**APPLICATION EQUIPMENT**

	A	B	C
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:	20 IN	20 IN	20 IN

<b>Ground Speed, Unit:</b>	3.5 MPH	3.5 MPH	3.5 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24 GPA	24 GPA	24 GPA
<b>Propellant:</b>	CO2	CO2	CO2

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SOYBEAN POSTEMERGENCE VIII

Trial ID: S0015-2  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA		IPOSS		XANST		CHEAL		ABUTH		GLYMA		GLYMA		SETFA		IPOSS		XANST		CHEAL		ABUTH				
							INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
							PRE	POST	PRE	POST	PRE	POST	PRE	POST	PRE	POST	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK		
							P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 ROUNDUP ULTRA	4 AS	1 LB A/A LP	0	0	0	0	0	0	0	0	0	0	0	0	0	94	79	94	71	95													
1 AMS	100 SG	2 % W/W LP																															
2 ROUNDUP ULTRAMX	3.7 SL	1 LB A/A LP	0	0	0	0	0	0	0	0	0	0	0	0	0	95	78	95	83	95													
2 AMS	100 SG	2 % W/W LP																															
3 ROUNDUP ULTRA	4 AS	1 LB A/A LP	0	0	0	0	0	0	0	0	0	0	0	0	0	95	79	95	76	95													
3 AMS	100 SG	2 % W/W LP																															
3 ROUNDUP ULTRA	4 AS	1 LB A/A JBC																															
3 AMS	100 SG	2 % W/W JBC																															
4 MICRO-TECH	4 ME	2 LB A/A PRE	0	94	13	0	46	13	0	94	83	95	95	95																			
4 ROUNDUP ULTRA	4 AS	1 LB A/A LP																															
4 AMS	100 SG	2 % W/W LP																															
5 PENDIMAX	3.3 EC	0.928 LB A/A PRE	0	95	13	13	91	68	0	95	79	95	93	95																			
5 ROUNDUP ULTRA	4 AS	1 LB A/A MP																															
5 AMS	100 SG	2 % W/W MP																															
6 FIRSTRATE	84 W	0.016 LB A/A PRE	0	13	58	93	93	96	0	95	86	96	96	96																			
6 ROUNDUP ULTRA	4 AS	1 LB A/A MP																															
6 AMS	100 SG	2 % W/W MP																															
7 FIRSTRATE	84 W	0.031 LB A/A PRE	0	28	83	92	84	97	0	80	90	96	91	95																			
7 ROUNDUP ULTRA	4 AS	1 LB A/A MP																															
7 AMS	100 SG	2 % W/W MP																															
8 FIRSTRATE	84 W	0.016 LB A/A MP	0	0	0	0	0	0	0	94	80	95	80	95																			
8 ROUNDUP	4 AS	0.75 LB A/A MP																															
8 AMS	100 SG	2 % W/W MP																															
8 SPREADER HF		0.5 % V/V MP																															
9 ROUNDUP ULTRAMAX	5 SL	1 LB A/A MP	0	0	0	0	0	0	0	95	84	95	74	95																			
9 FIRSTRATE	84 W	0.016 LB A/A MP																															
9 AMS	100 SG	2 % W/W MP																															
10 EXTREME	2.17 EC	0.814 LB A/A EP	0	0	0	0	0	0	0	96	80	95	83	95																			
10 SPREADER HF		0.125 % V/V EP																															
10 AMS	100 SG	1.5 % W/W EP																															

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	GLYMA		SETFA	IPOSS	XANST	CHEAL	ABUTH	GLYMA		SETFA	IPOSS	XANST	CHEAL	ABUTH	
							INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT			
							PRE	POST	PRE	POST	PRE	POST	PRE	POST	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	
							P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trt Treatment No.	Name	Form Conc	Form Type	Rate	Unit	Grow Stg															
11	PROWL	3.3	EC	0.928	LB A/A	PRE	0	96	13	13	93	81	0	96	85	95	91	96			
11	EXTREME	2.17	EC	0.814	LB A/A	EP															
11	SPREADER HF			0.125	% V/V	EP															
11	AMS	100	SG	1.5	% W/W	EP															
12	BOUNDRY	7.8	EC	1.22	LB A/A	PRE	0	95	0	0	95	55	0	95	81	95	94	95			
12	ROUNDUP	4	AS	0.75	LB A/A	MP															
12	SPREADER HF			0.5	% V/V	MP															
12	AMS	100	SG	2	% W/W	MP															
13	DOMAIN	60	DF	0.375	LB A/A	PRE	0	95	0	0	80	25	0	95	78	95	91	95			
13	ROUNDUP	4	AS	0.75	LB A/A	MP															
13	SPREADER HF			0.5	% V/V	MP															
13	AMS	100	SG	2	% W/W	MP															
14	CANOPY	75	DF	0.14	LB A/A	PRE	0	44	64	90	83	91	0	95	86	95	94	96			
14	ROUNDUP	4	AS	0.75	LB A/A	MP															
14	SPREADER HF			0.5	% V/V	MP															
14	AMS	100	SG	2	% W/W	MP															
15	CANOPY XL					PRE	0	55	75	90	84	97	0	96	90	96	94	98			
15	AUTHORITY	75	DF	0.099	LB A/A	PRE															
15	CLASSIC	25	DF	0.02	LB A/A	PRE															
15	ROUNDUP	4	AS	0.75	LB A/A	MP															
15	SPREADER HF			0.5	% V/V	MP															
15	AMS	100	SG	2	% W/W	MP															
16	WEED CHECK						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)							0.0	27.8	17.9	13.4	22.8	17.3	0.0	4.6	6.7	1.7	7.5	1.9			
Standard Deviation							0.0	19.4	12.5	9.4	16.0	12.1	0.0	3.2	4.7	1.2	5.3	1.3			
CV							0.0	50.8	63.39	38.56	34.22	31.19	0.0	3.67	6.04	1.34	6.45	1.46			



SOYBEAN POSTEMERGENCE VIII

Trial ID: S0015-2 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	XANST	CHEAL	ABUTH	SETFA	IPOSS	XANST	CHEAL	ABUTH		
							GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA INJURY PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS	GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA INJURY PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS				
							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	Form Rate	Rate Unit	Grow Stg												
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	91	79	94	73	95	0	91	79	94	73	95
1	AMS	100	SG	2	% W/W	LP												
2	ROUNDUP ULTRAMX	3.7	SL	1	LB A/A	LP	0	93	78	95	83	95	0	90	78	94	83	95
2	AMS	100	SG	2	% W/W	LP												
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	93	79	95	76	95	0	90	79	94	76	95
3	AMS	100	SG	2	% W/W	LP												
3	ROUNDUP ULTRA	4	AS	1	LB A/A	JBC												
3	AMS	100	SG	2	% W/W	JBC												
4	MICRO-TECH	4	ME	2	LB A/A	PRE	0	90	81	95	90	95	0	90	81	94	90	95
4	ROUNDUP ULTRA	4	AS	1	LB A/A	LP												
4	AMS	100	SG	2	% W/W	LP												
5	PENDIMAX	3.3	EC	0.928	LB A/A	PRE	0	90	79	95	90	95	0	90	78	95	90	95
5	ROUNDUP ULTRA	4	AS	1	LB A/A	MP												
5	AMS	100	SG	2	% W/W	MP												
6	FIRSTRATE	84	W	0.016	LB A/A	PRE	0	91	86	95	91	95	0	90	86	95	91	95
6	ROUNDUP ULTRA	4	AS	1	LB A/A	MP												
6	AMS	100	SG	2	% W/W	MP												
7	FIRSTRATE	84	W	0.031	LB A/A	PRE	0	76	86	95	90	95	0	76	86	95	90	95
7	ROUNDUP ULTRA	4	AS	1	LB A/A	MP												
7	AMS	100	SG	2	% W/W	MP												
8	FIRSTRATE	84	W	0.016	LB A/A	MP	0	90	79	95	79	95	0	90	79	95	79	95
8	ROUNDUP	4	AS	0.75	LB A/A	MP												
8	AMS	100	SG	2	% W/W	MP												
8	SPREADER HF			0.5	% V/V	MP												
9	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	MP	0	90	84	95	75	95	0	90	84	95	75	94
9	FIRSTRATE	84	W	0.016	LB A/A	MP												
9	AMS	100	SG	2	% W/W	MP												
10	EXTREME	2.17	EC	0.814	LB A/A	EP	0	93	80	95	81	95	0	90	80	95	81	95
10	SPREADER HF			0.125	% V/V	EP												
10	AMS	100	SG	1.5	% W/W	EP												

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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	XANST	CHEAL	ABUTH	SETFA	IPOSS	XANST	CHEAL	ABUTH		
							GLYMA INJURY PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA CONTROL PERCENT 4 WEEK	GLYMA INJURY PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS	GLYMA CONTROL PERCENT 8 WEEKS
11 PROWL		3.3 EC	0.928 LB A/A PRE				0	91	85	95	90	95	0	90	85	95	90	94
11 EXTREME		2.17 EC	0.814 LB A/A EP															
11 SPREADER HF			0.125 % V/V EP															
11 AMS		100 SG	1.5 % W/W EP															
12 BOUNDRY		7.8 EC	1.22 LB A/A PRE				0	91	80	95	90	95	0	91	80	95	90	95
12 ROUNDUP		4 AS	0.75 LB A/A MP															
12 SPREADER HF			0.5 % V/V MP															
12 AMS		100 SG	2 % W/W MP															
13 DOMAIN		60 DF	0.375 LB A/A PRE				0	91	78	95	89	95	0	91	78	95	89	95
13 ROUNDUP		4 AS	0.75 LB A/A MP															
13 SPREADER HF			0.5 % V/V MP															
13 AMS		100 SG	2 % W/W MP															
14 CANOPY		75 DF	0.14 LB A/A PRE				0	93	86	95	91	95	0	90	86	95	91	95
14 ROUNDUP		4 AS	0.75 LB A/A MP															
14 SPREADER HF			0.5 % V/V MP															
14 AMS		100 SG	2 % W/W MP															
15 CANOPY XL							0	91	90	95	91	95	0	90	89	95	91	95
15 AUTHORITY		75 DF	0.099 LB A/A PRE															
15 CLASSIC		25 DF	0.02 LB A/A PRE															
15 ROUNDUP		4 AS	0.75 LB A/A MP															
15 SPREADER HF			0.5 % V/V MP															
15 AMS		100 SG	2 % W/W MP															
16 WEED CHECK							0	0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)							0.0	6.6	7.0	0.9	7.0	0.0	0.0	6.0	6.7	1.8	7.0	1.2
Standard Deviation							0.0	4.6	4.9	0.6	4.9	0.0	0.0	4.2	4.7	1.3	4.9	0.9
CV							0.0	5.43	6.34	0.7	6.11	0.0	0.0	5.02	6.08	1.42	6.11	0.96

SOYBEAN POSTEMERGENCE VIII

Trial ID: S0015-2                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.              Investigator: Charles Slack

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                      Initiation Date: 05-11-00  
Country: USA

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
5.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-11-00                      Planting Method: DRILLED  
Rate: 200000 S/A                      Depth: 1.25 IN  
Row Spacing: 7.5 IN                      Seed Bed: MEDIUM  
Soil Temperature: 73 F                      Soil Moisture: NORMAL                      Emergence Date: 05-18-00

SITE AND DESIGN

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

% Sand: 3.2                      % OM: 2.7                      Texture: SILT LOAM  
% Silt: 65                      pH: 6.6                      Soil Name: MAURY  
% Clay: 30                      CEC: 18                      Fert. Level: EXCELLENT

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

APPLICATION DESCRIPTION

A                      B                      C                      D                      E

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Application Date:	05-11-00	06-05-00	06-05-00	06-07-00	07-07-00
Time of Day:	11:00	10:45	1:00	11:00	11:30
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP	JBC
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	65 F	73 F	75 F	74	82
% Relative Humidity:	65	72	80	82	80
Wind Velocity, Unit:	5 MPH	4 MPH	3 MPH	5 MPH	6 MPH
Dew Presence (Y/N):	N	N	N	N	N
Soil Temp., Unit:	62 F	69 F	70 F	71 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA PRE	GLXMA EP	GLXMA MP	GLXMA LP	GLXMA JBC
Stage Scale:		2 TRIFOL	3 TRIFOL	4 TRIFOL	5 TRIFOL
Height, Unit:		4 IN	6 IN	9 IN	12 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E
Weed 1 Code, Stage:	SETFA PRE	SETFA EP	SETFA MP	SETFA LP	SETFA JBC
Stage Scale:		2 LF	3 LF	4 LF	6 LF
Density, Unit:		3 IN	4 IN	7 IN	10 IN
Weed 2 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		4 LF	6 LF	6 LF	10 LF
Density, Unit:		3 IN	6 IN	7 IN	9 IN
Weed 3 Code, Stage:	XANST	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	4 LF	6 LF	10 LF
Density, Unit:		3 IN	6 IN	8 IN	12 IN
Weed 4 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		4 LF	6 LF	10 LF	14 LF
Density, Unit:		3 IN	5 IN	7 IN	11 IN
Weed 5 Code, Stage:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage Scale:		2 LF	4 LF	6 LF	8 LF
Density, Unit:		2 IN	4 IN	6 IN	10 IN

**APPLICATION EQUIPMENT**

	A	B	C	D	E
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 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:	20 IN	20 IN	20 IN	20 IN	20 IN

<b>Ground Speed, Unit:</b>	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH
<b>Carrier:</b>	WATER	WATER	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
<b>Propellant:</b>	CO2	CO2	CO2	CO2	CO2

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Weed Science Field Research

SOYBEAN POSTEMERGENCE IX

Trial ID: S0033  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	CONAR	SOLCA	IPOSS	SETFA	CONAR	SOLCA	IPOSS
Crop Code	GLYMA				GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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 INJURY PERCENT	SETFA CONTROL PERCENT	CONAR CONTROL PERCENT	SOLCA CONTROL PERCENT	IPOSS CONTROL PERCENT	GLYMA INJURY PERCENT	SETFA CONTROL PERCENT	CONAR CONTROL PERCENT	SOLCA CONTROL PERCENT	IPOSS CONTROL PERCENT
1	CLASSIC	25	DF	0.012	LB A/A 10"	5	10	75	85	85	0	7	75	78	80	
1	SPREADER HF			0.25	% V/V 10"											
2	BLAZER	2	L	0.375	LB A/A 10"	5	10	72	82	82	0	10	72	75	77	
2	SPREADER HF			0.25	% V/V 10"											
3	S-3153	57.6	WG	0.018	LB A/A 10"	5	10	68	72	75	0	10	68	67	68	
3	COC		L	1	QT/A 10"											
4	S-3153	57.6	WG	0.027	LB A/A 10"	5	10	78	82	82	0	10	78	75	77	
4	COC		L	1	QT/A 10"											
5	S-3153	57.6	WG	0.027	LB A/A 10"	7	10	78	87	87	0	10	78	83	80	
5	IMPRESSIVE	100	SG	2.5	LB/A 10"											
6	S-3153	57.6	WG	0.018	LB A/A 10"	5	10	78	85	87	0	10	78	80	82	
6	CLASSIC	25	DF	0.012	LB A/A 10"											
6	SPREADER HF			0.25	% V/V 10"											
7	ROUNDUP	4	AS	1	LB A/A 10"	5	10	87	90	90	0	10	87	87	83	
7	SPREADER HF			0.25	% V/V 10"											
8	S-3153	57.6	WG	0.018	LB A/A 10"	5	10	87	93	93	0	10	87	90	82	
8	ROUNDUP	4	AS	1	LB A/A 10"											
8	SPREADER HF			0.25	% V/V 10"											
9	CHECK					7	10	55	58	70	0	10	55	52	65	
LSD (P=.05)						2.2	0.0	18.2	19.4	12.8	0.0	3.3	18.2	21.6	13.9	
Standard Deviation						1.3	0.0	10.5	11.2	7.4	0.0	1.9	10.5	12.5	8.0	
CV						23.7	0.0	13.91	13.75	8.89	0.0	19.99	13.91	16.34	10.39	

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

SOYBEAN POSTEMERGENCE IX

Trial ID: S0033  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	CONAR	SOLCA	IPOSS
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	CONAR	SOLCA	IPOSS	
1	CLASSIC	25	DF	0.012	LB A/A	10"	0	10	68	75	72
1	SPREADER HF			0.25	% V/V	10"					
2	BLAZER	2	L	0.375	LB A/A	10"	0	10	67	75	70
2	SPREADER HF			0.25	% V/V	10"					
3	S-3153	57.6	WG	0.018	LB A/A	10"	2	10	60	67	68
3	COC		L		1 QT/A	10"					
4	S-3153	57.6	WG	0.027	LB A/A	10"	0	10	65	73	73
4	COC		L		1 QT/A	10"					
5	S-3153	57.6	WG	0.027	LB A/A	10"	0	10	70	80	78
5	IMPRESSIVE	100	SG	2.5	LB/A	10"					
6	S-3153	57.6	WG	0.018	LB A/A	10"	0	10	70	77	75
6	CLASSIC	25	DF	0.012	LB A/A	10"					
6	SPREADER HF			0.25	% V/V	10"					
7	ROUNDUP	4	AS	1	LB A/A	10"	0	10	73	82	75
7	SPREADER HF			0.25	% V/V	10"					
8	S-3153	57.6	WG	0.018	LB A/A	10"	0	10	73	78	75
8	ROUNDUP	4	AS	1	LB A/A	10"					
8	SPREADER HF			0.25	% V/V	10"					
9	CHECK						0	10	52	57	65
LSD (P=.05)				1.7				0.0	15.4	17.9	10.3
Standard Deviation				1.0				0.0	8.9	10.3	6.0
CV				519.62				0.0	13.4	14.0	8.25

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

## SOYBEAN POSTEMERGENCE IX

Trial ID: S0033                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 05-02-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CONAR BINDWEED, FIELD	CONVOLVULUS ARVENSIS L.
3.	SOLCA HORSENETTLE	SOLANUM CAROLINENSE L.
4.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.

Crop 1: GLYMA SOYBEAN                      Variety: AG4602  
Planting Date: 05-02-00                      Planting Method: DRILLED  
Rate: 12 P/ROW-FT                      Depth: 1.25 IN  
Row Spacing: 7.5 IN                      Seed Bed: NO-TILL  
Soil Temperature: 65 F                      Soil Moisture: ADEQUATE                      Emergence Date: 05-11-00

## SITE AND DESIGN

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

% Sand: 6	% OM: 3	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 13	Fert. Level: GOOD

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 1.2                      Unit: MI

## APPLICATION DESCRIPTION



Application Date: 05-25-00  
 Time of Day: 10:00 AM  
 Application Method: SPRAY  
 Application Timing: 10"  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 65 F  
 % Relative Humidity: 70  
 Wind Velocity, Unit: 2 MPH  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 69 F  
 Soil Moisture: ADEQUATE  
 % Cloud Cover: 20

## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLYMA 10"  
 Stage Scale: 4 LF  
 Height, Unit: 6 IN

## WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: SETFA 10"  
 Stage Scale: 4 LF  
 Density, Unit: 6 IN  
 Weed 2 Code, Stage: CONAR  
 Stage Scale: 12 LF  
 Density, Unit: 11 IN  
 Weed 3 Code, Stage: SOLCA  
 Stage Scale: 5 LF  
 Density, Unit: 6 IN  
 Weed 4 Code, Stage: IPOSS  
 Stage Scale: 5 LF  
 Density, Unit: 8 IN

## APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK  
 Operating Pressure: 30  
 Nozzle Type: FLAT FAN  
 Nozzle Size: 8004DG  
 Nozzle Spacing, Unit: 20 IN  
 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: S0034

Study Dir.: CHARLES H. SLACK

Location: LEXINGLTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	XANST	IPOSS	CHEAL	GLYMA	SETFA	XANST	IPOSS	CHEAL	
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA		GLYMA	
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes	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	SETFA	XANST	IPOSS	CHEAL	GLYMA	SETFA	XANST	IPOSS	CHEAL	
1	LIBERTY	1.67 E		0.36 LB	A/A LP		0	87	90	82	77	0	87	85	78	77
1	AMS	100 SG		3 LB	A/A LP											
2	LIBERTY	1.67 E		0.44 LB	A/A LP		0	95	90	85	73	0	88	82	82	77
2	AMS	100 SG		3 LB	A/A LP											
3	LIBERTY	1.67 E		0.26 LB	A/A MP		0	98	92	92	92	0	93	90	85	92
3	AMS	100 SG		3 LB	A/A MP											
3	LIBERTY	1.67 E		0.26 LB	A/A +MP											
3	AMS	100 SG		3 LB	A/A +MP											
4	PURSUIT	70 DF		0.31 LB	A/A LP		5	90	82	83	85	0	85	80	82	83
4	LIBERTY	1.67 E		0.31 LB	A/A LP											
4	AMS	100 SG		3 LB	A/A LP											
5	CANOOPY	75 DF		0.14 LB	A/A PRE		0	93	92	83	83	0	88	87	82	85
5	LIBERTY	1.67 E		0.31 LB	A/A +MP											
5	AMS	100 SG		3 LB	A/A +MP											
6	CANOOPY XL						0	92	87	85	88	0	87	83	83	83
6	AUTHORITY	75 DF		0.1 LB	A/A PRE											
6	CLASSIC	25 DF		0.02 LB	A/A PRE											
6	LIBERTY	1.67 E		0.31 LB	A/A +MP											
6	AMS	100 SG		3 LB	A/A +MP											
7	DOMAIN	60 DF		0.375 LB	A/A PRE		0	90	83	85	83	0	85	80	82	83
7	LIBERTY	1.67 E		0.31 LB	A/A +MP											
7	AMS	100 SG		3 LB	A/A +MP											
8	PROWL	3.3 EC		0.99 LB	A/A PRE		0	95	87	83	90	0	90	80	82	92
8	LIBERTY	1.67 E		0.31 LB	A/A +MP											
8	AMS	100 SG		3 LB	A/A +MP											
9	AXIOM	68 DF		0.425 LB	A/A PRE		0	92	87	87	78	0	85	80	82	80
9	LIBERTY	1.67 E		0.31 LB	A/A +MP											
9	AMS	100 SG		3 LB	A/A +MP											

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Weed Code	SETFA	XANST	IPOSS	CHEAL	SETFA	XANST	IPOSS	CHEAL		
Crop Code	GLYMA					GLYMA				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK		
ARM Action Codes	P	P	P	P	P	P	P	P		
# Subsamples, Dec.	0	0	0	0	0	0	0	0		

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	XANST	IPOSS	CHEAL	SETFA	XANST	IPOSS	CHEAL		
10 PROWL	3.3	EC	1.05	LB A/A	PRE	5	95	93	92	90	0	85	88	90	90
10 RAPTOR	1	E	0.039	LB A/A	MP										
10 FLEXSTAR HL	1.88	CS	0.132	LB A/A	MP										
10 INDUCE			0.25	% V/V	MP										
10 LIQUID N		L	1	QT/A	MP										
LSD (P=.05)			0.0			6.5	5.7	6.6	14.4	0.0	6.8	6.7	4.6	12.9	
Standard Deviation			0.0			3.8	3.3	3.8	8.4	0.0	4.0	3.9	2.7	7.5	
CV			0.0			4.11	3.8	4.48	9.97	0.0	4.53	4.65	3.21	8.94	

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

## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S0034

Study Dir.: CHARLES H. SLACK

Location: LEXINGLTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	XANST	IPOSS	CHEAL
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT			
Trt-Eval Interval	8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS			
ARM Action Codes	P P P P P			
# Subsamples, Dec.	0 0 0 0 0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg				
1	LIBERTY	1.67	E	0.36	LB A/A LP	0	85	85	78	75
1	AMS	100	SG	3	LB A/A LP					
2	LIBERTY	1.67	E	0.44	LB A/A LP	0	87	82	82	77
2	AMS	100	SG	3	LB A/A LP					
3	LIBERTY	1.67	E	0.26	LB A/A MP	0	90	90	85	92
3	AMS	100	SG	3	LB A/A MP					
3	LIBERTY	1.67	E	0.26	LB A/A +MP					
3	AMS	100	SG	3	LB A/A +MP					
4	PURSUIT	70	DF	0.31	LB A/A LP	0	85	80	80	82
4	LIBERTY	1.67	E	0.31	LB A/A LP					
4	AMS	100	SG	3	LB A/A LP					
5	CANOOPY	75	DF	0.14	LB A/A PRE	0	87	85	80	85
5	LIBERTY	1.67	E	0.31	LB A/A +MP					
5	AMS	100	SG	3	LB A/A +MP					
6	CANOOPY XL					0	87	83	83	83
6	AUTHORITY	75	DF	0.1	LB A/A PRE					
6	CLASSIC	25	DF	0.02	LB A/A PRE					
6	LIBERTY	1.67	E	0.31	LB A/A +MP					
6	AMS	100	SG	3	LB A/A +MP					
7	DOMAIN	60	DF	0.375	LB A/A PRE	0	85	80	82	80
7	LIBERTY	1.67	E	0.31	LB A/A +MP					
7	AMS	100	SG	3	LB A/A +MP					
8	PROWL	3.3	EC	0.99	LB A/A PRE	0	90	77	82	92
8	LIBERTY	1.67	E	0.31	LB A/A +MP					
8	AMS	100	SG	3	LB A/A +MP					
9	AXIOM	68	DF	0.425	LB A/A PRE	0	85	80	82	78
9	LIBERTY	1.67	E	0.31	LB A/A +MP					
9	AMS	100	SG	3	LB A/A +MP					

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

Weed Code		SETFA	XANST	IPOSS	CHEAL
Crop Code		GLYMA			
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes		P	P	P	P
# Subsamples, Dec.		0	0	0	0

