



**2007**

**Herbicide Evaluation Trials**

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The following trials were conducted in corn and soybeans at the Spindletop Research Facility located in Lexington, Kentucky.

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## HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
AATREX	ATRAZINE	SYNGENTA
ACCENT	NICOSULFURON	DUPONT
ACTIVATOR 90	SURFACTANT	LOVELAND
AMS	AMMONIUM SULFATE	CLEAN CROP
AUTHORITY	SULFENTRAZONE	FMC
AUTHORITY FIRST	SULFENTRAZONE + CLORANSULAM	FMC
AUTHORITY MTZ	SULFENTRAZONE + METRIBUZIN	FMC
BALANCE PRO	ISOXAFLUTOLE	BAYER
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	SYNGENTA
CALLISTO	MESOTRIONE	SYNGENTA
CAMIX	S-METOLACHLOR + BENOXACOR	SYNGENTA
CANOPY	METRIBUZIN + CHLORIMURON ETHYL	DUPONT
CHA 7950	CHA 7950	CHEMINOVA
CINCH	S-METOLACHLOR	DUPONT
CLARITY	DIGLYCOLAMINE SALT OF DICAMBA	BASF
CROP OIL CONCENTRATE (COC)		LOVELAND
DEGREE	ACETOCHLOR	MONSANTO
DEGREE XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
DOMAIN	FLUFENACET	BAYER
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA
DURANGO	GLYPHOSATE	DOW AGROSCIENCE
ENVIVE	FLUMIOXAZIN + THIFENSULFURON	DUPONT
EXTREME	IMAZETHAPYR + GLYPHOSATE	BASF
FIRSTRATE	CLORANSULAM	DOW AGROSCIENCE
F7119(AUTHORITY ASSIST)	SULFENTRAZONE + IMAZETHAPYR	FMC

## HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
GANGSTER FR	CLORANSULAM	VALENT
GANGSTER V	FLUMIOXAZIN	VALENT
GF 1280	GF 1280	DOW AGROSCIENCE
GLYFOS XTRA	GLYPHOSATE	CHEMINOVA
GRAMOXONE INTEON	PARAQUAT	SYNGENTA
GUARDSMAN MAX	DIMETHENAMID-P + ATRAZINE	BASF
HALEX GT	GLYPHOSATE (PS) + MESOTRIONE + s-METOLACHLOR	SYNGENTA
HARNESS	ACETOCHLOR	MONSANTO
HARNESS XTRA	ACETOCHLOR + ATRAZINE + MON13900	MONSANTO
HORNET	FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
IMPACT	TOPRAMEZONE	AMVAC
INTRRO	ALACHLOR	MONSANTO
INDUCE	SURFACTANT	HELENA
KEYSTONE	ACETOCHLOR + ATRAZINE	DOW AGROSCIENCE
KIH-485	KIH-485	KUMIAI CHEMICAL
LAUDIS	TEMBOTRIONE	BAYER
LEXAR	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIBERTY	GLUFOSINATE-AMMONIUM	BAYER
LIQUID N	28% NITROGEN	
LUMAX	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MARKSMAN	DICAMBA + ATRAZINE	BASF
METRIBUZIN	METRIBUZIN	CHEMINOVA
MF-0019	MF-0019	ACETO
MSO	METHYLATED SEED OIL	LOVELAND
OPTION CORN HERBICIDE	FORAMSULFURON	BAYER
OUTLOOK	DIMETHENAMID-P	BASF
PERMIT	HALOSULFURON-METHYL	GOWAN
PREFIX	S-METOLACHLOR + BENOXACOR	SYNGENTA
PROWL H2O	PENDIMETHALIN	BASF
PURSUIT	IMAZETHAPYR	BASF
PYTHON	FLUMETSULAM	DOW AGROSCIENCE

## HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
RAGE D-TECH	CARFENTRAZONE-ETHYL + 2,4-D	FMC
REFLEX	FORMESAFEN	SYNGENTA
RESOLVE	RIMSULFURON	DUPONT
RESOLVE + ISOXADIFEN	RIMSULFURON + SAFENER	DUPONT
RESOURCE	FLUMICLORAC PENTYL	VALENT
ROUNDUP ORIGINAL MAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP WEATHER MAX	GLYPHOSATE + ADJUVANT (POTASSIUM SALT)	MONSANTO
SAMSON	NICOSULFURON	ISK
SENCOR	METRIBUZIN	BAYER
SEQUENCE	GLYPHOSATE + S-METOLACHLOR	SYNGENTA
SONIC	SULFENTRAZONE + CLORANSULAM-METHYL	DOW AGROSCIENCE
SP17385	SP17385	BAYER
STALWART XTRA	METOLACHLOR + ATRAZINE	SIPCAM
STATUS	DIFLUFENZOPYR + DICAMBA	BASF
STEADFAST	NICOSULFURON + RIMSULFURON	DUPONT
STEADFAST + ISOXADIFEN	NICOSULFURON + RIMSULFURON + SAFENER	DUPONT
STOUT + ISOXADIFEN	NICOSULFURON + THIFENSULFURON-METHYL + SAFENER	DUPONT
SURESTART	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
TOUCHDOWN Total	GLYPHOSATE	SYNGENTA
UAN 28%	28% NITROGEN	
VALOR SX	FLUMIOXAZIN (V-53482)	VALENT
VALOR XLT	FLUMIOXAZIN + CHLORIMURON	VALENT
WEEDONE LV4	2,4-D ESTER	NUFARM AMERICAS INC
YUKON	DICAMBA + HALOSULFURON-METHYL	GOWAN

## DEFINITIONS FOR METHODS OF APPLICATION

### PREEMERGENCE

30DAY	30 DAYS BEFORE PLANTING
3WK	3 WEEKS BEFORE PLANTING
2WK	2 WEEKS BEFORE PLANTING
7DAY	7 DAYS BEFORE PLANTING
EPP	EARLY PRE PLANT
PRE	PREEMERGENCE

### POSTEMERGENCE

EP	EARLY POSTEMERGENCE, WEEDS 0-2"
MP	MID-POSTEMERGENCE, WEEDS 2-4"
+MP	MID-POSTEMERGENCE, FOLLOWING A PREEMERGENT
LP	LATE POSTEMERGENCE, WEEDS 4-6"
<4"	LESS THAN 4 INCH WEEDS
12C	12 INCH CORN
20C	20 INCH CORN
30C	30 INCH CORN
V2	8 INCH CORN, 4LF
V3	10 INCH CORN, 5LF
2WAP	2 WEEKS AFTER PLANTING
3WAP	3 WEEKS AFTER PLANTING
3TRI	THREE TRIFOLIATES
21D,+21D	21 DAYS AFTER PLANTING
28D	28 DAYS AFTER PLANTING
30D	30 DAYS AFTER PLANTING
32D	32 DAYS AFTER PLANTING
42D	42 DAYS AFTER PLANTING
+45D	45 DAYS AFTER PLANTING
53D	53 DAYS AFTER PLANTING
56D	56 DAYS AFTER PLANTING
63D	63 DAYS AFTER PLANTING
64D	64 DAYS AFTER PLANTING
84D	84 DAYS AFTER PLANTING
REG	REGROWTH
REG,<4"	REGROWTH, LESS THAN 4 INCH WEEDS
REG-V8	REGROWTH, UP TO 24 INCH CORN



# ABBREVIATIONS

## Crop and Weed Species

<u>ABB</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>
AMACH	Smooth Pigweed	<i>Amaranthus hybridus</i>
AMBEL	Common Ragweed	<i>Ambrosia artemisiifolia</i>
AMBTR	Giant Ragweed	<i>Ambrosia trifida</i>
CHEAL	Common Lambsquarters	<i>Chenopodium album</i>
GLXMA	Soybean	<i>Glycine max</i>
ERICA	Marestail	<i>Conyza canadensis</i>
IPOSS	Morningglory	<i>Ipomoea sp.</i>
LAMAM	Henbit	<i>Lamium amplexicaule</i>
LAMPU	Purple Deadnettle	<i>Lamium purpureum</i>
SETFA	Giant Foxtail	<i>Setaria faberi</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>

# APRIL CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	MX	MN	
04-01-2007	72	61	66	0.40	100	38	61	59	63	61	
04-02-2007	75	57	66		100	32	61	58	63	60	
04-03-2007	78	55	66	0.78	100	40	60	57	62	59	
04-04-2007	61	33	47	0.01	100	57	59	55	61	55	
04-05-2007	40	30	35		69	52	55	51	54	50	
04-06-2007	40	24	32		100	42	51	48	50	48	
04-07-2007	32	22	27		89	41	48	46	47	44	
04-08-2007	40	23	32		78	45	46	44	46	43	
04-09-2007	50	25	38		100	29	47	43	48	43	
04-10-2007	57	28	42		100	26	48	44	51	45	
04-11-2007	61	45	53	0.38	100	44	50	47	52	49	
04-12-2007	50	39	44		71	59	49	48	51	48	
04-13-2007	54	37	46		91	42	50	47	53	47	
04-14-2007	52	39	46	1.26	100	100	50	48	52	49	
04-15-2007	47	34	40		100	51	48	47	50	47	
04-16-2007	58	39	48		61	30	49	46	51	46	
04-17-2007	69	39	54		63	28	51	46	54	47	
04-18-2007	68	48	58	0.05	100	50	52	49	56	51	
04-19-2007	52	43	48		100	100	52	51	55	53	
04-20-2007	67	42	54		100	38	53	49	57	50	
04-21-2007	73	44	58		100	28	54	50	59	52	
04-22-2007	78	48	63		100	28	55	52	58	54	
04-23-2007	72	61	66		69	45	56	54	59	56	
04-24-2007	79	58	68	0.45	100	53	59	56	62	58	
04-25-2007	76	65	70		100	58	60	58	63	61	
04-26-2007	71	61	66	0.54	100	69	60	59	62	61	
04-27-2007	59	52	56		100	94	59	58	61	59	
04-28-2007	71	51	61		100	44	59	57	60	58	
04-29-2007	76	52	64		75	33	59	57	61	57	
04-30-2007	84	59	72		62	34	61	58	63	59	

Summary for the period 4-1-2007 through 4-30-2007:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	MX	MN	
	62	44	53	3.87	91	48	54	51	56	52	
(Deviation from normal)	-3	-1	-2	-0.01							

Data if used for legal purposes must be certified by NCDC,  
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# MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP	
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MX		MN
05-01-2007	81	64	72			64	41	62	59	64	61	
05-02-2007	77	61	69	0.01		100	57	62	61	64	62	
05-03-2007	62	55	58	0.39		100	100	62	60	63	62	
05-04-2007	72	59	66	0.25		100	100	61	60	64	62	
05-05-2007	76	61	68	0.06		100	67	62	61	65	63	
05-06-2007	68	50	59			100	27	62	60	65	63	
05-07-2007	74	46	60			61	29	61	58	64	60	
05-08-2007	80	46	63			100	39	61	58	64	59	
05-09-2007	85	55	70			100	28	62	58	65	60	
05-10-2007	83	62	72			100	41	64	61	67	63	
05-11-2007	82	64	73			100	41	64	63	67	64	
05-12-2007	83	60	72			100	36	66	63	68	65	
05-13-2007	70	48	59			79	26	66	62	67	62	
05-14-2007	80	45	62			78	36	67	60	69	59	
05-15-2007	81	65	73			100	50	69	64	71	64	
05-16-2007	67	47	57	0.22		100	54	68	65	68	64	
05-17-2007	65	45	55	0.19		100	53	65	61	65	61	
05-18-2007	63	41	52			100	39	65	60	64	59	
05-19-2007	71	40	56			100	29	67	59	67	58	
05-20-2007	78	52	65			68	29	69	61	69	60	
05-21-2007	82	55	68			75	33	71	63	70	62	
05-22-2007	86	56	71			100	25	72	65	72	64	
05-23-2007	86	61	74			72	32	72	66	72	65	
05-24-2007	83	66	74			80	42	73	68	72	67	
05-25-2007	85	64	74			100	32	74	68	74	67	
05-26-2007	86	60	73			100	29	74	68	73	67	
05-27-2007	84	62	73			100	34	74	68	74	68	
05-28-2007	87	63	75	0.33		100	33	75	69	74	69	
05-29-2007	89	64	76			100	32	76	69	75	69	
05-30-2007	90	64	77			100	21	76	71	76	70	
05-31-2007	87	65	76			80	26	75	70	75	70	

Summary for the period 5-1-2007 through 5-31-2007:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MX	
	79	56	68	1.45	92	41	68	63	69	64	
(Deviation from normal)	+3	+1	+2	-3.02							

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# JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
06-01-2007	89	68	78		100	30	75	70	75	70	
06-02-2007	83	66	74		100	48	73	70	74	70	
06-03-2007	81	66	74	0.03	100	49	74	71	74	71	
06-04-2007	77	62	70	0.37	100	56	72	69	73	70	
06-05-2007	75	58	66	0.15	100	80	72	68	72	69	
06-06-2007	81	54	68	0.01	100	33	73	66	73	66	
06-07-2007	90	64	77		76	36	74	68	74	68	
06-08-2007	86	70	78	0.25	100	63	73	71	74	72	
06-09-2007	81	62	72		100	44	76	70	75	71	
06-10-2007	78	56	67		100	30	73	69	74	69	
06-11-2007	84	62	73		75	24	75	69	76	69	
06-12-2007	84	58	71		100	27	74	69	76	69	
06-13-2007	87	58	72		100	31	74	69	76	69	
06-14-2007	87	62	74		100	30	76	70	78	71	
06-15-2007	84	62	73		100	27	76	70	78	71	
06-16-2007	88	58	73		100	24	76	70	78	71	
06-17-2007	94	64	79		70	27	77	71	80	72	
06-18-2007	92	70	81		63	26	76	72	79	73	
06-19-2007	82	67	74	0.33	100	56	75	73	77	75	
06-20-2007	82	60	71		100	27	77	71	78	71	
06-21-2007	88	56	72		100	21	77	69	79	70	
06-22-2007	73	61	67	0.02	100	55	73	71	75	72	
06-23-2007	82	58	70	0.04	100	39	73	68	75	70	
06-24-2007	86	65	76	0.05	100	48	75	70	77	72	
06-25-2007	88	68	78		100	45	76	71	78	72	
06-26-2007	91	68	80		100	45	76	72	78	73	
06-27-2007	91	68	80		100	38	78	72	81	74	
06-28-2007	85	70	78	0.52	100	58	76	74	78	75	
06-29-2007	84	69	76		100	59	77	73	79	74	
06-30-2007	81	68	74		100	56	77	73	78	74	

Summary for the period 6-1-2007 through 6-30-2007:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
	84	63	74	1.77	96	41	75	70	76	71	
(Deviation from normal)	+2	+1	+1	-1.89							

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# JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
07-01-2007	80	64	72		75	30	76	72	77	73	
07-02-2007	80	57	68		75	31	77	70	78	70	
07-03-2007	87	56	72		100	37	77	70	79	71	
07-04-2007	88	69	78	2.23	100	49	76	73	79	74	
07-05-2007	82	66	74	0.30	100	71	75	72	77	73	
07-06-2007	88	67	78		100	34	79	73	80	74	
07-07-2007	89	65	77		100	31	80	74	81	75	
07-08-2007	89	65	77		100	35	80	75	81	75	
07-09-2007	89	68	78		100	45	80	75	81	75	
07-10-2007	84	71	78	0.54	100	62	78	76	79	77	
07-11-2007	82	65	74	0.01	100	44	79	75	80	76	
07-12-2007	79	58	68		100	46	77	73	77	73	
07-13-2007	78	63	70	0.08	100	62	75	72	76	73	
07-14-2007	84	60	72		100	44	76	71	77	72	
07-15-2007	87	69	78		100	49	77	73	78	74	
07-16-2007	87	66	76		100	39	79	74	79	74	
07-17-2007	87	67	77	0.05	100	55	78	74	78	74	
07-18-2007	88	67	78	0.81	100	62	78	74	78	75	
07-19-2007	88	69	78	0.48	100	51	79	75	79	76	
07-20-2007	77	63	70	0.20	98	47	79	74	78	75	
07-21-2007	75	58	66		83	45	77	73	76	73	
07-22-2007	78	57	68		85	41	76	71	75	71	
07-23-2007	80	59	70		83	51	75	71	75	71	
07-24-2007	78	63	70		94	47	75	72	75	72	
07-25-2007	82	59	70		100	46	76	71	75	71	
07-26-2007	83	65	74		93	57	76	72	76	72	
07-27-2007	84	66	75	2.18	99	70	75	73	76	73	
07-28-2007	75	68	72	0.02	99	81	74	72	74	73	
07-29-2007	83	71	77		95	62	77	73	76	74	
07-30-2007	85	68	76		95	60	78	74	77	75	
07-31-2007	86	68	77		86	46	79	75	77	75	

Summary for the period 7-1-2007 through 7-31-2007:

	AIR TEMP			TOTAL	RH		SOIL TEMP				TOTAL
	MX	MN	AV	PRECIP	MX	MN	GRASS	BARE	MX	MN	EVAP
	83	64	74	6.90	95	49	77	73	78	74	
(Deviation from normal)	-3	-0	-1	+1.90							

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# AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
08-01-2007	87	64	76		88	48	78	74	77	73	
08-02-2007	90	66	78		94	47	78	74	78	74	
08-03-2007	90	70	80	0.12	94	47	79	75	78	75	
08-04-2007	92	70	81		95	45	79	75	78	75	
08-05-2007	92	72	82	0.73	98	57	79	76	79	76	
08-06-2007	94	75	84		82	49	79	76	80	77	
08-07-2007	95	77	86		81	42	79	77	80	78	
08-08-2007	96	76	86		87	45	80	77	81	78	
08-09-2007	96	77	86		91	43	80	78	81	79	
08-10-2007	90	74	82		90	44	80	78	80	79	
08-11-2007	87	66	76		94	42	80	76	79	76	
08-12-2007	90	62	76		94	43	79	74	78	74	
08-13-2007	91	68	80		89	46	79	75	79	75	
08-14-2007	87	58	72		80	24	77	73	77	73	
08-15-2007	98	67	82		76	28	77	73	78	73	
08-16-2007	99	70	84	0.11	95	31	78	75	79	76	
08-17-2007	87	65	76	0.02	98	34	77	74	78	75	
08-18-2007	81	60	70		76	37	75	72	75	73	
08-19-2007	91	63	77		94	50	75	72	78	72	
08-20-2007	93	73	83		91	40	77	74	81	75	
08-21-2007	83	68	76	0.74	98	63	75	73	78	75	
08-22-2007	94	73	84		91	47	79	73	83	75	
08-23-2007	95	73	84		93	38	80	75	84	78	
08-24-2007	94	77	86		71	38	79	76	84	78	
08-25-2007	88	73	80		86	53	79	76	83	78	
08-26-2007	84	69	76		92	44	78	75	83	77	
08-27-2007	89	63	76		90	36	78	73	82	75	
08-28-2007	95	65	80		85	35	79	73	83	75	
08-29-2007	93	71	82	0.52	89	42	79	75	84	77	
08-30-2007	85	68	76	0.32	97	63	77	75	81	77	
08-31-2007	79	63	71		89	59	75	73	78	75	

Summary for the period 8-1-2007 through 8-31-2007:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
	90	69	80	2.56	89	44	78	75	80	76	
(Deviation from normal)	+7	+6	+6	-1.37							

Data if used for legal purposes must be certified by NCDC,  
National Climate Data Center (Phone 828/271-4800)

# SEPTEMBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MX	
09-01-2007	83	59	71		88	41	75	71	79	73	
09-02-2007	87	60	74		82	48	75	71	79	72	
09-03-2007	91	67	79		96	28	76	72	80	74	
09-04-2007	92	59	76		88	26	76	71	80	73	
09-05-2007	95	62	78		81	22	76	71	80	73	
09-06-2007	88	71	80		75	41	75	72	79	75	
09-07-2007	89	75	82		71	44	76	73	80	75	
09-08-2007	89	72	80		78	43	77	73	81	76	
09-09-2007	78	72	75	0.18	97	73	75	74	79	77	
09-10-2007	76	70	73	0.03	98	80	75	74	77	76	
09-11-2007	76	61	68	0.01	96	51	74	71	77	73	
09-12-2007	79	53	66		92	29	72	68	76	69	
09-13-2007	84	48	66		93	26	72	66	76	68	
09-14-2007	80	62	71	0.02	89	40	72	69	75	71	
09-15-2007	68	48	58		82	30	70	66	74	68	
09-16-2007	70	46	58		78	28	69	64	73	66	
09-17-2007	81	48	64		81	28	70	64	74	66	
09-18-2007	86	58	72		76	37	71	65	76	68	
09-19-2007	87	55	71		96	32	72	66	76	69	
09-20-2007	86	56	71		94	30	72	67	77	69	
09-21-2007	89	58	74		83	37	73	67	78	70	
09-22-2007	90	68	79		85	39	75	70	79	72	
09-23-2007	91	64	78		91	34	75	70	79	73	
09-24-2007	93	65	79		86	33	76	71	80	73	
09-25-2007	93	72	82		84	35	76	72	81	75	
09-26-2007	86	66	76		95	49	75	72	79	75	
09-27-2007	73	61	67	0.90	99	75	72	70	75	72	
09-28-2007	77	55	66	0.01	99	29	70	67	73	68	
09-29-2007	76	48	62		91	28	68	63	71	65	
09-30-2007	83	53	68		75	27	67	63	71	65	

Summary for the period 9-1-2007 through 9-30-2007:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MX	
	84	60	72	1.15	87	39	73	69	77	71	
(Deviation from normal)	+6	+5	+6	-2.05							

Data if used for legal purposes must be certified by NCDC,  
National Climate Data Center (Phone 828/271-4800)

# APRIL-SEPTEMBER 2007 SUMMARY CLIMATOLOGICAL DATA, SPINDLETOP

----- AIR TEMPERATURE -----										-- SOD --	
MONTH	AVERAGE			EXTREME		AVG DEPART	NO. OF DAYS		4" TEMP		
	MAX	MIN	AVG	MAX	MIN	FROM NORM	MAX	MIN	MAX	MIN	
Apr	62	44	53	84	22	-2	0	6	54	51	
May	79	56	68	90	40	+4	1	0	68	63	
Jun	84	63	74	94	54	+2	5	0	75	70	
Jul	83	64	74	89	56	-2	0	0	77	73	
Aug	90	69	80	99	58	+5	20	0	78	75	
Sep	84	60	72	95	46	+4	7	0	73	69	