Trt Treatment No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
10	PROWL	3.3	EC	1.05	LB A/A	PRE	0	85	88	88	90
10	RAPTOR	1	E	0.039	LB A/A	MP					
10	FLEXSTAR HL	1.88	CS	0.132	LB A/A	MP					
10	INDUCE			0.25	% V/V	MP					
10	LIQUID N		L	1	QT/A	MP					
LSD (P=.05)				0.0			0.0	4.9	7.6	4.3	13.3
Standard Deviation				0.0			0.0	2.8	4.5	2.5	7.7
CV				0.0			0.0	3.28	5.36	3.08	9.29

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Weed Science Field Research

SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S0034 Study Dir.: CHARLES H. SLACK  
Location: LEXINGLTON, KY. Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546 **Initiation Date:** 05-04-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

**Crop 1:** GLYMA SOYBEAN **Variety:** LT2874  
**Planting Date:** 05-04-00 **Planting Method:** ROW  
**Rate:** 190000 S/A **Depth:** 1.25 IN  
**Row Spacing:** 30 IN **Seed Bed:** MEDIUM  
**Soil Temperature:** 67 F **Soil Moisture:** NORMAL **Emergence Date:** 05-11-00

**SITE AND DESIGN**

**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**

% Sand: 5	% OM: 2.8	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: MAURY
% Clay: 32	CEC: 17	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL**Closest Weather Station:** SPINDLETOP **Distance:** 1 **Unit:** MI**APPLICATION DESCRIPTION**

	A	B	C	D
<b>Application Date:</b>	05-04-00	05-22-00	05-25-00	05-25-00

Time of Day:	10:30	10:30	1:00	11:30
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	+MP	LP
Applic. Placement:	BROSOI	BROFOI	BROFOI	BROFOI
Air Temp., Unit:	68 F	70 F	70 F	68 F
% Relative Humidity:	80	78	80	80
Wind Velocity, Unit:	3 MPH	5 MPH	3 MPH	5 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	67 F	71 F	72 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20	20

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D
Crop 1 Code, Stage:	GLYMA PRE	GLYMA MP	GLYMA +MP	GLYMA LP
Stage Scale:		2 TRIFOL	3 TRIFOL	3 TRIFOL
Height, Unit:		6 IN	8 IN	8 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA +MP	SETFA LP
Stage Scale:		2 LF	3 LF	3 LF
Density, Unit:		3 IN	6 IN	6 IN
Weed 2 Code, Stage:	XANST	XANST	XANST	XANST
Stage Scale:		2 LF	4 LF	4 LF
Density, Unit:		4 IN	6 IN	6 IN
Weed 3 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:		4 LF	6 LF	6 LF
Density, Unit:		4 IN	6 IN	6 IN
Weed 4 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		10 LF	14 LF	14 LF
Density, Unit:		4 IN	7 IN	7 IN

**APPLICATION EQUIPMENT**

	A	B	C	D
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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

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

NO-TILL SOYBAN EARLY PREPLANT

Trial ID: S0018

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	AMBTR	GLYMA	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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 INJURY CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT		
1	BACKDRAFT	1.5 E		0.563 LB	A/A	1WK	0	93	90	95	95	0	93	88	95	95
1	WEEDONE LV4	3.8 E		0.5 LB	A/A	1WK										
1	INDUCE			0.125 %	V/V	1WK										
1	AMS	100 SG		15 LB	LB/100	GAL 1WK										
1	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LP										
1	AMS	100 SG		17 LB	LB/100	GAL LP										
2	BACKDRAFT	1.5 E		0.75 LB	A/A	1WK	2	95	90	93	92	2	95	90	93	92
2	INDUCE			0.125 %	V/V	1WK										
2	AMS	100 SG		15 LB	LB/100	GAL 1WK										
2	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LP										
2	AMS	100 SG		17 LB	LB/100	GAL LP										
3	BACKDRAFT	1.5 E		0.563 LB	A/A	1WK	0	88	88	95	93	0	88	88	95	93
3	WEEDONE LV4	3.8 E		0.5 LB	A/A	1WK										
3	INDUCE			0.125 %	V/V	1WK										
3	AMS	100 SG		15 LB	LB/100	GAL 1WK										
3	SYNCHRONY STS	42 DF		0.013 LB	A/A	MP										
3	MSO	L		1 QT	A	MP										
3	LIQUID N	L		1 QT	A	MP										
4	EXTREME	2.17 EC		0.813 LB	A/A	1WK	0	93	93	95	87	0	93	90	95	85
4	INDUCE			0.125 %	V/V	1WK										
4	AMS	100 SG		12 LB	LB/100	GAL 1WK										
4	SYNCHRONY STS	42 DF		0.013 LB	A/A	MP										
4	MSO	L		1 QT	A	MP										
4	LIQUID N	L		1 QT	A	MP										
5	TOUCHDOWN 5	5 SL		1 LB	A/A	1WK	0	95	92	92	88	0	95	90	92	88
5	AMS	100 SG		8.5 LB	LB/100	GAL 1WK										
5	EXTREME	2.17 EC		0.813 LB	A/A	LP										
5	INDUCE			0.125 %	V/V	LP										
5	AMS	100 SG		12 LB	LB/100	GAL LP										
6	SQUADRON	2.33 EC		0.87 LB	A/A	1WK	2	90	87	95	93	2	90	87	95	92
6	COMMAND	3 ME		0.375 LB	A/A	1WK										
6	WEEDONE LV4	3.8 E		0.5 LB	A/A	1WK										
6	INDUCE			0.25 %	V/V	1WK										



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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	CHEAL	AMBTR	SETFA	IPOSS	CHEAL	AMBTR		
							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA		
							INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	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										
7	STEEL	2.57	EC	0.964	LB A/A	1WK	0	93	90	95	93	0	93	88	95	93
7	DOMAIN	60	DF	0.225	LB A/A	1WK										
7	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK										
7	INDUCE			0.25	% V/V	1WK										
8	STEEL	2.57	EC	0.964	LB A/A	1WK	0	92	92	95	93	0	92	90	95	93
8	DOMAIN	60	DF	0.375	LB A/A	1WK										
8	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK										
8	INDUCE			0.25	% V/V	1WK										
9	STEEL	2.57	EC	0.964	LB A/A	1WK	2	92	92	95	93	2	92	92	95	90
9	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK										
9	AMS	100	SG	17	LB/100 GAL	1WK										
9	COC		L	1	QT/A	1WK										
9	SYNCHRONY STS	42	DF	0.013	LB A/A	MP										
9	MSO		L	1	QT/A	MP										
9	LIQUID N		L	1	QT/A	MP										
10	SQUADRON	2.33	EC	0.87	LB A/A	1WK	0	90	88	95	93	0	90	88	95	93
10	DOMAIN	60	DF	0.225	LB A/A	1WK										
10	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK										
10	INDUCE			0.25	% V/V	1WK										
11	DOMAIN	60	DF	0.375	LB A/A	1WK	0	95	87	95	93	0	95	87	93	92
11	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK										
11	COC		L	1	QT/A	1WK										
11	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP										
11	AMS	100	SG	17	LB/100 GAL	LP										
12	DOMAIN	60	DF	0.488	LB A/A	1WK	0	93	85	93	93	0	93	83	93	90
12	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK										
12	COC		L	1	QT/A	1WK										
12	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP										
12	AMS	100	SG	17	LB/100 GAL	LP										
13	DOMAIN	60	DF	0.6	LB A/A	1WK	0	95	90	95	88	0	95	88	95	88
13	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK										
13	COC		L	1	QT/A	1WK										
13	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP										
13	AMS	100	SG	17	LB/100 GAL	LP										

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Weed Code	SETFA	IPOSS	CHEAL	AMBTR	GLYMA	SETFA	IPOSS	CHEAL	AMBTR	
Crop Code	GLYMA					GLYMA				
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
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg	GLYMA INJURY	GLYMA CONTROL	GLYMA CONTROL	GLYMA CONTROL	GLYMA INJURY	GLYMA CONTROL	GLYMA CONTROL	GLYMA CONTROL		
14	CLARITY	4	E	0.25	LB A/A	3WK	0	92	85	93	85	2	90	83	93	85
14	ROUNDUP ULTRA	4	AS	0.75	LB A/A	3WK										
14	AMS	100	SG	17	LB/100 GAL	3WK										
14	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
14	AMS	100	SG	17	LB/100 GAL	LP										
15	CLARITY	4	E	0.5	LB A/A	3WK	0	92	88	90	93	0	92	88	90	93
15	ROUNDUP ULTRA	4	AS	0.75	LB A/A	3WK										
15	AMS	100	SG	17	LB/100 GAL	3WK										
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
15	AMS	100	SG	17	LB/100 GAL	LP										
16	CLARITY	4	E	0.25	LB A/A	1WK	25	95	85	95	93	20	90	80	95	93
16	ROUNDUP ULTRA	4	AS	0.75	LB A/A	1WK										
16	AMS	100	SG	17	LB/100 GAL	1WK										
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
16	AMS	100	SG	17	LB/100 GAL	LP										
17	CLARITY	4	E	0.5	LB A/A	1WK	50	95	90	95	95	42	90	83	95	95
17	ROUNDUP ULTRA	4	AS	0.75	LB A/A	1WK										
17	AMS	100	SG	17	LB/100 GAL	1WK										
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
17	AMS	100	SG	17	LB/100 GAL	LP										
18	CLARITY	4	E	0.25	LB A/A	PRE	52	95	92	93	95	42	92	87	93	95
18	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE										
18	AMS	100	SG	17	LB/100 GAL	PRE										
18	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
18	AMS	100	SG	17	LB/100 GAL	LP										
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	2	95	88	93	95	2	93	87	93	95
19	AMS	100	SG	17	LB/100 GAL	PRE										
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
19	AMS	100	SG	17	LB/100 GAL	LP										
20	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	95	90	92	95	0	95	88	92	95
20	AMS	100	SG	8.5	LB/100 GAL	PRE										
20	TOUCHDOWN 5	5	SL	1	LB A/A	LP										
20	AMS	100	SG	8.5	LB/100 GAL	LP										
LSD (P=.05)							2.9	3.2	6.4	3.8	5.9	4.2	3.3	5.7	4.0	5.9
Standard Deviation							1.8	1.9	3.9	2.3	3.6	2.5	2.0	3.5	2.4	3.6
CV							26.66	2.09	4.36	2.48	3.86	45.32	2.19	3.97	2.61	3.88

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

NO-TILL SOYBAN EARLY PREPLANT

Trial ID: S0018

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg				
1	BACKDRAFT	1.5	E	0.563	LB A/A	1WK	0	92	88	95
1	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
1	INDUCE			0.125	% V/V	1WK				
1	AMS	100	SG	15	LB/100	GAL 1WK				
1	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
1	AMS	100	SG	17	LB/100	GAL LP				
2	BACKDRAFT	1.5	E	0.75	LB A/A	1WK	0	93	88	93
2	INDUCE			0.125	% V/V	1WK				
2	AMS	100	SG	15	LB/100	GAL 1WK				
2	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
2	AMS	100	SG	17	LB/100	GAL LP				
3	BACKDRAFT	1.5	E	0.563	LB A/A	1WK	0	88	88	95
3	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
3	INDUCE			0.125	% V/V	1WK				
3	AMS	100	SG	15	LB/100	GAL 1WK				
3	SYNCHRONY STS	42	DF	0.013	LB A/A	MP				
3	MISO		L	1	QT/A	MP				
3	LIQUID N		L	1	QT/A	MP				
4	EXTREME	2.17	EC	0.813	LB A/A	1WK	0	92	85	95
4	INDUCE			0.125	% V/V	1WK				
4	AMS	100	SG	12	LB/100	GAL 1WK				
4	SYNCHRONY STS	42	DF	0.013	LB A/A	MP				
4	MISO		L	1	QT/A	MP				
4	LIQUID N		L	1	QT/A	MP				
5	TOUCHDOWN 5	5	SL	1	LB A/A	1WK	0	93	88	92
5	AMS	100	SG	8.5	LB/100	GAL 1WK				
5	EXTREME	2.17	EC	0.813	LB A/A	LP				
5	INDUCE			0.125	% V/V	LP				
5	AMS	100	SG	12	LB/100	GAL LP				
6	SQUADRON	2.33	EC	0.87	LB A/A	1WK	0	90	87	95
6	COMMAND	3	ME	0.375	LB A/A	1WK				
6	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
6	INDUCE			0.25	% V/V	1WK				

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

Weed Code	SETFA	IPOSS	CHEAL	AMBTR
-Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg				
7	STEEL	2.57	EC	0.964	LB A/A	1WK	0	92	87	95 93
7	DOMAIN	60	DF	0.225	LB A/A	1WK				
7	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
7	INDUCE			0.25	% V/V	1WK				
8	STEEL	2.57	EC	0.964	LB A/A	1WK	0	90	90	95 93
8	DOMAIN	60	DF	0.375	LB A/A	1WK				
8	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
8	INDUCE			0.25	% V/V	1WK				
9	STEEL	2.57	EC	0.964	LB A/A	1WK	0	92	90	95 90
9	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
9	AMS	100	SG	17	LB/100 GAL	1WK				
9	COC		L	1	QT/A	1WK				
9	SYNCHRONY STS	42	DF	0.013	LB A/A	MP				
9	MISO		L	1	QT/A	MP				
9	LIQUID N		L	1	QT/A	MP				
10	SQUADRON	2.33	EC	0.87	LB A/A	1WK	0	90	88	95 93
10	DOMAIN	60	DF	0.225	LB A/A	1WK				
10	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
10	INDUCE			0.25	% V/V	1WK				
11	DOMAIN	60	DF	0.375	LB A/A	1WK	0	92	85	93 92
11	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK				
11	COC		L	1	QT/A	1WK				
11	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
11	AMS	100	SG	17	LB/100 GAL	LP				
12	DOMAIN	60	DF	0.488	LB A/A	1WK	0	92	83	93 90
12	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK				
12	COC		L	1	QT/A	1WK				
12	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
12	AMS	100	SG	17	LB/100 GAL	LP				
13	DOMAIN	60	DF	0.6	LB A/A	1WK	0	90	87	95 88
13	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK				
13	COC		L	1	QT/A	1WK				
13	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
13	AMS	100	SG	17	LB/100 GAL	LP				

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

Weed Code	GLYMA	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
Trt-Eval Interval	P	P	P	P	P
ARM Action Codes	0	0	0	0	0
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
14	CLARITY	4	E	0.25	LB A/A	3WK	2	90	83	93	85
14	ROUNDUP ULTRA	4	AS	0.75	LB A/A	3WK					
14	AMS	100	SG	17	LB/100 GAL	3WK					
14	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
14	AMS	100	SG	17	LB/100 GAL	LP					
15	CLARITY	4	E	0.5	LB A/A	3WK	0	90	88	90	93
15	ROUNDUP ULTRA	4	AS	0.75	LB A/A	3WK					
15	AMS	100	SG	17	LB/100 GAL	3WK					
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
15	AMS	100	SG	17	LB/100 GAL	LP					
16	CLARITY	4	E	0.25	LB A/A	1WK	18	90	80	95	93
16	ROUNDUP ULTRA	4	AS	0.75	LB A/A	1WK					
16	AMS	100	SG	17	LB/100 GAL	1WK					
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
16	AMS	100	SG	17	LB/100 GAL	LP					
17	CLARITY	4	E	0.5	LB A/A	1WK	38	90	83	95	95
17	ROUNDUP ULTRA	4	AS	0.75	LB A/A	1WK					
17	AMS	100	SG	17	LB/100 GAL	1WK					
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
17	AMS	100	SG	17	LB/100 GAL	LP					
18	CLARITY	4	E	0.25	LB A/A	PRE	37	92	87	93	95
18	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE					
18	AMS	100	SG	17	LB/100 GAL	PRE					
18	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
18	AMS	100	SG	17	LB/100 GAL	LP					
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	90	87	93	95
19	AMS	100	SG	17	LB/100 GAL	PRE					
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
19	AMS	100	SG	17	LB/100 GAL	LP					
20	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	90	87	92	95
20	AMS	100	SG	8.5	LB/100 GAL	PRE					
20	TOUCHDOWN 5	5	SL	1	LB A/A	LP					
20	AMS	100	SG	8.5	LB/100 GAL	LP					
LSD (P=.05)							3.4	3.4	6.1	4.0	5.9
Standard Deviation							2.1	2.1	3.7	2.4	3.6
CV							43.76	2.28	4.25	2.61	3.88

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

NO-TILL SOYBAN EARLY PREPLANT

Trial ID: S0018 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: LEXINGTON Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546 Initiation Date: 04-27-00  
Country: USA

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: GLXMA SOYBEAN Variety: AG4501  
Planting Date: 04-27-00 Planting Method: DRILLED  
Rate: 200000 S/A Depth: 1.25 IN  
Row Spacing: 7.5 IN Seed Bed: MEDIUM  
Soil Temperature: 62 F Soil Moisture: NORMAL Emergence Date: 05-05-00

SITE AND DESIGN

Plot Width, Unit: 6.66 FT Plot Length, Unit: 33 FT Reps: 3  
Site Type: FIELD  
Tillage Type: CONVENTIONAL-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 6 % OM: 4.0 Texture: SILT LOAM  
% Silt: 63 pH: 6.5 Soil Name: LANTON  
% Clay: 30 CEC: 22 Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

APPLICATION DESCRIPTION

Application Date: A 04-13-00 B 05-04-00 C 05-20-00 D 06-07-00

Time of Day:	10:00	10:00	11:00	10:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	3 WEEK	1 WEEK	MP	LP
Applic. Placement:	BROSOI	BROSOI	BROFOI	BROFOI
Air Temp., Unit:	48 F	68 F	58 F	74 F
% Relative Humidity:	60	72	65	82
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	50 F	64 F	54 F	68 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	80	10	10

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA 3 WEEK	GLXMA 1 WEEK	GLXMA MP	GLXMA LP
Stage Scale:			2 TRIFOL	3 TRIFOL
Height, Unit:			5 IN	8 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA 3 WEEK	SETFA 1 WEEK	SETFA MP	SETFA LP
Stage Scale:			3 LF	4 LF
Density, Unit:			4 IN	6 IN
Weed 2 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:			4 LF	6 LF
Density, Unit:			4 IN	5 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		6 LF	6 LF	10 LF
Density, Unit:		3 IN	3 IN	6 IN
Weed 4 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Scale:		4LF	4 LF	6 LF
Density, Unit:		6 IN	6 IN	8 IN

## APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	ATV	ATV	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:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 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

NO-TILL SOYBEAN EARLY PREPLANT II

Trial ID: S0030

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	STEME	LAMPU	TAROF	STEME	LAMPU	TAROF	STEME	LAMPU	TAROF
Crop Code									
Rating Data Type	CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL								
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT								
Trt-Eval Interval	1 WEEK			2 WEEK			3 WEEK		
ARM Action Codes	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg									
1 CANOPY XL						70	70	70	73	80	87	83	93	93
1 AUTHORITY	75	DF	0.073	LB A/A	45 DAY									
1 CLASSIC	25	DF	0.015	LB A/A	45 DAY									
1 EXPRESS	75	DF	0.005	LB A/A	45 DAY									
1 WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY									
1 COC		L	1	QT/A	45 DAY									
2 CANOPY XL						77	77	77	83	83	87	90	97	93
2 AUTHORITY	75	DF	0.13	LB A/A	45 DAY									
2 CLASSIC	25	DF	0.026	LB A/A	45 DAY									
2 EXPRESS	75	DF	0.005	LB A/A	45 DAY									
2 WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY									
2 COC		L	1	QT/A	45 DAY									
3 LOROX	50	DF	0.25	LB A/A	45 DAY	67	70	73	63	60	83	70	70	63
3 WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY									
3 COC		L	1	QT/A	45 DAY									
4 LOROX	50	DF	0.5	LB A/A	45 DAY	60	60	67	70	70	80	80	83	87
4 WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY									
4 COC		L	1	QT/A	45 DAY									
5 CANOPY XL						77	77	53	77	83	83	80	90	90
5 AUTHORITY	75	DF	0.073	LB A/A	45 DAY									
5 CLASSIC	25	DF	0.015	LB A/A	45 DAY									
5 LOROX	50	DF	0.063	LB A/A	45 DAY									
5 WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY									
5 COC		L	1	QT/A	45 DAY									
6 CANOPY XL						73	80	77	77	90	83	80	100	93
6 AUTHORITY	75	DF	0.073	LB A/A	45 DAY									
6 CLASSIC	25	DF	0.015	LB A/A	45 DAY									
6 LOROX	50	DF	0.25	LB A/A	45 DAY									
6 WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY									
6 COC		L	1	QT/A	45 DAY									



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

Weed Code	STEME	LAMPU	TAROF	STEME	LAMPU	TAROF	STEME	LAMPU	TAROF
Crop Code	CONTROL			CONTROL			CONTROL		
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK	2 WEEK	3 WEEK	3 WEEK	3 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	STEME	LAMPU	TAROF	STEME	LAMPU	TAROF
7 CANOPY XL						77	80	77	80	90	87
7 AUTHORITY	75 DF		0.073 LB	A/A	45 DAY						
7 CLASSIC	25 DF		0.015 LB	A/A	45 DAY						
7 LOROX	50 DF		0.5 LB	A/A	45 DAY						
7 WEEDONE LV4	3.8 E		0.5 LB	A/A	45 DAY						
7 COC	L		1 QT/A		45 DAY						
8 CANOPY XL						80	80	80	87	93	90
8 AUTHORITY	75 DF		0.13 LB	A/A	45 DAY						
8 CLASSIC	25 DF		0.026 LB	A/A	45 DAY						
8 LOROX	50 DF		0.5 LB	A/A	45 DAY						
8 WEEDONE LV4	3.8 E		0.5 LB	A/A	45 DAY						
8 COC	L		1 QT/A		45 DAY						
9 AUTHORITY	75 DF		0.188 LB	A/A	45 DAY	80	80	80	80	87	90
9 LOROX	50 DF		0.5 LB	A/A	45 DAY						
9 WEEDONE LV4	3.8 E		0.5 LB	A/A	45 DAY						
9 COC	L		1 QT/A		45 DAY						
10 ROUNDUP ULTRA	4 AS		0.75 LB	A/A	45 DAY	67	63	63	80	83	80
10 WEEDONE LV4	3.8 E		0.5 LB	A/A	45 DAY						
10 AMS	100 SG		17 LB/100	GAL	45 DAY						
11 Weedy Check						0	0	0	0	0	0
LSD (P=.05)						10.7	9.3	21.4	16.4	20.9	7.4
Standard Deviation						6.3	5.4	12.5	9.6	12.3	4.4
CV						9.54	8.14	19.26	13.76	16.45	5.65

## NO-TILL SOYBEAN EARLY PREPLANT II

Trial ID: S0030

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	ABUTH	CHEAL	IPOSS	SETFA	ABUTH	CHEAL	IPOSS
Crop Code	GLYMA				GLYMA			
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0
# Subsamples, Dec.								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	GLYMA INJURY PERCENT	SETFA CONTROL PERCENT	ABUTH CONTROL PERCENT	CHEAL CONTROL PERCENT	IPOSS CONTROL PERCENT	GLYMA INJURY PERCENT	SETFA CONTROL PERCENT	ABUTH CONTROL PERCENT	CHEAL CONTROL PERCENT	IPOSS CONTROL PERCENT
1	CANOPY XL						0	58	75	83	78	0	55	70	83	75
1	AUTHORITY	75	DF	0.073	LB A/A	45 DAY										
1	CLASSIC	25	DF	0.015	LB A/A	45 DAY										
1	EXPRESS	75	DF	0.005	LB A/A	45 DAY										
1	WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY										
1	COC		L	1	QT/A	45 DAY										
2	CANOPY XL						0	82	88	88	88	0	78	78	88	85
2	AUTHORITY	75	DF	0.13	LB A/A	45 DAY										
2	CLASSIC	25	DF	0.026	LB A/A	45 DAY										
2	EXPRESS	75	DF	0.005	LB A/A	45 DAY										
2	WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY										
2	COC		L	1	QT/A	45 DAY										
3	LOROX	50	DF	0.25	LB A/A	45 DAY	0	68	78	85	83	0	62	68	82	75
3	WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY										
3	COC		L	1	QT/A	45 DAY										
4	LOROX	50	DF	0.5	LB A/A	45 DAY	0	73	80	82	82	0	70	68	80	77
4	WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY										
4	COC		L	1	QT/A	45 DAY										
5	CANOPY XL						0	85	90	90	88	0	78	78	88	83
5	AUTHORITY	75	DF	0.073	LB A/A	45 DAY										
5	CLASSIC	25	DF	0.015	LB A/A	45 DAY										
5	LOROX	50	DF	0.063	LB A/A	45 DAY										
5	WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY										
5	COC		L	1	QT/A	45 DAY										
6	CANOPY XL						0	78	85	87	87	0	72	77	85	82
6	AUTHORITY	75	DF	0.073	LB A/A	45 DAY										
6	CLASSIC	25	DF	0.015	LB A/A	45 DAY										
6	LOROX	50	DF	0.25	LB A/A	45 DAY										
6	WEEDONE LV4	3.8	E	0.5	LB A/A	45 DAY										
6	COC		L	1	QT/A	45 DAY										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA		ABUTH		CHEAL		IPOSS				
							GLYMA INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	GLYMA INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL 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	P
							0	0	0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Rate	Unit	Grow Stg										
7 CANOPY XL							45 DAY	0	80	85	85	83	0	72	77	85	78
7 AUTHORITY	75	DF	0.073	LB A/A			45 DAY										
7 CLASSIC	25	DF	0.015	LB A/A			45 DAY										
7 LOROX	50	DF	0.5	LB A/A			45 DAY										
7 WEEDONE LV4	3.8	E	0.5	LB A/A			45 DAY										
7 COC		L	1	QT/A			45 DAY										
8 CANOPY XL							45 DAY	0	77	87	85	85	0	70	77	85	80
8 AUTHORITY	75	DF	0.13	LB A/A			45 DAY										
8 CLASSIC	25	DF	0.026	LB A/A			45 DAY										
8 LOROX	50	DF	0.5	LB A/A			45 DAY										
8 WEEDONE LV4	3.8	E	0.5	LB A/A			45 DAY										
8 COC		L	1	QT/A			45 DAY										
9 AUTHORITY	75	DF	0.188	LB A/A			45 DAY	0	83	87	88	87	0	77	77	87	87
9 LOROX	50	DF	0.5	LB A/A			45 DAY										
9 WEEDONE LV4	3.8	E	0.5	LB A/A			45 DAY										
9 COC		L	1	QT/A			45 DAY										
10 ROUNDUP ULTRA	4	AS	0.75	LB A/A			45 DAY	0	58	60	60	65	0	55	55	60	65
10 WEEDONE LV4	3.8	E	0.5	LB A/A			45 DAY										
10 AMS	100	SG	17	LB/100 GAL			45 DAY										
11 Weedy Check							45 DAY	0	75	78	77	78	0	70	67	77	75
LSD (P=.05)								0.0	21.3	18.8	16.3	18.4	0.0	18.2	19.2	17.1	19.4
Standard Deviation								0.0	12.5	11.0	9.6	10.8	0.0	10.7	11.3	10.0	11.4
CV								0.0	16.82	13.58	11.58	13.16	0.0	15.47	15.7	12.28	14.53

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## NO-TILL SOYBEAN EARLY PREPLANT II

Trial ID: S0030 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON, Trial Status: COMPLETE  
State/Prov.: KY.  
Postal Code: 40546 Initiation Date: 04-02-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	STEME CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
2.	LAMPU DEADNETTLE, RED	LAMIUM PURPUREUM L.
3.	TAROF DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
4.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
5.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
6.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
7.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.

Crop 1: GLYMA SOYBEAN Variety: AG4501  
Planting Date: 05-04-00 Planting Method: DRILLED  
Rate: 20000 S/A Depth: 1.25 IN  
Row Spacing: 7.5 IN Seed Bed: NO-TILL  
Soil Temperature: 65 F Soil Moisture: ADEQUATE Emergence Date: 05-12-00

## SITE AND DESIGN

Plot Width, Unit: 6.66 FT Plot Length, Unit: 44 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

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

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.8 Unit: MI

## APPLICATION DESCRIPTION

A

Application Date: 03-29-00  
 Time of Day: 3 PM  
 Application Method: SPRAY  
 Application Timing: 45 DAY  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 65 F  
 % Relative Humidity: 60  
 Wind Velocity, Unit: 3 MPH  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 50 F  
 Soil Moisture: GOOD  
 % Cloud Cover: 20

## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLYMA 45 DAY

## WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: STEME  
 Stage Scale: 4-6 IN  
 Weed 2 Code, Stage: LAMPU  
 Stage Scale: 4-6 IN  
 Weed 3 Code, Stage: TAROF  
 Stage Scale: 2-4 IN

## APPLICATION EQUIPMENT

A

Appl. Equipment: ATV  
 Operating Pressure: 30  
 Nozzle Type: FLAT FAN  
 Nozzle Size: 8004 DG  
 Nozzle Spacing, Unit: 20 IN  
 Boom Length, Unit: 6.66 FT  
 Boom Height, Unit: 19 IN  
 Ground Speed, Unit: 4 MPH  
 Carrier: WATER  
 Spray Volume, Unit: 24 GPA  
 Propellant: CO2

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MINIMUM TILL SOYBAN EARLY PREPLANT

Trial ID: S0019

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	AMBTR	GLYMA	SETFA	IPOSS	CHEAL	AMBTR	
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA		GLYMA	
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	95	87	95	95	0	92	87	95	95
1	BACKDRAFT	1.5 E		0.563 LB	A/A	1WK	0	95	87	95	95	0	92	87	95	95
1	WEEDONE LV4	3.8 E		0.5 LB	A/A	1WK										
1	INDUCE			0.125 %	V/V	1WK										
1	AMS	100 SG		15 LB/100	GAL	1WK										
1	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LP										
1	AMS	100 SG		17 LB/100	GAL	LP										
2	BACKDRAFT	1.5 E		0.75 LB	A/A	1WK	0	93	88	95	95	0	93	88	95	93
2	INDUCE			0.125 %	V/V	1WK										
2	AMS	100 SG		15 LB/100	GAL	1WK										
2	ROUNDUP ULTRA	4 AS		0.75 LB	A/A	LP										
2	AMS	100 SG		17 LB/100	GAL	LP										
3	BACKDRAFT	1.5 E		0.563 LB	A/A	1WK	2	82	88	93	95	0	80	88	93	95
3	WEEDONE LV4	3.8 E		0.5 LB	A/A	1WK										
3	INDUCE			0.125 %	V/V	1WK										
3	AMS	100 SG		15 LB/100	GAL	1WK										
3	SYNCHRONY STS	42 DF		0.013 LB	A/A	MP										
3	MSO	L		1 QT/A		MP										
3	LIQUID N	L		1 QT/A		MP										
4	EXTREME	2.17 EC		0.813 LB	A/A	1WK	0	88	87	95	90	0	88	87	93	88
4	INDUCE			0.125 %	V/V	1WK										
4	AMS	100 SG		12 LB/100	GAL	1WK										
4	SYNCHRONY STS	42 DF		0.013 LB	A/A	MP										
4	MSO	L		1 QT/A		MP										
4	LIQUID N	L		1 QT/A		MP										
5	TOUCHDOWN 5	5 SL		1 LB	A/A	1WK	0	90	88	87	92	0	90	88	87	92
5	AMS	100 SG		8.5 LB/100	GAL	1WK										
5	EXTREME	2.17 EC		0.813 LB	A/A	LP										
5	INDUCE			0.125 %	V/V	LP										
5	AMS	100 SG		12 LB/100	GAL	LP										
6	SQUADRON	2.33 EC		0.87 LB	A/A	1WK	0	83	87	95	88	0	82	87	93	82
6	COMMAND	3 ME		0.375 LB	A/A	1WK										
6	WEEDONE LV4	3.8 E		0.5 LB	A/A	1WK										
6	INDUCE			0.25 %	V/V	1WK										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	IPOSS	CHEAL	AMBTR	SETFA	IPOSS	CHEAL	AMBTR		
							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA		
							INJURY	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 Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg											
7 STEEL	2.57	EC	0.964	LB A/A	1WK	0	90	87	95	87	0	90	87	93	83	
7 DOMAIN	60	DF	0.225	LB A/A	1WK											
7 WEEDONE LV4	3.8	E	0.5	LB A/A	1WK											
7 INDUCE			0.25	% V/V	1WK											
8 STEEL	2.57	EC	0.964	LB A/A	1WK	0	95	83	95	92	0	93	83	95	88	
8 DOMAIN	60	DF	0.375	LB A/A	1WK											
8 WEEDONE LV4	3.8	E	0.5	LB A/A	1WK											
8 INDUCE			0.25	% V/V	1WK											
9 STEEL	2.57	EC	0.964	LB A/A	1WK	0	88	90	95	95	0	88	90	95	93	
9 WEEDONE LV4	3.8	E	0.5	LB A/A	1WK											
9 AMS	100	SG	17	LB/100 GAL	1WK											
9 COC		L	1	QT/A	1WK											
9 SYNCHRONY STS	42	DF	0.013	LB A/A	MP											
9 MSO		L	1	QT/A	MP											
9 LIQUID N		L	1	QT/A	MP											
10 SQUADRON	2.33	EC	0.87	LB A/A	1WK	0	75	85	93	92	0	75	85	93	87	
10 DOMAIN	60	DF	0.225	LB A/A	1WK											
10 WEEDONE LV4	3.8	E	0.5	LB A/A	1WK											
10 INDUCE			0.25	% V/V	1WK											
11 DOMAIN	60	DF	0.375	LB A/A	1WK	0	95	85	95	95	0	93	85	93	95	
11 GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK											
11 COC		L	1	QT/A	1WK											
11 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP											
11 AMS	100	SG	17	LB/100 GAL	LP											
12 DOMAIN	60	DF	0.488	LB A/A	1WK	0	95	87	95	93	0	95	87	95	92	
12 GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK											
12 COC		L	1	QT/A	1WK											
12 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP											
12 AMS	100	SG	17	LB/100 GAL	LP											
13 DOMAIN	60	DF	0.6	LB A/A	1WK	0	95	87	95	93	0	93	87	95	93	
13 GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK											
13 COC		L	1	QT/A	1WK											
13 ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP											
13 AMS	100	SG	17	LB/100 GAL	LP											

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Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	SETFA		IPOSS		CHEAL		AMBTR		SETFA		IPOSS		CHEAL		AMBTR	
	GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA		GLYMA	
	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	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	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg											
14 CLARITY	4 E		0.25 LB A/A	3WK		0	92	88	90	92	0	92	88	90	92	
14 ROUNDUP ULTRA	4 AS		0.75 LB A/A	3WK												
14 AMS	100 SG		17 LB/100 GAL	3WK												
14 ROUNDUP ULTRA	4 AS		1 LB A/A	LP												
14 AMS	100 SG		17 LB/100 GAL	LP												
15 CLARITY	4 E		0.5 LB A/A	3WK		0	90	90	92	92	0	90	90	92	90	
15 ROUNDUP ULTRA	4 AS		0.75 LB A/A	3WK												
15 AMS	100 SG		17 LB/100 GAL	3WK												
15 ROUNDUP ULTRA	4 AS		1 LB A/A	LP												
15 AMS	100 SG		17 LB/100 GAL	LP												
16 CLARITY	4 E		0.25 LB A/A	1WK		15	95	88	92	95	10	93	88	92	95	
16 ROUNDUP ULTRA	4 AS		0.75 LB A/A	1WK												
16 AMS	100 SG		17 LB/100 GAL	1WK												
16 ROUNDUP ULTRA	4 AS		1 LB A/A	LP												
16 AMS	100 SG		17 LB/100 GAL	LP												
17 CLARITY	4 E		0.5 LB A/A	1WK		48	93	90	95	95	35	88	90	95	93	
17 ROUNDUP ULTRA	4 AS		0.75 LB A/A	1WK												
17 AMS	100 SG		17 LB/100 GAL	1WK												
17 ROUNDUP ULTRA	4 AS		1 LB A/A	LP												
17 AMS	100 SG		17 LB/100 GAL	LP												
18 CLARITY	4 E		0.25 LB A/A	PRE		13	95	90	95	95	8	92	90	95	93	
18 ROUNDUP ULTRA	4 AS		0.75 LB A/A	PRE												
18 AMS	100 SG		17 LB/100 GAL	PRE												
18 ROUNDUP ULTRA	4 AS		1 LB A/A	LP												
18 AMS	100 SG		17 LB/100 GAL	LP												
19 ROUNDUP ULTRA	4 AS		1 LB A/A	PRE		2	93	87	92	92	0	92	85	92	92	
19 AMS	100 SG		17 LB/100 GAL	PRE												
19 ROUNDUP ULTRA	4 AS		1 LB A/A	LP												
19 AMS	100 SG		17 LB/100 GAL	LP												
20 TOUCHDOWN 5	5 SL		1 LB A/A	PRE		0	93	88	95	90	0	93	88	95	88	
20 AMS	100 SG		8.5 LB/100 GAL	PRE												
20 TOUCHDOWN 5	5 SL		1 LB A/A	LP												
20 AMS	100 SG		8.5 LB/100 GAL	LP												
LSD (P=.05)						7.3	6.1	6.0	4.2	5.7	5.0	5.9	5.8	4.7	6.8	
Standard Deviation						4.4	3.7	3.6	2.5	3.5	3.0	3.6	3.5	2.9	4.1	
CV						110.82	4.07	4.15	2.71	3.76	112.72	4.0	4.04	3.06	4.51	



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## MINIMUM TILL SOYBAN EARLY PREPLANT

Trial ID: S0019

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg				
1	BACKDRAFT	1.5	E	0.563	LB A/A	1WK	0	90	87	95
1	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
1	INDUCE			0.125	% V/V	1WK				
1	AMS	100	SG	15	LB/100	GAL 1WK				
1	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
1	AMS	100	SG	17	LB/100	GAL LP				
2	BACKDRAFT	1.5	E	0.75	LB A/A	1WK	0	92	87	95
2	INDUCE			0.125	% V/V	1WK				
2	AMS	100	SG	15	LB/100	GAL 1WK				
2	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP				
2	AMS	100	SG	17	LB/100	GAL LP				
3	BACKDRAFT	1.5	E	0.563	LB A/A	1WK	0	80	88	93
3	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
3	INDUCE			0.125	% V/V	1WK				
3	AMS	100	SG	15	LB/100	GAL 1WK				
3	SYNCHRONY STS	42	DF	0.013	LB A/A	MP				
3	M50		L	1	QT/A	MP				
3	LIQUID N		L	1	QT/A	MP				
4	EXTREME	2.17	EC	0.813	LB A/A	1WK	0	88	87	93
4	INDUCE			0.125	% V/V	1WK				
4	AMS	100	SG	12	LB/100	GAL 1WK				
4	SYNCHRONY STS	42	DF	0.013	LB A/A	MP				
4	M50		L	1	QT/A	MP				
4	LIQUID N		L	1	QT/A	MP				
5	TOUCHDOWN 5	5	SL	1	LB A/A	1WK	0	90	88	87
5	AMS	100	SG	8.5	LB/100	GAL 1WK				
5	EXTREME	2.17	EC	0.813	LB A/A	LP				
5	INDUCE			0.125	% V/V	LP				
5	AMS	100	SG	12	LB/100	GAL LP				
6	SQUADRON	2.33	EC	0.87	LB A/A	1WK	0	82	87	93
6	COMMAND	3	ME	0.375	LB A/A	1WK				
6	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK				
6	INDUCE			0.25	% V/V	1WK				

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Weed Code	SETFA	IPOSS	CHEAL	AMBTR					
Crop Code	GLYMA								
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS				
ARM Action Codes	P	P	P	P	P				
# Subsamples, Dec.	0	0	0	0	0				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
7	STEEL	2.57	EC	0.964	LB A/A	1WK	0	88	87	93	83
7	DOMAIN	60	DF	0.225	LB A/A	1WK					
7	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK					
7	INDUCE			0.25	% V/V	1WK					
8	STEEL	2.57	EC	0.964	LB A/A	1WK	0	92	83	95	88
8	DOMAIN	60	DF	0.375	LB A/A	1WK					
8	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK					
8	INDUCE			0.25	% V/V	1WK					
9	STEEL	2.57	EC	0.964	LB A/A	1WK	0	88	90	95	93
9	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK					
9	AMS	100	SG	17	LB/100	GAL 1WK					
9	COC		L	1	QT/A	1WK					
9	SYNCHRONY STS	42	DF	0.013	LB A/A	MP					
9	MSO		L	1	QT/A	MP					
9	LIQUID N		L	1	QT/A	MP					
10	SQUADRON	2.33	EC	0.87	LB A/A	1WK	0	75	85	93	87
10	DOMAIN	60	DF	0.225	LB A/A	1WK					
10	WEEDONE LV4	3.8	E	0.5	LB A/A	1WK					
10	INDUCE			0.25	% V/V	1WK					
11	DOMAIN	60	DF	0.375	LB A/A	1WK	0	90	85	93	95
11	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK					
11	COC		L	1	QT/A	1WK					
11	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP					
11	AMS	100	SG	17	LB/100	GAL LP					
12	DOMAIN	60	DF	0.488	LB A/A	1WK	0	90	85	95	92
12	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK					
12	COC		L	1	QT/A	1WK					
12	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP					
12	AMS	100	SG	17	LB/100	GAL LP					
13	DOMAIN	60	DF	0.6	LB A/A	1WK	0	90	87	95	93
13	GRAMOXONE EXTRA	2.5	AS	0.469	LB A/A	1WK					
13	COC		L	1	QT/A	1WK					
13	ROUNDUP ULTRA	4	AS	0.75	LB A/A	LP					
13	AMS	100	SG	17	LB/100	GAL LP					

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Weed Code	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
14	CLARITY	4	E	0.25	LB A/A	3WK	0	90	88	90	92
14	ROUNDUP ULTRA	4	AS	0.75	LB A/A	3WK					
14	AMS	100	SG	17	LB/100 GAL	3WK					
14	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
14	AMS	100	SG	17	LB/100 GAL	LP					
15	CLARITY	4	E	0.5	LB A/A	3WK	0	90	90	92	90
15	ROUNDUP ULTRA	4	AS	0.75	LB A/A	3WK					
15	AMS	100	SG	17	LB/100 GAL	3WK					
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
15	AMS	100	SG	17	LB/100 GAL	LP					
16	CLARITY	4	E	0.25	LB A/A	1WK	7	90	88	92	95
16	ROUNDUP ULTRA	4	AS	0.75	LB A/A	1WK					
16	AMS	100	SG	17	LB/100 GAL	1WK					
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
16	AMS	100	SG	17	LB/100 GAL	LP					
17	CLARITY	4	E	0.5	LB A/A	1WK	32	88	90	95	93
17	ROUNDUP ULTRA	4	AS	0.75	LB A/A	1WK					
17	AMS	100	SG	17	LB/100 GAL	1WK					
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
17	AMS	100	SG	17	LB/100 GAL	LP					
18	CLARITY	4	E	0.25	LB A/A	PRE	5	92	88	95	93
18	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE					
18	AMS	100	SG	17	LB/100 GAL	PRE					
18	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
18	AMS	100	SG	17	LB/100 GAL	LP					
19	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	90	83	92	92
19	AMS	100	SG	17	LB/100 GAL	PRE					
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
19	AMS	100	SG	17	LB/100 GAL	LP					
20	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	90	87	95	88
20	AMS	100	SG	8.5	LB/100 GAL	PRE					
20	TOUCHDOWN 5	5	SL	1	LB A/A	LP					
20	AMS	100	SG	8.5	LB/100 GAL	LP					
LSD (P=.05)							4.3	4.8	5.4	4.7	6.8
Standard Deviation							2.6	2.9	3.2	2.9	4.1
CV							118.97	3.27	3.73	3.06	4.51

## MINIMUM TILL SOYBAN EARLY PREPLANT

Trial ID: S0019                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 04-27-00  
**Country:** USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

**Crop 1:** GLXMA SOYBEAN                      **Variety:** AG4501  
**Planting Date:** 04-27-00                      **Planting Method:** DRILLED  
**Rate:** 200000 S/A                      **Depth:** 1.25 IN  
**Row Spacing:** 7.5 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 62 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-04-00

## SITE AND DESIGN

**Plot Width, Unit:** 6.66 FT                      **Plot Length, Unit:** 33 FT                      **Reps:** 3  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL-TILL                      **Study Design:** RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

% Sand: 7	% OM: 4.0	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: LANTON
% Clay: 30	CEC: 22	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.5                      **Unit:** MI

## APPLICATION DESCRIPTION

	A	B	C	D
<b>Application Date:</b>	04-13-00	05-04-00	05-20-00	06-07-00

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Time of Day:	10:00	10:00	11:00	10:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	3 WEEK	1 WEEK	MP	LP
Applic. Placement:	BROSOI	BROSOI	BROFOI	BROFOI
Air Temp., Unit:	48 F	68 F	58 F	74 F
% Relative Humidity:	60	72	65	82
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	50 F	64 F	54 F	68 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	80	10	10

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D
Crop 1 Code, Stage:	GLXMA 3 WEEK	GLXMA 1 WEEK	GLXMA MP	GLXMA LP
Stage Scale:			2 TRIFOL	3 TRIFOL
Height, Unit:			5 IN	8 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D
Weed 1 Code, Stage:	SETFA 3 WEEK	SETFA 1 WEEK	SETFA MP	SETFA LP
Stage Scale:			3 LF	4 LF
Density, Unit:			4 IN	6 IN
Weed 2 Code, Stage:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Scale:			4 LF	6 LF
Density, Unit:			4 IN	5 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL
Stage Scale:		6LF	6 LF	10 LF
Density, Unit:		3 IN	3 IN	6 IN
Weed 4 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Scale:		6LF	4 LF	6 LF
Density, Unit:		6 IN	6 IN	8 IN

**APPLICATION EQUIPMENT**

	A	B	C	D
Appl. Equipment:	ATV	ATV	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:	20 IN	20 IN	20 IN	20 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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NO-TILL SOYBEAN FULL SEASON

Trial ID: S0020

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	GLYMA	SETFA	CHEAL	XANST	AMBTR	
							INJURY CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	INJURY CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK
							P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg											
1 TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	92	88	93	93	0	87	85	90	90	
1 AMS	100	SG	8.5 LB/100	GAL PRE												
1 EXTREME	2.17	EC	0.813 LB A/A	LP												
1 SPREADER HF			0.125 % V/V	LP												
1 AMS	100	SG	12 LB/100	GAL LP												
2 TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	77	67	82	90	0	77	65	82	90	
2 AMS	100	SG	8.5 LB/100	GAL PRE												
2 RAPTOR	1	E	0.008 LB A/A	MP												
2 SPREADER HF			0.25 % V/V	MP												
2 LIQUID N		L	1 QT/A	MP												
3 TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	83	83	87	93	0	80	82	87	93	
3 AMS	100	SG	8.5 LB/100	GAL PRE												
3 RAPTOR	1	E	0.039 LB A/A	MP												
3 SPREADER HF			0.25 % V/V	MP												
3 LIQUID N		L	1 QT/A	MP												
4 TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	87	75	87	92	0	80	75	87	92	
4 PROWL	3.3	EC	1.05 LB A/A	PRE												
4 AMS	100	SG	8.5 LB/100	GAL PRE												
4 PURSUIT	70	DF	0.063 LB A/A	MP												
4 FIRSTRATE	84	W	0.008 LB A/A	MP												
4 SPREADER HF			0.25 % V/V	MP												
4 LIQUID N		L	1 QT/A	MP												
5 TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	95	92	95	95	0	87	88	90	92	
5 PROWL	3.3	EC	1.05 LB A/A	PRE												
5 AMS	100	SG	8.5 LB/100	GAL PRE												
5 RAPTOR	1	E	0.039 LB A/A	MP												
5 FIRSTRATE	84	W	0.008 LB A/A	MP												
5 SPREADER HF			0.25 % V/V	MP												
5 LIQUID N		L	1 QT/A	MP												

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	GLYMA	SETFA	CHEAL	XANST	AMBTR
							INJURY CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	INJURY CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK
							P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg										
6 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	90	92	95	0	82	87	90	93
6 PROWL	3.3	EC	1.05	LB A/A	PRE										
6 AMS	100	SG	8.5	LB/100 GAL	PRE										
6 RAPTOR	1	E	0.039	LB A/A	MP										
6 FLEXSTAR	1.88	CS	0.132	LB A/A	MP										
6 SPREADER HF			0.25	% V/V	MP										
6 LIQUID N		L	1	QT/A	MP										
7 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	92	93	93	93	0	83	90	90	92
7 AMS	100	SG	8.5	LB/100 GAL	PRE										
7 RAPTOR	1	E	0.039	LB A/A	MP										
7 FLEXSTAR	1.88	CS	0.132	LB A/A	MP										
7 SPREADER HF			0.25	% V/V	MP										
7 LIQUID N		L	1	QT/A	MP										
8 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	95	95	95	95	0	88	90	87	93
8 STEEL	2.57	EC	0.964	LB A/A	PRE										
8 AMS	100	SG	8.5	LB/100 GAL	PRE										
8 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP										
8 AMS	100	SG	17	LB/100 GAL	LP										
9 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	2	93	92	93	95	2	88	87	90	93
9 SQUADRON	2.33	EC	0.87	LB A/A	PRE										
9 AMS	100	SG	8.5	LB/100 GAL	PRE										
9 ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP										
9 AMS	100	SG	17	LB/100 GAL	LP										
10 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	68	73	72	88	0	68	73	72	88
10 STEEL	2.57	EC	0.964	LB A/A	PRE										
10 VALOR	50	WG	0.063	LB A/A	PRE										
10 AMS	100	SG	8.5	LB/100 GAL	PRE										
11 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	72	68	85	90	0	70	65	85	90
11 SQUADRON	2.33	EC	0.87	LB A/A	PRE										
11 VALOR	50	WG	0.063	LB A/A	PRE										
11 AMS	100	SG	8.5	LB/100 GAL	PRE										
12 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	90	83	88	92	0	87	82	88	92
12 PROWL	3.3	EC	1.05	LB A/A	PRE										
12 VALOR	50	WG	0.063	LB A/A	PRE										
12 AMS	100	SG	8.5	LB/100 GAL	PRE										
12 PURSUIT	70	DF	0.063	LB A/A	MP										
12 SPREADER HF			0.25	% V/V	MP										
12 LIQUID N		L	1	QT/A	MP										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	CHEAL	XANST	SETFA	CHEAL	XANST	AMBTR	
							GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	
							INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	
							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
							P	P	P	P	P	P	P	P	
							0	0	0	0	0	0	0	0	
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg										
13 TOUCHDOWN 5	5	SL	1 LB	A/A	PRE	0	88	83	88	65	0	83	82	87	90
13 VALOR	50	WG	0.063 LB	A/A	PRE										
13 AMS	100	SG	8.5 LB/100	GAL	PRE										
13 RAPTOR	1	E	0.039 LB	A/A	MP										
13 SPREADER HF			0.25 %	V/V	MP										
13 LIQUID N		L	1 QT/A		MP										
14 TOUCHDOWN 5	5	SL	1 LB	A/A	PRE	0	93	93	95	95	0	90	88	90	92
14 WEEDONE LV4	3.8	E	0.5 LB	A/A	PRE										
14 AMS	100	SG	8.5 LB/100	GAL	PRE										
14 FUSION	2.66	EC	0.2 LB	A/A	MP										
14 FLEXSTAR	1.88	CS	0.3525 LB	A/A	MP										
14 MSO		L	1 QT/A		MP										
15 GRAMOXONE EXTRA	2.5	AS	0.625 LB	A/A	PRE	0	90	78	87	93	0	88	78	78	92
15 CANOPY XL															
15 AUTHORITY	75	DF	0.12 LB	A/A	PRE										
15 CLASSIC	25	DF	0.02 LB	A/A	PRE										
15 SPREADER HF			0.25 %	V/V	PRE										
15 FUSION	2.66	EC	0.2 LB	A/A	MP										
15 FLEXSTAR	1.88	CS	0.3525 LB	A/A	MP										
15 MSO		L	1 QT/A		MP										
16 EXTREME	2.17	EC	0.813 LB	A/A	PRE	0	90	93	93	90	0	87	90	87	90
16 SPREADER HF			0.125 %	V/V	PRE										
16 AMS	100	SG	12 LB/100	GAL	PRE										
16 SYNCHRONY STS	42	DF	0.013 LB	A/A	MP										
16 MSO		L	1 QT/A		MP										
16 LIQUID N		L	1 QT/A		MP										
17 TOUCHDOWN 5	5	SL	1 LB	A/A	PRE	0	95	95	95	95	0	87	90	87	95
17 AMS	100	SG	8.5 LB/100	GAL	PRE										
17 RAPTOR	1	E	0.039 LB	A/A	MP										
17 SYNCHRONY STS	42	DF	0.013 LB	A/A	MP										
17 MSO		L	1 QT/A		MP										
17 LIQUID N		L	1 QT/A		MP										
18 ROUNDUP ULTRA	4	AS	1 LB	A/A	PRE	0	95	95	95	95	0	92	90	90	92
18 AMS	100	SG	17 LB/100	GAL	PRE										
18 ROUNDUP ULTRAMAX	5	SL	1 LB	A/A	LP										
18 FIRSTRATE	84	W	0.016 LB	A/A	LP										
18 AMS	100	SG	17 LB/100	GAL	LP										