----- PRECIPITATION -----							
MONTH	DEPARTURE			GREATEST			
	TOTAL	FROM NORMAL	CUMULATIVE TOTAL	DEPARTURE	24 HOUR TOTAL	% RAIN DAYS	NO. DAYS >=.01
Apr	3.87	-0.01	3.87	-0.01	1.26	23	7
May	1.45	-3.02	5.32	-3.03	0.39	19	6
Jun	1.77	-1.89	7.09	-4.92	0.52	30	9
Jul	6.90	+1.90	13.99	-3.02	2.23	32	10
Aug	2.56	-1.37	16.55	-4.39	0.74	23	7
Sep	1.15	-2.05	17.70	-6.44	0.90	13	4

Data if used for legal purposes must be certified by NCDC,  
National Climate Data Center (Phone 828/271-4800)



Plant and Soil Science, U of KY  
Weed Science Research

CORN PREEMERGENCE

Trial ID: C7001 Protocol ID: KIH 07-01  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	Giant foxtail	
Crop Code	ZEAMX					ZEAMX	
BBCH Scale	BCOR					BCOR	
Crop Name	Corn					Corn	
Rating Date	5-16-07	5-16-07	5-16-07	5-16-07	5-16-07	5-31-07	5-31-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15	30 30	30 30
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	31 DP-1	31 DP-1
Plant-Eval Interval	16 DP-1	16 DP-1	16 DP-1	16 DP-1	16 DP-1	31 DP-1	31 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	CHECK UNTREATED					0	0	0	0	0	0	0
2	KIH 485	85	0.148	LB	A/A PRE	0	99	95	99	99	0	99
2	CALLISTO	4	0.168	LB	A/A PRE							
3	KIH 485	85	0.187	LB	A/A PRE	0	99	93	99	99	0	99
3	CALLISTO	4	0.168	LB	A/A PRE							
4	KIH 485	85	0.148	LB	A/A PRE	0	98	93	99	99	0	98
4	AATREX	4	0.625	LB	A/A PRE							
4	CALLISTO	4	0.168	LB	A/A PRE							
5	KIH 485	85	0.187	LB	A/A PRE	0	99	95	99	99	0	99
5	AATREX	4	0.625	LB	A/A PRE							
5	CALLISTO	4	0.168	LB	A/A PRE							
6	KIH 485	85	0.148	LB	A/A PRE	0	99	91	99	99	0	99
6	BALANCE PRO	4	0.079	LB	A/A PRE							
7	KIH 485	85	0.186	LB	A/A PRE	0	99	95	99	96	0	92
7	BALANCE PRO	4	0.079	LB	A/A PRE							
8	KIH 485	85	0.148	LB	A/A PRE	0	99	93	99	96	0	99
8	AATREX	4	0.625	LB	A/A PRE							
8	BALANCE PRO	4	0.079	LB	A/A PRE							
9	KIH 485	85	0.187	LB	A/A PRE	0	99	95	99	99	0	99
9	AATREX	4	0.625	LB	A/A PRE							
9	BALANCE PRO	4	0.079	LB	A/A PRE							
10	KIH 485	85	0.187	LB	A/A PRE	0	99	92	99	96	0	99
10	AATREX	4	0.625	LB	A/A PRE							
11	LUMAX	3.94	2.47	LB	A/A PRE	0	99	95	99	96	0	99
12	LEXAR	3.7	2.78	LB	A/A PRE	0	99	98	99	98	0	99
LSD (P=.05)						0.0	1.1	4.2	0.0	4.2	0.0	1.8
Standard Deviation						0.0	0.7	2.5	0.0	2.5	0.0	1.0
CV						0.0	0.74	2.86	0.0	2.78	0.0	1.16
Grand Mean						0.0	90.64	86.25	90.75	89.69	0.0	90.03

Plant and Soil Science, U of KY  
Weed Science Research

CORN PREEMERGENCE

Trial ID: C7001      Protocol ID: KIH 07-01  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	Giant foxtail	
Crop Code	ZEAMX					ZEAMX	
BBCH Scale	BCOR					BCOR	
Crop Name	Corn					Corn	
Rating Date	5-16-07	5-16-07	5-16-07	5-16-07	5-16-07	5-31-07	5-31-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15	30 30	30 30
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	16 DP-1	16 DP-1	16 DP-1	16 DP-1	16 DP-1	31 DP-1	31 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
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Replicate F		0.000	1.000	0.865		0.000	0.273	0.000	1.557			
Replicate Prob(F)		1.0000	0.3840	0.4348		1.0000	0.7637	1.0000	0.2331			
Treatment F		0.000	5500.563	366.243		0.000	386.318	0.000	2227.794			
Treatment Prob(F)		1.0000	0.0001	0.0001		1.0000	0.0001	1.0000	0.0001			

Plant and Soil Science, U of KY  
Weed Science Research

CORN PREEMERGENCE

Trial ID: C7001 Protocol ID: KIH 07-01  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS		SETFA	AMBTR
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory		Giant foxtail	Giant Ragweed
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Date	5-31-07	5-31-07	5-31-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	59 59	59 59	59 59
Trt-Eval Interval						
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	11	12	13
1	CHECK UNTREATED					0	0	0	0	0	0
2	KIH 485	85	0.148	LB	A/A PRE	83	99	85	0	99	76
2	CALLISTO	4	0.168	LB	A/A PRE						
3	KIH 485	85	0.187	LB	A/A PRE	87	99	92	0	96	82
3	CALLISTO	4	0.168	LB	A/A PRE						
4	KIH 485	85	0.148	LB	A/A PRE	82	99	86	0	98	75
4	AATREX	4	0.625	LB	A/A PRE						
4	CALLISTO	4	0.168	LB	A/A PRE						
5	KIH 485	85	0.187	LB	A/A PRE	85	99	88	0	99	77
5	AATREX	4	0.625	LB	A/A PRE						
5	CALLISTO	4	0.168	LB	A/A PRE						
6	KIH 485	85	0.148	LB	A/A PRE	77	99	80	0	99	63
6	BALANCE PRO	4	0.079	LB	A/A PRE						
7	KIH 485	85	0.186	LB	A/A PRE	85	99	84	0	92	72
7	BALANCE PRO	4	0.079	LB	A/A PRE						
8	KIH 485	85	0.148	LB	A/A PRE	83	99	83	0	99	70
8	AATREX	4	0.625	LB	A/A PRE						
8	BALANCE PRO	4	0.079	LB	A/A PRE						
9	KIH 485	85	0.187	LB	A/A PRE	75	99	75	0	99	58
9	AATREX	4	0.625	LB	A/A PRE						
9	BALANCE PRO	4	0.079	LB	A/A PRE						
10	KIH 485	85	0.187	LB	A/A PRE	77	99	82	0	99	57
10	AATREX	4	0.625	LB	A/A PRE						
11	LUMAX	3.94	2.47	LB	A/A PRE	88	99	85	0	99	83
12	LEXAR	3.7	2.78	LB	A/A PRE	88	99	90	0	99	83
LSD (P=.05)						11.1	0.0	9.0	0.0	3.1	15.9
Standard Deviation						6.5	0.0	5.3	0.0	1.8	9.4
CV						8.64	0.0	6.84	0.0	2.03	14.15
Grand Mean						75.75	90.75	77.5	0.0	89.78	66.31

Plant and Soil Science, U of KY  
Weed Science Research

CORN PREEMERGENCE

Trial ID: C7001      Protocol ID: KIH 07-01  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS		SETFA	AMBTR
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory		Giant foxtail	Giant Ragweed
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Date	5-31-07	5-31-07	5-31-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	59 59	59 59	59 59
Trt-Eval Interval						
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12	13
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Replicate F	2.982	0.000	1.890	0.000	1.265	3.066
Replicate Prob(F)	0.0715	1.0000	0.1748	1.0000	0.3020	0.0669
Treatment F	41.237	0.000	65.782	0.000	727.537	17.625
Treatment Prob(F)	0.0001	1.0000	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

CORN PREEMERGENCE

Trial ID: C7001      Protocol ID: KIH 07-01  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed
Pest Code	CHEAL	IPOSS
Pest Name	Lambsquarters, common	Morning glory
Crop Code		
BBCH Scale		
Crop Name		
Rating Date	6-29-07	6-29-07
Rating Data Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	59 59	59 59
Trt-Eval Interval		
Plant-Eval Interval	60 DP-1	60 DP-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15
1	CHECK UNTREATED					0	0
2	KIH 485	85	0.148	LB A/A	PRE	99	74
2	CALLISTO	4	0.168	LB A/A	PRE		
3	KIH 485	85	0.187	LB A/A	PRE	99	88
3	CALLISTO	4	0.168	LB A/A	PRE		
4	KIH 485	85	0.148	LB A/A	PRE	99	78
4	AATREX	4	0.625	LB A/A	PRE		
4	CALLISTO	4	0.168	LB A/A	PRE		
5	KIH 485	85	0.187	LB A/A	PRE	99	82
5	AATREX	4	0.625	LB A/A	PRE		
5	CALLISTO	4	0.168	LB A/A	PRE		
6	KIH 485	85	0.148	LB A/A	PRE	99	67
6	BALANCE PRO	4	0.079	LB A/A	PRE		
7	KIH 485	85	0.186	LB A/A	PRE	99	72
7	BALANCE PRO	4	0.079	LB A/A	PRE		
8	KIH 485	85	0.148	LB A/A	PRE	99	73
8	AATREX	4	0.625	LB A/A	PRE		
8	BALANCE PRO	4	0.079	LB A/A	PRE		
9	KIH 485	85	0.187	LB A/A	PRE	99	63
9	AATREX	4	0.625	LB A/A	PRE		
9	BALANCE PRO	4	0.079	LB A/A	PRE		
10	KIH 485	85	0.187	LB A/A	PRE	99	65
10	AATREX	4	0.625	LB A/A	PRE		
11	LUMAX	3.94	2.47	LB A/A	PRE	96	78
12	LEXAR	3.7	2.78	LB A/A	PRE	99	86
LSD (P=.05)						2.5	15.5
Standard Deviation						1.5	9.1
CV						1.66	13.25
Grand Mean						90.5	68.86

Plant and Soil Science, U of KY  
Weed Science Research

CORN PREEMERGENCE

Trial ID: C7001      Protocol ID: KIH 07-01  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed	W Weed
Pest Code	CHEAL	IPOSS
Pest Name	Lambsquarters, common	Morning glory
Crop Code		
BBCH Scale		
Crop Name		
Rating Date	6-29-07	6-29-07
Rating Data Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	59 59	59 59
Trt-Eval Interval		
Plant-Eval Interval	60 DP-1	60 DP-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt	Treatment	Form	Rate	Growth		
No.	Name	Conc	Rate	Unit	Stage	
						14      15

Replicate F	1.000	4.181
Replicate Prob(F)	0.3840	0.0289
Treatment F	1084.000	19.131
Treatment Prob(F)	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

## CORN PREEMERGENCE

Trial ID: C7001      Protocol ID: KIH 07-01  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC63-74  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

## CORN PREEMERGENCE

Trial ID: C7001      Protocol ID: KIH 07-01  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

A

Application Date: 5-1-07  
 Time of Day: 10 AM  
 Application Method: SPRAY  
 Application Timing: PRE  
 Application Placement: BROSOI  
 Applied By: C H SLACK  
 Air Temperature, Unit: 72 F  
 % Relative Humidity: 56  
 Wind Velocity, Unit: 6 MPH  
 Wind Direction: SW  
 Soil Temperature, Unit: 63 F  
 Soil Moisture: ADEQUATE  
 % Cloud Cover: 0

**Crop Stage At Each Application**

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

**Pest Stage At Each Application**

A

Pest 1 Code, Disc., Scale: SETFA W  
 Pest 2 Code, Disc., Scale: AMBTR W  
 Pest 3 Code, Disc., Scale: CHEAL W  
 Pest 4 Code, Disc., Scale: IPOSS W

**Application Equipment**

A

Appl. Equipment: ATV  
 Operating Pressure, Unit: 30 PSI  
 Nozzle Type: FLAT FAN  
 Nozzle Size: 8004 DG  
 Nozzle Spacing, Unit: 20 IN  
 Boom Length, Unit: 10 FT  
 Boom Height, Unit: 30 IN  
 Ground Speed, Unit: 4 MPH  
 Carrier: WATER  
 Spray Volume, Unit: 24 GPA  
 Propellant: CO2



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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7002 Protocol ID: KIH 07-03  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Giant foxtail
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
Rating Date	5-15-07	5-15-07	5-15-07	5-15-07	5-25-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	BEFORE V3
Days After First/Last Applic.	14 14	14 14	14 14	14 14	24 0
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	24 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK UNTREATED					0	0	0	0	0	0
2	KIH 485	85	0.074	LB A/A	PRE	0	87	70	87	0	82
3	KIH 485	85	0.094	LB A/A	PRE	0	82	67	83	0	78
4	KIH 485	85	0.134	LB A/A	PRE	0	88	67	93	0	86
5	KIH 485	85	0.161	LB A/A	PRE	0	92	70	92	0	90
6	KIH 485	85	0.187	LB A/A	PRE	0	92	77	94	0	90
7	KIH 485	85	0.223	LB A/A	PRE	0	94	75	94	0	92
8	KIH 485	85	0.074	LB A/A	PRE	0	89	63	89	0	85
8	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
8	AMS		3.7	% V/V	V3						
9	KIH 485	85	0.094	LB A/A	PRE	0	86	70	88	0	82
9	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
9	AMS		3.7	% V/V	V3						
10	KIH 485	85	0.134	LB A/A	PRE	0	89	67	89	0	88
10	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
10	AMS		3.7	% V/V	V3						
11	KIH 485	85	0.161	LB A/A	PRE	0	94	72	90	0	93
11	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
11	AMS		3.7	% V/V	V3						
12	KIH 485	85	0.187	LB A/A	PRE	0	96	70	96	0	94
12	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
12	AMS		3.7	% V/V	V3						
13	KIH 485	85	0.223	LB A/A	PRE	0	93	68	93	0	88
13	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
13	AMS		3.7	% V/V	V3						
14	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	0	98	75	93	0	93

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7002 Protocol ID: KIH 07-03  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Giant foxtail
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
Rating Date	5-15-07	5-15-07	5-15-07	5-15-07	5-25-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	BEFORE V3
Days After First/Last Applic.	14 14	14 14	14 14	14 14	24 0
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	24 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	
15	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	0	96	70		92	0	93
15	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3							
15	AMS		3.7	% V/V	V3							
LSD (P=.05)						0.0	6.9	15.6		6.8	0.0	6.7
Standard Deviation						0.0	4.1	9.3		4.1	0.0	4.0
CV						0.0	4.85	14.24		4.81	0.0	4.85
Grand Mean						0.0	85.07	65.33		84.8	0.0	82.29
Replicate F						0.000	5.573	1.406		4.916	0.000	1.697
Replicate Prob(F)						1.0000	0.0092	0.2620		0.0148	1.0000	0.2016
Treatment F						0.000	100.699	11.763		101.175	0.000	101.971
Treatment Prob(F)						1.0000	0.0001	0.0001		0.0001	1.0000	0.0001

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7002 Protocol ID: KIH 07-03  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Giant foxtail	Giant ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Date	5-25-07	5-25-07	6-8-07	6-8-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE V3	BEFORE V3	2 WEEK > V3	2 WEEK > V3
Days After First/Last Applic.	24 0	24 0	38 14	38 14
Plant-Eval Interval	24 DP-1	24 DP-1	38 DP-1	38 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11
1	CHECK UNTREATED					0	0	0	0	0
2	KIH 485	85	0.074	LB A/A	PRE	70	85	0	68	50
3	KIH 485	85	0.094	LB A/A	PRE	63	83	0	68	43
4	KIH 485	85	0.134	LB A/A	PRE	63	92	0	78	43
5	KIH 485	85	0.161	LB A/A	PRE	67	92	0	89	50
6	KIH 485	85	0.187	LB A/A	PRE	73	92	0	83	57
7	KIH 485	85	0.223	LB A/A	PRE	75	92	0	88	65
8	KIH 485	85	0.074	LB A/A	PRE	60	89	0	95	93
8	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
8	AMS		3.7	% V/V	V3					
9	KIH 485	85	0.094	LB A/A	PRE	70	85	0	99	99
9	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
9	AMS		3.7	% V/V	V3					
10	KIH 485	85	0.134	LB A/A	PRE	67	89	0	96	96
10	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
10	AMS		3.7	% V/V	V3					
11	KIH 485	85	0.161	LB A/A	PRE	68	90	0	96	96
11	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
11	AMS		3.7	% V/V	V3					
12	KIH 485	85	0.187	LB A/A	PRE	65	93	0	98	98
12	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
12	AMS		3.7	% V/V	V3					
13	KIH 485	85	0.223	LB A/A	PRE	68	92	0	98	98
13	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
13	AMS		3.7	% V/V	V3					
14	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	75	93	0	92	60

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7002 Protocol ID: KIH 07-03  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Giant foxtail	Giant ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Date	5-25-07	5-25-07	6-8-07	6-8-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE V3	BEFORE V3	2 WEEK > V3	2 WEEK > V3
Days After First/Last Applic.	24 0	24 0	38 14	38 14
Plant-Eval Interval	24 DP-1	24 DP-1	38 DP-1	38 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11
15	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	67	90	0	96	96
15	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
15	AMS		3.7	% V/V	V3					
	LSD (P=.05)					19.0	7.0	0.0	7.3	18.6
	Standard Deviation					11.4	4.2	0.0	4.4	11.1
	CV					17.9	5.03	0.0	5.28	16.0
	Grand Mean					63.44	83.73	0.0	83.07	69.67
	Replicate F					0.276	4.281	0.000	1.773	1.373
	Replicate Prob(F)					0.7611	0.0239	1.0000	0.1883	0.2699
	Treatment F					7.590	92.628	0.000	98.704	21.421
	Treatment Prob(F)					0.0001	0.0001	1.0000	0.0001	0.0001

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7002 Protocol ID: KIH 07-03  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-8-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK > V3	4 WEEK > V3	4 WEEK > V3	4 WEEK > V3
Days After First/Last Applic.	38 14	59 35	59 35	59 35
Plant-Eval Interval	38 DP-1	59 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	16
1	CHECK UNTREATED					0	0	0	0	0
2	KIH 485	85	0.074	LB A/A	PRE	85	0	68	50	85
3	KIH 485	85	0.094	LB A/A	PRE	76	0	68	43	76
4	KIH 485	85	0.134	LB A/A	PRE	92	0	78	43	92
5	KIH 485	85	0.161	LB A/A	PRE	90	0	87	50	90
6	KIH 485	85	0.187	LB A/A	PRE	92	0	83	57	92
7	KIH 485	85	0.223	LB A/A	PRE	90	0	88	65	90
8	KIH 485	85	0.074	LB A/A	PRE	93	0	95	93	93
8	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
8	AMS		3.7	% V/V	V3					
9	KIH 485	85	0.094	LB A/A	PRE	94	0	99	99	94
9	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
9	AMS		3.7	% V/V	V3					
10	KIH 485	85	0.134	LB A/A	PRE	95	0	96	96	95
10	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
10	AMS		3.7	% V/V	V3					
11	KIH 485	85	0.161	LB A/A	PRE	96	0	96	96	96
11	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
11	AMS		3.7	% V/V	V3					
12	KIH 485	85	0.187	LB A/A	PRE	98	0	98	98	98
12	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
12	AMS		3.7	% V/V	V3					
13	KIH 485	85	0.223	LB A/A	PRE	98	0	98	98	98
13	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
13	AMS		3.7	% V/V	V3					
14	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	90	0	92	60	90

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C7002 Protocol ID: KIH 07-03  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-8-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK > V3	4 WEEK > V3	4 WEEK > V3	4 WEEK > V3
Days After First/Last Applic.	38 14	59 35	59 35	59 35
Plant-Eval Interval	38 DP-1	59 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	16
15	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	96	0	96	96	96
15	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
15	AMS		3.7	% V/V	V3					
	LSD (P=.05)					12.6	0.0	7.6	18.6	12.6
	Standard Deviation					7.5	0.0	4.5	11.1	7.5
	CV					8.78	0.0	5.45	16.0	8.78
	Grand Mean					85.67	0.0	82.89	69.67	85.67
	Replicate F					0.923	0.000	2.388	1.373	0.923
	Replicate Prob(F)					0.4089	1.0000	0.1102	0.2699	0.4089
	Treatment F					31.414	0.0000	92.476	21.421	31.414
	Treatment Prob(F)					0.0001	1.0000	0.0001	0.0001	0.0001

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## CORN PREEMERGENCE &amp; POSTEMERGENCE

Trial ID: C7002      Protocol ID: KIH 07-03  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-1-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-1-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN      **Spacing Within Row, Unit:** 7.1 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 53 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-8-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

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

## CORN PREEMERGENCE &amp; POSTEMERGENCE

Trial ID: C7002      Protocol ID: KIH 07-03  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Description

	A	B
Application Date:	5-1-07	5-25-07
Time of Day:	6 PM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	73 F
% Relative Humidity:	50	53
Wind Velocity, Unit:	4 MPH	7 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	55 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	0

## Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V3	
Height, Unit:	10	IN

## Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	6LF	
Height, Unit:	6	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	6LF	
Height, Unit:	8	IN
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	10LF	
Height, Unit:	6	IN

## Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	30 IN	40 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2



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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	8
1	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	169
1	COC	100	1	% V/V	V3					
1	UAN	100	3	% V/V	V3					
1	33 M 57				V3					
2	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	168
2	COC	100	1	% V/V	V3					
2	UAN	100	3	% V/V	V3					
2	33 M 57				V3					
3	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	191
3	COC	100	1	% V/V	V3					
3	UAN	100	3	% V/V	V3					
3	33 M 57				V3					
4	CHECK					0	0	0	0	169
4	33 M 57									
5	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	169
5	COC	100	1	% V/V	V3					
5	UAN	100	3	% V/V	V3					
5	34 A 17				V3					
6	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	185
6	COC	100	1	% V/V	V3					
6	UAN	100	3	% V/V	V3					
6	34 A 17				V3					
7	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	189
7	COC	100	1	% V/V	V3					
7	UAN	100	3	% V/V	V3					
7	34 A 17				V3					
8	CHECK					0	0	0	0	166
8	34 A 17									
9	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	207
9	COC	100	1	% V/V	V3					
9	UAN	100	3	% V/V	V3					
9	33 N 55				V3					