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Weed Code	SETFA	AMBTR	CHEAL	XANST	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA				GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	77	67	78	90	0	73	67	72	90
19 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	77	67	78	90	0	73	67	72	90
19 AMS	100	SG	17	LB/100 GAL	PRE										
19 SELECT	2	EC	0.094	LB A/A	MP										
19 SYNCHRONY STS	42	DF	0.004	LB A/A	MP										
19 COC		L	1	QT/A	MP										
19 AMS	100	SG	2.5	LB A/A	MP										
20 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	65	48	77	90	0	65	48	77	90
20 AMS	100	SG	17	LB/100 GAL	PRE										
20 SELECT	2	EC	0.125	LB A/A	MP										
20 SYNCHRONY STS	42	DF	0.004	LB A/A	MP										
20 COC		L	1	QT/A	MP										
20 AMS	100	SG	2.5	LB A/A	MP										
LSD (P=.05)						1.1	14.3	13.6	11.6	18.0	1.1	15.3	13.6	12.7	4.2
Standard Deviation						0.6	8.7	8.3	7.0	10.9	0.6	9.2	8.2	7.7	2.5
CV						774.6	10.07	9.99	7.94	11.97	774.6	11.27	10.29	9.02	2.77

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NO-TILL SOYBEAN FULL SEASON

Trial ID: S0020

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT			
Trt-Eval Interval	8 WEEK 8 WEEK 8 WEEK 8 WEEK 8 WEEK			
ARM Action Codes	P P P P P			
# Subsamples, Dec.	0 0 0 0 0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg				
1	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	85	90
1	AMS	100	SG	8.5	LB/100 GAL	PRE				
1	EXTREME	2.17	EC	0.813	LB A/A	LP				
1	SPREADER HF			0.125	% V/V	LP				
1	AMS	100	SG	12	LB/100 GAL	LP				
2	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	77	65	82
2	AMS	100	SG	8.5	LB/100 GAL	PRE				
2	RAPTOR	1	E	0.008	LB A/A	MP				
2	SPREADER HF			0.25	% V/V	MP				
2	LIQUID N		L	1	QT/A	MP				
3	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	80	82	87
3	AMS	100	SG	8.5	LB/100 GAL	PRE				
3	RAPTOR	1	E	0.039	LB A/A	MP				
3	SPREADER HF			0.25	% V/V	MP				
3	LIQUID N		L	1	QT/A	MP				
4	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	80	75	87
4	PROWL	3.3	EC	1.05	LB A/A	PRE				
4	AMS	100	SG	8.5	LB/100 GAL	PRE				
4	PURSUIT	70	DF	0.063	LB A/A	MP				
4	FIRSTRATE	84	W	0.008	LB A/A	MP				
4	SPREADER HF			0.25	% V/V	MP				
4	LIQUID N		L	1	QT/A	MP				
5	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	88	90
5	PROWL	3.3	EC	1.05	LB A/A	PRE				
5	AMS	100	SG	8.5	LB/100 GAL	PRE				
5	RAPTOR	1	E	0.039	LB A/A	MP				
5	FIRSTRATE	84	W	0.008	LB A/A	MP				
5	SPREADER HF			0.25	% V/V	MP				
5	LIQUID N		L	1	QT/A	MP				

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

Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT			
Trt-Eval Interval	8 WEEK 8 WEEK 8 WEEK 8 WEEK 8 WEEK			
ARM Action Codes	P P P P P			
# Subsamples, Dec.	0 0 0 0 0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	82	87	90	88
6	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	82	87	90	88
6	PROWL	3.3	EC	1.05	LB A/A	PRE					
6	AMS	100	SG	8.5	LB/100 GAL	PRE					
6	RAPTOR	1	E	0.039	LB A/A	MP					
6	FLEXSTAR	1.88	CS	0.132	LB A/A	MP					
6	SPREADER HF			0.25	% V/V	MP					
6	LIQUID N		L	1	QT/A	MP					
7	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	83	90	90	90
7	AMS	100	SG	8.5	LB/100 GAL	PRE					
7	RAPTOR	1	E	0.039	LB A/A	MP					
7	FLEXSTAR	1.88	CS	0.132	LB A/A	MP					
7	SPREADER HF			0.25	% V/V	MP					
7	LIQUID N		L	1	QT/A	MP					
8	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	88	90	87	92
8	STEEL	2.57	EC	0.964	LB A/A	PRE					
8	AMS	100	SG	8.5	LB/100 GAL	PRE					
8	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP					
8	AMS	100	SG	17	LB/100 GAL	LP					
9	TOUCHDOWN	5	SL	1	LB A/A	PRE	2	88	87	90	90
9	SQUADRON	2.33	EC	0.87	LB A/A	PRE					
9	AMS	100	SG	8.5	LB/100 GAL	PRE					
9	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP					
9	AMS	100	SG	17	LB/100 GAL	LP					
10	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	68	73	72	90
10	STEEL	2.57	EC	0.964	LB A/A	PRE					
10	VALOR	50	WG	0.063	LB A/A	PRE					
10	AMS	100	SG	8.5	LB/100 GAL	PRE					
11	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	70	65	85	90
11	SQUADRON	2.33	EC	0.87	LB A/A	PRE					
11	VALOR	50	WG	0.063	LB A/A	PRE					
11	AMS	100	SG	8.5	LB/100 GAL	PRE					
12	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	87	82	88	88
12	PROWL	3.3	EC	1.05	LB A/A	PRE					
12	VALOR	50	WG	0.063	LB A/A	PRE					
12	AMS	100	SG	8.5	LB/100 GAL	PRE					
12	PURSUIT	70	DF	0.063	LB A/A	MP					
12	SPREADER HF			0.25	% V/V	MP					
12	LIQUID N		L	1	QT/A	MP					

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg					
13 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	83	82	87	90
13 VALOR	50	WG	0.063	LB A/A	PRE					
13 AMS	100	SG	8.5	LB/100 GAL	PRE					
13 RAPTOR	1	E	0.039	LB A/A	MP					
13 SPREADER HF			0.25	% V/V	MP					
13 LIQUID N		L	1	QT/A	MP					
14 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	90	88	90	90
14 WEEDONE LV4	3.8	E	0.5	LB A/A	PRE					
14 AMS	100	SG	8.5	LB/100 GAL	PRE					
14 FUSION	2.66	EC	0.2	LB A/A	MP					
14 FLEXSTAR	1.88	CS	0.3525	LB A/A	MP					
14 MSO		L	1	QT/A	MP					
15 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE	0	88	78	78	90
15 CANOPY XL										
15 AUTHORITY	75	DF	0.12	LB A/A	PRE					
15 CLASSIC	25	DF	0.02	LB A/A	PRE					
15 SPREADER HF			0.25	% V/V	PRE					
15 FUSION	2.66	EC	0.2	LB A/A	MP					
15 FLEXSTAR	1.88	CS	0.3525	LB A/A	MP					
15 MSO		L	1	QT/A	MP					
16 EXTREME	2.17	EC	0.813	LB A/A	PRE	0	87	90	87	88
16 SPREADER HF			0.125	% V/V	PRE					
16 AMS	100	SG	12	LB/100 GAL	PRE					
16 SYNCHRONY STS	42	DF	0.013	LB A/A	MP					
16 MSO		L	1	QT/A	MP					
16 LIQUID N		L	1	QT/A	MP					
17 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	90	87	87
17 AMS	100	SG	8.5	LB/100 GAL	PRE					
17 RAPTOR	1	E	0.039	LB A/A	MP					
17 SYNCHRONY STS	42	DF	0.013	LB A/A	MP					
17 MSO		L	1	QT/A	MP					
17 LIQUID N		L	1	QT/A	MP					
18 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	92	90	90	90
18 AMS	100	SG	17	LB/100 GAL	PRE					
18 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
18 FIRSTRATE	84	W	0.016	LB A/A	LP					
18 AMS	100	SG	17	LB/100 GAL	LP					

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	CHEAL	XANST	AMBTR	
19 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	73	67	72	90
19 AMS	100	SG	17	LB/100 GAL	PRE					
19 SELECT	2	EC	0.094	LB A/A	MP					
19 SYNCHRONY STS	42	DF	0.004	LB A/A	MP					
19 COC	L		1	QT/A	MP					
19 AMS	100	SG	2.5	LB A/A	MP					
20 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	65	48	77	90
20 AMS	100	SG	17	LB/100 GAL	PRE					
20 SELECT	2	EC	0.125	LB A/A	MP					
20 SYNCHRONY STS	42	DF	0.004	LB A/A	MP					
20 COC	L		1	QT/A	MP					
20 AMS	100	SG	2.5	LB A/A	MP					
LSD (P=.05)						1.1	15.3	13.6	12.7	2.4
Standard Deviation						0.6	9.2	8.2	7.7	1.5
CV						774.6	11.27	10.29	9.02	1.62

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NO-TILL SOYBEAN FULL SEASON

Trial ID: S0020 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

City: LEXINGTON Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546 Initiation Date: 05-04-00  
Country: USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

Crop 1: GLYMA SOYBEAN Variety: AG4501  
Planting Date: 05-04-00 Planting Method: DRILLED  
Rate: 20000 S/A Depth: 1.25 IN  
Row Spacing: 7.5 IN Seed Bed: NO-TILL  
Soil Temperature: 65 F Soil Moisture: ADEQUATE Emergence Date: 05-12-00

**SITE AND DESIGN**

Plot Width, Unit: 6.66 FT Plot Length, Unit: 33 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

% Sand: 6	% OM: 4.8	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: LANTON
% Clay: 30	CEC: 27	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: SPINDLETOP

Distance: 1.5 Unit: MI

**APPLICATION DESCRIPTION**

Application Date:	A	B	C
	05-04-00	05-20-00	06-20-00

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Time of Day:	10:00	2:00	1:00
Application Method:	ATV	BACKPACK	BACKPACK
Application Timing:	PRE	MP	LP
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	65 F	58 F	80 F
% Relative Humidity:	70	72	75
Wind Velocity, Unit:	2 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	64 F	65 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	GLYMA PRE	GLYMA MP	GLYMA LP
Stage Scale:		4 LF	8 LF
Height, Unit:		6 IN	12 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP
Stage Scale:		4 LF	7 LF
Density, Unit:		4 IN	7 IN
Weed 2 Code, Stage:	AMBTR	AMBTR	AMBTR
Stage Scale:		4 LF	8 LF
Density, Unit:		5 IN	8 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:		6 LF	8 LF
Density, Unit:		4 IN	8 IN
Weed 4 Code, Stage:	XANST	XANST	XANST
Stage Scale:		3 LF	6 LF
Density, Unit:		5 IN	8 IN

**APPLICATION EQUIPMENT**

	A	B	C
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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2

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Weed Science Field Research

NO-TILL FULL SEASON II

Trial ID: S0022  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	CHEAL	IPOSS	AMBTR	SETFA	CHEAL	IPOSS	AMBTR
Crop Code	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg	GLYMA INJURY	SETFA CONTROL	CHEAL CONTROL	IPOSS CONTROL	AMBTR CONTROL	GLYMA INJURY	SETFA CONTROL	CHEAL CONTROL	IPOSS CONTROL	AMBTR CONTROL
1	AIM	40	DF	0.008	LB A/A	PRE	0	92	93	90	93	0	92	92	90	93
1	WEEDONE LV4	3.8	E	0.5	LB A/A	PRE										
1	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE										
1	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
1	AMS	100	SG	2	% W/W	LP										
2	AIM	40	DF	0.008	LB A/A	PRE	0	93	92	90	93	0	93	90	90	93
2	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE										
2	COC	L		1	QT/A	PRE										
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
2	AMS	100	SG	2	% W/W	LP										
3	AIM	40	DF	0.008	LB A/A	PRE	0	93	93	90	93	0	93	92	90	93
3	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE										
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
3	AMS	100	SG	2	% W/W	LP										
4	AIM	40	DF	0.008	LB A/A	PRE	2	90	95	88	90	0	90	93	88	90
4	COC	L		1	QT/A	PRE										
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
4	AMS	100	SG	2	% W/W	LP										
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE	0	92	93	90	92	0	92	93	90	92
5	AMS	100	SG	2	% W/W	PRE										
5	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
5	AMS	100	SG	2	% W/W	LP										
6	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE	0	92	93	92	93	0	92	93	92	92
6	COC	L		1	QT/A	PRE										
6	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
6	AMS	100	SG	2	% W/W	LP										
7	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	95	90	93	0	90	92	90	93
7	AMS	100	SG	8.5	LB/100 GAL	PRE										
7	TOUCHDOWN	4	AS	1	LB A/A	LP										
7	AMS	100	SG	8.5	LB/100 GAL	LP										



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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	IPOSS	AMBTR	SETFA	CHEAL	IPOSS	AMBTR
							GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK
							P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK
8 TOUCHDOWN	4	AS	1 LB A/A	PRE	0	90	95	90	95	0	90	93	90	95
8 AMS	100	SG	8.5 LB/100	GAL PRE										
8 ROUNDUP ULTRA	4	AS	1 LB A/A	LP										
8 AMS	100	SG	8.5 LB/100	GAL LP										
9 TOUCHDOWN	4	AS	1 LB A/A	PRE	0	92	95	92	95	0	92	95	92	95
9 AMS	100	SG	8.5 LB/100	GAL PRE										
9 ROUNDUP ULTRA	4	AS	1 LB A/A	LP										
10 TOUCHDOWN	4	AS	1 LB A/A	PRE	0	90	93	90	95	0	90	93	90	95
10 AMS	100	SG	8.5 LB/100	GAL PRE										
10 TOUCHDOWN	4	AS	1 LB A/A	LP										
11 TOUCHDOWN	4	AS	1 LB A/A	PRE	5	93	95	93	95	2	93	92	92	95
11 AMS	100	SG	8.5 LB/100	GAL PRE										
11 TOUCHDOWN	4	AS	1 LB A/A	LP										
11 FLEXSTAR	1.88	CS	0.12 LB A/A	LP										
11 COC	L		0.5 QT/A	LP										
11 AMS	100	SG	8.5 LB/100	GAL LP										
12 TOUCHDOWN	4	AS	1 LB A/A	PRE	7	93	95	93	95	2	93	95	93	95
12 AMS	100	SG	8.5 LB/100	GAL PRE										
12 TOUCHDOWN	4	AS	1 LB A/A	LP										
12 FLEXSTAR	1.88	CS	0.18 LB A/A	LP										
12 COC	L		0.5 QT/A	LP										
12 AMS	100	SG	8.5 LB/100	GAL LP										
13 STEEL	2.57	EC	0.97 LB A/A	PRE	0	95	97	92	97	0	95	95	92	95
13 TOUCHDOWN	4	AS	1 LB A/A	PRE										
13 TOUCHDOWN	4	AS	1 LB A/A	LP										
13 AMS	100	SG	8.5 LB/100	GAL LP										
14 STEEL	2.57	EC	0.97 LB A/A	PRE	0	95	97	92	97	0	95	93	92	95
14 TOUCHDOWN	4	AS	1 LB A/A	PRE										
14 TOUCHDOWN	4	AS	1 LB A/A	LP										
15 VALOR	50	WG	0.063 LB A/A	PRE	0	93	97	92	97	0	93	95	90	93
15 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE										
15 AMS	100	SG	2 % W/W	PRE										
15 ROUNDUP ULTRA	4	AS	1 LB A/A	LP										
15 AMS	100	SG	2 % W/W	LP										

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Weed Science Field Research

Weed Code	SETFA	CHEAL	IPOSS	AMBTR	SETFA	CHEAL	IPOSS	AMBTR
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA	
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	SETFA	CHEAL	IPOSS	AMBTR	SETFA	CHEAL	IPOSS	AMBTR		
16 VALOR	50	WG	0.094	LB A/A	PRE	0	93	95	92	95	0	93	95	90	93
16 ROUNDUP ULTRA	4	AS		1 LB A/A	PRE										
16 AMS	100	SG		2 % W/W	PRE										
16 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
16 AMS	100	SG		2 % W/W	LP										
17 V-10080	4.25	SC	1.063	LB A/A	PRE	3	92	93	90	92	3	92	92	90	92
17 COC		L		1 QT/A	PRE										
17 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
17 AMS	100	SG		2 % W/W	LP										
18 ROUNDUP ULTRA	4	AS		1 LB A/A	PRE	0	92	95	90	95	0	92	95	90	95
18 AMS	100	SG		2 % W/W	PRE										
18 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
18 AMS	100	SG		2 % W/W	LP										
19 V-10081	4.25	SC	1.06	LB A/A	PRE	0	92	93	88	93	0	92	92	88	93
19 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
19 AMS	100	SG		2 % W/W	LP										
20 ROUNDUP ULTRA	4	AS		1 LB A/A	PRE	0	92	95	93	95	0	92	95	93	95
20 WEEDONE LV4	3.8	E		0.5 LB A/A	PRE										
20 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
20 AMS	100	SG		2 % W/W	LP										
LSD (P=.05)						2.7	4.2	3.5	3.5	4.1	2.6	4.2	3.8	3.1	3.5
Standard Deviation						1.6	2.6	2.1	2.1	2.5	1.6	2.6	2.3	1.9	2.2
CV						193.85	2.77	2.26	2.35	2.67	472.26	2.77	2.44	2.07	2.3

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

NO-TILL FULL SEASON II

Trial ID: S0022  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	CHEAL	IPOSS	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
1	AIM	40	DF	0.008	LB A/A	PRE	0	90	92	90	.93
1	WEEDONE LV4	3.8	E	0.5	LB A/A	PRE					
1	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE					
1	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
1	AMS	100	SG	2	% W/W	LP					
2	AIM	40	DF	0.008	LB A/A	PRE	0	92	90	90	93
2	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE					
2	COC	L		1	QT/A	PRE					
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
2	AMS	100	SG	2	% W/W	LP					
3	AIM	40	DF	0.008	LB A/A	PRE	0	90	92	90	93
3	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE					
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
3	AMS	100	SG	2	% W/W	LP					
4	AIM	40	DF	0.008	LB A/A	PRE	0	90	93	87	90
4	COC	L		1	QT/A	PRE					
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
4	AMS	100	SG	2	% W/W	LP					
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE	0	90	93	88	92
5	AMS	100	SG	2	% W/W	PRE					
5	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
5	AMS	100	SG	2	% W/W	LP					
6	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE	0	92	93	90	92
6	COC	L		1	QT/A	PRE					
6	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
6	AMS	100	SG	2	% W/W	LP					
7	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	92	85	93
7	AMS	100	SG	8.5	LB/100 GAL	PRE					
7	TOUCHDOWN	4	AS	1	LB A/A	LP					
7	AMS	100	SG	8.5	LB/100 GAL	LP					

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

Weed Code		SETFA	CHEAL	IPOSS	AMBTR
Crop Code		GLYMA			
Rating Data Type		INJURY CONTROL CONTROL CONTROL CONTROL			
Rating Unit		PERCENT PERCENT PERCENT PERCENT PERCENT			
Trt-Eval Interval		8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS 8 WEEKS			
ARM Action Codes		P P P P P			
# Subsamples, Dec.		0 0 0 0 0			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
8	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	93	87	95
8	AMS	100	SG	8.5	LB/100 GAL	PRE					
8	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
8	AMS	100	SG	8.5	LB/100 GAL	LP					
9	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	92	95	87	95
9	AMS	100	SG	8.5	LB/100 GAL	PRE					
9	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
10	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	93	90	95
10	AMS	100	SG	8.5	LB/100 GAL	PRE					
10	TOUCHDOWN	4	AS	1	LB A/A	LP					
11	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	92	92	90	95
11	AMS	100	SG	8.5	LB/100 GAL	PRE					
11	TOUCHDOWN	4	AS	1	LB A/A	LP					
11	FLEXSTAR	1.88	CS	0.12	LB A/A	LP					
11	COC	L		0.5	QT/A	LP					
11	AMS	100	SG	8.5	LB/100 GAL	LP					
12	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	93	95	88	95
12	AMS	100	SG	8.5	LB/100 GAL	PRE					
12	TOUCHDOWN	4	AS	1	LB A/A	LP					
12	FLEXSTAR	1.88	CS	0.18	LB A/A	LP					
12	COC	L		0.5	QT/A	LP					
12	AMS	100	SG	8.5	LB/100 GAL	LP					
13	STEEL	2.57	EC	0.97	LB A/A	PRE	0	93	95	90	95
13	TOUCHDOWN	4	AS	1	LB A/A	PRE					
13	TOUCHDOWN	4	AS	1	LB A/A	LP					
13	AMS	100	SG	8.5	LB/100 GAL	LP					
14	STEEL	2.57	EC	0.97	LB A/A	PRE	0	95	93	90	95
14	TOUCHDOWN	4	AS	1	LB A/A	PRE					
14	TOUCHDOWN	4	AS	1	LB A/A	LP					
15	VALOR	50	WG	0.063	LB A/A	PRE	0	92	95	90	93
15	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
15	AMS	100	SG	2	% W/W	PRE					
15	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
15	AMS	100	SG	2	% W/W	LP					

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Weed Code		SETFA	CHEAL	IPOSS	AMBTR
Crop Code		GLYMA			
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes		P	P	P	P
# Subsamples, Dec.		0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
16 VALOR	50	WG	0.094	LB A/A	PRE	0	92	95	88	93
16 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
16 AMS	100	SG	2	% W/W	PRE					
16 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
16 AMS	100	SG	2	% W/W	LP					
17 V-10080	4.25	SC	1.063	LB A/A	PRE	2	90	92	88	92
17 COC		L	1	QT/A	PRE					
17 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
17 AMS	100	SG	2	% W/W	LP					
18 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	90	95	90	95
18 AMS	100	SG	2	% W/W	PRE					
18 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
18 AMS	100	SG	2	% W/W	LP					
19 V-10081	4.25	SC	1.06	LB A/A	PRE	0	90	92	88	93
19 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
19 AMS	100	SG	2	% W/W	LP					
20 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	92	95	92	95
20 WEEDONE LV4	3.8	E	0.5	LB A/A	PRE					
20 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
20 AMS	100	SG	2	% W/W	LP					
LSD (P=.05)			1.1				3.7	3.8	3.2	3.5
Standard Deviation			0.6				2.3	2.3	1.9	2.2
CV			774.6				2.48	2.44	2.15	2.3

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NO-TILL FULL SEASON II

Trial ID: S0022 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546 **Initiation Date:** 05-04-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

**Crop 1:** GLXMA SOYBEAN **Variety:** AG4501  
**Planting Date:** 05-04-00 **Planting Method:** DRILLED  
**Rate:** 200000 S/A **Depth:** 1.25 IN  
**Row Spacing:** 7.5 IN **Seed Bed:** MEDIUM  
**Soil Temperature:** 66 F **Soil Moisture:** NORMAL **Emergence Date:** 05-11-00

**SITE AND DESIGN**

**Plot Width, Unit:** 6.66 FT **Plot Length, Unit:** 33 FT **Reps:** 3  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL-TILL **Study Design:** SPLIT-BLOCK

**SOIL DESCRIPTION**

% Sand: 7	% OM: 4.0	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: LANTON
% Clay: 30	CEC: 22	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP **Distance:** 1.5 **Unit:** MI

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	05-04-00	06-20-00

Time of Day:	10:00	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	LP
Applic. Placement:	BROSOI	BROFOI
Air Temp., Unit:	68 F	72 F
% Relative Humidity:	60	71
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	67 F	71 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA PRE	GLXMA LP
Stage Scale:		4 TRIFOL
Height, Unit:		10 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA LP
Stage Scale:		4 LF
Density, Unit:		7 IN
Weed 2 Code, Stage:	CHEAL	CHEAL
Stage Scale:		6 LF
Density, Unit:		6 IN
Weed 3 Code, Stage:	IPOSS	IPOSS
Stage Scale:		10 LF
Density, Unit:		6 IN
Weed 4 Code, Stage:	AMBTR	AMBTR
Stage Scale:		6 LF
Density, Unit:		8 IN

## APPLICATION EQUIPMENT

	A	B
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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