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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	8
10	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	189
10	COC	100	1	% V/V	V3					
10	UAN	100	3	% V/V	V3					
10	33 N 55				V3					
11	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	180
11	COC	100	1	% V/V	V3					
11	UAN	100	3	% V/V	V3					
11	33 N 55				V3					
12	CHECK					0	0	0	0	179
12	33 N 55									
13	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	198
13	COC	100	1	% V/V	V3					
13	UAN	100	3	% V/V	V3					
13	RX7115RR2				V3					
14	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	206
14	COC	100	1	% V/V	V3					
14	UAN	100	3	% V/V	V3					
14	RX7115RR2				V3					
15	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	220
15	COC	100	1	% V/V	V3					
15	UAN	100	3	% V/V	V3					
15	RX7115RR2				V3					
16	CHECK					0	0	0	0	197
16	RX7115RR2									
17	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	203
17	COC	100	1	% V/V	V3					
17	UAN	100	3	% V/V	V3					
17	DKC 58-16				V3					
18	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	189
18	COC	100	1	% V/V	V3					
18	UAN	100	3	% V/V	V3					
18	DKC 58-16				V3					



Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	1	2	3	4	8
29	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	163
29	COC	100	1	% V/V	V3					
29	UAN	100	3	% V/V	V3					
29	DKC 67-23				V3					
30	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	169
30	COC	100	1	% V/V	V3					
30	UAN	100	3	% V/V	V3					
30	DKC 67-23				V3					
31	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	157
31	COC	100	1	% V/V	V3					
31	UAN	100	3	% V/V	V3					
31	DKC 67-23				V3					
32	CHECK					0	0	0	0	169
32	DKC 67-23									
33	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	170
33	COC	100	1	% V/V	V3					
33	UAN	100	3	% V/V	V3					
33	DKC 63-80				V3					
34	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	172
34	COC	100	1	% V/V	V3					
34	UAN	100	3	% V/V	V3					
34	DKC 63-80				V3					
35	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	176
35	COC	100	1	% V/V	V3					
35	UAN	100	3	% V/V	V3					
35	DKC 63-80				V3					
36	CHECK					0	0	0	0	162
36	DKC 63-80									
37	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	168
37	COC	100	1	% V/V	V3					
37	UAN	100	3	% V/V	V3					
37	DKC 61-72				V3					

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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	8
38	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	166
38	COC	100	1	% V/V	V3					
38	UAN	100	3	% V/V	V3					
38	DKC 61-72				V3					
39	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	153
39	COC	100	1	% V/V	V3					
39	UAN	100	3	% V/V	V3					
39	DKC 61-72				V3					
40	CHECK					0	0	0	0	157
40	DKC 61-72									
41	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	156
41	COC	100	1	% V/V	V3					
41	UAN	100	3	% V/V	V3					
41	DKC 66-22				V3					
42	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	166
42	COC	100	1	% V/V	V3					
42	UAN	100	3	% V/V	V3					
42	DKC 66-22				V3					
43	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	165
43	COC	100	1	% V/V	V3					
43	UAN	100	3	% V/V	V3					
43	DKC 66-22				V3					
44	CHECK					0	0	0	0	150
44	DKC 66-22									
45	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	178
45	COC	100	1	% V/V	V3					
45	UAN	100	3	% V/V	V3					
45	DKC 63-46				V3					
46	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	183
46	COC	100	1	% V/V	V3					
46	UAN	100	3	% V/V	V3					
46	DKC 63-46				V3					



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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	1	2	3	4	8
57	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	162
57	COC	100	1	% V/V	V3					
57	UAN	100	3	% V/V	V3					
57	DKC 69-43				V3					
58	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	174
58	COC	100	1	% V/V	V3					
58	UAN	100	3	% V/V	V3					
58	DKC 69-43				V3					
59	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	181
59	COC	100	1	% V/V	V3					
59	UAN	100	3	% V/V	V3					
59	DKC 69-43				V3					
60	CHECK					0	0	0	0	164
60	DKC 69-43									
61	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	184
61	COC	100	1	% V/V	V3					
61	UAN	100	3	% V/V	V3					
61	DKC 63-74				V3					
62	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	186
62	COC	100	1	% V/V	V3					
62	UAN	100	3	% V/V	V3					
62	DKC 63-74				V3					
63	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	180
63	COC	100	1	% V/V	V3					
63	UAN	100	3	% V/V	V3					
63	DKC 63-74				V3					
64	CHECK					0	0	0	0	182
64	DKC 63-74									
65	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	201
65	COC	100	1	% V/V	V3					
65	UAN	100	3	% V/V	V3					
65	DKC 63-74				V3					

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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	1	2	3	4	8
66	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	214
66	COC	100	1	% V/V	V3					
66	UAN	100	3	% V/V	V3					
66	DKC 63-74				V3					
67	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	212
67	COC	100	1	% V/V	V3					
67	UAN	100	3	% V/V	V3					
67	DKC 63-74				V3					
68	CHECK					0	0	0	0	220
68	DKC 63-74									
69	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	197
69	COC	100	1	% V/V	V3					
69	UAN	100	3	% V/V	V3					
69	DKC 63-46				V3					
70	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	189
70	COC	100	1	% V/V	V3					
70	UAN	100	3	% V/V	V3					
70	DKC 63-46				V3					
71	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	190
71	COC	100	1	% V/V	V3					
71	UAN	100	3	% V/V	V3					
71	DKC 63-46				V3					
72	CHECK					0	0	0	0	209
72	DKC 63-46									
73	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	201
73	COC	100	1	% V/V	V3					
73	UAN	100	3	% V/V	V3					
73	31 G 71				V3					
74	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	205
74	COC	100	1	% V/V	V3					
74	UAN	100	3	% V/V	V3					
74	31 G 71				V3					





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CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
Description					moisture 14.5%
Rating Date	6-5-07	6-12-07	6-26-07	7-24-07	9-18-07
Rating Data Type	INJURY	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	1 WEEK	2 WEEK	4 WEEK	8 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	56 56	112 112
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	112 DA-A
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	83 DP-1	139 DP-1
ARM Action Codes	P	P	P		TY1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	8
85	CHA 7950	2	0.0313	LB A/A	V3	0	0	0	0	198
85	COC	100	1	% V/V	V3					
85	UAN	100	3	% V/V	V3					
85	N76 M5				V3					
86	CHA 7950	2	0.0625	LB A/A	V3	0	0	0	0	211
86	COC	100	1	% V/V	V3					
86	UAN	100	3	% V/V	V3					
86	N76 M5				V3					
87	ACCENT	75	0.0623	LB A/A	V3	0	0	0	0	200
87	COC	100	1	% V/V	V3					
87	UAN	100	3	% V/V	V3					
87	N76 M5				V3					
88	CHECK					0	0	0	0	204
88	N76 M5									
LSD (P=.05)						0.0	0.0	0.0	0.0	29.3
Standard Deviation						0.0	0.0	0.0	0.0	21.2
CV						0.0	0.0	0.0	0.0	11.45
Grand Mean						0.0	0.0	0.0	0.0	184.82
Replicate F						0.000	0.000	0.000	0.000	11.904
Replicate Prob(F)						1.0000	1.0000	1.0000	1.0000	0.0001
Treatment F						0.000	0.000	0.000	0.000	3.155
Treatment Prob(F)						1.0000	1.0000	1.0000	1.0000	0.0001

Column 5: TY1 = 5.983517\*[C6]\*(100-[C7])/85.5

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## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1                      Protocol ID:  
 Location:                              Study Director: CHARLES H. SLACK  
    Investigator: Charles H Slack

## General Trial Information

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

## Trial Location

<b>City:</b>	LEXINGTON	<b>Trial Status:</b>	COMPLETE
<b>State/Prov.:</b>	KENTUCKY		
<b>Postal Code:</b>	40511	<b>Initiation Date:</b>	5-2-07
<b>Country:</b>	USA		

## Crop Description

<b>Crop 1:</b> ZEAMX	Zea mays	Corn
<b>Variety:</b>	33 M 57	
<b>BBCH Scale:</b>	BCOR	<b>Planting Date:</b> 5-2-07
<b>Planting Method:</b>	ROW	<b>Rate, Unit:</b> 30000 S/A
<b>Depth, Unit:</b>	1.5 IN	
<b>Row Spacing, Unit:</b>	30 IN	
<b>Seed Bed:</b>	MEDIUM	<b>Soil Temperature, Unit:</b> 63 F
<b>Soil Moisture:</b>	NORMAL	<b>Emergence Date:</b> 5-9-07
<b>Harvest Date:</b>	9-18-07	<b>Harvest Equipment:</b> COMBINE
<b>Harvested Width, Unit:</b> 5	FT	<b>Harvested Length, Unit:</b> 26 FT
<b>% Standard Moisture:</b>	14.5	

<b>Crop 2:</b> ZEAMX	Zea mays	Corn
<b>Variety:</b>	34 A 17	
<b>BBCH Scale:</b>	BCOR	<b>Planting Date:</b> 5-2-07
<b>Planting Method:</b>	ROW	<b>Rate, Unit:</b> 30000 S/A
<b>Depth, Unit:</b>	1.5 IN	
<b>Row Spacing, Unit:</b>	30 IN	
<b>Seed Bed:</b>	MEDIUM	<b>Soil Temperature, Unit:</b> 63 F
<b>Soil Moisture:</b>	NORMAL	<b>Emergence Date:</b> 5-9-07
<b>Harvest Date:</b>	9-18-07	<b>Harvest Equipment:</b> COMBINE
<b>Harvested Width, Unit:</b> 5	FT	<b>Harvested Length, Unit:</b> 26 FT
<b>% Standard Moisture:</b>	14.5	

<b>Crop 3:</b> ZEAMX	Zea mays	Corn
<b>Variety:</b>	33 N 55	
<b>BBCH Scale:</b>	BCOR	<b>Planting Date:</b> 5-2-07
<b>Planting Method:</b>	ROW	<b>Rate, Unit:</b> 30000 S/A
<b>Depth, Unit:</b>	1.5 IN	
<b>Row Spacing, Unit:</b>	30 IN	
<b>Seed Bed:</b>	MEDIUM	<b>Soil Temperature, Unit:</b> 63 F
<b>Soil Moisture:</b>	NORMAL	<b>Emergence Date:</b> 5-9-07
<b>Harvest Date:</b>	9-18-07	<b>Harvest Equipment:</b> COMBINE
<b>Harvested Width, Unit:</b> 5	FT	<b>Harvested Length, Unit:</b> 26 FT
<b>% Standard Moisture:</b>	14.5	

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## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1          Protocol ID:  
Location:                  Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Crop 4:** ZEAMX Zea mays

Corn

**Variety:** RX7115RR2

**BBCH Scale:** BCOR

**Planting Date:** 5-2-07

**Planting Method:** ROW

**Rate, Unit:** 30000 S/A

**Depth, Unit:** 1.5 IN

**Row Spacing, Unit:** 30 IN

**Seed Bed:** MEDIUM

**Soil Temperature, Unit:** 63 F

**Soil Moisture:** NORMAL

**Emergence Date:** 5-9-07

**Harvest Date:** 9-18-07

**Harvest Equipment:** COMBINE

**Harvested Width, Unit:** 5 FT

**Harvested Length, Unit:** 26 FT

**% Standard Moisture:** 14.5

**Crop 5:** ZEAMX Zea mays

Corn

**Variety:** DKC 58-16

**BBCH Scale:** BCOR

**Planting Date:** 5-2-07

**Planting Method:** ROW

**Rate, Unit:** 30000 S/A

**Depth, Unit:** 1.5 IN

**Row Spacing, Unit:** 30 IN

**Seed Bed:** MEDIUM

**Soil Temperature, Unit:** 63 F

**Soil Moisture:** NORMAL

**Emergence Date:** 5-9-07

**Harvest Date:** 9-18-07

**Harvest Equipment:** COMBINE

**Harvested Width, Unit:** 5 FT

**Harvested Length, Unit:** 26 FT

**% Standard Moisture:** 14.5

**Crop 6:** ZEAMX Zea mays

Corn

**Variety:** DKC 64-23

**BBCH Scale:** BCOR

**Planting Date:** 5-2-07

**Planting Method:** ROW

**Rate, Unit:** 30000 S/A

**Depth, Unit:** 1.5 IN

**Row Spacing, Unit:** 30 IN

**Seed Bed:** MEDIUM

**Soil Temperature, Unit:** 63 F

**Soil Moisture:** NORMAL

**Emergence Date:** 5-9-07

**Harvest Date:** 9-18-07

**Harvest Equipment:** COMBINE

**Harvested Width, Unit:** 5 FT

**Harvested Length, Unit:** 26 FT

**% Standard Moisture:** 14.5

**Crop 7:** ZEAMX Zea mays

Corn

**Variety:** DKC 60-19

**BBCH Scale:** BCOR

**Planting Date:** 5-2-07

**Planting Method:** ROW

**Rate, Unit:** 30000 S/A

**Depth, Unit:** 1.5 IN

**Row Spacing, Unit:** 30 IN

**Seed Bed:** MEDIUM

**Soil Temperature, Unit:** 63 F

**Soil Moisture:** NORMAL

**Emergence Date:** 5-9-07

**Harvest Date:** 9-18-07

**Harvest Equipment:** COMBINE

**Harvested Width, Unit:** 5 FT

**Harvested Length, Unit:** 26 FT

**% Standard Moisture:** 14.5

Plant and Soil Science, U of KY  
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## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1      Protocol ID:  
Location:              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Crop 8:** ZEAMX Zea mays      Corn  
**Variety:** DKC 67-23  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROW      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07  
**Harvest Date:** 9-18-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 26 FT  
**% Standard Moisture:** 14.5

**Crop 9:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-80  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROW      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07  
**Harvest Date:** 9-18-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 26 FT  
**% Standard Moisture:** 14.5

**Crop 10:** ZEAMX Zea mays      Corn  
**Variety:** DKC 61-72  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROW      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07  
**Harvest Date:** 9-18-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 26 FT  
**% Standard Moisture:** 14.5

**Crop 11:** ZEAMX Zea mays      Corn  
**Variety:** DKC 66-22  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROW      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07  
**Harvest Date:** 9-18-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 26 FT  
**% Standard Moisture:** 14.5

Plant and Soil Science, U of KY  
Weed Science Research

## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1                      Protocol ID:  
Location:                              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Crop 12:** ZEAMX    Zea mays    Corn  
**Variety:** DKC 63-46  
**BBCH Scale:**            BCOR    **Planting Date:** 5-2-07  
**Planting Method:**      ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**            1.5        IN  
**Row Spacing, Unit:** 30        IN  
**Seed Bed:**                MEDIUM    **Soil Temperature, Unit:** 63        F  
**Soil Moisture:**        NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**            9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5        FT    **Harvested Length, Unit:** 26        FT  
**% Standard Moisture:** 14.5

**Crop 13:** ZEAMX    Zea mays    Corn  
**Variety:** DKC 64-78  
**BBCH Scale:**            BCOR    **Planting Date:** 5-2-07  
**Planting Method:**      ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**            1.5        IN  
**Row Spacing, Unit:** 30        IN  
**Seed Bed:**                MEDIUM    **Soil Temperature, Unit:** 63        F  
**Soil Moisture:**        NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**            9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5        FT    **Harvested Length, Unit:** 26        FT  
**% Standard Moisture:** 14.5

**Crop 14:** ZEAMX    Zea mays    Corn  
**Variety:** DKC 65-47  
**BBCH Scale:**            BCOR    **Planting Date:** 5-2-07  
**Planting Method:**      ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**            1.5        IN  
**Row Spacing, Unit:** 30        IN  
**Seed Bed:**                MEDIUM    **Soil Temperature, Unit:** 63        F  
**Soil Moisture:**        NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**            9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5        FT    **Harvested Length, Unit:** 26        FT  
**% Standard Moisture:** 14.5

**Crop 15:** ZEAMX    Zea mays    Corn  
**Variety:** DKC 69-43  
**BBCH Scale:**            BCOR    **Planting Date:** 5-2-07  
**Planting Method:**      ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**            1.5        IN  
**Row Spacing, Unit:** 30        IN  
**Seed Bed:**                MEDIUM    **Soil Temperature, Unit:** 63        F  
**Soil Moisture:**        NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**            9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5        FT    **Harvested Length, Unit:** 26        FT  
**% Standard Moisture:** 14.5

Plant and Soil Science, U of KY  
Weed Science Research

## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1                      Protocol ID:  
 Location:                              Study Director: CHARLES H. SLACK  
    Investigator: Charles H Slack

**Crop 16:** ZEAMX    Zea mays    Corn  
**Variety:** DKC 63-74  
**BBCH Scale:**                      BCOR    **Planting Date:** 5-2-07  
**Planting Method:**              ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**                      1.5    IN  
**Row Spacing, Unit:** 30    IN  
**Seed Bed:**                              MEDIUM    **Soil Temperature, Unit:** 63    F  
**Soil Moisture:**                      NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**                      9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5                      FT    **Harvested Length, Unit:** 26    FT  
**% Standard Moisture:** 14.5

**Crop 17:** ZEAMX    Zea mays    Corn  
**Variety:** 31 G 71  
**BBCH Scale:**                      BCOR    **Planting Date:** 5-2-07  
**Planting Method:**              ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**                      1.5    IN  
**Row Spacing, Unit:** 30    IN  
**Seed Bed:**                              MEDIUM    **Soil Temperature, Unit:** 63    F  
**Soil Moisture:**                      NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**                      9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5                      FT    **Harvested Length, Unit:** 26    FT  
**% Standard Moisture:** 14.5

**Crop 18:** ZEAMX    Zea mays    Corn  
**Variety:** 31 P 41  
**BBCH Scale:**                      BCOR    **Planting Date:** 5-2-07  
**Planting Method:**              ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**                      1.5    IN  
**Row Spacing, Unit:** 30    IN  
**Seed Bed:**                              MEDIUM    **Soil Temperature, Unit:** 63    F  
**Soil Moisture:**                      NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**                      9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5                      FT    **Harvested Length, Unit:** 26    FT  
**% Standard Moisture:** 14.5

**Crop 19:** ZEAMX    Zea mays    Corn  
**Variety:** N76 D3  
**BBCH Scale:**                      BCOR    **Planting Date:** 5-2-07  
**Planting Method:**              ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**                      1.5    IN  
**Row Spacing, Unit:** 30    IN  
**Seed Bed:**                              MEDIUM    **Soil Temperature, Unit:** 63    F  
**Soil Moisture:**                      NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**                      9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5                      FT    **Harvested Length, Unit:** 26    FT  
**% Standard Moisture:** 14.5

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Weed Science Research

## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1                      Protocol ID:  
 Location:                              Study Director: CHARLES H. SLACK  
    Investigator: Charles H Slack

**Crop 20:** ZEAMX    Zea mays    Corn  
**Variety:** N76 M5  
**BBCH Scale:**        BCOR    **Planting Date:** 5-2-07  
**Planting Method:**    ROW    **Rate, Unit:** 30000    S/A  
**Depth, Unit:**        1.5        IN  
**Row Spacing, Unit:** 30        IN  
**Seed Bed:**            MEDIUM    **Soil Temperature, Unit:** 63        F  
**Soil Moisture:**        NORMAL    **Emergence Date:** 5-9-07  
**Harvest Date:**        9-18-07    **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5        FT    **Harvested Length, Unit:** 26        FT  
**% Standard Moisture:** 14.5

## Site and Design

**Plot Width, Unit:** 10        FT    **Site Type:**        FIELD  
**Plot Length, Unit:** 33        FT    **Tillage Type:** CONVENTIONAL-TILL  
**Replications:**        4    **Study Design:** Split-Block

## Soil Description

**Description Name:** MAURY  
**% Sand:** 6                      **% OM:** 2.6    **Texture:**        SILT LOAM  
**% Silt:** 62                      **pH:** 6.4    **Soil Name:**        MAURY  
**% Clay:** 32                      **CEC:** 17    **Fert. Level:** EXCELLENT

## Moisture and Weather Conditions

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP    **Distance:** 1.0        **Unit:** MI

## Application Description

**A**  
**Application Date:**                      5-29-07  
**Time of Day:**                              2 PM  
**Application Method:**                      SPRAY  
**Application Timing:**                      V3  
**Application Placement:**                      BROFOL  
**Applied By:**                              C H SLACK  
**Air Temperature, Unit:**                      88        F  
**% Relative Humidity:**                      36  
**Wind Velocity, Unit:**                      3        MPH  
**Wind Direction:**                              SSE  
**Soil Temperature, Unit:**                      85        F  
**Soil Moisture:**                              ADEQUATE  
**% Cloud Cover:**                              0

## Crop Stage At Each Application

**A**  
**Crop 1 Code, BBCH Scale:** ZEAMX BCOR  
**Stage Scale Used:**                      V3  
**Height, Unit:**                              10        IN



## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1                      Protocol ID:  
Location:                              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Crop 2 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 3 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 4 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 5 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 6 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 7 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 8 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop 9 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop10 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop11 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop12 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop13 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop14 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop15 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop16 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

Crop17 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: V3  
Height, Unit: 10 IN

## CORN POSTEMERGENCE VARIETIES

Trial ID: C7003-1                      Protocol ID:  
 Location:                              Study Director: CHARLES H. SLACK  
    Investigator: Charles H Slack

**Crop18 Code, BBCH Scale:** ZEAMX BCOR  
**Stage Scale Used:** V3  
**Height, Unit:** 10 IN

**Crop19 Code, BBCH Scale:** ZEAMX BCOR  
**Stage Scale Used:** V3  
**Height, Unit:** 10 IN

**Crop20 Code, BBCH Scale:** ZEAMX BCOR  
**Stage Scale Used:** V3  
**Height, Unit:** 10 IN

## Application Equipment

## A

**Appl. Equipment:** ATV  
**Operating Pressure, Unit:** 30 PSI  
**Nozzle Type:** FLAT FAN  
**Nozzle Size:** 8004 DG  
**Nozzle Spacing, Unit:** 20 IN  
**Boom Length, Unit:** 10 FT  
**Boom Height, Unit:** 40 IN  
**Ground Speed, Unit:** 4 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 24 GPA  
**Propellant:** CO2

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004 Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Giant foxtail
Crop Code		ZEAMX			ZEAMX
BBCH Scale		BCOR			BCOR
Crop Name		Corn			Corn
Rating Date		5-15-07	5-15-07	5-15-07	5-15-07
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	BEFORE V3
Days After First/Last Applic.		14 14	14 14	14 14	24 0
Plant-Eval Interval		14 DP-1	14 DP-1	14 DP-1	24 DP-1
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	
1	CHECK					0	99	93		99	0	99
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
1	AMS		3.7	% V/V	PRE							
2	KIH 485	85	0.074	LB A/A	PRE	0	99	95		99	0	99
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
2	AMS		3.7	% V/V	PRE							
3	KIH 485	85	0.094	LB A/A	PRE	0	99	92		99	0	99
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
3	AMS		3.7	% V/V	PRE							
4	KIH 485	85	0.134	LB A/A	PRE	0	99	99		99	0	99
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
4	AMS		3.7	% V/V	PRE							
5	KIH 485	85	0.161	LB A/A	PRE	0	99	95		99	0	99
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
5	AMS		3.7	% V/V	PRE							
6	KIH 485	85	0.187	LB A/A	PRE	0	99	99		99	0	99
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
6	AMS		3.7	% V/V	PRE							
7	KIH 485	85	0.223	LB A/A	PRE	0	99	99		99	0	99
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
7	AMS		3.7	% V/V	PRE							
8	KIH 485	85	0.074	LB A/A	PRE	0	99	99		99	0	99
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
8	AMS		3.7	% V/V	PRE							
8	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3							
8	AMS		3.7	% V/V	V3							
9	KIH 485	85	0.094	LB A/A	PRE	0	99	99		99	0	99
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE							
9	AMS		3.7	% V/V	PRE							
9	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3							
9	AMS		3.7	% V/V	V3							