NO-TILL SOYBEAN FULL SEASON III

Trial ID: S0036

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	XANST	AMBTR	SETFA	CHEAL	XANST	AMBTR	
							GLYMA INJURY CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA INJURY CONTROL PERCENT	GLYMA INJURY 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									
1	ROUNDUP ULTRA	4 AS		1 LB A/A	LP		0	95	95	95	95	0	95	95	95
1	AMS	100 SG		1.5 % W/W	LP										
2	ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP		0	95	95	95	95	0	95	95	95
2	AMS	100 SG		1.5 % W/W	LP										
3	ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP		0	93	95	95	95	0	93	95	95
3	AMS	100 SG		1.5 % W/W	LP										
3	ROUNDUP ULTRAMAX	5 SL		0.75 LB A/A	REG										
3	AMS	100 SG		1.5 % W/W	REG										
4	ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP		0	92	95	95	95	0	92	95	95
4	FIRSTRATE	84 W		0.015 LB A/A	LP										
4	AMS	100 SG		1.5 % W/W	LP										
5	ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP		0	93	95	95	95	0	93	95	95
5	CLASSIC	25 DF		0.008 LB A/A	LP										
5	AMS	100 SG		1.5 % W/W	LP										
6	TOUCHDOWN 5	5 SL		1 LB A/A	LP		0	95	95	95	95	0	95	95	95
6	AMS	100 SG		8.5 LB/100 GAL	LP										
6	SPREADER HF			0.25 % V/V	LP										
7	TOUCHDOWN	4 AS		1 LB A/A	LP		0	95	95	95	95	0	95	95	95
7	AMS	100 SG		8.5 LB/100 GAL	LP										
8	TOUCHDOWN	4 AS		1 LB A/A	LP		0	92	95	95	95	0	92	95	95
8	AMS	100 SG		8.5 LB/100 GAL	LP										
8	TOUCHDOWN	4 AS		0.75 LB A/A	REG										
8	AMS	100 SG		8.5 LB/100 GAL	REG										
9	TOUCHDOWN	4 AS		1 LB A/A	LP		0	95	95	95	95	0	95	95	95
9	PURSUIT	70 DF		0.032 LB A/A	LP										
9	AMS	100 SG		8.5 LB/100 GAL	LP										
10	TOUCHDOWN	4 AS		1 LB A/A	LP		0	93	95	95	95	0	93	95	95
10	CLASSIC	25 DF		0.008 LB A/A	LP										
10	AMS	100 SG		8.5 LB/100 GAL	LP										



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Weed Code	SETFA	CHEAL	XANST	AMBTR	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA	
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg	SETFA	CHEAL	XANST	AMBTR	SETFA	CHEAL	XANST	AMBTR
11	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	2WAP	0	93	95	95	0	93	95	95
11	AMS	100	SG	1.5	% W/W	2WAP								
12	TOUCHDOWN	4	AS	1	LB A/A	2WAP	0	93	95	95	0	93	95	95
12	AMS	100	SG	8.5	LB/100 GAL	2WAP								
13	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	3WAP	0	95	95	95	0	95	95	95
13	AMS	100	SG	1.5	% W/W	3WAP								
14	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	93	95	95	0	93	95	95
14	AMS	100	SG	8.5	LB/100 GAL	PRE								
14	TOUCHDOWN	4	AS	1	LB A/A	3WAP								
14	AMS	100	SG	8.5	LB/100 GAL	3WAP								
15	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	4WAP	0	95	95	95	0	95	95	95
15	AMS	100	SG	1.5	% W/W	4WAP								
16	TOUCHDOWN	4	AS	1	LB A/A	4WAP	0	95	95	95	0	95	95	95
16	AMS	100	SG	8.5	LB/100 GAL	4WAP								
17	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	5WAP	0	93	95	95	0	93	95	95
17	AMS	100	SG	1.5	% W/W	5WAP								
18	TOUCHDOWN	4	AS	1	LB A/A	5WAP	0	95	95	95	0	95	95	95
18	AMS	100	SG	8.5	LB/100 GAL	5WAP								
19	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	6WAP	0	95	95	95	0	95	95	95
19	AMS	100	SG	1.5	% W/W	6WAP								
20	TOUCHDOWN	4	AS	1	LB A/A	6WAP	0	93	95	95	0	93	95	95
20	AMS	100	SG	8.5	LB/100 GAL	6WAP								
LSD (P=.05)							0.0	3.3	0.0	0.0	0.0	3.3	0.0	0.0
Standard Deviation							0.0	2.0	0.0	0.0	0.0	2.0	0.0	0.0
CV							0.0	2.11	0.0	0.0	0.0	2.11	0.0	0.0

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NO-TILL SOYBEAN FULL SEASON III

Trial ID: S0036

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	SETFA	CHEAL	XANST	AMBTR
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP	0	95	95	95
1	AMS	100	SG	1.5	% W/W	LP				
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	95	95	95
2	AMS	100	SG	1.5	% W/W	LP				
3	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	95	95
3	AMS	100	SG	1.5	% W/W	LP				
3	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	REG				
3	AMS	100	SG	1.5	% W/W	REG				
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	92	95	95
4	FIRSTRATE	84	W	0.015	LB A/A	LP				
4	AMS	100	SG	1.5	% W/W	LP				
5	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	93	95	95
5	CLASSIC	25	DF	0.008	LB A/A	LP				
5	AMS	100	SG	1.5	% W/W	LP				
6	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	95	95	95
6	AMS	100	SG	8.5	LB/100	GAL LP				
6	SPREADER HF			0.25	% V/V	LP				
7	TOUCHDOWN	4	AS	1	LB A/A	LP	0	95	95	95
7	AMS	100	SG	8.5	LB/100	GAL LP				
8	TOUCHDOWN	4	AS	1	LB A/A	LP	0	92	95	95
8	AMS	100	SG	8.5	LB/100	GAL LP				
8	TOUCHDOWN	4	AS	0.75	LB A/A	REG				
8	AMS	100	SG	8.5	LB/100	GAL REG				
9	TOUCHDOWN	4	AS	1	LB A/A	LP	0	95	95	95
9	PURSUIT	70	DF	0.032	LB A/A	LP				
9	AMS	100	SG	8.5	LB/100	GAL LP				
10	TOUCHDOWN	4	AS	1	LB A/A	LP	0	93	95	95
10	CLASSIC	25	DF	0.008	LB A/A	LP				
10	AMS	100	SG	8.5	LB/100	GAL LP				

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg				
11	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	2WAP	0	93	95	95
11	AMS	100	SG	1.5	% W/W	2WAP				
12	TOUCHDOWN	4	AS	1	LB A/A	2WAP	0	93	95	95
12	AMS	100	SG	8.5	LB/100 GAL	2WAP				
13	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	3WAP	0	95	95	95
13	AMS	100	SG	1.5	% W/W	3WAP				
14	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	93	95	95
14	AMS	100	SG	8.5	LB/100 GAL	PRE				
14	TOUCHDOWN	4	AS	1	LB A/A	3WAP				
14	AMS	100	SG	8.5	LB/100 GAL	3WAP				
15	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	4WAP	0	95	95	95
15	AMS	100	SG	1.5	% W/W	4WAP				
16	TOUCHDOWN	4	AS	1	LB A/A	4WAP	0	95	95	95
16	AMS	100	SG	8.5	LB/100 GAL	4WAP				
17	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	5WAP	0	93	95	95
17	AMS	100	SG	1.5	% W/W	5WAP				
18	TOUCHDOWN	4	AS	1	LB A/A	5WAP	0	95	95	95
18	AMS	100	SG	8.5	LB/100 GAL	5WAP				
19	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	6WAP	0	95	95	95
19	AMS	100	SG	1.5	% W/W	6WAP				
20	TOUCHDOWN	4	AS	1	LB A/A	6WAP	0	93	95	95
20	AMS	100	SG	8.5	LB/100 GAL	6WAP				
LSD (P=.05)							0.0	3.3	0.0	0.0
Standard Deviation							0.0	2.0	0.0	0.0
CV							0.0	2.11	0.0	0.0

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

## NO-TILL SOYBEAN FULL SEASON III

Trial ID: S0036 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546 Initiation Date: 05-04-00

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: GLXMA SOYBEAN Variety: AG4501  
Planting Date: 05-04-00 Planting Method: DRILL  
Rate: 190000 S/A Depth: 1.25 IN  
Row Spacing: 7.5 IN Seed Bed: ROUGH  
Soil Temperature: 65 F Soil Moisture: INADEQUATE Emergence Date: 05-18-00

## SITE AND DESIGN

Plot Width, Unit: 6.66 FT Plot Length, Unit: 33 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

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

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP Distance: 2 Unit: MI

## APPLICATION DESCRIPTION

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

	A	B	C	D	E	F	G	H
Application Date:	05-04-00	05-28-00	06-02-00	06-09-00	06-16-00	06-23-00	07-02-00	07-10-00
Time of Day:	10:00 AM	11:00 AM	1:00 PM	1:00 PM	12:00 PM	10:00 AM	9:00 AM	2:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2 WAP	3 WAP	4 WAP	5 WAP	6 WAP	LP	REG
Applic. Placement:	BROSOIL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	75 F	72 F	80 F	82 F	85 F	86 F	82 F	88 F
% Relative Humidity:	75	75	80	65	60	65	75	80
Wind Velocity, Unit:	3 MPH	3 MPH	4 MPH	3 MPH	5 MPH	2 MPH	1 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N	N	N	N	N
Soil Temp., Unit:	65 F	68 F	67 F	68 F	70 F	70 F	72 F	72 F
Soil Moisture:	INADEQUAT	ADEQUAETE	ADEQUATE	NORAMAL	NORMAL	NORAML	NORMAL	NORMAL
% Cloud Cover:	10	10	20	20	10	20	20	20

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	GLXMA PRE	GLXMA 2 WAP	GLXMA 3 WAP	GLXMA 4 WAP	GLXMA 5 WAP	GLXMA 6 WAP
	G	H				
Crop 1 Code, Stage:	GLXMA LP	GLXMA REG				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Weed 1 Code, Stage:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Weed 3 Code, Stage:	XANST	XANST	XANST	XANST	XANST	XANST	XANST	XANST
Weed 4 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR

APPLICATION EQUIPMENT

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

MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S0021 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

Weed Code	AMBTR	CHEAL	XANST	SETFA	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	AMBTR	CHEAL	XANST	SETFA	SETFA	CHEAL	XANST	AMBTR		
1	TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	92	88	93	93	0	87	85	90	90
1	AMS	100	SG	8.5 LB/100	GAL PRE											
1	EXTREME	2.17	EC	0.813 LB A/A	LP											
1	SPREADER HF			0.125 % V/V	LP											
1	AMS	100	SG	12 LB/100	GAL LP											
2	TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	77	67	82	90	0	77	65	82	90
2	AMS	100	SG	8.5 LB/100	GAL PRE											
2	RAPTOR	1	E	0.008 LB A/A	MP											
2	SPREADER HF			0.25 % V/V	MP											
2	LIQUID N		L	1 QT/A	MP											
3	TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	83	83	87	93	0	80	82	87	93
3	AMS	100	SG	8.5 LB/100	GAL PRE											
3	RAPTOR	1	E	0.039 LB A/A	MP											
3	SPREADER HF			0.25 % V/V	MP											
3	LIQUID N		L	1 QT/A	MP											
4	TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	87	75	87	92	0	80	75	87	92
4	PROWL	3.3	EC	1.05 LB A/A	PRE											
4	AMS	100	SG	8.5 LB/100	GAL PRE											
4	PURSUIT	70	DF	0.063 LB A/A	MP											
4	FIRSTRATE	84	W	0.008 LB A/A	MP											
4	SPREADER HF			0.25 % V/V	MP											
4	LIQUID N		L	1 QT/A	MP											
5	TOUCHDOWN 5	5	SL	1 LB A/A	PRE		0	95	92	95	95	0	87	88	90	92
5	PROWL	3.3	EC	1.05 LB A/A	PRE											
5	AMS	100	SG	8.5 LB/100	GAL PRE											
5	RAPTOR	1	E	0.039 LB A/A	MP											
5	FIRSTRATE	84	W	0.008 LB A/A	MP											
5	SPREADER HF			0.25 % V/V	MP											
5	LIQUID N		L	1 QT/A	MP											

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Weed Code	AMBTR	CHEAL	XANST	SETFA	GLYMA	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA	GLYMA
Rating Data Type	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	AMBTR	CHEAL	XANST	SETFA	GLYMA	SETFA	CHEAL	XANST	AMBTR	
6	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	90	92	95	0	82	87	90	93
6	PROWL	3.3	EC	1.05	LB A/A	PRE										
6	AMS	100	SG	8.5	LB/100 GAL	PRE										
6	RAPTOR	1	E	0.039	LB A/A	MP										
6	FLEXSTAR	1.88	CS	0.132	LB A/A	MP										
6	SPREADER HF			0.25	% V/V	MP										
6	LIQUID N		L	1	QT/A	MP										
7	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	92	93	93	93	0	83	90	90	92
7	AMS	100	SG	8.5	LB/100 GAL	PRE										
7	RAPTOR	1	E	0.039	LB A/A	MP										
7	FLEXSTAR	1.88	CS	0.132	LB A/A	MP										
7	SPREADER HF			0.25	% V/V	MP										
7	LIQUID N		L	1	QT/A	MP										
8	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	95	95	95	95	0	88	90	87	93
8	STEEL	2.57	EC	0.964	LB A/A	PRE										
8	AMS	100	SG	8.5	LB/100 GAL	PRE										
8	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP										
8	AMS	100	SG	17	LB/100 GAL	LP										
9	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	2	93	92	93	95	2	88	87	90	93
9	SQUADRON	2.33	EC	0.87	LB A/A	PRE										
9	AMS	100	SG	8.5	LB/100 GAL	PRE										
9	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP										
9	AMS	100	SG	17	LB/100 GAL	LP										
10	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	68	73	72	88	0	68	73	72	88
10	STEEL	2.57	EC	0.964	LB A/A	PRE										
10	VALOR	50	WG	0.063	LB A/A	PRE										
10	AMS	100	SG	8.5	LB/100 GAL	PRE										
11	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	72	68	85	90	0	70	65	85	90
11	SQUADRON	2.33	EC	0.87	LB A/A	PRE										
11	VALOR	50	WG	0.063	LB A/A	PRE										
11	AMS	100	SG	8.5	LB/100 GAL	PRE										
12	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	90	83	88	92	0	87	82	88	92
12	PROWL	3.3	EC	1.05	LB A/A	PRE										
12	VALOR	50	WG	0.063	LB A/A	PRE										
12	AMS	100	SG	8.5	LB/100 GAL	PRE										
12	PURSUIT	70	DF	0.063	LB A/A	MP										
12	SPREADER HF			0.25	% V/V	MP										
12	LIQUID N		L	1	QT/A	MP										

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	AMBTR	CHEAL	XANST	SETFA	GLYMA	SETFA	CHEAL	XANST	AMBTR
							INJURY PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	CONTROL PERCENT 2 WEEK	INJURY PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK	CONTROL PERCENT 4 WEEK
							P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg										
13 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	88	83	88	65	0	83	82	87	90
13 VALOR	50	WG	0.063	LB A/A	PRE										
13 AMS	100	SG	8.5	LB/100 GAL	PRE										
13 RAPTOR	1	E	0.039	LB A/A	MP										
13 SPREADER HF			0.25	% V/V	MP										
13 LIQUID N		L	1	QT/A	MP										
14 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	93	93	95	95	0	90	88	90	92
14 WEEDONE LV4	3.8	E	0.5	LB A/A	PRE										
14 AMS	100	SG	8.5	LB/100 GAL	PRE										
14 FUSION	2.66	EC	0.2	LB A/A	MP										
14 FLEXSTAR	1.88	CS	0.3525	LB A/A	MP										
14 MSO		L	1	QT/A	MP										
15 GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE	0	90	78	87	93	0	88	78	78	92
15 CANOPY XL															
15 AUTHORITY	75	DF	0.12	LB A/A	PRE										
15 CLASSIC	25	DF	0.02	LB A/A	PRE										
15 SPREADER HF			0.25	% V/V	PRE										
15 FUSION	2.66	EC	0.2	LB A/A	MP										
15 FLEXSTAR	1.88	CS	0.3525	LB A/A	MP										
15 MSO		L	1	QT/A	MP										
16 EXTREME	2.17	EC	0.813	LB A/A	PRE	0	90	93	93	90	0	87	90	87	90
16 SPREADER HF			0.125	% V/V	PRE										
16 AMS	100	SG	12	LB/100 GAL	PRE										
16 SYNCHRONY STS	42	DF	0.013	LB A/A	MP										
16 MSO		L	1	QT/A	MP										
16 LIQUID N		L	1	QT/A	MP										
17 TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	95	95	95	95	0	87	90	87	95
17 AMS	100	SG	8.5	LB/100 GAL	PRE										
17 RAPTOR	1	E	0.039	LB A/A	MP										
17 SYNCHRONY STS	42	DF	0.013	LB A/A	MP										
17 MSO		L	1	QT/A	MP										
17 LIQUID N		L	1	QT/A	MP										
18 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	95	95	95	95	0	92	90	90	92
18 AMS	100	SG	17	LB/100 GAL	PRE										
18 ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
18 FIRSTRATE	84	W	0.016	LB A/A	LP										
18 AMS	100	SG	17	LB/100 GAL	LP										



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				AMBTR	CHEAL	XANST	SETFA	GLYMA	SETFA	CHEAL	XANST	AMBTR			
Weed Code				GLYMA				GLYMA							
Crop Code				INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Data Type				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Unit				2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
Trt-Eval Interval				P	P	P	P	P	P	P	P	P			
ARM Action Codes				0	0	0	0	0	0	0	0	0			
# Subsamples, Dec.				0	0	0	0	0	0	0	0	0			
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg										
19 ROUNDUP ULTRA	4 AS		1 LB A/A		PRE	0	77	67	78	90	0	73	67	72	90
19 AMS	100 SG		17 LB/100	GAL	PRE										
19 SELECT	2 EC		0.094 LB A/A		MP										
19 SYNCHRONY STS	42 DF		0.004 LB A/A		MP										
19 COC	L		1 QT/A		MP										
19 AMS	100 SG		2.5 LB A/A		MP										
20 ROUNDUP ULTRA	4 AS		1 LB A/A		PRE	0	65	48	77	90	0	65	48	77	90
20 AMS	100 SG		17 LB/100	GAL	PRE										
20 SELECT	2 EC		0.125 LB A/A		MP										
20 SYNCHRONY STS	42 DF		0.004 LB A/A		MP										
20 COC	L		1 QT/A		MP										
20 AMS	100 SG		2.5 LB A/A		MP										
LSD (P=.05)						1.1	14.3	13.6	11.6	18.0	1.1	15.3	13.6	12.7	4.2
Standard Deviation						0.6	8.7	8.3	7.0	10.9	0.6	9.2	8.2	7.7	2.5
CV						774.6	10.07	9.99	7.94	11.97	774.6	11.27	10.29	9.02	2.77

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## MINIMUM TILL SOYBEAN FULL SEASON

Trial ID: S0021

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg					
1	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	85	90	90
1	AMS	100	SG	8.5	LB/100 GAL	PRE					
1	EXTREME	2.17	EC	0.813	LB A/A	LP					
1	SPREADER HF			0.125	% V/V	LP					
1	AMS	100	SG	12	LB/100 GAL	LP					
2	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	77	65	82	90
2	AMS	100	SG	8.5	LB/100 GAL	PRE					
2	RAPTOR	1	E	0.008	LB A/A	MP					
2	SPREADER HF			0.25	% V/V	MP					
2	LIQUID N		L	1	QT/A	MP					
3	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	80	82	87	90
3	AMS	100	SG	8.5	LB/100 GAL	PRE					
3	RAPTOR	1	E	0.039	LB A/A	MP					
3	SPREADER HF			0.25	% V/V	MP					
3	LIQUID N		L	1	QT/A	MP					
4	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	80	75	87	90
4	PROWL	3.3	EC	1.05	LB A/A	PRE					
4	AMS	100	SG	8.5	LB/100 GAL	PRE					
4	PURSUIT	70	DF	0.063	LB A/A	MP					
4	FIRSTRATE	84	W	0.008	LB A/A	MP					
4	SPREADER HF			0.25	% V/V	MP					
4	LIQUID N		L	1	QT/A	MP					
5	TOUCHDOWN 5	5	SL	1	LB A/A	PRE	0	87	88	90	90
5	PROWL	3.3	EC	1.05	LB A/A	PRE					
5	AMS	100	SG	8.5	LB/100 GAL	PRE					
5	RAPTOR	1	E	0.039	LB A/A	MP					
5	FIRSTRATE	84	W	0.008	LB A/A	MP					
5	SPREADER HF			0.25	% V/V	MP					
5	LIQUID N		L	1	QT/A	MP					

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
6	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	82	87	90	88
6	PROWL	3.3	EC	1.05	LB A/A	PRE					
6	AMS	100	SG	8.5	LB/100	GAL PRE					
6	RAPTOR	1	E	0.039	LB A/A	MP					
6	FLEXSTAR	1.88	CS	0.132	LB A/A	MP					
6	SPREADER HF			0.25	% V/V	MP					
6	LIQUID N		L	1	QT/A	MP					
7	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	83	90	90	90
7	AMS	100	SG	8.5	LB/100	GAL PRE					
7	RAPTOR	1	E	0.039	LB A/A	MP					
7	FLEXSTAR	1.88	CS	0.132	LB A/A	MP					
7	SPREADER HF			0.25	% V/V	MP					
7	LIQUID N		L	1	QT/A	MP					
8	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	88	90	87	92
8	STEEL	2.57	EC	0.964	LB A/A	PRE					
8	AMS	100	SG	8.5	LB/100	GAL PRE					
8	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP					
8	AMS	100	SG	17	LB/100	GAL LP					
9	TOUCHDOWN	5	SL	1	LB A/A	PRE	2	88	87	90	90
9	SQUADRON	2.33	EC	0.87	LB A/A	PRE					
9	AMS	100	SG	8.5	LB/100	GAL PRE					
9	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	LP					
9	AMS	100	SG	17	LB/100	GAL LP					
10	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	68	73	72	90
10	STEEL	2.57	EC	0.964	LB A/A	PRE					
10	VALOR	50	WG	0.063	LB A/A	PRE					
10	AMS	100	SG	8.5	LB/100	GAL PRE					
11	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	70	65	85	90
11	SQUADRON	2.33	EC	0.87	LB A/A	PRE					
11	VALOR	50	WG	0.063	LB A/A	PRE					
11	AMS	100	SG	8.5	LB/100	GAL PRE					
12	TOUCHDOWN	5	SL	1	LB A/A	PRE	0	87	82	88	88
12	PROWL	3.3	EC	1.05	LB A/A	PRE					
12	VALOR	50	WG	0.063	LB A/A	PRE					
12	AMS	100	SG	8.5	LB/100	GAL PRE					
12	PURSUIT	70	DF	0.063	LB A/A	MP					
12	SPREADER HF			0.25	% V/V	MP					
12	LIQUID N		L	1	QT/A	MP					

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Grow Stg					
13 TOUCHDOWN 5	5	SL	1 LB A/A	PRE	0	83	82	87	90
13 VALOR	50	WG	0.063 LB A/A	PRE					
13 AMS	100	SG	8.5 LB/100 GAL	PRE					
13 RAPTOR	1	E	0.039 LB A/A	MP					
13 SPREADER HF			0.25 % V/V	MP					
13 LIQUID N	L		1 QT/A	MP					
14 TOUCHDOWN 5	5	SL	1 LB A/A	PRE	0	90	88	90	90
14 WEEDONE LV4	3.8	E	0.5 LB A/A	PRE					
14 AMS	100	SG	8.5 LB/100 GAL	PRE					
14 FUSION	2.66	EC	0.2 LB A/A	MP					
14 FLEXSTAR	1.88	CS	0.3525 LB A/A	MP					
14 MSO	L		1 QT/A	MP					
15 GRAMOXONE EXTRA	2.5	AS	0.625 LB A/A	PRE	0	88	78	78	90
15 CANOPY XL									
15 AUTHORITY	75	DF	0.12 LB A/A	PRE					
15 CLASSIC	25	DF	0.02 LB A/A	PRE					
15 SPREADER HF			0.25 % V/V	PRE					
15 FUSION	2.66	EC	0.2 LB A/A	MP					
15 FLEXSTAR	1.88	CS	0.3525 LB A/A	MP					
15 MSO	L		1 QT/A	MP					
16 EXTREME	2.17	EC	0.813 LB A/A	PRE	0	87	90	87	88
16 SPREADER HF			0.125 % V/V	PRE					
16 AMS	100	SG	12 LB/100 GAL	PRE					
16 SYNCHRONY STS	42	DF	0.013 LB A/A	MP					
16 MSO	L		1 QT/A	MP					
16 LIQUID N	L		1 QT/A	MP					
17 TOUCHDOWN 5	5	SL	1 LB A/A	PRE	0	87	90	87	87
17 AMS	100	SG	8.5 LB/100 GAL	PRE					
17 RAPTOR	1	E	0.039 LB A/A	MP					
17 SYNCHRONY STS	42	DF	0.013 LB A/A	MP					
17 MSO	L		1 QT/A	MP					
17 LIQUID N	L		1 QT/A	MP					
18 ROUNDUP ULTRA	4	AS	1 LB A/A	PRE	0	92	90	90	90
18 AMS	100	SG	17 LB/100 GAL	PRE					
18 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	LP					
18 FIRSTRATE	84	W	0.016 LB A/A	LP					
18 AMS	100	SG	17 LB/100 GAL	LP					

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	CHEAL	XANST	AMBTR	
19 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	73	67	72	90
19 AMS	100	SG	17	LB/100 GAL	PRE					
19 SELECT	2	EC	0.094	LB A/A	MP					
19 SYNCHRONY STS	42	DF	0.004	LB A/A	MP					
19 COC	L		1	QT/A	MP					
19 AMS	100	SG	2.5	LB A/A	MP					
20 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	65	48	77	90
20 AMS	100	SG	17	LB/100 GAL	PRE					
20 SELECT	2	EC	0.125	LB A/A	MP					
20 SYNCHRONY STS	42	DF	0.004	LB A/A	MP					
20 COC	L		1	QT/A	MP					
20 AMS	100	SG	2.5	LB A/A	MP					
LSD (P=.05)						1.1	15.3	13.6	12.7	2.4
Standard Deviation						0.6	9.2	8.2	7.7	1.5
CV						774.6	11.27	10.29	9.02	1.62