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004 Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Giant foxtail
Crop Code		ZEAMX			ZEAMX
BBCH Scale		BCOR			BCOR
Crop Name		Corn			Corn
Rating Date		5-15-07	5-15-07	5-15-07	5-15-07
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	BEFORE V3
Days After First/Last Applic.		14 14	14 14	14 14	24 0
Plant-Eval Interval		14 DP-1	14 DP-1	14 DP-1	24 DP-1
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
10	KIH 485	85	0.134	LB A/A	PRE	0	99	99	99	0	99
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE						
10	AMS		3.7	% V/V	PRE						
10	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
10	AMS		3.7	% V/V	V3						
11	KIH 485	85	0.161	LB A/A	PRE	0	99	94	99	0	99
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE						
11	AMS		3.7	% V/V	PRE						
11	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
11	AMS		3.7	% V/V	V3						
12	KIH 485	85	0.187	LB A/A	PRE	0	99	99	99	0	99
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE						
12	AMS		3.7	% V/V	PRE						
12	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
12	AMS		3.7	% V/V	V3						
13	KIH 485	85	0.223	LB A/A	PRE	0	99	99	99	0	99
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE						
13	AMS		3.7	% V/V	PRE						
13	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
13	AMS		3.7	% V/V	V3						
14	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	0	99	95	99	0	99
14	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE						
14	AMS		3.7	% V/V	PRE						
15	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	0	99	96	99	0	99
15	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE						
15	AMS		3.7	% V/V	PRE						
15	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3						
15	AMS		3.7	% V/V	V3						
16	CHECK UNTREATED					0	0	0	0	0	0
LSD (P=.05)						0.0	0.0	7.8	0.0	0.0	0.0
Standard Deviation						0.0	0.0	4.7	0.0	0.0	0.0
CV						0.0	0.0	5.15	0.0	0.0	0.0
Grand Mean						0.0	92.81	90.81	92.81	0.0	92.81

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004      Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Giant foxtail
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
Rating Date	5-15-07	5-15-07	5-15-07	5-15-07	5-25-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	BEFORE V3
Days After First/Last Applic.	14 14	14 14	14 14	14 14	24 0
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	24 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
	Replicate F					0.000	0.000	0.240		0.000	0.000
	Replicate Prob(F)					1.0000	1.0000	0.7883		1.0000	1.0000
	Treatment F					0.000	0.000	81.183		0.000	0.000
	Treatment Prob(F)					1.0000	1.0000	0.0001		1.0000	1.0000

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004 Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Date	5-25-07	5-25-07	6-8-07	6-8-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE V3	BEFORE V3	2 WEEK > V3	2 WEEK > V3
Days After First/Last Applic.	24 0	24 0	38 14	38 14
Plant-Eval Interval	24 DP-1	24 DP-1	38 DP-1	38 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11
1	CHECK					93	99	0	0	0
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
1	AMS		3.7	% V/V	PRE					
2	KIH 485	85	0.074	LB A/A	PRE	95	99	0	99	50
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
2	AMS		3.7	% V/V	PRE					
3	KIH 485	85	0.094	LB A/A	PRE	92	99	0	99	84
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
3	AMS		3.7	% V/V	PRE					
4	KIH 485	85	0.134	LB A/A	PRE	99	99	0	99	90
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
4	AMS		3.7	% V/V	PRE					
5	KIH 485	85	0.161	LB A/A	PRE	95	99	0	99	83
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
5	AMS		3.7	% V/V	PRE					
6	KIH 485	85	0.187	LB A/A	PRE	99	99	0	99	93
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
6	AMS		3.7	% V/V	PRE					
7	KIH 485	85	0.223	LB A/A	PRE	99	99	0	99	90
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
7	AMS		3.7	% V/V	PRE					
8	KIH 485	85	0.074	LB A/A	PRE	99	99	0	99	99
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
8	AMS		3.7	% V/V	PRE					
8	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
8	AMS		3.7	% V/V	V3					
9	KIH 485	85	0.094	LB A/A	PRE	99	99	0	99	99
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
9	AMS		3.7	% V/V	PRE					
9	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
9	AMS		3.7	% V/V	V3					

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004 Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Date	5-25-07	5-25-07	6-8-07	6-8-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE V3	BEFORE V3	2 WEEK > V3	2 WEEK > V3
Days After First/Last Applic.	24 0	24 0	38 14	38 14
Plant-Eval Interval	24 DP-1	24 DP-1	38 DP-1	38 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11
10	KIH 485	85	0.134	LB A/A	PRE	99	99	0	99	99
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
10	AMS		3.7	% V/V	PRE					
10	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
10	AMS		3.7	% V/V	V3					
11	KIH 485	85	0.161	LB A/A	PRE	94	99	0	99	99
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
11	AMS		3.7	% V/V	PRE					
11	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
11	AMS		3.7	% V/V	V3					
12	KIH 485	85	0.187	LB A/A	PRE	99	99	0	99	99
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
12	AMS		3.7	% V/V	PRE					
12	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
12	AMS		3.7	% V/V	V3					
13	KIH 485	85	0.223	LB A/A	PRE	99	99	0	99	99
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
13	AMS		3.7	% V/V	PRE					
13	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
13	AMS		3.7	% V/V	V3					
14	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	95	99	0	99	59
14	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
14	AMS		3.7	% V/V	PRE					
15	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	96	99	0	99	99
15	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
15	AMS		3.7	% V/V	PRE					
15	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
15	AMS		3.7	% V/V	V3					
16	CHECK UNTREATED					0	0	0	0	0
LSD (P=.05)						7.8	0.0	0.0	0.0	18.1
Standard Deviation						4.7	0.0	0.0	0.0	10.8
CV						5.15	0.0	0.0	0.0	13.97
Grand Mean						90.81	92.81	0.0	86.63	77.67

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004      Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Date	5-25-07	5-25-07	6-8-07	6-8-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE V3	BEFORE V3	2 WEEK > V3	2 WEEK > V3
Days After First/Last Applic.	24 0	24 0	38 14	38 14
Plant-Eval Interval	24 DP-1	24 DP-1	38 DP-1	38 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11
Replicate F						0.240	0.000	0.000	0.000	0.486
Replicate Prob(F)						0.7883	1.0000	1.0000	1.0000	0.6201
Treatment F						81.183	0.000	0.000	0.000	28.839
Treatment Prob(F)						0.0001	1.0000	1.0000	1.0000	0.0001



Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004 Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-8-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK > V3	4 WEEK > V3	4 WEEK > V3	4 WEEK > V3
Days After First/Last Applic.	38 14	59 35	59 35	59 35
Plant-Eval Interval	38 DP-1	59 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	16
1	CHECK					0	0	0	0	0
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
1	AMS		3.7	% V/V	PRE					
2	KIH 485	85	0.074	LB A/A	PRE	93	0	99	27	85
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
2	AMS		3.7	% V/V	PRE					
3	KIH 485	85	0.094	LB A/A	PRE	96	0	99	78	93
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
3	AMS		3.7	% V/V	PRE					
4	KIH 485	85	0.134	LB A/A	PRE	98	0	99	82	96
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
4	AMS		3.7	% V/V	PRE					
5	KIH 485	85	0.161	LB A/A	PRE	98	0	99	63	93
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
5	AMS		3.7	% V/V	PRE					
6	KIH 485	85	0.187	LB A/A	PRE	98	0	99	86	93
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
6	AMS		3.7	% V/V	PRE					
7	KIH 485	85	0.223	LB A/A	PRE	99	0	99	85	96
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
7	AMS		3.7	% V/V	PRE					
8	KIH 485	85	0.074	LB A/A	PRE	99	0	99	99	99
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
8	AMS		3.7	% V/V	PRE					
8	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
8	AMS		3.7	% V/V	V3					
9	KIH 485	85	0.094	LB A/A	PRE	99	0	99	99	99
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
9	AMS		3.7	% V/V	PRE					
9	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
9	AMS		3.7	% V/V	V3					

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004 Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-8-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK > V3	4 WEEK > V3	4 WEEK > V3	4 WEEK > V3
Days After First/Last Applic.	38 14	59 35	59 35	59 35
Plant-Eval Interval	38 DP-1	59 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	16
10	KIH 485	85	0.134	LB A/A	PRE	99	0	99	99	99
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
10	AMS		3.7	% V/V	PRE					
10	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
10	AMS		3.7	% V/V	V3					
11	KIH 485	85	0.161	LB A/A	PRE	99	0	99	99	99
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
11	AMS		3.7	% V/V	PRE					
11	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
11	AMS		3.7	% V/V	V3					
12	KIH 485	85	0.187	LB A/A	PRE	99	0	99	99	99
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
12	AMS		3.7	% V/V	PRE					
12	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
12	AMS		3.7	% V/V	V3					
13	KIH 485	85	0.223	LB A/A	PRE	99	0	99	98	99
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
13	AMS		3.7	% V/V	PRE					
13	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
13	AMS		3.7	% V/V	V3					
14	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	69	0	99	43	53
14	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
14	AMS		3.7	% V/V	PRE					
15	DUAL II MAGNUM	7.64	1.27	LB A/A	PRE	99	0	99	99	99
15	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	PRE					
15	AMS		3.7	% V/V	PRE					
15	ROUNDUP ORIGINAL MAX	5.5	0.78	LB A/A	V3					
15	AMS		3.7	% V/V	V3					
16	CHECK UNTREATED					0	0	0	0	0
LSD (P=.05)						18.1	0.0	0.0	24.6	17.5
Standard Deviation						10.8	0.0	0.0	14.8	10.5
CV						12.9	0.0	0.0	20.44	12.93
Grand Mean						83.94	0.0	86.63	72.21	81.38

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004      Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-8-07	6-29-07	6-29-07	6-29-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK > V3	4 WEEK > V3	4 WEEK > V3	4 WEEK > V3
Days After First/Last Applic.	38 14	59 35	59 35	59 35
Plant-Eval Interval	38 DP-1	59 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	12	13	14	15	16
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Replicate F						1.206	0.000	0.000	0.090	1.600
Replicate Prob(F)						0.3136	1.0000	1.0000	0.9145	0.2186
Treatment F						28.852	0.000	0.000	17.307	30.809
Treatment Prob(F)						0.0001	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004      Protocol ID: KIH 07-03-2  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-1-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-1-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN      **Spacing Within Row, Unit:** 7.1 IN  
**Seed Bed:** MEDIUM/TRASHY      **Soil Temperature, Unit:** 53 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-8-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

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

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN

Trial ID: C7004      Protocol ID: KIH 07-03-2  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Application Description**

	A	B
Application Date:	5-1-07	5-25-07
Time of Day:	5:30 PM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	73 F
% Relative Humidity:	50	53
Wind Velocity, Unit:	4 MPH	7 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	55 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	0

**Crop Stage At Each Application**

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V3	
Height, Unit:	10	IN

**Pest Stage At Each Application**

	A		B	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W
Stage Majority, Percent:	6LF			
Height, Unit:	6		IN	
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W
Stage Majority, Percent:	8LF			
Height, Unit:	8		IN	
Pest 3 Code, Disc., Scale:	CHEAL	W	CHEAL	W
Stage Majority, Percent:	10LF			
Height, Unit:	6		IN	

**Application Equipment**

	A	B
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	30 IN	40 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C7008 Protocol ID: US 07-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
	STEME	LAMAM	TAROF	ERICA	STEME	LAMAM
Pest Type	Common chickweed	Henbit	Common dandelion	Marestail	Common chickweed	Henbit
Pest Code						
Pest Name						
Crop Code						
BBCH Scale						
Crop Name						
Rating Date	4-20-07	4-20-07	4-20-07	4-20-07	5-8-07	5-8-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	15 15	15 15	15 15	15 15	33 33	33 33
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	-12 DP-1	-12 DP-1	-12 DP-1	-12 DP-1	6 DP-1	6 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	
1	RESOLVE	25	0.75	OZ/A	30 DAY		87	87	73	87	99	99
1	BALANCE PRO	4	0.75	OZ/A	30 DAY							
1	WEEDONE LV4	3.8	1	PT/A	30 DAY							
1	COC		1	% V/V	30 DAY							
2	RESOLVE	25	1	OZ/A	30 DAY		92	90	73	90	99	99
2	BALANCE PRO	4	1	OZ/A	30 DAY							
2	WEEDONE LV4	3.8	1	PT/A	30 DAY							
2	COC		1	% V/V	30 DAY							
3	RESOLVE	25	0.75	OZ/A	30 DAY		90	90	80	90	99	99
3	BALANCE PRO	4	0.75	OZ/A	30 DAY							
3	AATREX	4	1	QT/A	30 DAY							
3	WEEDONE LV4	3.8	1	PT/A	30 DAY							
3	COC		1	% V/V	30 DAY							
4	RESOLVE	25	1	OZ/A	30 DAY		90	90	83	90	99	99
4	BALANCE PRO	4	1	OZ/A	30 DAY							
4	AATREX	4	1	QT/A	30 DAY							
4	WEEDONE LV4	3.8	1	PT/A	30 DAY							
4	COC		1	% V/V	30 DAY							
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY		82	77	70	80	99	99
5	RESOLVE	25	0.75	OZ/A	30 DAY							
5	BALANCE PRO	4	0.75	OZ/A	30 DAY							
5	WEEDONE LV4	3.8	1	PT/A	30 DAY							
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY		73	73	60	83	99	99
6	RESOLVE	25	1	OZ/A	30 DAY							
6	BALANCE PRO	4	1	OZ/A	30 DAY							
6	WEEDONE LV4	3.8	1	PT/A	30 DAY							
7	RESOLVE	25	1	OZ/A	30 DAY		77	73	63	80	99	99
7	WEEDONE LV4	3.8	1	PT/A	30 DAY							
7	COC		1	% V/V	30 DAY							
8	RESOLVE	25	1	OZ/A	30 DAY		90	90	73	90	99	99
8	AATREX	4	1	QT/A	30 DAY							
8	WEEDONE LV4	3.8	1	PT/A	30 DAY							
8	COC		1	% V/V	30 DAY							



Plant and Soil Science, U of KY  
Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C7008 Protocol ID: US 07-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	ERICA	SETFA	CHEAL	SETFA
Pest Name	Common dandelion	Marestail	Giant foxtail	Lambsquarters, common	Giant foxtail
Crop Code			ZEAMX		ZEAMX
BBCH Scale			BCOR		BCOR
Crop Name			Corn		Corn
Rating Date	5-8-07	5-8-07	5-16-07	5-16-07	5-16-07 5-30-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Rating Timing	4 WEEK	4 WEEK	2 WEEK	2 WEEK	2 WEEK 4 WEEK
Days After First/Last Applic.	33 33	33 33	41 41	41 41	41 41 55 55
Trt-Eval Interval	33 DA-A	33 DA-A	41 DA-A	41 DA-A	41 DA-A 41 DA-A
Plant-Eval Interval	6 DP-1	6 DP-1	14 DP-1	14 DP-1	14 DP-1 28 DP-1
ARM Action Codes	P	P	P	P	P P
Number of Decimals	0	0	0	0	0 0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12	13
1	RESOLVE	25	0.75	OZ/A	30 DAY	99	99	0	99	99	0	99
1	BALANCE PRO	4	0.75	OZ/A	30 DAY							
1	WEEDONE LV4	3.8	1	PT/A	30 DAY							
1	COC		1	% V/V	30 DAY							
2	RESOLVE	25	1	OZ/A	30 DAY	99	99	0	99	99	0	99
2	BALANCE PRO	4	1	OZ/A	30 DAY							
2	WEEDONE LV4	3.8	1	PT/A	30 DAY							
2	COC		1	% V/V	30 DAY							
3	RESOLVE	25	0.75	OZ/A	30 DAY	99	99	0	99	99	0	99
3	BALANCE PRO	4	0.75	OZ/A	30 DAY							
3	AATREX	4	1	QT/A	30 DAY							
3	WEEDONE LV4	3.8	1	PT/A	30 DAY							
3	COC		1	% V/V	30 DAY							
4	RESOLVE	25	1	OZ/A	30 DAY	99	99	0	99	99	0	99
4	BALANCE PRO	4	1	OZ/A	30 DAY							
4	AATREX	4	1	QT/A	30 DAY							
4	WEEDONE LV4	3.8	1	PT/A	30 DAY							
4	COC		1	% V/V	30 DAY							
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	0	99	99	0	99
5	RESOLVE	25	0.75	OZ/A	30 DAY							
5	BALANCE PRO	4	0.75	OZ/A	30 DAY							
5	WEEDONE LV4	3.8	1	PT/A	30 DAY							
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	0	99	99	0	99
6	RESOLVE	25	1	OZ/A	30 DAY							
6	BALANCE PRO	4	1	OZ/A	30 DAY							
6	WEEDONE LV4	3.8	1	PT/A	30 DAY							
7	RESOLVE	25	1	OZ/A	30 DAY	96	96	0	99	99	0	99
7	WEEDONE LV4	3.8	1	PT/A	30 DAY							
7	COC		1	% V/V	30 DAY							
8	RESOLVE	25	1	OZ/A	30 DAY	99	99	0	99	99	0	99
8	AATREX	4	1	QT/A	30 DAY							
8	WEEDONE LV4	3.8	1	PT/A	30 DAY							
8	COC		1	% V/V	30 DAY							



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NO TILL CORN EARLY PREPLANT

Trial ID: C7008 Protocol ID: US 07-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	ERICA	SETFA	CHEAL	SETFA
Pest Name	Common dandelion	Marestail	Giant foxtail	Lambsquarters, common	Giant foxtail
Crop Code			ZEAMX		ZEAMX
BBCH Scale			BCOR		BCOR
Crop Name			Corn		Corn
Rating Date	5-8-07	5-8-07	5-16-07	5-16-07	5-16-07 5-30-07 5-30-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL INJURY CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT PERCENT PERCENT
Rating Timing	4 WEEK	4 WEEK	2 WEEK	2 WEEK	2 WEEK 4 WEEK 4 WEEK
Days After First/Last Applic.	33 33	33 33	41 41	41 41	41 41 55 55 55 55
Trt-Eval Interval	33 DA-A	33 DA-A	41 DA-A	41 DA-A	41 DA-A 41 DA-A 41 DA-A
Plant-Eval Interval	6 DP-1	6 DP-1	14 DP-1	14 DP-1	14 DP-1 28 DP-1 28 DP-1
ARM Action Codes	P	P	P	P	P P P
Number of Decimals	0	0	0	0	0 0 0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12	13
9	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	0	99	99	0	99
9	RESOLVE	25	0.75	OZ/A	30 DAY							
9	WEEDONE LV4	3.8	1	PT/A	30 DAY							
10	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	0	99	99	0	99
10	WEEDONE LV4	3.8	1	PT/A	30 DAY							
11	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	0	99	99	0	99
11	LUMAX	3.94	3	QT/A	30 DAY							
11	WEEDONE LV4	3.8	1	PT/A	30 DAY							
12	CHECK UNTREATED					0	0	0	0	0	0	0
LSD (P=.05)						1.1	1.1	0.0	0.0	0.0	0.0	0.0
Standard Deviation						0.7	0.7	0.0	0.0	0.0	0.0	0.0
CV						0.74	0.74	0.0	0.0	0.0	0.0	0.0
Grand Mean						90.53	90.53	0.0	90.75	90.75	0.0	90.75
Replicate F						1.000	1.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)						0.3840	0.3840	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F						5490.063	5490.063	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)						0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

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NO TILL CORN EARLY PREPLANT

Trial ID: C7008 Protocol ID: US 07-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Lambsquarters, common
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	5-30-07	6-30-07	6-30-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	55 55	86 29	86 29
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A
Plant-Eval Interval	28 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15	16
1	RESOLVE	25	0.75	OZ/A	30 DAY			
						99	99	87
1	BALANCE PRO	4	0.75	OZ/A	30 DAY			
1	WEEDONE LV4	3.8	1	PT/A	30 DAY			
1	COC		1	% V/V	30 DAY			
2	RESOLVE	25	1	OZ/A	30 DAY	99	99	92
2	BALANCE PRO	4	1	OZ/A	30 DAY			
2	WEEDONE LV4	3.8	1	PT/A	30 DAY			
2	COC		1	% V/V	30 DAY			
3	RESOLVE	25	0.75	OZ/A	30 DAY	99	99	99
3	BALANCE PRO	4	0.75	OZ/A	30 DAY			
3	AATREX	4	1	QT/A	30 DAY			
3	WEEDONE LV4	3.8	1	PT/A	30 DAY			
3	COC		1	% V/V	30 DAY			
4	RESOLVE	25	1	OZ/A	30 DAY	99	99	99
4	BALANCE PRO	4	1	OZ/A	30 DAY			
4	AATREX	4	1	QT/A	30 DAY			
4	WEEDONE LV4	3.8	1	PT/A	30 DAY			
4	COC		1	% V/V	30 DAY			
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	99
5	RESOLVE	25	0.75	OZ/A	30 DAY			
5	BALANCE PRO	4	0.75	OZ/A	30 DAY			
5	WEEDONE LV4	3.8	1	PT/A	30 DAY			
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	92
6	RESOLVE	25	1	OZ/A	30 DAY			
6	BALANCE PRO	4	1	OZ/A	30 DAY			
6	WEEDONE LV4	3.8	1	PT/A	30 DAY			
7	RESOLVE	25	1	OZ/A	30 DAY	99	99	95
7	WEEDONE LV4	3.8	1	PT/A	30 DAY			
7	COC		1	% V/V	30 DAY			
8	RESOLVE	25	1	OZ/A	30 DAY	99	99	99
8	AATREX	4	1	QT/A	30 DAY			
8	WEEDONE LV4	3.8	1	PT/A	30 DAY			
8	COC		1	% V/V	30 DAY			