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

Trial ID: S0021 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546 Initiation Date: 05-04-00  
Country: USA

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM

Crop 1: GLYMA SOYBEAN Variety: AG4501  
Planting Date: 05-04-00 Planting Method: DRILLED  
Rate: 20000 S/A Depth: 1.25 IN  
Row Spacing: 7.5 IN Seed Bed: NO-TILL  
Soil Temperature: 65 F Soil Moisture: ADEQUATE Emergence Date: 05-12-00

## SITE AND DESIGN

Plot Width, Unit: 6.66 FT Plot Length, Unit: 33 FT Reps: 3  
Site Type: FIELD  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

% Sand: 6	% OM: 4.8	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: LANTON
% Clay: 30	CEC: 27	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C
Application Date:	05-04-00	05-20-00	06-07-00

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Weed Science Field Research

Time of Day:	10:00 AM	2:00 PM	12:00 PM
Application Method:	ATV	BACKPACK	BACKPACK
Application Timing:	PRE	MP	LP
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	65 F	58 F	79 F
% Relative Humidity:	70	72	78
Wind Velocity, Unit:	3 MPH	4 MPH	2 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	64 F	65 F	69 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLYMA PRE	GLYMA MP	GLYMA LP
Stage Scale:		4 LF	8 LF
Height, Unit:		6 IN	10 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA PRE	SETFA MP	SETFA LP
Stage Scale:		4 LF	7 LF
Density, Unit:		4 IN	7 IN
Weed 2 Code, Stage:	AMBTR	AMBTR	AMBTR
Stage Scale:		4 LF	8 LF
Density, Unit:		5 IN	8 IN
Weed 3 Code, Stage:	CHEAL	CHEAL	CHEAL
Stage Scale:		6 LF	8 LF
Density, Unit:		4 IN	8 IN
Weed 4 Code, Stage:	XANST	XANST	XANST
Stage Scale:		3 LF	6 LF
Density, Unit:		5 IN	8 IN

## APPLICATION EQUIPMENT

	A	B	C
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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2

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MINIMUM TILL FULL SEASON II

Trial ID: S0023

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	AMBTR	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA		GLYMA		GLYMA		GLYMA	
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	Unit	Grow Stg	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT		
1	AIM	40	DF	0.008	LB A/A	PRE	0	93	83	90	95	0	90	83	90	93
1	WEEDONE LV4	3.8	E	0.5	LB A/A	PRE										
1	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE										
1	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
1	AMS	100	SG	2	% W/W	LP										
2	AIM	40	DF	0.008	LB A/A	PRE	0	92	87	88	95	0	90	87	88	95
2	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE										
2	COC	L		1	QT/A	PRE										
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
2	AMS	100	SG	2	% W/W	LP										
3	AIM	40	DF	0.008	LB A/A	PRE	0	95	85	85	95	0	90	85	85	95
3	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE										
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP										
3	AMS	100	SG	2	% W/W	LP										
4	AIM	40	DF	0.008	LB A/A	PRE	0	93	88	83	88	0	90	88	83	87
4	COC	L		1	QT/A	PRE										
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
4	AMS	100	SG	2	% W/W	LP										
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE	0	95	85	87	92	0	90	85	87	92
5	AMS	100	SG	2	% W/W	PRE										
5	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
5	AMS	100	SG	2	% W/W	LP										
6	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE	0	92	87	83	88	0	90	87	83	88
6	COC	L		1	QT/A	PRE										
6	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP										
6	AMS	100	SG	2	% W/W	LP										
7	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	92	83	87	95	0	90	83	87	95
7	AMS	100	SG	8.5	LB/100 GAL	PRE										
7	TOUCHDOWN	4	AS	1	LB A/A	LP										
7	AMS	100	SG	8.5	LB/100 GAL	LP										



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Weed Science Field Research

Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	Form Conc	Form Type	Rate Unit	Grow Stg	SETFA	IPOSS	CHEAL	AMBTR	SETFA	IPOSS	CHEAL	AMBTR		
					GLYMA					GLYMA				
					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	4 WEEK	4 WEEK		
	P	P	P	P	P	P	P	P	P	P	P	P		
	0	0	0	0	0	0	0	0	0	0	0	0		
8 TOUCHDOWN	4 AS	1 LB A/A	PRE	0	63	65	60	83	0	60	62	60	83	
8 AMS	100 SG	8.5 LB/100 GAL	PRE											
8 ROUNDUP ULTRA	4 AS	1 LB A/A	LP											
8 AMS	100 SG	8.5 LB/100 GAL	LP											
9 TOUCHDOWN	4 AS	1 LB A/A	PRE	0	72	70	55	83	0	72	68	55	83	
9 AMS	100 SG	8.5 LB/100 GAL	PRE											
9 ROUNDUP ULTRA	4 AS	1 LB A/A	LP											
10 TOUCHDOWN	4 AS	1 LB A/A	PRE	0	95	83	90	93	0	90	83	90	93	
10 AMS	100 SG	8.5 LB/100 GAL	PRE											
10 TOUCHDOWN	4 AS	1 LB A/A	LP											
11 TOUCHDOWN	4 AS	1 LB A/A	PRE	0	93	90	87	95	0	90	87	87	95	
11 AMS	100 SG	8.5 LB/100 GAL	PRE											
11 TOUCHDOWN	4 AS	1 LB A/A	LP											
11 FLEXSTAR	1.88 CS	0.12 LB A/A	LP											
11 COC	L	0.5 QT/A	LP											
11 AMS	100 SG	8.5 LB/100 GAL	LP											
12 TOUCHDOWN	4 AS	1 LB A/A	PRE	0	93	90	88	95	0	90	88	88	95	
12 AMS	100 SG	8.5 LB/100 GAL	PRE											
12 TOUCHDOWN	4 AS	1 LB A/A	LP											
12 FLEXSTAR	1.88 CS	0.18 LB A/A	LP											
12 COC	L	0.5 QT/A	LP											
12 AMS	100 SG	8.5 LB/100 GAL	LP											
13 STEEL	2.57 EC	0.97 LB A/A	PRE	0	95	92	88	95	0	90	90	88	95	
13 TOUCHDOWN	4 AS	1 LB A/A	PRE											
13 TOUCHDOWN	4 AS	1 LB A/A	LP											
13 AMS	100 SG	8.5 LB/100 GAL	LP											
14 STEEL	2.57 EC	0.97 LB A/A	PRE	0	95	90	92	95	0	90	90	92	93	
14 TOUCHDOWN	4 AS	1 LB A/A	PRE											
14 TOUCHDOWN	4 AS	1 LB A/A	LP											
15 VALOR	50 WG	0.063 LB A/A	PRE	0	95	87	92	88	0	90	87	92	88	
15 ROUNDUP ULTRA	4 AS	1 LB A/A	PRE											
15 AMS	100 SG	2 % W/W	PRE											
15 ROUNDUP ULTRA	4 AS	1 LB A/A	LP											
15 AMS	100 SG	2 % W/W	LP											

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Weed Code		SETFA	IPOSS	CHEAL	AMBTR		SETFA	IPOSS	CHEAL	AMBTR
Crop Code		GLYMA				GLYMA				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes		P	P	P	P	P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	GLYMA INJURY CONTROL PERCENT 2 WEEK	SETFA CONTROL PERCENT 2 WEEK	IPOSS CONTROL PERCENT 2 WEEK	CHEAL CONTROL PERCENT 2 WEEK	AMBTR CONTROL PERCENT 2 WEEK	GLYMA INJURY CONTROL PERCENT 4 WEEK	SETFA CONTROL PERCENT 4 WEEK	IPOSS CONTROL PERCENT 4 WEEK	CHEAL CONTROL PERCENT 4 WEEK	AMBTR CONTROL PERCENT 4 WEEK
16 VALOR	50	WG	0.094	LB A/A	PRE	0	95	90	92	93	0	90	90	92	93
16 ROUNDUP ULTRA	4	AS		1 LB A/A	PRE										
16 AMS	100	SG		2 % W/W	PRE										
16 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
16 AMS	100	SG		2 % W/W	LP										
17 V-10080	4.25	SC	1.063	LB A/A	PRE	0	95	88	95	87	0	90	87	95	87
17 COC		L		1 QT/A	PRE										
17 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
17 AMS	100	SG		2 % W/W	LP										
18 ROUNDUP ULTRA	4	AS		1 LB A/A	PRE	0	93	88	90	93	0	90	88	90	93
18 AMS	100	SG		2 % W/W	PRE										
18 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
18 AMS	100	SG		2 % W/W	LP										
19 V-10081	4.25	SC	1.06	LB A/A	PRE	0	95	92	90	93	0	90	90	90	93
19 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
19 AMS	100	SG		2 % W/W	LP										
20 ROUNDUP ULTRA	4	AS		1 LB A/A	PRE	0	95	88	93	95	0	90	88	93	95
20 WEEDONE LV4	3.8	E	0.5	LB A/A	PRE										
20 ROUNDUP ULTRA	4	AS		1 LB A/A	LP										
20 AMS	100	SG		2 % W/W	LP										
LSD (P=.05)						0.0	9.1	7.0	9.2	5.1	0.0	9.9	8.7	9.2	5.1
Standard Deviation						0.0	5.5	4.2	5.6	3.1	0.0	6.0	5.3	5.6	3.1
CV						0.0	6.04	4.93	6.53	3.35	0.0	6.86	6.25	6.53	3.36

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## MINIMUM TILL FULL SEASON II

Trial ID: S0023

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	90	83	90	93
1	AIM	40	DF	0.008	LB A/A	PRE	0	90	83	90	93
1	WEEDONE LV4	3.8	E	0.5	LB A/A	PRE					
1	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE					
1	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
1	AMS	100	SG	2	% W/W	LP					
2	AIM	40	DF	0.008	LB A/A	PRE	0	90	85	88	95
2	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE					
2	COC	L		1	QT/A	PRE					
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
2	AMS	100	SG	2	% W/W	LP					
3	AIM	40	DF	0.008	LB A/A	PRE	0	90	85	85	95
3	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE					
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
3	AMS	100	SG	2	% W/W	LP					
4	AIM	40	DF	0.008	LB A/A	PRE	0	90	85	83	87
4	COC	L		1	QT/A	PRE					
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
4	AMS	100	SG	2	% W/W	LP					
5	ROUNDUP ULTRA	4	AS	0.75	LB A/A	PRE	0	90	85	87	92
5	AMS	100	SG	2	% W/W	PRE					
5	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
5	AMS	100	SG	2	% W/W	LP					
6	GRAMOXONE EXTRA	2.5	AS	0.625	LB A/A	PRE	0	90	85	83	88
6	COC	L		1	QT/A	PRE					
6	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP					
6	AMS	100	SG	2	% W/W	LP					
7	TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	83	87	95
7	AMS	100	SG	8.5	LB/100 GAL	PRE					
7	TOUCHDOWN	4	AS	1	LB A/A	LP					
7	AMS	100	SG	8.5	LB/100 GAL	LP					

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Weed Code	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEKS	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg					
8 TOUCHDOWN	4	AS	1	LB A/A	PRE	0	60	62	60	83
8 AMS	100	SG	8.5	LB/100 GAL	PRE					
8 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
8 AMS	100	SG	8.5	LB/100 GAL	LP					
9 TOUCHDOWN	4	AS	1	LB A/A	PRE	0	72	68	55	83
9 AMS	100	SG	8.5	LB/100 GAL	PRE					
9 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
10 TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	83	90	93
10 AMS	100	SG	8.5	LB/100 GAL	PRE					
10 TOUCHDOWN	4	AS	1	LB A/A	LP					
11 TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	85	87	95
11 AMS	100	SG	8.5	LB/100 GAL	PRE					
11 TOUCHDOWN	4	AS	1	LB A/A	LP					
11 FLEXSTAR	1.88	CS	0.12	LB A/A	LP					
11 COC	L		0.5	QT/A	LP					
11 AMS	100	SG	8.5	LB/100 GAL	LP					
12 TOUCHDOWN	4	AS	1	LB A/A	PRE	0	90	87	88	95
12 AMS	100	SG	8.5	LB/100 GAL	PRE					
12 TOUCHDOWN	4	AS	1	LB A/A	LP					
12 FLEXSTAR	1.88	CS	0.18	LB A/A	LP					
12 COC	L		0.5	QT/A	LP					
12 AMS	100	SG	8.5	LB/100 GAL	LP					
13 STEEL	2.57	EC	0.97	LB A/A	PRE	0	90	87	88	95
13 TOUCHDOWN	4	AS	1	LB A/A	PRE					
13 TOUCHDOWN	4	AS	1	LB A/A	LP					
13 AMS	100	SG	8.5	LB/100 GAL	LP					
14 STEEL	2.57	EC	0.97	LB A/A	PRE	0	90	87	92	93
14 TOUCHDOWN	4	AS	1	LB A/A	PRE					
14 TOUCHDOWN	4	AS	1	LB A/A	LP					
15 VALOR	50	WG	0.063	LB A/A	PRE	0	90	87	92	88
15 ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
15 AMS	100	SG	2	% W/W	PRE					
15 ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
15 AMS	100	SG	2	% W/W	LP					

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Weed Code	SETFA	IPOSS	CHEAL	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEKS	8 WEEKS	8 WEEKS
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	SETFA	IPOSS	CHEAL	AMBTR	
16	VALOR	50	WG	0.094	LB A/A	PRE	0	90	85	90	93
16	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE					
16	AMS	100	SG	2	% W/W	PRE					
16	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
16	AMS	100	SG	2	% W/W	LP					
17	V-10080	4.25	SC	1.063	LB A/A	PRE	0	90	85	95	87
17	COC	L		1	QT/A	PRE					
17	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
17	AMS	100	SG	2	% W/W	LP					
18	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	90	87	90	93
18	AMS	100	SG	2	% W/W	PRE					
18	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
18	AMS	100	SG	2	% W/W	LP					
19	V-10081	4.25	SC	1.06	LB A/A	PRE	0	90	88	90	93
19	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
19	AMS	100	SG	2	% W/W	LP					
20	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	0	90	85	93	95
20	WEEDONE LV4	3.8	E	0.5	LB A/A	PRE					
20	ROUNDUP ULTRA	4	AS	1	LB A/A	LP					
20	AMS	100	SG	2	% W/W	LP					
LSD (P=.05)							0.0	9.9	8.1	9.2	5.1
Standard Deviation							0.0	6.0	4.9	5.6	3.1
CV							0.0	6.86	5.9	6.54	3.36

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

MINIMUM TILL FULL SEASON II

Trial ID: S0023                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 05-04-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

**Crop 1:** GLXMA SOYBEAN                      **Variety:** AG4501  
**Planting Date:** 05-04-00                      **Planting Method:** DRILLED  
**Rate:** 200000 S/A                      **Depth:** 1.25 IN  
**Row Spacing:** 7.5 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 66 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-10-00

**SITE AND DESIGN**

**Plot Width, Unit:** 6.66 FT                      **Plot Length, Unit:** 33 FT                      **Reps:** 3  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL-TILL                      **Study Design:** SPLIT-BLOCK

**SOIL DESCRIPTION**

% Sand: 7	% OM: 4.0	Texture: SILT LOAM
% Silt: 63	pH: 6.5	Soil Name: LANTON
% Clay: 30	CEC: 22	Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** SPINDLETOP                      **Distance:** 1.5                      **Unit:** MI

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	05-04-00	06-07-00

Time of Day:	10:00	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	LP
Applic. Placement:	BROSUI	BROFOI
Air Temp., Unit:	68 F	74 F
% Relative Humidity:	60	71
Wind Velocity, Unit:	3 MPH	5 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	67 F	71 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA PRE	GLXMA LP
Stage Scale:		3 TRIFOL
Height, Unit:		9 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA LP
Stage Scale:		4 LF
Density, Unit:		7 IN
Weed 2 Code, Stage:	IPOSS	IPOSS
Stage Scale:		6 LF
Density, Unit:		6 IN
Weed 3 Code, Stage:	CHEAL	CHEAL
Stage Scale:		10 LF
Density, Unit:		6 IN
Weed 4 Code, Stage:	AMBTR	AMBTR
Stage Scale:		6 LF
Density, Unit:		8 IN

## APPLICATION EQUIPMENT

	A	B
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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

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## MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S0035

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	AMBTR	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA				GLYMA			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Grow Stg	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA INJURY PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT	GLYMA CONTROL PERCENT
1 ROUNDUP ULTRA	4 AS		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
1 AMS	100 SG		1.5 % W/W	LP									
2 ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
2 AMS	100 SG		1.5 % W/W	LP									
3 ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
3 AMS	100 SG		1.5 % W/W	LP									
3 ROUNDUP ULTRAMAX	5 SL		0.75 LB A/A	REG									
3 AMS	100 SG		1.5 % W/W	REG									
4 ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
4 FIRSTRATE	84 W		0.015 LB A/A	LP									
4 AMS	100 SG		1.5 % W/W	LP									
5 ROUNDUP ULTRAMAX	5 SL		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
5 CLASSIC	25 DF		0.008 LB A/A	LP									
5 AMS	100 SG		1.5 % W/W	LP									
6 TOUCHDOWN 5	5 SL		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
6 AMS	100 SG		8.5 LB/100 GAL	LP									
6 SPREADER HF			0.25 % V/V	LP									
7 TOUCHDOWN	4 AS		1 LB A/A	LP	0	93	93	95	95	0	93	93	95
7 AMS	100 SG		8.5 LB/100 GAL	LP									
8 TOUCHDOWN	4 AS		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
8 AMS	100 SG		8.5 LB/100 GAL	LP									
8 TOUCHDOWN	4 AS		0.75 LB A/A	REG									
8 AMS	100 SG		8.5 LB/100 GAL	REG									
9 TOUCHDOWN	4 AS		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
9 PURSUIT	70 DF		0.032 LB A/A	LP									
9 AMS	100 SG		8.5 LB/100 GAL	LP									
10 TOUCHDOWN	4 AS		1 LB A/A	LP	0	95	95	95	95	0	95	95	95
10 CLASSIC	25 DF		0.008 LB A/A	LP									
10 AMS	100 SG		8.5 LB/100 GAL	LP									



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Weed Science Field Research

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	CHEAL	XANST	AMBTR	SETFA	CHEAL	XANST	AMBTR		
							GLYMA INJURY CONTROL	GLYMA INJURY CONTROL	GLYMA INJURY CONTROL	GLYMA INJURY CONTROL	GLYMA INJURY CONTROL	GLYMA INJURY CONTROL	GLYMA INJURY CONTROL	GLYMA INJURY CONTROL		
							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	
							P	P	P	P	P	P	P	P	P	
							0	0	0	0	0	0	0	0	0	
Trt Treatment No.	Name	Form Conc	Form Type	Rate	Unit	Grow Stg										
11	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		2WAP	0	95	95	95	95	0	95	95	95	95
11	AMS	100 SG		1.5 % W/W		2WAP										
12	TOUCHDOWN	4 AS		1 LB A/A		2WAP	0	95	95	95	95	0	95	95	95	95
12	AMS	100 SG		8.5 LB/100	GAL	2WAP										
13	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		3WAP	0	95	95	95	95	0	95	95	95	95
13	AMS	100 SG		1.5 % W/W		3WAP										
14	TOUCHDOWN	4 AS		1 LB A/A		PRE	0	93	95	93	95	0	93	95	93	95
14	AMS	100 SG		8.5 LB/100	GAL	PRE										
14	TOUCHDOWN	4 AS		1 LB A/A		3WAP										
14	AMS	100 SG		8.5 LB/100	GAL	3WAP										
15	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		4WAP	0	92	95	95	95	0	92	95	95	95
15	AMS	100 SG		1.5 % W/W		4WAP										
16	TOUCHDOWN	4 AS		1 LB A/A		4WAP	0	93	95	93	95	0	93	95	93	95
16	AMS	100 SG		8.5 LB/100	GAL	4WAP										
17	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		5WAP	0	95	95	95	95	0	95	95	95	95
17	AMS	100 SG		1.5 % W/W		5WAP										
18	TOUCHDOWN	4 AS		1 LB A/A		5WAP	0	93	93	95	95	0	93	93	95	95
18	AMS	100 SG		8.5 LB/100	GAL	5WAP										
19	ROUNDUP ULTRAMAX	5 SL		1 LB A/A		6WAP	0	95	95	95	95	0	95	95	95	95
19	AMS	100 SG		1.5 % W/W		6WAP										
20	TOUCHDOWN	4 AS		1 LB A/A		6WAP	0	95	95	95	95	0	95	95	95	95
20	AMS	100 SG		8.5 LB/100	GAL	6WAP										
LSD (P=.05)							0.0	2.4	1.5	1.5	0.0	0.0	2.4	1.5	1.5	0.0
Standard Deviation							0.0	1.5	0.9	0.9	0.0	0.0	1.5	0.9	0.9	0.0
CV							0.0	1.54	0.98	0.94	0.0	0.0	1.54	0.98	0.94	0.0

MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S0035 Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY. Investigator: Charles Slack

Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	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	95	95	95
1	AMS	100	SG	1.5	% W/W	LP				
2	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	95	95	95
2	AMS	100	SG	1.5	% W/W	LP				
3	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	95	95	95
3	AMS	100	SG	1.5	% W/W	LP				
3	ROUNDUP ULTRAMAX	5	SL	0.75	LB A/A	REG				
3	AMS	100	SG	1.5	% W/W	REG				
4	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	95	95	95
4	FIRSTRATE	84	W	0.015	LB A/A	LP				
4	AMS	100	SG	1.5	% W/W	LP				
5	ROUNDUP ULTRAMAX	5	SL	1	LB A/A	LP	0	95	95	95
5	CLASSIC	25	DF	0.008	LB A/A	LP				
5	AMS	100	SG	1.5	% W/W	LP				
6	TOUCHDOWN 5	5	SL	1	LB A/A	LP	0	95	95	95
6	AMS	100	SG	8.5	LB/100	GAL LP				
6	SPREADER HF			0.25	% V/V	LP				
7	TOUCHDOWN	4	AS	1	LB A/A	LP	0	93	93	95
7	AMS	100	SG	8.5	LB/100	GAL LP				
8	TOUCHDOWN	4	AS	1	LB A/A	LP	0	95	95	95
8	AMS	100	SG	8.5	LB/100	GAL LP				
8	TOUCHDOWN	4	AS	0.75	LB A/A	REG				
8	AMS	100	SG	8.5	LB/100	GAL REG				
9	TOUCHDOWN	4	AS	1	LB A/A	LP	0	95	95	95
9	PURSUIT	70	DF	0.032	LB A/A	LP				
9	AMS	100	SG	8.5	LB/100	GAL LP				
10	TOUCHDOWN	4	AS	1	LB A/A	LP	0	95	95	95
10	CLASSIC	25	DF	0.008	LB A/A	LP				
10	AMS	100	SG	8.5	LB/100	GAL LP				

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Weed Code	SETFA	CHEAL	XANST	AMBTR
Crop Code	GLYMA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg					
11 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	2WAP	0	95	95	95	95
11 AMS	100	SG	1.5 % W/W	2WAP					
12 TOUCHDOWN	4	AS	1 LB A/A	2WAP	0	95	95	95	95
12 AMS	100	SG	8.5 LB/100 GAL	2WAP					
13 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	3WAP	0	95	95	95	95
13 AMS	100	SG	1.5 % W/W	3WAP					
14 TOUCHDOWN	4	AS	1 LB A/A	PRE	0	93	95	93	95
14 AMS	100	SG	8.5 LB/100 GAL	PRE					
14 TOUCHDOWN	4	AS	1 LB A/A	3WAP					
14 AMS	100	SG	8.5 LB/100 GAL	3WAP					
15 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	4WAP	0	92	95	95	95
15 AMS	100	SG	1.5 % W/W	4WAP					
16 TOUCHDOWN	4	AS	1 LB A/A	4WAP	0	93	95	93	95
16 AMS	100	SG	8.5 LB/100 GAL	4WAP					
17 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	5WAP	0	95	95	95	95
17 AMS	100	SG	1.5 % W/W	5WAP					
18 TOUCHDOWN	4	AS	1 LB A/A	5WAP	0	93	93	95	95
18 AMS	100	SG	8.5 LB/100 GAL	5WAP					
19 ROUNDUP ULTRAMAX	5	SL	1 LB A/A	6WAP	0	95	95	95	95
19 AMS	100	SG	1.5 % W/W	6WAP					
20 TOUCHDOWN	4	AS	1 LB A/A	6WAP	0	95	95	95	95
20 AMS	100	SG	8.5 LB/100 GAL	6WAP					
LSD (P=.05)					0.0	2.4	1.5	1.5	0.0
Standard Deviation					0.0	1.5	0.9	0.9	0.0
CV					0.0	1.54	0.98	0.94	0.0

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

## MINIMUM TILL SOYBEAN FULL SEASON III

Trial ID: S0035                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                      Initiation Date: 05-04-00

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	AMBTR RAGWEED, GIANT	AMBROSIA TRIFIDA L.