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NO TILL CORN EARLY PREPLANT

Trial ID: C7008 Protocol ID: US 07-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Lambsquarters, common
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	5-30-07	6-30-07	6-30-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	55 55	86 29	86 29
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A
Plant-Eval Interval	28 DP-1	59 DP-1	59 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15	16
9	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	99
9	RESOLVE	25	0.75	OZ/A	30 DAY			
9	WEEDONE LV4	3.8	1	PT/A	30 DAY			
10	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	96
10	WEEDONE LV4	3.8	1	PT/A	30 DAY			
11	ROUNDUP WeatherMAX	5.5	11	OZ/A	30 DAY	99	99	99
11	LUMAX	3.94	3	QT/A	30 DAY			
11	WEEDONE LV4	3.8	1	PT/A	30 DAY			
12	CHECK UNTREATED					0	0	0
LSD (P=.05)						0.0	0.0	2.6
Standard Deviation						0.0	0.0	1.5
CV						0.0	0.0	1.72
Grand Mean						90.75	90.75	87.94
Replicate F						0.000	0.000	2.186
Replicate Prob(F)						1.0000	1.0000	0.1362
Treatment F						0.000	0.000	1021.563
Treatment Prob(F)						1.0000	1.0000	0.0001

NO TILL CORN EARLY PREPLANT

Trial ID: C7008      Protocol ID: US 07-02  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-2-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM/TRASHY      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07

**Pest Description**

**Pest 1 Type:** W      **Code:** STEME      *Stellaria media*  
**Common Name:** Common chickweed

**Pest 2 Type:** W      **Code:** LAMAM      *Lamium amplexicaule*  
**Common Name:** Henbit

**Pest 3 Type:** W      **Code:** TAROF      *Taraxacum officinale*  
**Common Name:** Common dandelion

**Pest 4 Type:** W      **Code:** ERICA      *Conyza canadensis*  
**Common Name:** Marestail

**Pest 5 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail

**Pest 6 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

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NO TILL CORN EARLY PREPLANT

Trial ID: C7008      Protocol ID: US 07-02  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions****Overall Moisture Conditions:** BELOW NORMAL**Closest Weather Station:** SPINDLETOP**Distance:** 1.5      **Unit:** MI**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	4-5-07	6-1-07
<b>Time of Day:</b>	2 PM	3 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	30D	+ 60D
<b>Application Placement:</b>	BROFOL	BROFOL
<b>Applied By:</b>	C H SLACK	C H SLACK
<b>Air Temperature, Unit:</b>	37 F	80 F
<b>% Relative Humidity:</b>	59	50
<b>Wind Velocity, Unit:</b>	6 MPH	4 MPH
<b>Wind Direction:</b>	NW	NW
<b>Dew Presence (Y/N):</b>	N	
<b>Soil Temperature, Unit:</b>	58 F	70 F
<b>Soil Moisture:</b>	NORMAL	INADEQUATE
<b>% Cloud Cover:</b>	80	10

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR
<b>Height, Unit:</b>	15	IN

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Pest 1 Code, Disc., Scale:</b>	STEME W	STEME W
<b>Height, Unit:</b>	6	IN
<b>Pest 2 Code, Disc., Scale:</b>	LAMAM W	LAMAM W
<b>Height, Unit:</b>	6	IN
<b>Pest 3 Code, Disc., Scale:</b>	TAROF W	TAROF W
<b>Height, Unit:</b>	4	IN 4
<b>Pest 4 Code, Disc., Scale:</b>	ERICA W	ERICA W
<b>Height, Unit:</b>	2	IN 6
<b>Pest 5 Code, Disc., Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		6LF
<b>Height, Unit:</b>		6
<b>Pest 6 Code, Disc., Scale:</b>	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		8LF
<b>Height, Unit:</b>		5

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NO TILL CORN EARLY PREPLANT

Trial ID: C7008      Protocol ID: US 07-02  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>	
<b>Appl. Equipment:</b>	ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	45	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2	

<b>Date</b>	<b>By</b>	<b>Notes</b>
6-1-07	C. H. SLACK	COMPLETE STUDY OVERSPRAY WITH ROUNDUP WEATHER MAX AT 22 OZ/ACRE

Plant and Soil Science, U of KY  
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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMAM	TAROF	SETFA	AMBTR
Pest Name	Common chickweed	Henbit	Common dandelion	Giant foxtail	Giant Ragweed
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Date	5-8-07	5-8-07	5-8-07	6-1-07	6-1-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK A/B	2 WEEK A/B	2 WEEK A/B	2 WEEK	2 WEEK
Days After First/Last Applic.	21 14	21 14	21 14	45 11	45 11
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	31 DP-1	31 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6
1	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	99	99	0	13	13
1	METRIBUZIN	75	0.125	LB A/A	2 WK						
2	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	99	99	0	13	40
2	METRIBUZIN	75	0.1875	LB A/A	2 WK						
3	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	99	99	0	23	48
3	METRIBUZIN	75	0.25	LB A/A	2 WK						
4	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	99	99	0	90	85
4	METRIBUZIN	75	0.094	LB A/A	2 WK						
4	GLYFOS X-TRA	4	1	LB A/A	2 WAP						
4	METRIBUZIN	75	0.094	LB A/A	2 WAP						
5	GLYFOS X-TRA	4	1	LB A/A	2 WAP	99	99	99	0	92	92
5	METRIBUZIN	75	0.125	LB A/A	2 WAP						
6	GLYFOS X-TRA	4	1	LB A/A	2 WAP	99	99	99	0	88	92
6	METRIBUZIN	75	0.1875	LB A/A	2 WAP						
7	GLYFOS X-TRA	4	1	LB A/A	2 WAP	99	99	99	0	89	92
7	METRIBUZIN	75	0.25	LB A/A	2 WAP						
8	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	99	99	0	60	91
8	GLYFOS X-TRA	4	1	LB A/A	2 WAP						
8	ATRAZINE	4	1	LB A/A	2 WAP						
9	CHECK UNTREATED					0	0	0	0	0	0
10	RAGE D-TECH	4	0.75	PT/A	3WK	99	99	99	0	93	95
10	COC		1	% V/V	3WK						
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3 WAP						
10	AMS		3.7	% V/V	3 WAP						
11	RAGE D-TECH	4	0.75	PT/A	3WK	99	99	99	0	89	93
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK						
11	AMS		3.7	% V/V	3WK						
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3 WAP						
11	AMS		3.7	% V/V	3 WAP						

Plant and Soil Science, U of KY  
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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMAM	TAROF	SETFA	AMBTR
Pest Name	Common chickweed	Henbit	Common dandelion	Giant foxtail	Giant Ragweed
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Date	5-8-07	5-8-07	5-8-07	6-1-07	6-1-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK A/B	2 WEEK A/B	2 WEEK A/B	2 WEEK	2 WEEK
Days After First/Last Applic.	21 14	21 14	21 14	45 11	45 11
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	31 DP-1	31 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Stage	1	2	3	4	5	6
12	WEEDONE LV4	3.8	1 PT/A	3WK	99	99	99	0	96	96
12	COC		1 % V/V	3WK						
12	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP						
12	AMS		3.7 % V/V	3 WAP						
13	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3WK	99	99	99	0	90	93
13	AMS		3.7 % V/V	3WK						
13	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP						
13	AMS		3.7 % V/V	3 WAP						
14	WEEDONE LV4	3.8	1 PT/A	3WK	99	99	99	0	83	95
14	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3WK						
14	AMS		3.7 % V/V	3WK						
14	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP						
14	AMS		3.7 % V/V	3 WAP						
	LSD (P=.05)				0.0	0.0	0.0	0.0	26.8	25.7
	Standard Deviation				0.0	0.0	0.0	0.0	16.0	15.3
	CV				0.0	0.0	0.0	0.0	24.26	20.86
	Grand Mean				91.93	91.93	91.93	0.0	65.79	73.26
	Replicate F				0.000	0.000	0.000	0.000	0.116	1.456
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	0.8913	0.2516
	Treatment F				0.000	0.000	0.000	0.000	15.495	14.264
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	0.0001	0.0001



Plant and Soil Science, U of KY  
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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-1-07	7-2-07	7-2-07	7-2-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	45 11	76 42	76 42	76 42
Plant-Eval Interval	31 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	7	8	9	10	11
1	GLYFOS X-TRA	4	1	LB A/A	2 WK	37	0	3	3	23
1	METRIBUZIN	75	0.125	LB A/A	2 WK					
2	GLYFOS X-TRA	4	1	LB A/A	2 WK	78	0	3	27	45
2	METRIBUZIN	75	0.1875	LB A/A	2 WK					
3	GLYFOS X-TRA	4	1	LB A/A	2 WK	62	0	20	47	60
3	METRIBUZIN	75	0.25	LB A/A	2 WK					
4	GLYFOS X-TRA	4	1	LB A/A	2 WK	93	0	87	83	93
4	METRIBUZIN	75	0.094	LB A/A	2 WK					
4	GLYFOS X-TRA	4	1	LB A/A	2 WAP					
4	METRIBUZIN	75	0.094	LB A/A	2 WAP					
5	GLYFOS X-TRA	4	1	LB A/A	2 WAP	95	0	92	87	95
5	METRIBUZIN	75	0.125	LB A/A	2 WAP					
6	GLYFOS X-TRA	4	1	LB A/A	2 WAP	95	0	83	92	95
6	METRIBUZIN	75	0.1875	LB A/A	2 WAP					
7	GLYFOS X-TRA	4	1	LB A/A	2 WAP	95	0	87	88	95
7	METRIBUZIN	75	0.25	LB A/A	2 WAP					
8	GLYFOS X-TRA	4	1	LB A/A	2 WK	95	0	53	84	95
8	GLYFOS X-TRA	4	1	LB A/A	2 WAP					
8	ATRAZINE	4	1	LB A/A	2 WAP					
9	CHECK UNTREATED					0	0	0	0	0
10	RAGE D-TECH	4	0.75	PT/A	3WK	95	0	92	92	95
10	COC		1	% V/V	3WK					
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3 WAP					
10	AMS		3.7	% V/V	3 WAP					
11	RAGE D-TECH	4	0.75	PT/A	3WK	95	0	87	91	95
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK					
11	AMS		3.7	% V/V	3WK					
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3 WAP					
11	AMS		3.7	% V/V	3 WAP					

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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Rating Date	6-1-07	7-2-07	7-2-07	7-2-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	45 11	76 42	76 42	76 42
Plant-Eval Interval	31 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Stage	7	8	9	10	11
12	WEEDONE LV4	3.8	1 PT/A	3WK	96	0	95	96	96
12	COC		1 % V/V	3WK					
12	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP					
12	AMS		3.7 % V/V	3 WAP					
13	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3WK	95	0	85	90	95
13	AMS		3.7 % V/V	3WK					
13	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP					
13	AMS		3.7 % V/V	3 WAP					
14	WEEDONE LV4	3.8	1 PT/A	3WK	95	0	82	91	93
14	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3WK					
14	AMS		3.7 % V/V	3WK					
14	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP					
14	AMS		3.7 % V/V	3 WAP					
	LSD (P=.05)				28.9	0.0	24.5	29.0	32.3
	Standard Deviation				17.2	0.0	14.6	17.3	19.3
	CV				21.4	0.0	23.57	24.91	25.06
	Grand Mean				80.45	0.0	62.0	69.26	76.83
	Replicate F				1.723	0.000	0.012	1.525	2.079
	Replicate Prob(F)				0.1982	1.0000	0.9877	0.2364	0.1454
	Treatment F				8.455	0.000	20.090	12.112	8.267
	Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	0.0001

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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Date	8-2-07	8-2-07	8-2-07	8-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	107 73	107 73	107 73	107 73
Plant-Eval Interval	93 DP-1	93 DP-1	93 DP-1	93 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	12	13	14	15
1	GLYFOS X-TRA	4	1	LB A/A	2 WK	0	0	0	20
1	METRIBUZIN	75	0.125	LB A/A	2 WK				
2	GLYFOS X-TRA	4	1	LB A/A	2 WK	0	3	23	45
2	METRIBUZIN	75	0.1875	LB A/A	2 WK				
3	GLYFOS X-TRA	4	1	LB A/A	2 WK	0	20	40	60
3	METRIBUZIN	75	0.25	LB A/A	2 WK				
4	GLYFOS X-TRA	4	1	LB A/A	2 WK	0	87	72	93
4	METRIBUZIN	75	0.094	LB A/A	2 WK				
4	GLYFOS X-TRA	4	1	LB A/A	2 WAP				
4	METRIBUZIN	75	0.094	LB A/A	2 WAP				
5	GLYFOS X-TRA	4	1	LB A/A	2 WAP	0	88	81	95
5	METRIBUZIN	75	0.125	LB A/A	2 WAP				
6	GLYFOS X-TRA	4	1	LB A/A	2 WAP	0	83	83	95
6	METRIBUZIN	75	0.1875	LB A/A	2 WAP				
7	GLYFOS X-TRA	4	1	LB A/A	2 WAP	0	85	83	95
7	METRIBUZIN	75	0.25	LB A/A	2 WAP				
8	GLYFOS X-TRA	4	1	LB A/A	2 WK	0	53	83	95
8	GLYFOS X-TRA	4	1	LB A/A	2 WAP				
8	ATRAZINE	4	1	LB A/A	2 WAP				
9	CHECK UNTREATED					0	0	0	0
10	RAGE D-TECH	4	0.75	PT/A	3WK	0	92	91	95
10	COC		1	% V/V	3WK				
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3 WAP				
10	AMS		3.7	% V/V	3 WAP				
11	RAGE D-TECH	4	0.75	PT/A	3WK	0	87	88	95
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK				
11	AMS		3.7	% V/V	3WK				
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3 WAP				
11	AMS		3.7	% V/V	3 WAP				

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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Date	8-2-07	8-2-07	8-2-07	8-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	107 73	107 73	107 73	107 73
Plant-Eval Interval	93 DP-1	93 DP-1	93 DP-1	93 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit Stage	12	13	14	15
12	WEEDONE LV4	3.8	1 PT/A	3WK	0	95	93	96
12	COC		1 % V/V	3WK				
12	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP				
12	AMS		3.7 % V/V	3 WAP				
13	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3WK	0	85	88	95
13	AMS		3.7 % V/V	3WK				
13	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP				
13	AMS		3.7 % V/V	3 WAP				
14	WEEDONE LV4	3.8	1 PT/A	3WK	0	78	90	93
14	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3WK				
14	AMS		3.7 % V/V	3WK				
14	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	3 WAP				
14	AMS		3.7 % V/V	3 WAP				
	LSD (P=.05)				0.0	25.3	26.9	32.6
	Standard Deviation				0.0	15.1	16.0	19.4
	CV				0.0	24.67	24.45	25.34
	Grand Mean				0.0	61.17	65.45	76.6
	Replicate F				0.000	0.003	1.429	2.276
	Replicate Prob(F)				1.0000	0.9968	0.2577	0.1227
	Treatment F				0.000	18.840	13.767	8.357
	Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001

## NO TILL CORN EARLY PREPLANT II

Trial ID: C7009      Protocol ID: CHEMCORN 1  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-1-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-1-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN      **Spacing Within Row, Unit:** 7.1 IN  
**Seed Bed:** SMOOTH/TRASHY      **Soil Temperature, Unit:** 53 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-8-07

**Pest Description**

**Pest 1 Type:** W      **Code:** STEME      *Stellaria media*  
**Common Name:** Common chickweed

**Pest 2 Type:** W      **Code:** LAMAM      *Lamium amplexicaule*  
**Common Name:** Henbit

**Pest 3 Type:** W      **Code:** TAROF      *Taraxacum officinale*  
**Common Name:** Common dandelion

**Pest 4 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant foxtail

**Pest 5 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant ragweed

**Pest 6 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

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NO TILL CORN EARLY PREPLANT II

Trial ID: C7009 Protocol ID: CHEMCORN 1  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions****Overall Moisture Conditions:** BELOW NORMAL**Closest Weather Station:** SPINDLETOP**Distance:** 1**Unit:** MI**Application Description**

	A	B	C	D
<b>Application Date:</b>	4-17-07	4-24-07	5-14-07	5-21-07
<b>Time of Day:</b>	2 PM	2 PM	1 PM	2 PM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	3WK	2WK	2WAP	3WAP
<b>Application Placement:</b>	BROFOL	BROFOL	BROFOL	BROFOL
<b>Applied By:</b>	C H SLACK	C H SLACK	C H SLACK	C H SLACK
<b>Air Temperature, Unit:</b>	65 F	75 F	80 F	80 F
<b>% Relative Humidity:</b>	20	64	62	36
<b>Wind Velocity, Unit:</b>	4 MPH	5 MPH	8 MPH	4 MPH
<b>Wind Direction:</b>	SW	W	SW	SW
<b>Soil Temperature, Unit:</b>	50 F	50 F	70 F	70 F
<b>Soil Moisture:</b>	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
<b>% Cloud Cover:</b>	10	10	0	0

**Crop Stage At Each Application**

	A	B	C	D
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
<b>Height, Unit:</b>		3	IN 6	IN

**Pest Stage At Each Application**

	A	B	C	D
<b>Pest 1 Code, Disc., Scale:</b>	STEME W	STEME W	STEME W	STEME W
<b>Height, Unit:</b>		6	IN 6	IN
<b>Pest 2 Code, Disc., Scale:</b>	LAMAM W	LAMAM W	LAMAM W	LAMAM W
<b>Height, Unit:</b>		6	IN 6	IN
<b>Pest 3 Code, Disc., Scale:</b>	TAROF W	TAROF W	TAROF W	TAROF W
<b>Height, Unit:</b>		4	IN 4	IN
<b>Pest 4 Code, Disc., Scale:</b>	SETFA W	SETFA W	SETFA W	SETFA W
<b>Height, Unit:</b>		2	IN 4	IN
<b>Pest 5 Code, Disc., Scale:</b>	AMBTR W	AMBTR W	AMBTR W	AMBTR W
<b>Height, Unit:</b>		6	IN 8	IN
<b>Pest 6 Code, Disc., Scale:</b>	CHEAL W	CHEAL W	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		4 LF	6 LF	
<b>Height, Unit:</b>		3	IN 4	IN

## NO TILL CORN EARLY PREPLANT II

Trial ID: C7009      Protocol ID: CHEMCORN 1  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>		<b>C</b>	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	30	IN	33	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2		CO2	
	<b>D</b>					
<b>Appl. Equipment:</b>	ATV					
<b>Operating Pressure, Unit:</b>	30	PSI				
<b>Nozzle Type:</b>	FLAT FAN					
<b>Nozzle Size:</b>	8004 DG					
<b>Nozzle Spacing, Unit:</b>	20	IN				
<b>Boom Length, Unit:</b>	10	FT				
<b>Boom Height, Unit:</b>	36	IN				
<b>Ground Speed, Unit:</b>	4	MPH				
<b>Carrier:</b>	WATER					
<b>Spray Volume, Unit:</b>	24	GPA				
<b>Propellant:</b>	CO2					

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NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010 Protocol ID: C7010  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMAM	TAROF	SETFA	AMBTR	
Pest Name	Common chickweed	Henbit	Common dandelion	Giant foxtail	Giant Ragweed	
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Description						
Rating Date	5-8-07	5-8-07	5-8-07	6-14-07	6-14-07	6-14-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK-AFTB	2 WEEK-AFTB	2 WEEK-AFTB
Days After First/Last Applic.	14 14	14 14	14 14	51 15	51 15	51 15
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	44 DP-1	44 DP-1	44 DP-1
ARM Action Codes				P	P	P
Number of Decimals				0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	
1	CHECK UNTREATED						0	0	0	0	0	
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY		99	99	88	0	99	96
2	AMS	100	2.5	LB A/A	7DAY							
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C							
2	AMS	100	2.5	LB A/A	12C							
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY		99	99	99	0	99	95
3	VALOR SX	51	2	OZ/A	7DAY							
3	AMS	100	2.5	LB A/A	7DAY							
3	INDUCE		0.25	% V/V	7DAY							
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C							
3	AMS	100	2.5	LB A/A	12C							
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY		99	99	99	0	98	99
4	VALOR SX	51	2	OZ/A	7DAY							
4	AATREX	4	1	QT/A	7DAY							
4	AMS	100	2.5	LB A/A	7DAY							
4	INDUCE		0.25	% V/V	7DAY							
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C							
4	AMS	100	2.5	LB A/A	12C							
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY		99	99	99	0	96	99
5	BICEP II MAGNUM	5.5	1.6	QT/A	7DAY							
5	AMS	100	2.5	LB A/A	7DAY							
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C							
5	AMS	100	2.5	LB A/A	12C							
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY		99	99	99	0	98	98
6	VALOR SX	51	2	OZ/A	7DAY							
6	AMS	100	2.5	LB A/A	7DAY							
6	INDUCE		0.25	% V/V	7DAY							
6	AATREX	4	1	QT/A	12C							
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C							
6	AMS	100	2.5	LB A/A	12C							



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NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010 Protocol ID: C7010  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	STEME	LAMAM	TAROF		SETFA	AMBTR
Pest Name	Common chickweed	Henbit	Common dandelion		Giant foxtail	Giant Ragweed
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Name					Corn	
Description						
Rating Date	5-8-07	5-8-07	5-8-07	6-14-07	6-14-07	6-14-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK-AFTB	2 WEEK-AFTB	2 WEEK-AFTB
Days After First/Last Applic.	14 14	14 14	14 14	51 15	51 15	51 15
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	44 DP-1	44 DP-1	44 DP-1
ARM Action Codes				P	P	P
Number of Decimals				0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY		99	99	99	0	96	94
7	VALOR SX	51	2	OZ/A	7DAY							
7	AMS	100	2.5	LB A/A	7DAY							
7	INDUCE		0.25	% V/V	7DAY							
7	RESOURCE	0.86	3	OZ/A	12C							
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C							
7	INDUCE		0.25	% V/V	12C							
	LSD (P=.05)						0.0	0.0	0.0	0.0	4.6	5.2
	Standard Deviation						0.0	0.0	0.0	0.0	2.6	2.9
	CV						0.0	0.0	0.0	0.0	3.11	3.52
	Grand Mean						84.86	84.86	83.29	0.0	83.67	82.95
	Replicate F						0.000	0.000	0.000	0.000	0.344	1.430
	Replicate Prob(F)						1.0000	1.0000	1.0000	1.0000	0.7155	0.2773
	Treatment F						0.000	0.000	0.000	0.000	603.066	472.212
	Treatment Prob(F)						1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010 Protocol ID: C7010  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Description				
Rating Date	6-14-07	7-2-07	7-2-07	7-2-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK-AFTB	4 WEEK-AFTB	4 WEEK-AFTB	4 WEEK-AFTB
Days After First/Last Applic.	51 15	69 33	69 33	69 33
Plant-Eval Interval	44 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	7	8	9	10	11
1	CHECK UNTREATED					0	0	0	0	0
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	98	0	99	96	98
2	AMS	100	2.5	LB A/A	7DAY					
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
2	AMS	100	2.5	LB A/A	12C					
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	99	0	99	95	99
3	VALOR SX	51	2	OZ/A	7DAY					
3	AMS	100	2.5	LB A/A	7DAY					
3	INDUCE		0.25	% V/V	7DAY					
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
3	AMS	100	2.5	LB A/A	12C					
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	99	0	98	99	99
4	VALOR SX	51	2	OZ/A	7DAY					
4	AATREX	4	1	QT/A	7DAY					
4	AMS	100	2.5	LB A/A	7DAY					
4	INDUCE		0.25	% V/V	7DAY					
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
4	AMS	100	2.5	LB A/A	12C					
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	99	0	96	99	99
5	BICEP II MAGNUM	5.5	1.6	QT/A	7DAY					
5	AMS	100	2.5	LB A/A	7DAY					
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
5	AMS	100	2.5	LB A/A	12C					
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	99	0	98	98	99
6	VALOR SX	51	2	OZ/A	7DAY					
6	AMS	100	2.5	LB A/A	7DAY					
6	INDUCE		0.25	% V/V	7DAY					
6	AATREX	4	1	QT/A	12C					
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
6	AMS	100	2.5	LB A/A	12C					

Plant and Soil Science, U of KY  
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NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010 Protocol ID: C7010  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Name		Corn		
Description				
Rating Date	6-14-07	7-2-07	7-2-07	7-2-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK-AFTB	4 WEEK-AFTB	4 WEEK-AFTB	4 WEEK-AFTB
Days After First/Last Applic.	51 15	69 33	69 33	69 33
Plant-Eval Interval	44 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	7	8	9	10	11
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	98	0	96	94	98
7	VALOR SX	51	2	OZ/A	7DAY					
7	AMS	100	2.5	LB A/A	7DAY					
7	INDUCE		0.25	% V/V	7DAY					
7	RESOURCE	0.86	3	OZ/A	12C					
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
7	INDUCE		0.25	% V/V	12C					
LSD (P=.05)						2.0	0.0	4.6	5.2	2.0
Standard Deviation						1.1	0.0	2.6	2.9	1.1
CV						1.33	0.0	3.11	3.52	1.33
Grand Mean						84.48	0.0	83.67	82.95	84.48
Replicate F						2.400	0.000	0.344	1.430	2.400
Replicate Prob(F)						0.1328	1.0000	0.7155	0.2773	0.1328
Treatment F						3279.138	0.000	603.066	472.212	3279.138
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010 Protocol ID: C7010  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
Description					moisture 14.5%
Rating Date	8-2-07	8-2-07	8-2-07	8-2-07	9-14-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK-AFTB	8 WEEK-AFTB	8 WEEK-AFTB	8 WEEK-AFTB	
Days After First/Last Applic.	100 64	100 64	100 64	100 64	143 107
Plant-Eval Interval	93 DP-1	93 DP-1	93 DP-1	93 DP-1	136 DP-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	19
1	CHECK UNTREATED					0	0	0	0	9
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	0	99	94	98	200
2	AMS	100	2.5	LB A/A	7DAY					
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
2	AMS	100	2.5	LB A/A	12C					
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	0	99	93	99	214
3	VALOR SX	51	2	OZ/A	7DAY					
3	AMS	100	2.5	LB A/A	7DAY					
3	INDUCE		0.25	% V/V	7DAY					
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
3	AMS	100	2.5	LB A/A	12C					
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	0	96	99	99	236
4	VALOR SX	51	2	OZ/A	7DAY					
4	AATREX	4	1	QT/A	7DAY					
4	AMS	100	2.5	LB A/A	7DAY					
4	INDUCE		0.25	% V/V	7DAY					
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
4	AMS	100	2.5	LB A/A	12C					
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	0	96	99	99	224
5	BICEP II MAGNUM	5.5	1.6	QT/A	7DAY					
5	AMS	100	2.5	LB A/A	7DAY					
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
5	AMS	100	2.5	LB A/A	12C					
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	7DAY	0	98	98	99	210
6	VALOR SX	51	2	OZ/A	7DAY					
6	AMS	100	2.5	LB A/A	7DAY					
6	INDUCE		0.25	% V/V	7DAY					
6	AATREX	4	1	QT/A	12C					
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	12C					
6	AMS	100	2.5	LB A/A	12C					

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NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010 Protocol ID: C7010  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
Description					moisture 14.5%
Rating Date	8-2-07	8-2-07	8-2-07	8-2-07	9-14-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK-AFTB	8 WEEK-AFTB	8 WEEK-AFTB	8 WEEK-AFTB	
Days After First/Last Applic.	100 64	100 64	100 64	100 64	143 107
Plant-Eval Interval	93 DP-1	93 DP-1	93 DP-1	93 DP-1	136 DP-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	12	13	14	15	19
7	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	7DAY		0	96	93	98	202
7	VALOR SX	51	2 OZ/A	7DAY						
7	AMS	100	2.5 LB A/A	7DAY						
7	INDUCE		0.25 % V/V	7DAY						
7	RESOURCE	0.86	3 OZ/A	12C						
7	ROUNDUP ORIGINAL MAX	5.5	22 OZ/A	12C						
7	INDUCE		0.25 % V/V	12C						

LSD (P=.05)	0.0	5.6	7.9	2.0	32.5
Standard Deviation	0.0	3.1	4.4	1.1	18.3
CV	0.0	3.74	5.38	1.33	9.88
Grand Mean	0.0	83.43	82.24	84.48	184.95
Replicate F	0.000	0.630	1.114	2.400	2.217
Replicate Prob(F)	1.0000	0.5494	0.3600	0.1328	0.1515
Treatment F	0.000	416.784	203.021	3279.138	55.507
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001

Column 16: TY1 = 4.093985\*[17]\*(100-[18])/85.5

Plant and Soil Science, U of KY  
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## NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010      Protocol ID: C7010  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-1-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-1-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN      **Spacing Within Row, Unit:** 7.1 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 53 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-8-07  
**Harvest Date:** 9-14-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 38 FT  
**% Standard Moisture:** 14.5

**Pest Description**

**Pest 1 Type:** W      **Code:** STEME      *Stellaria media*  
**Common Name:** Common chickweed

**Pest 2 Type:** W      **Code:** LAMAM      *Lamium amplexicaule*  
**Common Name:** Henbit

**Pest 3 Type:** W      **Code:** TAROF      *Taraxacum officinale*  
**Common Name:** Common dandelion

**Pest 4 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail

**Pest 5 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed

**Pest 6 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

## NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010      Protocol ID: C7010  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions****Overall Moisture Conditions:** BELOW NORMAL**Closest Weather Station:** SPINDLETOP**Distance:** 1**Unit:** MI**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	4-24-07	5-30-07
<b>Time of Day:</b>	2 PM	4 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	7 DAY	12C
<b>Application Placement:</b>	BROFOL	BROFOL
<b>Applied By:</b>	C H SLACK	C H SLACK
<b>Air Temperature, Unit:</b>	75 F	88 F
<b>% Relative Humidity:</b>	64	48
<b>Wind Velocity, Unit:</b>	5 MPH	6 MPH
<b>Wind Direction:</b>	W	SW
<b>Soil Temperature, Unit:</b>	50 F	80 F
<b>Soil Moisture:</b>	ADEQUATE	INADEQUATE
<b>% Cloud Cover:</b>	10	0

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR
<b>Stage Scale Used:</b>	V4	
<b>Height, Unit:</b>	12	IN

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## NO-TILL CORN EARLY PREPLANT III

Trial ID: C7010      Protocol ID: C7010  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

## Pest Stage At Each Application

	A		B	
<b>Pest 1 Code, Disc., Scale:</b>	STEME	W	STEME	W
<b>Height, Unit:</b>	6		IN	
<b>Pest 2 Code, Disc., Scale:</b>	LAMAM	W	LAMAM	W
<b>Height, Unit:</b>	6		IN	
<b>Pest 3 Code, Disc., Scale:</b>	TAROF	W	TAROF	W
<b>Height, Unit:</b>	4		IN 2	IN
<b>Pest 4 Code, Disc., Scale:</b>	SETFA	W	SETFA	W
<b>Stage Majority, Percent:</b>			4LF	
<b>Height, Unit:</b>			4	IN
<b>Pest 5 Code, Disc., Scale:</b>	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>			8LF	
<b>Height, Unit:</b>			6	IN
<b>Pest 6 Code, Disc., Scale:</b>	CHEAL	W	CHEAL	W
<b>Stage Majority, Percent:</b>			12 LF	
<b>Height, Unit:</b>			6	IN

## Application Equipment

	A		B	
<b>Appl. Equipment:</b>	ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	42	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2	



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CORN POSTEMERGENCE V

Trial ID: C7019 Protocol ID: GOWAN 2  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMACH	CHEAL	AMACH	CHEAL
Pest Name	Smooth pigweed	Lambsquarters, common	Smooth pigweed	Lambsquarters, common
Crop Code	ZEAMX		ZEAMX	
BBCH Scale	BCOR		BCOR	
Crop Name	Corn		Corn	
Rating Date	6-15-07	6-15-07	6-15-07	7-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	16 16	16 16	16 16	33 33
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	61 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	
1	YUKON	67.5	4	OZ/A	MP	0	83		88	0	88	95
1	COC		1	% V/V	MP							
1	AMS	100	2.5	LB A/A	MP							
2	PERMIT	75	0.67	OZ/A	MP	0	95		95	0	95	95
2	AATREX	4	1	LB A/A	MP							
2	COC		1	% V/V	MP							
2	AMS	100	2.5	LB A/A	MP							
3	PERMIT	75	0.67	OZ/A	MP	0	88		58	0	88	48
3	IMPACT	2.8	0.25	OZ/A	MP							
3	COC		1	% V/V	MP							
3	AMS	100	2.5	LB A/A	MP							
4	PERMIT	75	0.67	OZ/A	MP	0	93		88	0	91	89
4	CALLISTO	4	1	OZ/A	MP							
4	COC		1	% V/V	MP							
4	AMS	100	2.5	LB A/A	MP							
5	CALLISTO	4	3	OZ/A	MP	0	88		88	0	94	92
5	COC		1	% V/V	MP							
5	AMS	100	2.5	LB A/A	MP							
6	PERMIT	75	0.67	OZ/A	MP	0	93		27	0	93	20
6	COC		1	% V/V	MP							
6	AMS	100	2.5	LB A/A	MP							
7	LAUDIS	3.5	3	OZ/A	MP	0	96		96	0	99	99
7	AATREX	4	1	PT/A	MP							
7	INDUCE		1	% V/V	MP							
7	LIQUID N		1.5	QT/A	MP							
8	CHECK UNTREATED					0	0		0	0	0	0
LSD (P=.05)						0.0	8.7		25.9	0.0	10.8	23.9
Standard Deviation						0.0	5.0		14.8	0.0	6.1	13.6
CV						0.0	6.23		21.84	0.0	7.57	20.25
Grand Mean						0.0	79.75		67.67	0.0	81.13	67.33

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE V

Trial ID: C7019      Protocol ID: GOWAN 2  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed		W Weed		W Weed		W Weed
Pest Code		AMACH		CHEAL		AMACH		CHEAL
Pest Name		Smooth pigweed		Lambsquarters, common		Smooth pigweed		Lambsquarters, common
Crop Code	ZEAMX					ZEAMX		
BBCH Scale	BCOR					BCOR		
Crop Name	Corn					Corn		
Rating Date	6-15-07	6-15-07		6-15-07	7-2-07	7-2-07		7-2-07
Rating Data Type	INJURY	CONTROL		CONTROL	INJURY	CONTROL		CONTROL
Rating Unit	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT		PERCENT
Rating Timing	2 WEEK	2 WEEK		2 WEEK	4 WEEK	4 WEEK		4 WEEK
Days After First/Last Applic.	16 16	16 16		16 16	33 33	33 33		33 33
Trt-Eval Interval	16 DA-A	16 DA-A		16 DA-A	16 DA-A	16 DA-A		16 DA-A
Plant-Eval Interval	44 DP-1	44 DP-1		44 DP-1	61 DP-1	61 DP-1		61 DP-1
ARM Action Codes	P	P		P	P	P		P
Number of Decimals	0	0		0	0	0		0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6
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Replicate F						0.000	2.994	2.254	0.000	3.469	2.491
Replicate Prob(F)						1.0000	0.0827	0.1417	1.0000	0.0598	0.1187
Treatment F						0.000	128.269	18.040	0.000	86.454	24.805
Treatment Prob(F)						1.0000	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C7019 Protocol ID: GOWAN 2  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed
Pest Code		AMACH	CHEAL
Pest Name		Smooth pigweed	Lambsquarters, common
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Date	7-30-07	7-30-07	7-30-07
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	61 61	61 61	61 61
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	89 DP-1	89 DP-1	89 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9
1	YUKON	67.5	4	OZ/A	MP	0	88	95
1	COC		1	% V/V	MP			
1	AMS	100	2.5	LB A/A	MP			
2	PERMIT	75	0.67	OZ/A	MP	0	95	95
2	AATREX	4	1	LB A/A	MP			
2	COC		1	% V/V	MP			
2	AMS	100	2.5	LB A/A	MP			
3	PERMIT	75	0.67	OZ/A	MP	0	88	48
3	IMPACT	2.8	0.25	OZ/A	MP			
3	COC		1	% V/V	MP			
3	AMS	100	2.5	LB A/A	MP			
4	PERMIT	75	0.67	OZ/A	MP	0	91	89
4	CALLISTO	4	1	OZ/A	MP			
4	COC		1	% V/V	MP			
4	AMS	100	2.5	LB A/A	MP			
5	CALLISTO	4	3	OZ/A	MP	0	94	92
5	COC		1	% V/V	MP			
5	AMS	100	2.5	LB A/A	MP			
6	PERMIT	75	0.67	OZ/A	MP	0	93	20
6	COC		1	% V/V	MP			
6	AMS	100	2.5	LB A/A	MP			
7	LAUDIS	3.5	3	OZ/A	MP	0	99	99
7	AATREX	4	1	PT/A	MP			
7	INDUCE		1	% V/V	MP			
7	LIQUID N		1.5	QT/A	MP			
8	CHECK UNTREATED					0	0	0
	LSD (P=.05)					0.0	10.8	23.9
	Standard Deviation					0.0	6.1	13.6
	CV					0.0	7.57	20.25
	Grand Mean					0.0	81.13	67.33

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE V

Trial ID: C7019      Protocol ID: GOWAN 2  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed
Pest Code		AMACH	CHEAL
Pest Name		Smooth pigweed	Lambsquarters, common
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Date	7-30-07	7-30-07	7-30-07
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	61 61	61 61	61 61
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	89 DP-1	89 DP-1	89 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

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Trt	Treatment	Form	Rate	Growth				
No.	Name	Conc	Rate	Unit	Stage	7	8	9

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Replicate F	0.000	3.469	2.491
Replicate Prob(F)	1.0000	0.0598	0.1187
Treatment F	0.000	86.454	24.805
Treatment Prob(F)	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

## CORN POSTEMERGENCE V

Trial ID: C7019      Protocol ID: GOWAN 2  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-2-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM/TRASHY      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07

**Pest Description**

**Pest 1 Type:** W      **Code:** AMACH      Amaranthus hybridus  
**Common Name:** Smooth pigweed

**Pest 2 Type:** W      **Code:** CHEAL      Chenopodium album  
**Common Name:** Common lambsquarters

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

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

## CORN POSTEMERGENCE V

Trial ID: C7019      Protocol ID: GOWAN 2  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

**Application Description****A**

**Application Date:** 5-30-07  
**Time of Day:** 4 PM  
**Application Method:** SPRAY  
**Application Timing:** MP  
**Application Placement:** BROFOL  
**Applied By:** C H SLACK  
**Air Temperature, Unit:** 88 F  
**% Relative Humidity:** 48  
**Wind Velocity, Unit:** 6 MPH  
**Wind Direction:** SW  
**Soil Temperature, Unit:** 80 F  
**Soil Moisture:** INADEQUATE  
**% Cloud Cover:** 0

**Crop Stage At Each Application****A**

**Crop 1 Code, BBCH Scale:** ZEAMX BCOR  
**Stage Scale Used:** V4  
**Height, Unit:** 12 IN

**Pest Stage At Each Application****A**

**Pest 1 Code, Disc., Scale:** AMACH W  
**Stage Majority, Percent:** 4LF  
**Height, Unit:** 2 IN  
**Pest 2 Code, Disc., Scale:** CHEAL W  
**Stage Majority, Percent:** 10LF  
**Height, Unit:** 4 IN

**Application Equipment****A**

**Appl. Equipment:** ATV  
**Operating Pressure, Unit:** 30 PSI  
**Nozzle Type:** FLAT FAN  
**Nozzle Size:** 8004 DG  
**Nozzle Spacing, Unit:** 20 IN  
**Boom Length, Unit:** 10 FT  
**Boom Height, Unit:** 42 IN  
**Ground Speed, Unit:** 4 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 24 GPA  
**Propellant:** CO2

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE

Trial ID: C7020 Protocol ID: GOWAN 1  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Morning glory	Giant foxtail	
Crop Code	ZEAMX					ZEAMX	
BBCH Scale	BCOR					BCOR	
Crop Name	Corn					Corn	
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07	6-6-07	6-21-07	6-21-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	29 29	29 29
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	52 DP-1	52 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	YUKON	67.5	4	OZ/A	MP	0	23	98	98	80	0	13
1	COC		1	% V/V	MP							
1	AMS	100	2.5	LB A/A	MP							
2	PERMIT	75	0.67	OZ/A	MP	0	10	94	96	85	0	3
2	AATREX	4	1	LB A/A	MP							
2	COC		1	% V/V	MP							
2	AMS	100	2.5	LB A/A	MP							
3	PERMIT	75	0.67	OZ/A	MP	0	23	95	60	53	0	30
3	IMPACT	2.8	0.25	OZ/A	MP							
3	COC		1	% V/V	MP							
3	AMS	100	2.5	LB A/A	MP							
4	PERMIT	75	0.67	OZ/A	MP	0	17	96	98	84	0	10
4	CALLISTO	4	1	OZ/A	MP							
4	COC		1	% V/V	MP							
4	AMS	100	2.5	LB A/A	MP							
5	CALLISTO	4	3	OZ/A	MP	0	10	99	99	92	0	7
5	COC		1	% V/V	MP							
5	AMS	100	2.5	LB A/A	MP							
6	PERMIT	75	0.67	OZ/A	MP	0	33	93	45	17	0	30
6	COC		1	% V/V	MP							
6	AMS	100	2.5	LB A/A	MP							
7	LAUDIS	3.5	3	OZ/A	MP	0	95	99	99	93	0	89
7	AATREX	4	1	PT/A	MP							
7	INDUCE		1	% V/V	MP							
7	LIQUID N		1.5	QT/A	MP							
8	CHECK UNTREATED					0	0	0	0	0	0	0
LSD (P=.05)						0.0	33.7	4.0	36.5	17.5	0.0	43.2
Standard Deviation						0.0	19.3	2.3	20.8	10.0	0.0	24.7
CV						0.0	72.68	2.74	28.04	15.86	0.0	108.14
Grand Mean						0.0	26.5	84.29	74.29	63.0	0.0	22.83

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Morning glory	Giant foxtail	
Crop Code	ZEAMX					ZEAMX	
BBCH Scale	BCOR					BCOR	
Crop Name	Corn					Corn	
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07	6-6-07	6-21-07	6-21-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	29 29	29 29
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	52 DP-1	52 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7	
Replicate F						0.000	0.478	2.375		0.495	2.194	0.000	0.349
Replicate Prob(F)						1.0000	0.6301	0.1294		0.6201	0.1483	1.0000	0.7116
Treatment F						0.000	7.104	655.097		9.277	39.298	0.000	4.177
Treatment Prob(F)						1.0000	0.0010	0.0001		0.0002	0.0001	1.0000	0.0110



Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE

Trial ID: C7020 Protocol ID: GOWAN 1  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS		SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Morning glory		Giant foxtail	Giant ragweed
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Date	6-21-07	6-21-07	6-21-07	7-20-07	7-20-07	7-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	29 29	29 29	29 29	58 58	58 58	58 58
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	52 DP-1	52 DP-1	52 DP-1	81 DP-1	81 DP-1	81 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	11	12	13
1	YUKON	67.5	4	OZ/A	MP	95	98	72	0	13	92
1	COC		1	% V/V	MP						
1	AMS	100	2.5	LB A/A	MP						
2	PERMIT	75	0.67	OZ/A	MP	90	95	75	0	3	77
2	AATREX	4	1	LB A/A	MP						
2	COC		1	% V/V	MP						
2	AMS	100	2.5	LB A/A	MP						
3	PERMIT	75	0.67	OZ/A	MP	93	45	40	0	30	89
3	IMPACT	2.8	0.25	OZ/A	MP						
3	COC		1	% V/V	MP						
3	AMS	100	2.5	LB A/A	MP						
4	PERMIT	75	0.67	OZ/A	MP	93	98	68	0	10	85
4	CALLISTO	4	1	OZ/A	MP						
4	COC		1	% V/V	MP						
4	AMS	100	2.5	LB A/A	MP						
5	CALLISTO	4	3	OZ/A	MP	96	99	87	0	7	96
5	COC		1	% V/V	MP						
5	AMS	100	2.5	LB A/A	MP						
6	PERMIT	75	0.67	OZ/A	MP	92	17	17	0	30	87
6	COC		1	% V/V	MP						
6	AMS	100	2.5	LB A/A	MP						
7	LAUDIS	3.5	3	OZ/A	MP	98	99	83	0	87	96
7	AATREX	4	1	PT/A	MP						
7	INDUCE		1	% V/V	MP						
7	LIQUID N		1.5	QT/A	MP						
8	CHECK UNTREATED					0	0	0	0	0	0
LSD (P=.05)						7.2	21.7	18.1	0.0	43.0	11.9
Standard Deviation						4.1	12.4	10.3	0.0	24.5	6.8
CV						5.03	17.99	18.71	0.0	109.01	8.74
Grand Mean						82.08	68.75	55.21	0.0	22.5	77.67

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CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS		SETFA	AMBTR
Pest Name	Giant ragweed	Lambsquarters, common	Morning glory		Giant foxtail	Giant ragweed
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Date	6-21-07	6-21-07	6-21-07	7-20-07	7-20-07	7-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	29 29	29 29	29 29	58 58	58 58	58 58
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Plant-Eval Interval	52 DP-1	52 DP-1	52 DP-1	81 DP-1	81 DP-1	81 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	11	12	13
Replicate F						1.474	1.297	4.169	0.000	0.327	1.401
Replicate Prob(F)						0.2624	0.3042	0.0380	1.0000	0.7263	0.2788
Treatment F						194.448	34.171	29.644	0.000	3.985	66.816
Treatment Prob(F)						0.0001	0.0001	0.0001	1.0000	0.0133	0.0001