Crop 1: GLXMA SOYBEAN                      Variety: AG4501  
Planting Date: 05-04-00                      Planting Method: DRILL  
Rate: 190000 S/A                      Depth: 1.25 IN  
Row Spacing: 7.5 IN                      Seed Bed: MODERATE TILL  
Soil Temperature: 65 F                      Soil Moisture: BELOW NORMAL                      Emergence Date: 05-12-00

## SITE AND DESIGN

Plot Width, Unit: 6.66 FT                      Plot Length, Unit: 33 FT                      Reps: 3  
Site Type: FIELD  
Tillage Type: MINIMUM TILL                      Study Design: RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

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

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

## APPLICATION DESCRIPTION

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

	A	B	C	D	E	F	G	H
Application Date:	05-04-00	05-28-00	06-02-00	06-09-00	06-16-00	06-23-00	07-02-00	07-10-00
Time of Day:	10:00 AM	11:00 AM	1:00 PM	1:00 PM	12:00 PM	10:00 AM	9:00 AM	2:00 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2 WAP	3 WAP	4 WAP	5 WAP	6 WAP	LP	REG
Applic. Placement:	BROSOIL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	75 F	72 F	80 F	82 F	85 F	86 F	82 F	88 F
% Relative Humidity:	75	75	80	65	60	65	75	80
Wind Velocity, Unit:	3 MPH	3 MPH	4 MPH	3 MPH	5 MPH	2 MPH	1 MPH	2 MPH
Dew Presence (Y/N):	N	N	N	N	N	N	N	N
Soil Temp., Unit:	65 F	68 F	67 F	68 F	70 F	70 F	72 F	72 F
Soil Moisture:	INADEQUAT	ADEQUAETE	ADEQUATE	NORAMAL	NORMAL	NORAML	NORMAL	NORMAL
% Cloud Cover:	10	10	20	10	20	10	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Crop 1 Code, Stage:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Weed 1 Code, Stage:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Weed 2 Code, Stage:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Weed 3 Code, Stage:	XANST	XANST	XANST	XANST	XANST	XANST	XANST	XANST
Weed 4 Code, Stage:	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR

## APPLICATION EQUIPMENT

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

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SOYBEAN DOUBLE CROP

Trial ID: S0037

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	GLYMA	SETFA	XANST	ABUTH	GLYMA	SETFA	XANST	ABUTH	GLYMA	SETFA	XANST	ABUTH
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P	P	P	P	P	P	P	P
ARM Action Codes	0	0	0	0	0	0	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	GLYMA	SETFA	XANST	ABUTH	GLYMA	SETFA	XANST	ABUTH	GLYMA	SETFA	XANST	ABUTH
1	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	5	95	87	93	5	92	85	90	5	88	80	82
1	AMS	100	SG	17	LB/100	GAL PRE												
1	ROUNDUP ULTRA	4	AS	1	LB A/A	LP												
1	AMS	100	SG	17	LB/100	GAL LP												
2	VALOR	50	WG	0.063	LB A/A	PRE	0	93	90	92	0	92	83	87	0	88	85	85
2	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE												
2	AMS	100	SG	17	LB/100	GAL PRE												
2	ROUNDUP ULTRA	4	AS	1	LB A/A	LP												
2	AMS	100	SG	17	LB/100	GAL LP												
3	V-10080	4.25	SC	1.063	LB A/A	PRE	12	93	90	95	12	85	85	92	12	88	85	80
3	COC	L		1	QT/A	PRE												
3	ROUNDUP ULTRA	4	AS	1	LB A/A	LP												
3	AMS	100	SG	17	LB/100	GAL LP												
4	V-10080	4.25	SC	1.063	LB A/A	PRE	0	92	88	95	0	90	87	93	0	88	87	83
4	ROUNDUP ULTRA	4	AS	1	LB A/A	LP												
4	AMS	100	SG	17	LB/100	GAL LP												
5	ROUNDUP ULTRA	4	AS	1	LB A/A	PRE	3	92	85	93	3	92	85	90	3	87	80	82
5	AMS	100	SG	17	LB/100	GAL PRE												
5	RAPTOR	1	E	0.063	LB A/A	LP												
5	SPREADER HF			0.25	% V/V	LP												
5	LIQUID N	L		1	QT/A	LP												
6	CHECK						0	92	83	95	0	85	82	92	0	82	80	82
LSD (P=.05)							14.5	5.2	4.9	5.2	14.5	8.9	9.0	6.1	14.5	9.9	7.0	6.1
Standard Deviation							8.0	2.8	2.7	2.8	8.0	4.9	5.0	3.4	8.0	5.5	3.8	3.4
CV							238.75	3.06	3.08	3.02	238.75	5.51	5.89	3.73	238.75	6.27	4.64	4.1

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

## SOYBEAN DOUBLE CROP

Trial ID: S0037                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

City: LEXINGTON                      Trial Status: COMPLETE  
State/Prov.: KY  
Postal Code: 40546                    Initiation Date: 06-26-00

## CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
3.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.

Crop 1: GLXMA SOYBEAN                      Variety: AG4602  
Planting Date: 06-26-00                      Planting Method: DRILL  
Rate: 190000 S/A                              Depth: 1.25 IN  
Row Spacing: 7.5 IN                            Seed Bed: NO-TILL  
Soil Temperature: 70 F                      Soil Moisture: ADEQUATE                      Emergence Date: 07-02-00

## SITE AND DESIGN

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

% Sand: 6	% OM: 2.5	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	CEC: 16	Fert. Level: GOOD

## APPLICATION DESCRIPTION

	A	B
Application Date:	06-26-00	07-14-00
Time of Day:	10:00 AM	2:00 PM
Application Method:	ATV	BACKPACK
Application Timing:	PRE	MP
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	75 F	80 F
% Relative Humidity:	70	72
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	70 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA PRE	GLXMA LP
Stage Scale:		2ND TRI
Height, Unit:		8 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA PRE	SETFA LP
Stage Scale:		3 LVS
Density, Unit:		5 IN
Weed 2 Code, Stage:	XANST	XANST
Stage Scale:		4 LVS
Density, Unit:		6 IN
Weed 3 Code, Stage:	ABUTH	ABUTH
Stage Scale:		4 LVS
Density, Unit:		8 IN

## APPLICATION EQUIPMENT

	A	B
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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 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 PREEMERGENCE & POSTEMERGENCE

Trial ID: C0101 Study Dir.: JAMES MARTIN  
Location: PRINCETON, KY. Investigator: Charles Slack

Weed Code	SORHA	AMBAT	XANST	IPOSS	ABUTH	SORHA	AMBAT	XANST	IPOSS	ABUTH
Crop Code	ZEAMX					ZEAMX				
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
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	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	DEGREE XTRA	4.04	CS	2.88	LB A/A	PRE	0	82	77	87	80	83	0	80	77	87	77	83
2	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	0	92	93	90	90	90	0	90	93	90	85	90
3	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE	3	95	88	92	93	95	0	92	88	92	87	95
3	SPIRIT	57	WG	0.036	LB A/A	MP												
3	COC		L	1	QT/A	MP												
4	FULTIME	4	CS	3	LB A/A	PRE	0	92	87	90	90	92	0	92	87	90	85	92
4	AATREX	4	F	0.3	LB A/A	PRE												
5	FULTIME	4	CS	3	LB A/A	PRE	7	85	93	93	93	93	0	85	93	93	88	93
5	SPIRIT	57	WG	0.036	LB A/A	MP												
5	COC		L	1	QT/A	MP												
6	FULTIME	4	CS	3	LB A/A	PRE	0	83	93	95	95	95	0	83	93	95	90	95
6	BALANCE	4	SC	0.07	LB A/A	PRE												
7	ICIA5676/ZA1296	3.5	CS	2.1875	LB A/A	PRE	0	90	95	95	92	95	0	90	95	95	87	95
8	FULTIME	4	CS	3	LB A/A	PRE	3	95	95	93	92	95	0	93	95	93	85	95
8	ZA1296	4	SC	0.094	LB A/A	MP												
8	COC		L	1	QT/A	MP												
8	LIQUID N		L	2.5	QT/A	MP												
9	TOPNOTCH	3.2	CS	2	LB A/A	PRE	7	95	90	90	90	93	0	95	90	90	85	93
9	ZA1296	4	SC	0.094	LB A/A	MP												
9	AATREX	4	F	0.25	LB A/A	MP												
9	COC		L	1	QT/A	MP												
9	LIQUID N		L	2.5	QT/A	MP												
10	OUTLOOK	6	EC	0.75	LB A/A	PRE	0	95	95	93	95	95	0	95	95	93	90	95
10	DISTINCT	70	WG	0.263	LB A/A	MP												
10	INDUCE			0.25	% V/V	MP												
10	LIQUID N		L	1	QT/A	MP												

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

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SORHA		AMBAT		XANST		IPOSS		ABUTH			
							ZEAMX	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	ZEAMX	INJURY	CONTROL	CONTROL
							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 Treatment No. Name	Form Conc	Form Type	Rate	Unit	Rate	Grow Stg												
11 GUARDSMAN	5 E		0.94 LB	A/A	PRE	0	90	95	95	93	95	0	90	95	95	88	95	
11 CELEBRITY PLUS	70 WG		0.21 LB	A/A	MP													
11 INDUCE			0.25 %	V/V	MP													
11 LIQUID N	L		2.5 QT/A		MP													
12 AXIOM AT	75 WG		2.25 LB	A/A	PRE	0	92	88	95	93	95	0	90	82	90	83	92	
13 AXIOM	68 DF		0.77 LB	A/A	PRE	0	88	87	90	85	95	0	88	87	90	83	95	
13 AATREX	4 F		1.8 LB	A/A	PRE													
14 EPIC	58 DF		0.435 LB	A/A	PRE	0	92	92	92	92	95	0	92	92	92	87	95	
14 AATREX	4 F		1.8 LB	A/A	PRE													
15 LEADOFF	5 CS		3.125 LB	A/A	PRE	0	95	95	95	95	95	0	95	95	95	90	95	
15 BASIS GOLD	89.5 DF		0.78 LB	A/A	MP													
15 COC	L		1 QT/A		MP													
16 AIM	40 DF		0.008 LB	A/A	MP	7	52	95	95	95	93	0	48	95	95	87	93	
16 AATREX	4 F		0.75 LB	A/A	MP													
16 INDUCE			0.25 %	V/V	MP													
17 AIM	40 DF		0.008 LB	A/A	MP	8	18	95	95	93	95	0	18	95	95	88	95	
17 DISTINCT	70 WG		0.256 LB	A/A	MP													
17 INDUCE			0.25 %	V/V	MP													
LSD (P=.05)							2.8	5.6	5.5	3.4	4.7	2.5	0.0	6.3	3.8	3.7	5.1	2.8
Standard Deviation							1.7	3.4	3.3	2.0	2.8	1.5	0.0	3.8	2.3	2.2	3.1	1.7
CV							81.99	4.0	3.63	2.17	3.07	1.63	0.0	4.54	2.53	2.43	3.58	1.77

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

CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C0101                      Study Dir.: JAMES MARTIN  
Location: PRINCETON, KY.            Investigator: Charles Slack

GENERAL TRIAL INFORMATION

Study Director: JAMES MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY  
Investigator: Charles Slack  
Affiliation: UNIVERSITY OF KENTUCKY  
Postal Code: 40546

TRIAL LOCATION

City: PRINCETON                      Trial Status: COMPLETE  
State/Prov.: KY  
Country: USA

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SORHA JOHNSONGRASS	SORGHUM HALEPENSE
2.	AMBEL RAGWEED, COMMON	AMBROSIA ELATIOR L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
5.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.

Crop 1: ZEAMX CORN, FIELD                      Variety: DK626 RR  
Planting Date: 05-08-00                      Planting Method: ROWS  
Rate: 28000 SEED/AC                      Depth: 1.5 IN  
Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 58 F                      Soil Moisture: NORMAL                      Emergence Date: 05-14-00

SITE AND DESIGN

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

% Sand: 25                      % OM: 1.2                      Texture: SILT LOAM  
% Silt: 47                      pH: 6.5                      Soil Name: CRIDER  
% Clay: 28                      Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: PRINCETON                      Distance: 0.5                      Unit: MI

APPLICATION DESCRIPTION

A                      B

Application Date:	05-10-00	06-02-00
Time of Day:	10:00	10:30
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	73 F	81 F
% Relative Humidity:	55	65
Wind Velocity, Unit:	3 MPH	3.5 MPH
Soil Temp., Unit:	65 F	74 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX 6
Stage Scale:		V
Height, Unit:		12 IN

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SORHA	SORHA 8
Stage Scale:		IN
Weed 2 Code, Stage:	AMBEL	AMBEL 4
Stage Scale:		IN
Weed 3 Code, Stage:	XANST	XANST 5
Stage Scale:		IN
Weed 4 Code, Stage:	IPOSS	IPOSS 3
Stage Scale:		IN
Weed 5 Code, Stage:	ABUTH	ABUTH 4
Stage Scale:		IN

## APPLICATION EQUIPMENT

	A	B
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:	24 GPA	24 GPA
Propellant:	CO2	CO2

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

CORN POSTEMERGENCE ROUNDUP READY

Trial ID: C0131 Study Dir.: CHARLES H. SLACK  
Location: PRINCETON, KY. Investigator: Charles Slack

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA		AMBTR	ABUTH	IPOSS	SETFA		AMBTR	ABUTH	IPOSS
							ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL PERCENT	ZEAMX INJURY PERCENT	ZEAMX CONTROL 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	Unit	Grow Stg										
1	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP	0	85	85	85	70	0	85	85	85	70
2	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP	0	90	83	92	78	0	88	83	92	77
2	ROUNDUP ULTRA	4	AS	0.75 LB	A/A	REG(POD)										
3	HARNES	7	EC	1.05 LB	A/A	PRE	0	95	92	92	83	0	92	92	92	85
3	ROUNDUP ULTRA	4	AS	1 LB	A/A	16"C										
4	HARNES XTRA	5.6	EC	1.68 LB	A/A	PRE	0	95	95	95	93	0	92	95	95	87
4	ROUNDUP ULTRA	4	AS	1 LB	A/A	16"C										
5	HARNES	7	EC	1.3 LB	A/A	PRE	0	95	92	93	88	0	90	92	93	83
5	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP										
6	HARNES XTRA	5.6	EC	2.24 LB	A/A	PRE	0	95	93	93	88	0	90	93	93	83
6	ROUNDUP ULTRA	4	AS	1 LB	A/A	MP										
7	READYMASTER ATZ	5.6	SE	2 LB	A/A	MP	0	95	95	95	95	0	90	95	95	88
8	MON 6943	5	CS	3.38 LB	A/A	MP	0	95	95	93	92	0	90	95	93	85
9	DUAL II MAGNUM	7.6	EC	1.27 LB	A/A	PRE	0	95	95	95	95	0	90	95	95	90
9	MARKSMAN	3.2	F	1.4 %	V/V	MP										
10	BICEP II MAGNUM	5.5	L	2.475 LB	A/A	PRE	0	95	83	95	95	0	90	88	92	85
11	BICEP II MAGNUM	5.5	L	2.475 LB	A/A	PRE	0	95	92	93	90	0	90	92	93	85
11	SPIRIT	57	WG	0.035 LB	A/A	16"C										
11	INDUCE			0.25 %	V/V	16"C										
11	LIQUID N		L	2.5 QT/A		16"C										
12	BASIS GOLD	89.5	DF	0.783 LB	A/A	MP	0	93	87	93	85	0	90	87	93	82
12	COC		L	1 QT/A		MP										
12	LIQUID N		L	4 QT/A		MP										
13	CELEBRITY PLUS	70	WG	0.2 LB	A/A	MP	0	95	95	95	95	0	90	95	95	90
13	INDUCE			0.25 %	V/V	MP										
13	LIQUID N		L	4 QT/A		MP										

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

Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	SETFA	AMBTR	ABUTH	IPOSS	SETFA	AMBTR	ABUTH	IPOSS			
							INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	
							P	P	P	P	P	P	P	P			
							0	0	0	0	0	0	0	0			
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Rate	Unit	Grow Stg										
14 LEADOFF	5	CS	1.25	LB A/A	PRE			0	95	95	95	95	0	90	95	95	87
14 BASIS GOLD	89.5	DF	0.783	LB A/A	MP												
14 COC		L	1	QT/A	MP												
14 LIQUID N		L	4	QT/A	MP												
15 DEGREE XTRA	4.04	CS	3.03	LB A/A	PRE			0	82	95	95	93	0	87	92	92	85
15 AATREX	4	F	0.4	LB A/A	PRE												
16 FULTIME	4	CS	2.6	LB A/A	PRE			0	85	80	90	85	0	88	88	93	83
17 LEADOFF	5	CS	1.8	LB A/A	PRE			0	95	90	92	90	0	90	92	93	85
17 AATREX	4	F	0.3	LB A/A	PRE												
LSD (P=.05)								0.0	2.7	3.7	3.3	6.0	0.0	3.2	5.5	4.9	5.8
Standard Deviation								0.0	1.6	2.2	2.0	3.6	0.0	1.9	3.3	2.9	3.5
CV								0.0	1.74	2.46	2.14	4.05	0.0	2.17	3.61	3.13	4.13

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

## CORN POSTEMERGENCE ROUNDUP READY

Trial ID: C0131

Study Dir.: CHARLES H. SLACK

Location: PRINCETON, KY.

Investigator: Charles Slack

Weed Code	SETFA	AMBAT	ABUTH	IPOSS
Crop Code	ZEAMX			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	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 MP		0	80	80	83	70
2	ROUNDUP ULTRA	4	AS	1 LB	A/A MP		0	82	78	87	77
2	ROUNDUP ULTRA	4	AS	0.75 LB	A/A REG(POD)						
3	HARNES	7	EC	1.05 LB	A/A PRE		0	87	85	88	83
3	ROUNDUP ULTRA	4	AS	1 LB	A/A 16"C						
4	HARNES XTRA	5.6	EC	1.68 LB	A/A PRE		0	82	87	90	87
4	ROUNDUP ULTRA	4	AS	1 LB	A/A 16"C						
5	HARNES	7	EC	1.3 LB	A/A PRE		0	83	83	90	83
5	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						
6	HARNES XTRA	5.6	EC	2.24 LB	A/A PRE		0	82	85	88	83
6	ROUNDUP ULTRA	4	AS	1 LB	A/A MP						
7	READYMASTER ATZ	5.6	SE	2 LB	A/A MP		0	83	90	90	88
8	MON 6943	5	CS	3.38 LB	A/A MP		0	85	90	90	85
9	DUAL II MAGNUM	7.6	EC	1.27 LB	A/A PRE		0	83	90	90	90
9	MARKSMAN	3.2	F	1.4 %	V/V MP						
10	BICEP II MAGNUM	5.5	L	2.475 LB	A/A PRE		0	85	87	85	85
11	BICEP II MAGNUM	5.5	L	2.475 LB	A/A PRE		0	87	90	88	85
11	SPIRIT	57	WG	0.035 LB	A/A 16"C						
11	INDUCE			0.25 %	V/V 16"C						
11	LIQUID N		L	2.5 QT/A	16"C						
12	BASIS GOLD	89.5	DF	0.783 LB	A/A MP		0	83	87	90	82
12	COC		L	1 QT/A	MP						
12	LIQUID N		L	4 QT/A	MP						
13	CELEBRITY PLUS	70	WG	0.2 LB	A/A MP		0	85	90	88	90
13	INDUCE			0.25 %	V/V MP						
13	LIQUID N		L	4 QT/A	MP						

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Weed Science Field Research

Weed Code	SETFA	AMBAT	ABUTH	IPOSS
Crop Code	ZEAMX			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg					
14 LEADOFF	5	CS	1.25	LB A/A	PRE	0	85	90	88	87
14 BASIS GOLD	89.5	DF	0.783	LB A/A	MP					
14 COC		L	1	QT/A	MP					
14 LIQUID N		L	4	QT/A	MP					
15 DEGREE XTRA	4.04	CS	3.03	LB A/A	PRE	0	83	87	88	85
15 AATREX	4	F	0.4	LB A/A	PRE					
16 FULTIME	4	CS	2.6	LB A/A	PRE	0	80	87	88	83
17 LEADOFF	5	CS	1.8	LB A/A	PRE	0	83	88	88	85
17 AATREX	4	F	0.3	LB A/A	PRE					
LSD (P=.05)						0.0	5.7	6.1	3.9	5.9
Standard Deviation						0.0	3.4	3.6	2.3	3.5
CV						0.0	4.11	4.2	2.64	4.22



CORN POSTEMERGENCE ROUNDUP READY

Trial ID: C0131                      Study Dir.: CHARLES H. SLACK  
 Location: PRINCETON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

**Study Director:** JAMES MARTIN  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Investigator:** Charles Slack  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546

**TRIAL LOCATION**

**City:** PRINCETON  
**State/Prov.:** USA  
**Postal Code:** 40546  
**Country:** KY

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETFA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
3.	AMBEL RAGWEED, COMMON	AMBROSIA ELATIOR L.
4.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.

**Crop 1:** ZEAMX CORN, FIELD                      **Variety:** DK626 RR  
**Planting Date:** 05-08-00                      **Planting Method:** ROWS  
**Rate:** 28000 SEED/AC                      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN                      **Seed Bed:** MEDIUM  
**Soil Temperature:** 58 F                      **Soil Moisture:** NORMAL                      **Emergence Date:** 05-14-00

**SITE AND DESIGN**

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

**SOIL DESCRIPTION**

% Sand: 25	% OM: 1.2	Texture: SILT LOAM
% Silt: 47	pH: 6.5	Soil Name: CRIDER
% Clay: 28		Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** PRINCETON

**Distance:** 0.5                      **Unit:** MI

## APPLICATION DESCRIPTION

	A	B	C
Application Date:	05-10-00	06-02-00	06-02-00
Time of Day:	11:00	11:30	11:30
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	16"C	MP
Applic. Placement:	BROSOI	BROFOI	BROFOI
Air Temp., Unit:	72 F	83 F	83 F
% Relative Humidity:	55	72	72
Wind Velocity, Unit:	3 MPH	4 MPH	4 MPH
Soil Temp., Unit:	65 F	74 F	74 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX 16 IN	ZEAMX 16 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA	SETFA 5 IN	SETFA 5 IN
Weed 2 Code, Stage:	IPOSS	IPOSS 4 IN	IPOSS 4 IN
Weed 3 Code, Stage:	AMBEL	AMBEL 5 IN	AMBEL 5 IN
Weed 4 Code, Stage:	ABUTH	ABUTH 4 IN	ABUTH 4 IN

## APPLICATION EQUIPMENT

	A	B	C
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:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2

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

CORN POSTEMERGENCE LIBERTY

Trial ID: C0120  
Location: PRINCETON, KY.

Study Dir.: JAMES MARTIN  
Investigator: Charles Slack

Weed Code	SORHA					AMBAT					XANST					IPOSS					ABUTH				
Crop Code	ZEAMX					ZEAMX					ZEAMX					ZEAMX					ZEAMX				
Rating Data Type	INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL					INJURY CONTROL CONTROL CONTROL CONTROL				
Rating Unit	PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT					PERCENT PERCENT PERCENT PERCENT PERCENT				
Trt-Eval Interval	2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK					2 WEEK 2 WEEK 2 WEEK 2 WEEK 2 WEEK					4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK					4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK					4 WEEK 4 WEEK 4 WEEK 4 WEEK 4 WEEK				
ARM Action Codes	P P P P P					P P P P P					P P P P P					P P P P P					P P P P P				
# Subsamples, Dec.	0 0 0 0 0					0 0 0 0 0					0 0 0 0 0					0 0 0 0 0					0 0 0 0 0				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Rate Unit	Grow Stg										
1	BALANCE	4	SC	0.094	LB	A/A	PRE	0	95	92	95	93	95	0	95	92	95
1	AATREX	4	F	1.5	LB	A/A	PRE										
2	BALANCE	4	SC	0.094	LB	A/A	PRE	0	95	92	95	92	95	0	92	90	93
2	BICEP II MAGNUM	5.5	L	1.4	LB	A/A	PRE										
2	AATREX	4	F	0.75	LB	A/A	PRE										
3	BALANCE	4	SC	0.07	LB	A/A	PRE	0	93	87	90	80	92	0	92	87	90
3	BICEP II MAGNUM	5.5	L	1.9	LB	A/A	PRE										
4	BALANCE	4	SC	0.094	LB	A/A	PRE	0	92	90	92	88	95	0	88	88	90
4	AATREX	4	F	1	LB	A/A	PRE										
4	PRINCEP	4	F	0.5	LB	A/A	PRE										
5	BALANCE	4	SC	0.059	LB	A/A	PRE	0	88	90	90	90	94	0	88	90	90
5	AATREX	4	F	0.75	LB	A/A	PRE										
5	LIBERTY	1.67	E	0.31	LB	A/A	MP										
5	AMS	100	SG	3	LB	A/A	MP										
6	BALANCE	4	SC	0.059	LB	A/A	PRE	0	90	95	95	90	92	0	88	90	92
6	LIBERTY	1.67	E	0.31	LB	A/A	MP										
6	AATREX	4	F	1	LB	A/A	MP										
6	AMS	100	SG	3	LB	A/A	MP										
7	BALANCE	4	SC	0.094	LB	A/A	PRE	3	83	92	90	90	92	0	83	92	90
7	BUCTRIL	2	EC	0.25	LB	A/A	MP										
7	AATREX	4	F	0.5	LB	A/A	MP										
8	LIBERTY ATZ	4.3	F	1.34	LB	A/A	MP	0	93	93	92	95	93	0	88	88	88
8	AMS	100	SG	3	LB	A/A	MP										
9	AATREX	4	F	0.75	LB	A/A	PRE	0	95	90	95	95	95	0	95	90	95
9	AATREX	4	F	0.5	LB	A/A	MP										
9	LIGHTNING	70	DG	0.056	LB	A/A	MP										
9	COC		L	1	QT/A		MP										
9	LIQUID N		L	2	QT/A		MP										

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Weed Code	SORHA		AMBAT	XANST	IPOSS	ABUTH	SORHA		AMBAT	XANST	IPOSS	ABUTH
	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX	
Crop Code	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Trt-Eval Interval												
ARM Action Codes	P	P	P	P	P	P	P	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg												
10 PROWL	3.3	EC	1.05	LB	A/A PRE	0	95	90	90	92	93	0	95	90	90	87	93
10 AATREX	4	F	1.5	LB	A/A PRE												
10 LIGHTNING	70	DG	0.056	LB	A/A MP												
10 COC	L		1	QT/A	MP												
10 LIQUID N	L		2	QT/A	MP												
LSD (P=.05)			1.6				10.5	5.4	5.0	9.5	3.6	0.0	10.7	7.5	4.9	6.5	4.7
Standard Deviation			0.9				6.1	3.1	2.9	5.5	2.1	0.0	6.3	4.3	2.9	3.8	2.7
CV			273.86				6.62	3.45	3.14	6.12	2.27	0.0	6.92	4.85	3.14	4.42	2.96

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

CORN POSTEMERGENCE LIBERTY

Trial ID: C0120  
Location: PRINCETON, KY.

Study Dir.: JAMES MARTIN  
Investigator: Charles Slack

Weed Code	SORHA	AMBAT	XANST	IPOSS	ABUTH
Crop Code	ZEAMX				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
1	BALANCE	4	SC	0.094	LB A/A	PRE	0	95	92	95	85	95
1	AATREX	4	F	1.5	LB A/A	PRE						
2	BALANCE	4	SC	0.094	LB A/A	PRE	0	92	90	93	83	93
2	BICEP II MAGNUM	5.5	L	1.4	LB A/A	PRE						
2	AATREX	4	F	0.75	LB A/A	PRE						
3	BALANCE	4	SC	0.07	LB A/A	PRE	0	92	87	90	78	92
3	BICEP II MAGNUM	5.5	L	1.9	LB A/A	PRE						
4	BALANCE	4	SC	0.094	LB A/A	PRE	0	88	88	90	83	93
4	AATREX	4	F	1	LB A/A	PRE						
4	PRINCEP	4	F	0.5	LB A/A	PRE						
5	BALANCE	4	SC	0.059	LB A/A	PRE	0	88	90	90	87	93
5	AATREX	4	F	0.75	LB A/A	PRE						
5	LIBERTY	1.67	E	0.31	LB A/A	MP						
5	AMS	100	SG	3	LB A/A	MP						
6	BALANCE	4	SC	0.059	LB A/A	PRE	0	88	90	92	87	92
6	LIBERTY	1.67	E	0.31	LB A/A	MP						
6	AATREX	4	F	1	LB A/A	MP						
6	AMS	100	SG	3	LB A/A	MP						
7	BALANCE	4	SC	0.094	LB A/A	PRE	0	83	92	90	87	92
7	BUCTRIL	2	EC	0.25	LB A/A	MP						
7	AATREX	4	F	0.5	LB A/A	MP						
8	LIBERTY ATZ	4.3	F	1.34	LB A/A	MP	0	88	88	88	85	90
8	AMS	100	SG	3	LB A/A	MP						
9	AATREX	4	F	0.75	LB A/A	PRE	0	95	90	95	90	95
9	AATREX	4	F	0.5	LB A/A	MP						
9	LIGHTNING	70	DG	0.056	LB A/A	MP						
9	COC	L	L	1	QT/A	MP						
9	LIQUID N	L	L	2	QT/A	MP						

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Weed Code		SORHA	AMBAT	XANST	IPOSS	ABUTH
Crop Code		ZEAMX				
Rating Data Type		INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P	P
# Subsamples, Dec.		0	0	0	0	0

Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Grow Stg						
10 PROWL	3.3	EC	1.05	LB A/A	PRE	0	95	90	90	87	93
10 AATREX	4	F	1.5	LB A/A	PRE						
10 LIGHTNING	70	DG	0.056	LB A/A	MP						
10 COC		L	1	QT/A	MP						
10 LIQUID N		L	2	QT/A	MP						
LSD (P=.05)						0.0	10.7	7.5	4.9	6.5	4.7
Standard Deviation						0.0	6.3	4.3	2.9	3.8	2.7
CV						0.0	6.92	4.85	3.14	4.42	2.95

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

CORN POSTEMERGENCE LIBERTY

Trial ID: C0120  
Location: PRINCETON, KY.

Study Dir.: JAMES MARTIN  
Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** PRINCETON  
**State/Prov.:** KY  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SORHA JOHNSONGRASS	SORGHUM HALEPENSE
2.	AMBEL RAGWEED, COMMON	AMBROSIA ELATIOR L.
3.	XANST COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4.	IPOSS MORNINGGLORY, IPOMOEA SP.	IPOMOEA SP.
5.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.

**Crop 1:** ZEAMX CORN, FIELD      **Variety:** PIONEER 34B29LL  
**Planting Date:** 05-08-00      **Planting Method:** ROWS  
**Rate:** 28000 SEED/AC      **Depth:** 1.5 IN  
**Row Spacing:** 30 IN      **Seed Bed:** MEDIUM  
**Soil Temperature:** 58 F      **Soil Moisture:** NORMAL      **Emergence Date:** 05-14-00

**SITE AND DESIGN**

**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**

% Sand: 25	% OM: 1.2	Texture: SILT LOAM
% Silt: 47	pH: 6.5	Soil Name: CRIDER
% Clay: 28		Fert. Level: EXCELLENT

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** PRINCETON

**Distance:** 0.5      **Unit:** MI

## APPLICATION DESCRIPTION

	A	B
Application Date:	05-10-00	06-02-00
Time of Day:	1:00	1:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	75 F	86 F
% Relative Humidity:	55	72
Wind Velocity, Unit:	4 MPH	3 MPH
Soil Temp., Unit:	65 F	77 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	15	25

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX V8

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SORHA	SORHA 8 IN
Weed 2 Code, Stage:	AMBEL	AMBEL 4 IN
Weed 3 Code, Stage:	XANST	XANST 6 IN
Weed 4 Code, Stage:	IPOSS	IPOSS 3 IN
Weed 5 Code, Stage:	ABUTH	ABUTH 4 IN

## APPLICATION EQUIPMENT

	A	B
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:	24 GPA	24 GPA
Propellant:	CO2	CO2



CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C0123 Study Dir.: JAMES MARTIN  
Location: PRINCETON, KY. Investigator: Charles Slack

Weed Code Crop Code Rating Data Type Rating Unit Trt-Eval Interval PRM Data Type # Subsamples, Dec.	.SORHA			IPOSS			AMACH			ZAMX			SORHA			IPOSS			AMACH			ZAMX		
	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	SORHA	IPOSS	AMACH	ZAMX	SORHA	IPOSS	AMACH	ZAMX	SORHA	IPOSS	AMACH	ZAMX
1	AATREX	4 F			2 LB A/A	PRE		0	83	87	90	0	82	80	82	0	75	77	82
1	LIGHTNING	70 DG	0.056		LB A/A	12J													
1	COC	L			1 QT/A	12J													
1	LIQUID N	L			1 QT/A	12J													
2	PROWL	3.3 EC	1.05		LB A/A	PRE		0	87	87	90	0	77	85	77	0	73	87	85
2	AATREX	4 F			2 LB A/A	PRE													
2	LIGHTNING	70 DG	0.056		LB A/A	12J													
2	COC	L			1 QT/A	12J													
2	LIQUID N	L			1 QT/A	12J													
3	AATREX	4 F			1 LB A/A	PRE		0	85	85	87	2	77	75	77	0	73	82	88
3	LIGHTNING	70 DG	0.056		LB A/A	12J													
3	COC	L			1 QT/A	12J													
3	LIQUID N	L			1 QT/A	12J													
4	AATREX	4 F			1.5 LB A/A	PRE		0	83	85	90	2	60	78	60	0	63	82	87
4	EXCEED	57 DF	0.036		LB A/A	12J													
4	COC	L			1 QT/A	12J													
4	LIQUID N	L			1 QT/A	12J													
5	AATREX	4 F			1.5 LB A/A	PRE		3	83	73	73	3	73	78	73	0	68	77	85
5	ACCENT	75 WG	0.031		LB A/A	12J													
5	COC	L			1 QT/A	12J													
5	LIQUID N	L			1 QT/A	12J													
6	ACCENT GOLD	75 DF	0.023		LB A/A	12J		0	83	73	88	2	72	78	72	0	72	82	85
6	AATREX	4 F			0.45 LB A/A	12J													
6	COC	L			1 QT/A	12J													
6	LIQUID N	L			2 QT/A	12J													
7	BASIS GOLD	89.5 DF	0.79		LB A/A	12J		0	88	85	87	0	73	83	73	0	72	80	88
7	COC	L			1 QT/A	12J													
7	LIQUID N	L			2 QT/A	12J													
8	CELEBRITY PLUS	70 WG	0.21		LB A/A	12J		0	90	82	88	7	58	68	58	0	53	67	72
8	INDUCE		0.25		% V/V	12J													
8	LIQUID N	L			2 QT/A	12J													

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	SORHA		IPOSS		AMACH		SORHA		IPOSS		AMACH		
							ZEAMX	CONTROL	CONTROL	CONTROL	ZEAMX	CONTROL	CONTROL	CONTROL	ZEAMX	CONTROL	CONTROL	CONTROL	
							INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	INJURY PERCENT	CONTROL PERCENT	CONTROL PERCENT	
							2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
							P	P	P	P	P	P	P	P	P	P	P	P	P
							0	0	0	0	0	0	0	0	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Rate	Grow Stg													
9 SPIRIT	57 WG	L	0.036	LB A/A	12J	12J	3	88	88	92	0	77	80	72	0	75	82	90	
9 COC	L		1	QT/A	12J														
9 LIQUID N	L		1	QT/A	12J														
10 SPIRIT	57 WG	L	0.018	LB A/A	12J	12J	2	88	85	90	2	65	78	65	0	63	75	85	
10 ACCENT	75 WG	L	0.016	LB A/A	12J														
10 COC	L		1	QT/A	12J														
10 LIQUID N	L		1	QT/A	12J														
LSD (P=.05)							2.5	5.2	6.3	5.4	5.3	22.4	15.8	21.9	0.0	24.3	18.0	17.4	
Standard Deviation							1.5	3.1	3.7	3.2	3.1	13.1	9.2	12.7	0.0	14.1	10.5	10.1	
CV							175.12	3.56	4.4	3.61	186.19	18.33	11.74	17.99	0.0	20.55	13.31	11.98	

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

## CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C0123                      Study Dir.: JAMES MARTIN  
Location: PRINCETON, KY.            Investigator: Charles Slack

## GENERAL TRIAL INFORMATION

Study Director: JAMES MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY  
Investigator: Charles Slack  
Affiliation: UNIVERSITY OF KENTUCKY                      Postal Code: 40546

Trial Status: COMPLETE                                      Country: USA  
City: PRINCETON                      State/Prov.: KY

## CROP AND PEST DESCRIPTION

Weed 1.SORHA JOHNSONGRASS                      2.IPOSS MORNINGLORY  
Weed 3.AMACH SMOOTH PIGWEED

Crop 1:ZEAMX CORN, FIELD Variety: GARST 8541IT                      Planting Date: 05-08-00  
Planting Method: ROWS                      Rate: 28000 SEED/AC                      Depth: 1.5 IN  
                    Row Spacing: 30 IN                      Seed Bed: MEDIUM  
Soil Temperature: 58 F Soil Moisture: NORMAL                      Emergence Date: 05-14-00

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

## SOIL DESCRIPTION

Texture: SILT LOAM                      % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5                      Soil Name: CRIDER                      Fertility Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: PRINCETON                      Distance: 0.5 Unit: IN

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	05-10-00	06-16-00				
Time of Day:	11:00	11:00				
Application Method:	SPRAY	SPRAY				
Application Timing:	PRE	12J				
Applic. Placement:	BROSOI	BROFOL				
Air Temp., Unit:	74 F	85 F				
% Relative Humidity:	55	71				
Wind Velocity, Unit:	3 MPH	3 MPH				
Soil Temp., Unit:	65 F	74 F				
Soil Moisture:	ADEQUATE	ADEQUATE				
% Cloud Cover:	10	25				

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		V8				

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		12 IN				

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK				
Operating Pressure:	30	30				
Nozzle Type:	FLAT FAN	FLAT FAN				
Nozzle Size:	8004 DG	8004 DG				
Nozzle Spacing, Unit:	20 IN	20 IN				
Boom Length, Unit:	5 FT	5 FT				
Boom Height, Unit:	19 IN	19 IN				
Ground Speed, Unit:	3.5 MPH	3.5 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 JOHNSONGRASS ROUNDUP

Trial ID: C0110

Investigator: JAMES MARTIN

Location: PRINCETON, KY.

Study Dir.: Charles Slack

Weed Code	SORHA		SORHA		SORHA	
Crop Code	ZEAMX		ZEAMX		ZEAMX	
Rating Data Type	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
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	Fm	Rate	Unit	Grow	Stg				
1	HARNES	7	EC	1.05	LB A/A	PRE		0	90	0	78
1	ROUNDUP ULTRA	4	AS	1	LB A/A	18J					
1	AMS	100	SG	17	LB/100 GAL	18J					
1	DK 626										
2	HARNES XTRA	5.6	EC	1.68	LB A/A	PRE		0	88	0	80
2	ROUNDUP ULTRA	4	AS	1	LB A/A	18J					
2	AMS	100	SG	17	LB/100 GAL	18J					
2	DK 626										
3	HARNES XTRA	5.6	EC	2.24	LB A/A	PRE		0	83	0	82
3	ROUNDUP ULTRA	4	AS	1	LB A/A	18J					
3	AMS	100	SG	17	LB/100 GAL	18J					
3	DK 626										
4	READYMASTER ATZ	5.6	SC	2	LB A/A	18J		0	88	0	75
4	AMS	100	SG	17	LB/100 GAL	18J					
4	DK 626										
5	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE		0	87	0	75
5	EXCEED	65	DF	0.036	LB A/A	18J					
5	COC		L	1	QT/A	18J					
5	DK 626										
6	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE		0	87	0	77
6	ACCENT	75	WG	0.031	LB A/A	18J					
6	COC		L	1	QT/A	18J					
6	LIQUID N		L	2	QT/A	18J					
6	DK 626										
7	BICEP II MAGNUM	5.5	L	2.88	LB A/A	PRE		0	82	0	73
7	SPIRIT	57	WG	0.036	LB A/A	18J					
7	COC		L	1	QT/A	18J					
7	LIQUID N		L	2	QT/A	18J					
7	DK 626										

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Weed Code										
Crop Code										
Rating Data Type										
Rating Unit										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form	Fm	Rate	Unit	Grow Stg	ZEAMX INJURY PERCENT 2 WEEK	SORHA CONTROL PERCENT 2 WEEK	ZEAMX INJURY PERCENT 4 WEEK	SORHA CONTROL PERCENT 4 WEEK	ZEAMX INJURY PERCENT 8 WEEK	SORHA CONTROL PERCENT 8 WEEK
8	AATREX	4	F	1.5	LB A/A	PRE	0	88	0	77	0	72
8	ROUNDUP ULTRA	4	AS	1	LB A/A	12J						
8	AMS	100	SG	17	LB/100 GAL	12J						
8	DK 626											
9	AATREX	4	F	1.5	LB A/A	PRE	0	73	0	67	0	63
9	ROUNDUP ULTRA	4	AS	1	QT/A	18J						
9	AMS	100	SG	17	LB/100 GAL	18J						
9	DK 626											
10	ACCENT	75	WG	0.016	LB A/A	18J	0	77	0	70	0	67
10	SPIRIT	57	WG	0.018	LB A/A	18J						
10	COC		L	1	QT/A	18J						
10	LIQUID N		L	1	QT/A	18J						
10	DK 626											
11	ROUNDUP ULTRA	4	AS	1	LB A/A	12J	0	82	0	75	0	68
11	AMS	100	SG	17	LB/100 GAL	12J						
11	DK 626											
12	ROUNDUP ULTRA	4	AS	1	LB A/A	12J	0	87	0	80	0	73
12	AMS	100	SG	17	LB/100 GAL	12J						
12	ROUNDUP ULTRA	4	AS	0.75	LB A/A	REG						
12	AMS	100	SG	17	LB/100 GAL	REG						
12	DK 626											
13	ROUNDUP ULTRA	4	AS	1	LB A/A	18J	0	78	0	70	0	67
13	AMS	100	SG	17	LB/100 GAL	18J						
13	DK 626											
14	ROUNDUP ULTRAMX	3.7	SL	1	LB A/A	12J	0	87	0	75	0	75
14	AMS	100	SG	1.5	% W/W	12J						
14	DK 626											
15	ROUNDUP ULTRAMX	3.7	SL	1	LB A/A	18J	0	87	0	78	0	77
15	AMS	100	SG	1.5	% W/W	18J						
15	DK 626											
16	GUARDSMAN	5	E	1.875	LB A/A	PRE	0	63	0	62	0	58
16	CELEBRITY PLUS	70	WG	0.21	LB A/A	18J						
16	INDUCE			0.25	% V/V	18J						
16	DK 626											

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Weed Code	SORHA		SORHA		SORHA	
	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Code	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	2 WEEK	2 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Trt-Eval Interval	P	P	P	P	P	P
PRM Data Type	0	0	0	0	0	0
# Subsamples, Dec.						

Trt Treatment	Form	Em	Rate	Grow		
No. Name	Amt	Ds	Rate	Unit	Stg	
LSD (P=.05)	0.0	24.6	0.0	19.2	0.0	15.8
Standard Deviation	0.0	14.8	0.0	11.5	0.0	9.5
CV	0.0	17.79	0.0	15.42	0.0	13.23

CORN POSTEMERGENCE JOHNSONGRASS ROUNDUP

Trial ID: C0110 Investigator: JAMES MARTIN  
Location: PRINCETON, KY. Study Dir.: Charles Slack

GENERAL TRIAL INFORMATION

Study Director: JAMES MARTIN  
Affiliation: UNIVERSITY OF KENTUCKY  
Other Investigator: Charles Slack  
Affiliation: UNIVERSITY OF KENTUCKY Postal Code: 40546

Trial Status: COMPLETE Country: USA  
City: PRINCETON State/Prov.: KY

CROP AND PEST DESCRIPTION

Weed 1. SORHA JOHNSONGRASS

Crop 1: ZEAMX CORN, FIELD Variety: DK626 RR Planting Date: 05-08-00  
Planting Method: ROWS Rate: 28000 SEED/AC Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: MEDIUM  
Soil Temperature: 58 F Soil Moisture: NORMAL Emergence Date: 05-14-00

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: 25 % OM: 1.2 % Sand: 25 % Silt: 47 % Clay: 28  
pH: 6.5 Soil Name: CRIDER Fertility Level: EXCELLENT

Overall Moisture Conditions: NORMAL  
Closest Weather Station: PRINCETON Distance: 0.5 Unit: MI



## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	05-10-00	06-16-00	06-26-00			
Time of Day:	10:30	11:00	11:00			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	PRE	12J	18J			
Applic. Placement:	BROSOI	BROFOL	BROFOL			
Air Temp., Unit:	72 F	83 F	86 F			
% Relative Humidity:	53	74	72			
Wind Velocity, Unit:	3.5 MPH	5 MPH	2.5 MPH			
Soil Temp., Unit:	65 F	78 F	82 F			
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE			
% Cloud Cover:	10	20	20			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
ZEAMX		7 V	9 V			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
SORHA		12 IN	18 IN			

## 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:	24 GPA	24 GPA	24 GPA			
Propellant:	CO2	CO2	CO2			

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BURLEY TOBACCO

Trial ID: T0001  
Location: LEXINGTON, KY.

Study Dir.: CHARLES H. SLACK  
Investigator: Charles Slack

Weed Code	SETFA	AMACH	ABUTH	CHEAL	NIOTA	SETFA	AMACH	ABUTH	CHEAL	
Crop Code	NIOTA					NIOTA				
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes	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	Unit	Grow Stg	SETFA	AMACH	ABUTH	CHEAL	NIOTA	SETFA	AMACH	ABUTH	CHEAL	
1	SPARTAN	4 F		0.313 LB	A/A PRT		0	93	88	88	95	0	88	87	85	90
2	SPARTAN	4 F		0.313 LB	A/A PPI		3	88	92	92	93	0	88	87	87	88
3	SPARTAN	75 DF		0.313 LB	A/A PRT		3	90	87	87	92	0	88	85	87	90
4	SPARTAN	75 DF		0.313 LB	A/A PPI		0	88	88	87	93	0	88	88	85	88
5	COMMAND	3 ME		0.75 LB	A/A PRT		2	92	87	87	92	0	90	87	85	90
6	COMMAND	3 ME		0.75 LB	A/A PPI		0	92	75	80	90	0	88	73	78	88
7	SPARTAN	4 F		0.313 LB	A/A PRT		3	95	95	93	93	0	90	90	88	92
7	COMMAND	3 ME		0.75 LB	A/A PRT											
8	SPARTAN	4 F		0.313 LB	A/A PPI		2	95	93	93	95	0	90	90	88	90
8	COMMAND	3 ME		0.75 LB	A/A PPI											
9	SPARTAN	75 DF		0.313 LB	A/A PRT		0	92	93	93	95	0	90	90	90	88
9	COMMAND	3 ME		0.75 LB	A/A PRT											
10	SPARTAN	75 DF		0.313 LB	A/A PPI		0	93	92	93	95	0	88	88	90	90
10	COMMAND	3 ME		0.75 LB	A/A PPI											
11	PROWL	3.3 EC		0.75 LB	A/A PPI		3	93	88	90	90	0	87	85	85	88
11	COMMAND	3 ME		0.75 LB	A/A POST											
12	PROWL	3.3 EC		0.75 LB	A/A PPI		0	92	92	87	93	0	90	90	83	90
12	SPARTAN	4 F		0.313 LB	A/A PPI											
LSD (P=.05)							3.4	3.9	6.4	7.6	3.1	0.0	4.6	5.3	6.5	3.1
Standard Deviation							2.0	2.3	3.8	4.5	1.8	0.0	2.7	3.1	3.9	1.8
CV							145.85	2.49	4.25	5.0	1.97	0.0	3.08	3.59	4.49	2.05

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## BURLEY TOBACCO

Trial ID: T0001

Study Dir.: CHARLES H. SLACK

Location: LEXINGTON, KY.

Investigator: Charles Slack

Weed Code	SETFA	AMACH	ABUTH	CHEAL
Crop Code	NIOTA			
Rating Data Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	0	83	85	82	88
1	SPARTAN	4 F		0.313 LB	A/A PRT		0	83	85	82	88
2	SPARTAN	4 F		0.313 LB	A/A PPI		0	77	87	85	88
3	SPARTAN	75 DF		0.313 LB	A/A PRT		0	80	83	80	90
4	SPARTAN	75 DF		0.313 LB	A/A PPI		0	78	83	83	88
5	COMMAND	3 ME		0.75 LB	A/A PRT		0	85	60	80	88
6	COMMAND	3 ME		0.75 LB	A/A PPI		0	87	40	73	85
7	SPARTAN	4 F		0.313 LB	A/A PRT		0	90	88	87	92
7	COMMAND	3 ME		0.75 LB	A/A PRT						
8	SPARTAN	4 F		0.313 LB	A/A PPI		0	85	85	87	88
8	COMMAND	3 ME		0.75 LB	A/A PPI						
9	SPARTAN	75 DF		0.313 LB	A/A PRT		0	87	90	90	88
9	COMMAND	3 ME		0.75 LB	A/A PRT						
10	SPARTAN	75 DF		0.313 LB	A/A PPI		0	83	87	83	88
10	COMMAND	3 ME		0.75 LB	A/A PPI						
11	PROWL	3.3 EC		0.75 LB	A/A PPI		0	83	77	82	88
11	COMMAND	3 ME		0.75 LB	A/A POST						
12	PROWL	3.3 EC		0.75 LB	A/A PPI		0	82	90	80	88
12	SPARTAN	4 F		0.313 LB	A/A PPI						
LSD (P=.05)				0.0			0.0	8.4	11.8	7.6	5.6
Standard Deviation				0.0			0.0	5.0	6.9	4.5	3.3
CV				0.0			0.0	5.98	8.73	5.46	3.77

BURLEY TOBACCO

Trial ID: T0001                      Study Dir.: CHARLES H. SLACK  
Location: LEXINGTON, KY.            Investigator: Charles Slack

**GENERAL TRIAL INFORMATION**

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

**TRIAL LOCATION**

**City:** LEXINGTON                      **Trial Status:** COMPLETE  
**State/Prov.:** KY  
**Postal Code:** 40546                      **Initiation Date:** 05-25-00  
**Country:** USA

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	SETEA FOXTAIL, GIANT	SETARIA FABERI HERRM.
2.	AMACH PIGWEED, SMOOTH	AMARANTHUS CHLOROSTACHYS WILLD.
3.	ABUTH VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
4.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.

**Crop 1:** NIOTA TOBACCO, BURLEY                      **Variety:** NC3  
**Planting Date:** 05-25-00                      **Planting Method:** SET  
**Rate:** 7474 P/A                      **Depth:** 2 IN  
**Row Spacing:** 40 IN                      **Seed Bed:** VERY FINE  
**Soil Temperature:** 74 F                      **Soil Moisture:** ADEQUATE

**SITE AND DESIGN**

**Plot Width, Unit:** 6.66 FT                      **Plot Length, Unit:** 44 FT                      **Reps:** 3  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL                      **Study Design:** RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

**% Sand:** 6                      **% OM:** 3                      **Texture:** SILT LOAM  
**% Silt:** 64                      **pH:** 6.5                      **Soil Name:** NAURY  
**% Clay:** 30                      **CEC:** 17                      **Fert. Level:** EXCELLENT

**APPLICATION DESCRIPTION**

	A	B	C
<b>Application Date:</b>	05-25-00	05-25-00	06-08-00
<b>Time of Day:</b>	12:00 PM	12:00 PM	3:00 PM

Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PPI	PRT	POST
Applic. Placement:	BROSUI	BROSUI	BROFOL
Air Temp., Unit:	75 F	75 F	80 F
% Relative Humidity:	75	75	65
Wind Velocity, Unit:	3 MPH	3 MPH	4 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	70 F	70 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	NIOTA	NIOTA	NIOTA
Stage Scale:			4 LVS
Height, Unit:			8 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C
Weed 1 Code, Stage:	SETFA PPI	SETFA PRT	SETFA POST
Density, Unit:			1 IN
Weed 2 Code, Stage:	AMACH	AMACH	AMACH
Density, Unit:			1 IN
Weed 3 Code, Stage:	ABUTH	ABUTH	ABUTH
Density, Unit:			1 IN
Weed 4 Code, Stage:	CHEAL	CHEAL	CHEAL
Density, Unit:			1 IN

**APPLICATION EQUIPMENT**

	A	B	C
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:	6.66 FT	6.66 FT	6.66 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH
Incorporation Equip.:	F. CULT		
Hours to Incorp.:	0.5		
Incorp. Depth, Unit:	1.5 IN		
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2