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed
Pest Code		CHEAL	IPOSS
Pest Name		Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date		7-20-07	7-20-07
Rating Data Type		CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT
Rating Timing		8 WEEK	8 WEEK
Days After First/Last Applic.		58 58	58 58
Trt-Eval Interval		16 DA-A	16 DA-A
Plant-Eval Interval		81 DP-1	81 DP-1
ARM Action Codes		P	P
Number of Decimals		0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15
1	YUKON	67.5	4	OZ/A	MP	93	72
1	COC		1	% V/V	MP		
1	AMS	100	2.5	LB A/A	MP		
2	PERMIT	75	0.67	OZ/A	MP	93	67
2	AATREX	4	1	LB A/A	MP		
2	COC		1	% V/V	MP		
2	AMS	100	2.5	LB A/A	MP		
3	PERMIT	75	0.67	OZ/A	MP	35	30
3	IMPACT	2.8	0.25	OZ/A	MP		
3	COC		1	% V/V	MP		
3	AMS	100	2.5	LB A/A	MP		
4	PERMIT	75	0.67	OZ/A	MP	96	63
4	CALLISTO	4	1	OZ/A	MP		
4	COC		1	% V/V	MP		
4	AMS	100	2.5	LB A/A	MP		
5	CALLISTO	4	3	OZ/A	MP	99	83
5	COC		1	% V/V	MP		
5	AMS	100	2.5	LB A/A	MP		
6	PERMIT	75	0.67	OZ/A	MP	13	17
6	COC		1	% V/V	MP		
6	AMS	100	2.5	LB A/A	MP		
7	LAUDIS	3.5	3	OZ/A	MP	99	82
7	AATREX	4	1	PT/A	MP		
7	INDUCE		1	% V/V	MP		
7	LIQUID N		1.5	QT/A	MP		
8	CHECK UNTREATED					0	0
LSD (P=.05)						20.8	20.5
Standard Deviation						11.9	11.7
CV						17.97	22.68
Grand Mean						66.04	51.67

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed	W Weed
Pest Code	CHEAL	IPOSS
Pest Name	Lambsquarters, common	Morning glory
Crop Code		
BBCH Scale		
Crop Name		
Rating Date	7-20-07	7-20-07
Rating Data Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	58 58	58 58
Trt-Eval Interval	16 DA-A	16 DA-A
Plant-Eval Interval	81 DP-1	81 DP-1
ARM Action Codes	P	P
Number of Decimals	0	0

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Trt	Treatment	Form	Rate	Growth		
No.	Name	Conc	Rate	Unit	Stage	

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					14	15
Replicate F					2.277	5.013
Replicate Prob(F)					0.1393	0.0228
Treatment F					38.417	21.928
Treatment Prob(F)					0.0001	0.0001

Plant and Soil Science, U of KY  
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## CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC63-74  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 59 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

## CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description****A**

Application Date: 5-23-07  
 Time of Day: 10 AM  
 Application Method: SPRAY  
 Application Timing: MP  
 Application Placement: BROFOL  
 Applied By: C H SLACK  
 Air Temperature, Unit: 79 F  
 % Relative Humidity: 46  
 Wind Velocity, Unit: 6 MPH  
 Wind Direction: S  
 Soil Temperature, Unit: 75 F  
 Soil Moisture: ADEQUATE  
 % Cloud Cover: 10

**Crop Stage At Each Application****A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR  
 Stage Scale Used: V2  
 Height, Unit: 6 IN

**Pest Stage At Each Application****A**

Pest 1 Code, Disc., Scale: SETFA W  
 Stage Majority, Percent: 2 LF  
 Height, Unit: 3 IN  
 Pest 2 Code, Disc., Scale: AMBTR W  
 Stage Majority, Percent: 6 LF  
 Height, Unit: 4 IN  
 Pest 3 Code, Disc., Scale: CHEAL W  
 Stage Majority, Percent: 6 LF  
 Height, Unit: 3 IN  
 Pest 4 Code, Disc., Scale: IPOSS W  
 Stage Majority, Percent: 4LF  
 Height, Unit: 3 IN

## CORN POSTEMERGENCE

Trial ID: C7020      Protocol ID: GOWAN 1  
Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

**Application Equipment****A**

<b>Appl. Equipment:</b>	ATV	
<b>Operating Pressure, Unit:</b>	30	PSI
<b>Nozzle Type:</b>	FLAT FAN	
<b>Nozzle Size:</b>	8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN
<b>Boom Length, Unit:</b>	10	FT
<b>Boom Height, Unit:</b>	36	IN
<b>Ground Speed, Unit:</b>	4	MPH
<b>Carrier:</b>	WATER	
<b>Spray Volume, Unit:</b>	24	GPA
<b>Propellant:</b>	CO2	

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMBTR
Pest Name				Giant foxtail	Giant Ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Name	Corn	Corn	Corn		
Description					
Rating Date	5-14-07	5-22-07	5-29-07	5-29-07	5-29-07
Rating Data Type	INJURY	INJURY	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	1 WK AFT. EM	1 WK AFT. B	2 WK AFT. B	2 WK AFT. B	2 WK AFT. B
Days After First/Last Applic.	13 0	21 8	28 6	28 6	28 6
Trt-Eval Interval	1 WEEK				
Plant-Eval Interval	14 DP-1	22 DP-1	29 DP-1	29 DP-1	29 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
1	LEXAR	3.7	1.5	QT/A	PRE	0	0	0	99	92
1	LEXAR	3.7	1.5	QT/A	EP					
2	LEXAR	3.7	3	QT/A	PRE	0	0	0	99	86
3	LEXAR	3.7	1.25	QT/A	PRE	0	0	0	99	75
3	HALEX GT	4.38	4	PT/A	REG-V8					
3	AMS	100	8.5	LB/100 GAL	REG-V8					
3	INDUCE		0.25	% V/V	REG-V8					
4	BICEP II MAGNUM	5.5	1.5	QT/A	PRE	0	0	0	99	70
4	HALEX GT	4.38	4	PT/A	REG-V8					
4	AMS	100	8.5	LB/100 GAL	REG-V8					
4	INDUCE		0.25	% V/V	REG-V8					
5	LUMAX	3.94	2	QT/A	PRE	0	0	0	99	83
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
5	AMS	100	8.5	LB/100 GAL	REG-V8					
6	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	0	0	0	99	78
6	CALLISTO	4	3	FL OZ/A	REG-V8					
6	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
6	AMS	100	8.5	LB/100 GAL	REG-V8					
7	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8	0	0	0	0	0
7	AMS	100	8.5	LB/100 GAL	REG-V8					
8	CHECK UNTREATED					0	0	0	0	0
9	HALEX GT	4.38	4	PT/A	EP	0	0	0	99	89
9	AMS	100	8.5	LB/100 GAL	EP					
9	INDUCE		0.25	% V/V	EP					
10	HALEX GT	4.38	4	PT/A	EP	0	0	0	99	89
10	AATREX	4	2	PT/A	EP					
10	AMS	100	8.5	LB/100 GAL	EP					
10	INDUCE		0.25	% V/V	EP					



Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMBTR
Pest Name				Giant foxtail	Giant Ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Name	Corn	Corn	Corn		
Description					
Rating Date	5-14-07	5-22-07	5-29-07	5-29-07	5-29-07
Rating Data Type	INJURY	INJURY	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	1 WK AFT. EM	1 WK AFT. B	2 WK AFT. B	2 WK AFT. B	2 WK AFT. B
Days After First/Last Applic.	13 0	21 8	28 6	28 6	28 6
Trt-Eval Interval	1 WEEK				
Plant-Eval Interval	14 DP-1	22 DP-1	29 DP-1	29 DP-1	29 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
11	LEXAR	3.7	2.35	QT/A	EP	0	0	0	98	89
11	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
11	AMS	100	8.5	LB/100 GAL	REG-V8					
12	HARNESS XTRA	5.6	1.5	QT/A	PRE	0	0	0	99	89
12	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8					
12	AMS	100	8.5	LB/100 GAL	REG-V8					
13	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	0	0	0	99	98
13	AMS	100	8.5	LB/100 GAL	MP					
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	0	0	0	99	99
14	AMS	100	8.5	LB/100 GAL	MP					
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8					
14	AMS	100	8.5	LB/100 GAL	REG-V8					
15	BALANCE PRO	4	1.5	OZ/A	PRE	0	0	0	99	98
15	AATREX	4	1	QT/A	PRE					
15	LAUDIS	3.5	3	OZ/A	MP					
15	MSO		1	% V/V	MP					
15	LIQUID N		1.5	QT/A	MP					
16	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	0	0	0	99	99
16	IMPACT	2.8	0.016	LB A/A	MP					
16	AATREX	4	0.5	LB A/A	MP					
16	MSO		1	% V/V	MP					
16	LIQUID N		1.5	QT/A	MP					
17	SURESTART	4.25	1.75	PT/A	EP	0	0	0	99	83
17	DURANGO	5.4	24	OZ/A	EP					
17	AMS	100	2	% W/W	EP					
18	AATREX	4	1.5	QT/A	PRE	0	0	0	99	91
18	STEADFAST	75	0.035	LB A/A	MP					
18	MSO		1	% V/V	MP					
18	LIQUID N		2.5	% V/V	MP					

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CORN POSTEMERGENCE II

Trial ID: C7021                      Protocol ID: HMSOO5S4  
Location: LEXINGTON, KY              Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMBTR
Pest Name				Giant foxtail	Giant Ragweed
Crop Code		ZEAMX	ZEAMX	ZEAMX	
BBCH Scale		BCOR	BCOR	BCOR	
Crop Name		Corn	Corn	Corn	
Description					
Rating Date		5-14-07	5-22-07	5-29-07	5-29-07
Rating Data Type		INJURY	INJURY	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		1 WK AFT. EM	1 WK AFT. B	2 WK AFT. B	2 WK AFT. B
Days After First/Last Applic.		13 0	21 8	28 6	28 6
Trt-Eval Interval		1 WEEK			
Plant-Eval Interval		14 DP-1	22 DP-1	29 DP-1	29 DP-1
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0

Trt	Treatment	Form	Rate	Rate	Growth	1	2	3	4	5
No.	Name	Conc	Rate	Unit	Stage					
LSD (P=.05)						0.0	0.0	0.0	0.9	7.0
Standard Deviation						0.0	0.0	0.0	0.5	4.2
CV						0.0	0.0	0.0	0.62	5.38
Grand Mean						0.0	0.0	0.0	87.93	78.31
Replicate F						0.000	0.000	0.000	1.000	0.067
Replicate Prob(F)						1.0000	1.0000	1.0000	0.3784	0.9355
Treatment F						0.000	0.000	0.000	10361.060	148.209
Treatment Prob(F)						1.0000	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	5-29-07	5-29-07	6-14-07	6-14-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WK AFT. B	2 WK AFT. B	4 WK AFT. B	4 WK AFT. B
Days After First/Last Applic.	28 6	28 6	44 14	44 14
Trt-Eval Interval				
Plant-Eval Interval	29 DP-1	29 DP-1	45 DP-1	45 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	10
1	LEXAR	3.7	1.5	QT/A	PRE	99	92	0	99	88
1	LEXAR	3.7	1.5	QT/A	EP					
2	LEXAR	3.7	3	QT/A	PRE	99	93	0	99	83
3	LEXAR	3.7	1.25	QT/A	PRE	99	85	0	99	88
3	HALEX GT	4.38	4	PT/A	REG-V8					
3	AMS	100	8.5	LB/100 GAL	REG-V8					
3	INDUCE		0.25	% V/V	REG-V8					
4	BICEP II MAGNUM	5.5	1.5	QT/A	PRE	99	80	0	99	96
4	HALEX GT	4.38	4	PT/A	REG-V8					
4	AMS	100	8.5	LB/100 GAL	REG-V8					
4	INDUCE		0.25	% V/V	REG-V8					
5	LUMAX	3.94	2	QT/A	PRE	99	92	0	99	93
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
5	AMS	100	8.5	LB/100 GAL	REG-V8					
6	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	99	83	0	99	95
6	CALLISTO	4	3	FL OZ/A	REG-V8					
6	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
6	AMS	100	8.5	LB/100 GAL	REG-V8					
7	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8	0	0	0	99	98
7	AMS	100	8.5	LB/100 GAL	REG-V8					
8	CHECK UNTREATED					0	0	0	0	0
9	HALEX GT	4.38	4	PT/A	EP	99	96	0	99	75
9	AMS	100	8.5	LB/100 GAL	EP					
9	INDUCE		0.25	% V/V	EP					
10	HALEX GT	4.38	4	PT/A	EP	99	95	0	99	83
10	AATREX	4	2	PT/A	EP					
10	AMS	100	8.5	LB/100 GAL	EP					
10	INDUCE		0.25	% V/V	EP					

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	5-29-07	5-29-07	6-14-07	6-14-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WK AFT. B	2 WK AFT. B	4 WK AFT. B	4 WK AFT. B
Days After First/Last Applic.	28 6	28 6	44 14	44 14
Trt-Eval Interval				
Plant-Eval Interval	29 DP-1	29 DP-1	45 DP-1	45 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	6	7	8	9	10
11	LEXAR	3.7	2.35	QT/A	EP	99	90	0	98	95
11	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
11	AMS	100	8.5	LB/100 GAL	REG-V8					
12	HARNESX XTRA	5.6	1.5	QT/A	PRE	99	86	0	99	95
12	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8					
12	AMS	100	8.5	LB/100 GAL	REG-V8					
13	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	99	88	0	99	98
13	AMS	100	8.5	LB/100 GAL	MP					
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	99	88	0	99	99
14	AMS	100	8.5	LB/100 GAL	MP					
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8					
14	AMS	100	8.5	LB/100 GAL	REG-V8					
15	BALANCE PRO	4	1.5	OZ/A	PRE	99	95	0	98	95
15	AATREX	4	1	QT/A	PRE					
15	LAUDIS	3.5	3	OZ/A	MP					
15	MSO		1	% V/V	MP					
15	LIQUID N		1.5	QT/A	MP					
16	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	99	92	0	99	96
16	IMPACT	2.8	0.016	LB A/A	MP					
16	AATREX	4	0.5	LB A/A	MP					
16	MSO		1	% V/V	MP					
16	LIQUID N		1.5	QT/A	MP					
17	SURESTART	4.25	1.75	PT/A	EP	99	90	0	99	78
17	DURANGO	5.4	24	OZ/A	EP					
17	AMS	100	2	% W/W	EP					
18	AATREX	4	1.5	QT/A	PRE	99	93	0	99	81
18	STEADFAST	75	0.035	LB A/A	MP					
18	MSO		1	% V/V	MP					
18	LIQUID N		2.5	% V/V	MP					

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	5-29-07	5-29-07	6-14-07	6-14-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WK AFT. B	2 WK AFT. B	4 WK AFT. B	4 WK AFT. B
Days After First/Last Applic.	28 6	28 6	44 14	44 14
Trt-Eval Interval				
Plant-Eval Interval	29 DP-1	29 DP-1	45 DP-1	45 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

  

Trt Treatment	Form	Rate	Growth		
No. Name	Conc	Rate	Unit	Stage	
				6	7 8 9 10
LSD (P=.05)		0.0		7.7	0.0 1.3 9.2
Standard Deviation		0.0		4.6	0.0 0.8 5.5
CV		0.0		5.81	0.0 0.84 6.45
Grand Mean		88.0		79.85	0.0 93.35 85.35
Replicate F		0.000		1.016	0.000 0.486 0.604
Replicate Prob(F)		1.0000		0.3726	1.0000 0.6195 0.5522
Treatment F		0.000		119.965	0.000 2670.202 50.364
Treatment Prob(F)		1.0000		0.0001	1.0000 0.0001 0.0001

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-14-07	6-14-07	7-5-07	7-5-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WK AFT. B	4 WK AFT. B	8 WK AFT. B	8 WK AFT. B
Days After First/Last Applic.	44 14	44 14	65 35	65 35
Trt-Eval Interval				
Plant-Eval Interval	45 DP-1	45 DP-1	66 DP-1	66 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	11	12	13	14	15
1	LEXAR	3.7	1.5	QT/A	PRE	99	92	0	99	89
1	LEXAR	3.7	1.5	QT/A	EP					
2	LEXAR	3.7	3	QT/A	PRE	99	83	0	99	83
3	LEXAR	3.7	1.25	QT/A	PRE	99	93	0	99	96
3	HALEX GT	4.38	4	PT/A	REG-V8					
3	AMS	100	8.5	LB/100 GAL	REG-V8					
3	INDUCE		0.25	% V/V	REG-V8					
4	BICEP II MAGNUM	5.5	1.5	QT/A	PRE	99	87	0	99	96
4	HALEX GT	4.38	4	PT/A	REG-V8					
4	AMS	100	8.5	LB/100 GAL	REG-V8					
4	INDUCE		0.25	% V/V	REG-V8					
5	LUMAX	3.94	2	QT/A	PRE	99	89	0	99	98
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
5	AMS	100	8.5	LB/100 GAL	REG-V8					
6	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	99	92	0	99	95
6	CALLISTO	4	3	FL OZ/A	REG-V8					
6	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
6	AMS	100	8.5	LB/100 GAL	REG-V8					
7	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8	98	83	0	99	99
7	AMS	100	8.5	LB/100 GAL	REG-V8					
8	CHECK UNTREATED					0	0	0	0	0
9	HALEX GT	4.38	4	PT/A	EP	99	83	0	99	67
9	AMS	100	8.5	LB/100 GAL	EP					
9	INDUCE		0.25	% V/V	EP					
10	HALEX GT	4.38	4	PT/A	EP	99	88	0	99	82
10	AATREX	4	2	PT/A	EP					
10	AMS	100	8.5	LB/100 GAL	EP					
10	INDUCE		0.25	% V/V	EP					

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-14-07	6-14-07	7-5-07	7-5-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WK AFT. B	4 WK AFT. B	8 WK AFT. B	8 WK AFT. B
Days After First/Last Applic.	44 14	44 14	65 35	65 35
Trt-Eval Interval				
Plant-Eval Interval	45 DP-1	45 DP-1	66 DP-1	66 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	11	12	13	14	15
11	LEXAR	3.7	2.35	QT/A	EP	99	92	0	98	98
11	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8					
11	AMS	100	8.5	LB/100 GAL	REG-V8					
12	HARNESX XTRA	5.6	1.5	QT/A	PRE	99	86	0	99	96
12	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8					
12	AMS	100	8.5	LB/100 GAL	REG-V8					
13	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	99	83	0	99	98
13	AMS	100	8.5	LB/100 GAL	MP					
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	99	85	0	99	99
14	AMS	100	8.5	LB/100 GAL	MP					
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8					
14	AMS	100	8.5	LB/100 GAL	REG-V8					
15	BALANCE PRO	4	1.5	OZ/A	PRE	99	86	0	98	94
15	AATREX	4	1	QT/A	PRE					
15	LAUDIS	3.5	3	OZ/A	MP					
15	MSO		1	% V/V	MP					
15	LIQUID N		1.5	QT/A	MP					
16	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	99	82	0	99	96
16	IMPACT	2.8	0.016	LB A/A	MP					
16	AATREX	4	0.5	LB A/A	MP					
16	MSO		1	% V/V	MP					
16	LIQUID N		1.5	QT/A	MP					
17	SURESTART	4.25	1.75	PT/A	EP	99	82	0	99	73
17	DURANGO	5.4	24	OZ/A	EP					
17	AMS	100	2	% W/W	EP					
18	AATREX	4	1.5	QT/A	PRE	99	87	0	99	75
18	STEADFAST	75	0.035	LB A/A	MP					
18	MSO		1	% V/V	MP					
18	LIQUID N		2.5	% V/V	MP					

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-14-07	6-14-07	7-5-07	7-5-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WK AFT. B	4 WK AFT. B	8 WK AFT. B	8 WK AFT. B
Days After First/Last Applic.	44 14	44 14	65 35	65 35
Trt-Eval Interval				
Plant-Eval Interval	45 DP-1	45 DP-1	66 DP-1	66 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Form	Rate	Growth	
No. Name	Conc	Rate	Unit	Stage
				11
				12
				13
				14
				15
LSD (P=.05)	0.9	7.5	0.0	1.3
Standard Deviation	0.5	4.5	0.0	0.8
CV	0.58	5.49	0.0	0.84
Grand Mean	93.43	81.61	0.0	93.35
Replicate F	1.000	1.641	0.000	0.486
Replicate Prob(F)	0.3784	0.2088	1.0000	0.6195
Treatment F	5505.328	64.158	0.000	2670.202
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001



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CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	Lambsquarters, common	Morning glory	
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Description			moisture 14.5%
Rating Date	7-5-07	7-5-07	9-14-07
Rating Data Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	8 WK AFT. B	8 WK AFT. B	
Days After First/Last Applic.	65 35	65 35	136 106
Trt-Eval Interval			
Plant-Eval Interval	66 DP-1	66 DP-1	137 DP-1
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	16	17	21
1	LEXAR	3.7	1.5	QT/A	PRE	99	89	172
1	LEXAR	3.7	1.5	QT/A	EP			
2	LEXAR	3.7	3	QT/A	PRE	99	77	134
3	LEXAR	3.7	1.25	QT/A	PRE	99	89	202
3	HALEX GT	4.38	4	PT/A	REG-V8			
3	AMS	100	8.5	LB/100 GAL	REG-V8			
3	INDUCE		0.25	% V/V	REG-V8			
4	BICEP II MAGNUM	5.5	1.5	QT/A	PRE	99	85	185
4	HALEX GT	4.38	4	PT/A	REG-V8			
4	AMS	100	8.5	LB/100 GAL	REG-V8			
4	INDUCE		0.25	% V/V	REG-V8			
5	LUMAX	3.94	2	QT/A	PRE	99	82	193
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8			
5	AMS	100	8.5	LB/100 GAL	REG-V8			
6	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	99	88	175
6	CALLISTO	4	3	FL OZ/A	REG-V8			
6	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8			
6	AMS	100	8.5	LB/100 GAL	REG-V8			
7	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8	98	75	139
7	AMS	100	8.5	LB/100 GAL	REG-V8			
8	CHECK UNTREATED					0	0	13
9	HALEX GT	4.38	4	PT/A	EP	99	77	132
9	AMS	100	8.5	LB/100 GAL	EP			
9	INDUCE		0.25	% V/V	EP			
10	HALEX GT	4.38	4	PT/A	EP	99	83	162
10	AATREX	4	2	PT/A	EP			
10	AMS	100	8.5	LB/100 GAL	EP			
10	INDUCE		0.25	% V/V	EP			

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CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	Lambsquarters, common	Morning glory	
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Description			moisture 14.5%
Rating Date	7-5-07	7-5-07	9-14-07
Rating Data Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	8 WK AFT. B	8 WK AFT. B	
Days After First/Last Applic.	65 35	65 35	136 106
Trt-Eval Interval			
Plant-Eval Interval	66 DP-1	66 DP-1	137 DP-1
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	16	17	21
11	LEXAR	3.7	2.35	QT/A	EP	99	83	199
11	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	REG-V8			
11	AMS	100	8.5	LB/100 GAL	REG-V8			
12	HARNESS XTRA	5.6	1.5	QT/A	PRE	99	81	182
12	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8			
12	AMS	100	8.5	LB/100 GAL	REG-V8			
13	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	99	70	151
13	AMS	100	8.5	LB/100 GAL	MP			
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	MP	99	79	186
14	AMS	100	8.5	LB/100 GAL	MP			
14	ROUNDUP ORIGINAL MAX	4.5	22	FL OZ/A	REG-V8			
14	AMS	100	8.5	LB/100 GAL	REG-V8			
15	BALANCE PRO	4	1.5	OZ/A	PRE	99	77	173
15	AATREX	4	1	QT/A	PRE			
15	LAUDIS	3.5	3	OZ/A	MP			
15	MSO		1	% V/V	MP			
15	LIQUID N		1.5	QT/A	MP			
16	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	99	77	168
16	IMPACT	2.8	0.016	LB A/A	MP			
16	AATREX	4	0.5	LB A/A	MP			
16	MSO		1	% V/V	MP			
16	LIQUID N		1.5	QT/A	MP			
17	SURESTART	4.25	1.75	PT/A	EP	99	77	124
17	DURANGO	5.4	24	OZ/A	EP			
17	AMS	100	2	% W/W	EP			
18	AATREX	4	1.5	QT/A	PRE	99	85	123
18	STEADFAST	75	0.035	LB A/A	MP			
18	MSO		1	% V/V	MP			
18	LIQUID N		2.5	% V/V	MP			

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CORN POSTEMERGENCE II

Trial ID: C7021      Protocol ID: HMSOO5S4  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed					
Pest Code		CHEAL	IPOSS					
Pest Name		Lambsquarters, common	Morning glory					
Crop Code				ZEAMX				
BBCH Scale				BCOR				
Crop Name				Corn				
Description				moisture 14.5%				
Rating Date		7-5-07	7-5-07	9-14-07				
Rating Data Type		CONTROL	CONTROL	YIELD				
Rating Unit		PERCENT	PERCENT	BU				
Rating Timing		8 WK AFT. B	8 WK AFT. B					
Days After First/Last Applic.		65 35	65 35	136 106				
Trt-Eval Interval								
Plant-Eval Interval		66 DP-1	66 DP-1	137 DP-1				
ARM Action Codes		P	P	TY1				
Number of Decimals		0	0	0				
Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	16	17	21
LSD (P=.05)			0.9			12.1		32.8
Standard Deviation			0.5			7.3		19.7
CV			0.58			9.5		12.61
Grand Mean			93.43			76.33		156.23
Replicate F			1.000			3.013		0.387
Replicate Prob(F)			0.3784			0.0624		0.6817
Treatment F			5505.328			22.354		14.887
Treatment Prob(F)			0.0001			0.0001		0.0001

Column 18: TY1 = 4.093985\*[C19]\*(100-[C20])/85.5

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## CORN POSTEMERGENCE II

Trial ID: C7021      Protocol ID: HMS005S4  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC63-74  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07  
**Harvest Date:** 9-14-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 38 FT  
**% Standard Moisture:** 14.5

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** IPOSS      *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

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## CORN POSTEMERGENCE II

Trial ID: C7021 Protocol ID: HMS005S4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A		B		C		D	
Application Date:	5-1-07		5-14-07		5-23-07		5-31-07	
Time of Day:	10 AM		11 AM		10:30 AM		4 PM	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		EP		MP		REG	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL	
Applied By:	C H SLACK		C H SLACK		C H SLACK		C H SLACK	
Air Temperature, Unit:	72	F	73	F	79	F	90	F
% Relative Humidity:	56		45		46		45	
Wind Velocity, Unit:	6	MPH	6	MPH	6	MPH	3	MPH
Wind Direction:	SW		SW		S		SW	
Soil Temperature, Unit:	63	F	75	F	78	F	80	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		INADEQUATE	
% Cloud Cover:	0		10		10		20	

**Crop Stage At Each Application**

	A		B		C		D	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	2LF		3LF		4LF			
Height, Unit:	4	IN	6	IN	8	IN		

**Pest Stage At Each Application**

	A		B		C		D	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	1 LF		2LF		4LF			
Height, Unit:	1	IN	3	IN	6	IN		
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	4 LF		6 LF		10 LF			
Height, Unit:	2	IN	4	IN	6	IN		
Pest 3 Code, Disc., Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:	6 LF		10 LF		12 LF			
Height, Unit:	1	IN	3	IN	5	IN		
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W
Stage Majority, Percent:	2 LF		3 LF		6LF			
Height, Unit:	1	IN	3	IN	5	IN		

## CORN POSTEMERGENCE II

Trial ID: C7021      Protocol ID: HMSOO5S4  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8002 DG		8002 DG		8002 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	34	IN	36	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	10	GPA	10	GPA	10	GPA
<b>Propellant:</b>	CO2		CO2		CO2	
	<b>D</b>					
<b>Appl. Equipment:</b>	ATV					
<b>Operating Pressure, Unit:</b>	30	PSI				
<b>Nozzle Type:</b>	FLAT FAN					
<b>Nozzle Size:</b>	8002 DG					
<b>Nozzle Spacing, Unit:</b>	20	IN				
<b>Boom Length, Unit:</b>	10	FT				
<b>Boom Height, Unit:</b>	38	IN				
<b>Ground Speed, Unit:</b>	4	MPH				
<b>Carrier:</b>	WATER					
<b>Spray Volume, Unit:</b>	10	GPA				
<b>Propellant:</b>	CO2					

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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK UNTREATED					0	0	0	0	0	0
2	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	0	80	63	70	70	0
3	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	0	99	96	98	88	0
3	IMPACT	2.8	0.016	LB A/A	MP						
3	AATREX	4	0.5	LB A/A	MP						
3	MSO		1	% V/V	MP						
3	LIQUID N		2.5	% V/V	MP						
4	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	0	73	99	99	94	0
4	CALLISTO	4	0.094	LB A/A	MP						
4	AATREX	4	0.5	LB A/A	MP						
4	COC		1	% V/V	MP						
4	LIQUID N		2.5	% V/V	MP						
5	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	0	99	96	98	89	0
5	LAUDIS	3.5	0.082	LB A/A	MP						
5	AATREX	4	0.5	LB A/A	MP						
5	COC		1	% V/V	MP						
5	LIQUID N		2.5	% V/V	MP						
6	STEADFAST	75	0.035	LB A/A	MP	0	98	86	95	86	0
6	AATREX	4	0.5	LB A/A	MP						
6	MSO		1	% V/V	MP						
6	LIQUID N		2.5	% V/V	MP						
7	IMPACT	2.8	0.011	LB A/A	MP	0	99	93	98	93	0
7	STEADFAST	75	0.035	LB A/A	MP						
7	AATREX	4	0.5	LB A/A	MP						
7	MSO		1	% V/V	MP						
7	LIQUID N		2.5	% V/V	MP						
8	CALLISTO	4	0.063	LB A/A	MP	0	94	99	99	92	0
8	STEADFAST	75	0.035	LB A/A	MP						
8	AATREX	4	0.25	LB A/A	MP						
8	COC		1	% V/V	MP						
8	LIQUID N		2.5	% V/V	MP						
9	LAUDIS	3.5	0.055	LB A/A	MP	0	77	96	99	96	0
9	OPTION	35	0.033	LB A/A	MP						
9	AATREX	4	0.5	LB A/A	MP						
9	MSO		1	% V/V	MP						
9	LIQUID N		2.5	% V/V	MP						

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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
10	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	0	99	96	99	87	0
10	IMPACT	2.8	0.011	LB A/A	LP						
10	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP						
10	AMS	100	8.5	LB/100 GAL	LP						
11	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	0	99	96	96	84	0
11	IMPACT	2.8	0.011	LB A/A	LP						
11	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP						
11	AATREX	4	0.5	LB A/A	LP						
11	AMS	100	8.5	LB/100 GAL	LP						
12	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	0	98	82	93	81	0
12	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP						
12	AMS	100	8.5	LB/100 GAL	LP						
13	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	0	99	99	99	95	0
13	IMPACT	2.8	0.016	LB A/A	MP						
13	AATREX	4	1	LB A/A	MP						
13	MSO		1	% V/V	MP						
13	LIQUID N		2.5	% V/V	MP						
14	IMPACT	2.8	0.016	LB A/A	MP	0	99	98	99	87	0
14	AATREX	4	0.50	LB A/A	MP						
14	MSO		1	% V/V	MP						
14	UAN 28%		2.5	% V/V	MP						
15	CALLISTO	4	0.094	LB A/A	MP	0	47	99	99	99	0
15	AATREX	4	0.50	LB A/A	MP						
15	COC		1	% V/V	MP						
15	UAN 28%		2.5	% V/V	MP						
16	LAUDIS	3.5	0.082	LB A/A	MP	0	78	98	98	88	0
16	AATREX	4	0.50	LB A/A	MP						
16	COC		1	% V/V	MP						
16	UAN 28%		2.5	% V/V	MP						
17	STALWART XTRA	5.5	2.1	QT/A	PRE	0	99	96	98	95	0
17	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
17	AMS	100	8.5	LB/100 GAL	MP						
18	SURESTART	4.25	1.75	PT/A	PRE	0	99	94	98	93	0
18	DURANGO	5.4	24	OZ/A	MP						
18	AMS	100	2	% W/W	MP						



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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	29 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
19	KEYSTONE	5.25	1.5	QT/A	PRE	0	99	93	96	90	0
19	DURANGO	5.4	24	OZ/A	MP						
19	AMS	100	2	% W/W	MP						
20	HORNET	68.5	2	OZ/A	PRE	0	99	92	96	93	0
20	AATREX	4	1	LB A/A	PRE						
20	DURANGO	5.4	24	OZ/A	MP						
20	AMS	100	2	% W/W	MP						
21	PYTHON	80	0.62	OZ/A	PRE	0	99	88	96	88	0
21	AATREX	4	0.68	LB A/A	PRE						
21	DURANGO	5.4	24	OZ/A	MP						
21	AMS	100	2	% W/W	MP						
22	SURESTART	4.25	1.75	PT/A	EP	0	99	82	95	87	0
22	DURANGO	5.4	24	OZ/A	EP						
22	AMS	100	2	% W/W	EP						
	LSD (P=.05)					0.0	14.9	6.8	2.8	7.4	0.0
	Standard Deviation					0.0	9.0	4.1	1.7	4.5	0.0
	CV					0.0	10.25	4.66	1.82	5.24	0.0
	Grand Mean					0.0	87.77	88.27	91.71	85.33	0.0
	Replicate F					0.000	1.518	6.105	1.183	1.150	0.000
	Replicate Prob(F)					1.0000	0.2310	0.0047	0.3164	0.3264	1.0000
	Treatment F					0.000	20.740	81.290	492.134	60.040	0.000
	Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	29 DP-1	57 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12
1	CHECK UNTREATED					0	0	0	0	0	0
2	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	30	17	20	10	0	30
3	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	99	96	98	80	0	99
3	IMPACT	2.8	0.016	LB A/A	MP						
3	AATREX	4	0.5	LB A/A	MP						
3	MSO		1	% V/V	MP						
3	LIQUID N		2.5	% V/V	MP						
4	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	73	99	99	91	0	73
4	CALLISTO	4	0.094	LB A/A	MP						
4	AATREX	4	0.5	LB A/A	MP						
4	COC		1	% V/V	MP						
4	LIQUID N		2.5	% V/V	MP						
5	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	99	96	98	82	0	99
5	LAUDIS	3.5	0.082	LB A/A	MP						
5	AATREX	4	0.5	LB A/A	MP						
5	COC		1	% V/V	MP						
5	LIQUID N		2.5	% V/V	MP						
6	STEADFAST	75	0.035	LB A/A	MP	98	80	95	83	0	98
6	AATREX	4	0.5	LB A/A	MP						
6	MSO		1	% V/V	MP						
6	LIQUID N		2.5	% V/V	MP						
7	IMPACT	2.8	0.011	LB A/A	MP	99	89	98	88	0	99
7	STEADFAST	75	0.035	LB A/A	MP						
7	AATREX	4	0.5	LB A/A	MP						
7	MSO		1	% V/V	MP						
7	LIQUID N		2.5	% V/V	MP						
8	CALLISTO	4	0.063	LB A/A	MP	86	99	99	83	0	86
8	STEADFAST	75	0.035	LB A/A	MP						
8	AATREX	4	0.25	LB A/A	MP						
8	COC		1	% V/V	MP						
8	LIQUID N		2.5	% V/V	MP						
9	LAUDIS	3.5	0.055	LB A/A	MP	77	95	99	90	0	77
9	OPTION	35	0.033	LB A/A	MP						
9	AATREX	4	0.5	LB A/A	MP						
9	MSO		1	% V/V	MP						
9	LIQUID N		2.5	% V/V	MP						

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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	29 DP-1	57 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12	
10	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	99	98		99	83	0	99
10	IMPACT	2.8	0.011	LB A/A	LP							
10	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP							
10	AMS	100	8.5	LB/100 GAL	LP							
11	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	99	95		96	83	0	99
11	IMPACT	2.8	0.011	LB A/A	LP							
11	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP							
11	AATREX	4	0.5	LB A/A	LP							
11	AMS	100	8.5	LB/100 GAL	LP							
12	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	98	85		93	77	0	98
12	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP							
12	AMS	100	8.5	LB/100 GAL	LP							
13	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	96	99		99	89	0	96
13	IMPACT	2.8	0.016	LB A/A	MP							
13	AATREX	4	1	LB A/A	MP							
13	MSO		1	% V/V	MP							
13	LIQUID N		2.5	% V/V	MP							
14	IMPACT	2.8	0.016	LB A/A	MP	99	96		99	78	0	99
14	AATREX	4	0.50	LB A/A	MP							
14	MSO		1	% V/V	MP							
14	UAN 28%		2.5	% V/V	MP							
15	CALLISTO	4	0.094	LB A/A	MP	47	99		99	92	0	43
15	AATREX	4	0.50	LB A/A	MP							
15	COC		1	% V/V	MP							
15	UAN 28%		2.5	% V/V	MP							
16	LAUDIS	3.5	0.082	LB A/A	MP	88	98		98	82	0	88
16	AATREX	4	0.50	LB A/A	MP							
16	COC		1	% V/V	MP							
16	UAN 28%		2.5	% V/V	MP							
17	STALWART XTRA	5.5	2.1	QT/A	PRE	99	98		98	92	0	99
17	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP							
17	AMS	100	8.5	LB/100 GAL	MP							
18	SURESTART	4.25	1.75	PT/A	PRE	99	94		98	85	0	99
18	DURANGO	5.4	24	OZ/A	MP							
18	AMS	100	2	% W/W	MP							

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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	29 DP-1	57 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12	
19	KEYSTONE	5.25	1.5	QT/A	PRE	99	95		96	89	0	99
19	DURANGO	5.4	24	OZ/A	MP							
19	AMS	100	2	% W/W	MP							
20	HORNET	68.5	2	OZ/A	PRE	99	91		96	88	0	99
20	AATREX	4	1	LB A/A	PRE							
20	DURANGO	5.4	24	OZ/A	MP							
20	AMS	100	2	% W/W	MP							
21	PYTHON	80	0.62	OZ/A	PRE	99	92		96	85	0	99
21	AATREX	4	0.68	LB A/A	PRE							
21	DURANGO	5.4	24	OZ/A	MP							
21	AMS	100	2	% W/W	MP							
22	SURESTART	4.25	1.75	PT/A	EP	99	78		95	85	0	99
22	DURANGO	5.4	24	OZ/A	EP							
22	AMS	100	2	% W/W	EP							
	LSD (P=.05)					21.7	12.0		12.4	9.5	0.0	21.6
	Standard Deviation					13.2	7.3		7.5	5.7	0.0	13.1
	CV					15.4	8.5		8.39	7.36	0.0	15.34
	Grand Mean					85.45	85.83		89.44	77.92	0.0	85.3
	Replicate F					3.232	1.691		1.432	1.106	0.000	3.518
	Replicate Prob(F)					0.0495	0.1967		0.2502	0.3404	1.0000	0.0387
	Treatment F					12.151	37.733		35.901	52.658	0.000	12.519
	Treatment Prob(F)					0.0001	0.0001		0.0001	0.0001	1.0000	0.0001

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CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15
1	CHECK UNTREATED					0	0	0
2	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	10	20	7
3	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	96	98	75
3	IMPACT	2.8	0.016	LB A/A	MP			
3	AATREX	4	0.5	LB A/A	MP			
3	MSO		1	% V/V	MP			
3	LIQUID N		2.5	% V/V	MP			
4	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	98	99	88
4	CALLISTO	4	0.094	LB A/A	MP			
4	AATREX	4	0.5	LB A/A	MP			
4	COC		1	% V/V	MP			
4	LIQUID N		2.5	% V/V	MP			
5	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	93	98	78
5	LAUDIS	3.5	0.082	LB A/A	MP			
5	AATREX	4	0.5	LB A/A	MP			
5	COC		1	% V/V	MP			
5	LIQUID N		2.5	% V/V	MP			
6	STEADFAST	75	0.035	LB A/A	MP	57	95	63
6	AATREX	4	0.5	LB A/A	MP			
6	MSO		1	% V/V	MP			
6	LIQUID N		2.5	% V/V	MP			
7	IMPACT	2.8	0.011	LB A/A	MP	86	98	82
7	STEADFAST	75	0.035	LB A/A	MP			
7	AATREX	4	0.5	LB A/A	MP			
7	MSO		1	% V/V	MP			
7	LIQUID N		2.5	% V/V	MP			
8	CALLISTO	4	0.063	LB A/A	MP	99	99	79
8	STEADFAST	75	0.035	LB A/A	MP			
8	AATREX	4	0.25	LB A/A	MP			
8	COC		1	% V/V	MP			
8	LIQUID N		2.5	% V/V	MP			
9	LAUDIS	3.5	0.055	LB A/A	MP	95	99	87
9	OPTION	35	0.033	LB A/A	MP			
9	AATREX	4	0.5	LB A/A	MP			
9	MSO		1	% V/V	MP			
9	LIQUID N		2.5	% V/V	MP			

CORN POSTEMERGENCE III

Trial ID: C7022 Protocol ID: AMVAC 07  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15
10	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	98	99	75
10	IMPACT	2.8	0.011	LB A/A	LP			
10	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP			
10	AMS	100	8.5	LB/100 GAL	LP			
11	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	95	96	65
11	IMPACT	2.8	0.011	LB A/A	LP			
11	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP			
11	AATREX	4	0.5	LB A/A	LP			
11	AMS	100	8.5	LB/100 GAL	LP			
12	DUAL II MAGNUM	7.64	0.67	LB A/A	PRE	85	93	70
12	ROUNDUP WeatherMAX	5.5	22	OZ/A	LP			
12	AMS	100	8.5	LB/100 GAL	LP			
13	BICEP II MAGNUM	5.5	1.05	QT/A	PRE	99	99	86
13	IMPACT	2.8	0.016	LB A/A	MP			
13	AATREX	4	1	LB A/A	MP			
13	MSO		1	% V/V	MP			
13	LIQUID N		2.5	% V/V	MP			
14	IMPACT	2.8	0.016	LB A/A	MP	96	99	63
14	AATREX	4	0.50	LB A/A	MP			
14	MSO		1	% V/V	MP			
14	UAN 28%		2.5	% V/V	MP			
15	CALLISTO	4	0.094	LB A/A	MP	99	99	91
15	AATREX	4	0.50	LB A/A	MP			
15	COC		1	% V/V	MP			
15	UAN 28%		2.5	% V/V	MP			
16	LAUDIS	3.5	0.082	LB A/A	MP	98	98	68
16	AATREX	4	0.50	LB A/A	MP			
16	COC		1	% V/V	MP			
16	UAN 28%		2.5	% V/V	MP			
17	STALWART XTRA	5.5	2.1	QT/A	PRE	98	98	88
17	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP			
17	AMS	100	8.5	LB/100 GAL	MP			
18	SURESTART	4.25	1.75	PT/A	PRE	94	98	82
18	DURANGO	5.4	24	OZ/A	MP			
18	AMS	100	2	% W/W	MP			

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CORN POSTEMERGENCE III

Trial ID: C7022      Protocol ID: AMVAC 07  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15
19	KEYSTONE	5.25	1.5	QT/A	PRE	95	96	88
19	DURANGO	5.4	24	OZ/A	MP			
19	AMS	100	2	% W/W	MP			
20	HORNET	68.5	2	OZ/A	PRE	91	96	86
20	AATREX	4	1	LB A/A	PRE			
20	DURANGO	5.4	24	OZ/A	MP			
20	AMS	100	2	% W/W	MP			
21	PYTHON	80	0.62	OZ/A	PRE	92	96	79
21	AATREX	4	0.68	LB A/A	PRE			
21	DURANGO	5.4	24	OZ/A	MP			
21	AMS	100	2	% W/W	MP			
22	SURESTART	4.25	1.75	PT/A	EP	68	95	73
22	DURANGO	5.4	24	OZ/A	EP			
22	AMS	100	2	% W/W	EP			
	LSD (P=.05)					10.6	12.4	14.8
	Standard Deviation					6.4	7.5	9.0
	CV					7.65	8.39	12.54
	Grand Mean					83.67	89.44	71.47
	Replicate F					1.937	1.432	1.279
	Replicate Prob(F)					0.1568	0.2502	0.2891
	Treatment F					55.405	35.901	20.878
	Treatment Prob(F)					0.0001	0.0001	0.0001

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## CORN POSTEMERGENCE III

Trial ID: C7022      Protocol ID: AMVAC 07  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC63-74  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT



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## CORN POSTEMERGENCE III

Trial ID: C7022      Protocol ID: AMVAC 07  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A		B		C		D	
Application Date:	5-1-07		5-14-07		5-23-07		5-31-07	
Time of Day:	10 AM		11 AM		10 AM		4 PM	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		EP		MP		LP	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL	
Applied By:	C H SLACK		C H SLACK		C H SLACK		C H SLACK	
Air Temperature, Unit:	72	F	73	F	79	F	90	F
% Relative Humidity:	56		45		46		45	
Wind Velocity, Unit:	6	MPH	6	MPH	6	MPH	3	MPH
Wind Direction:	SW		SW		S		SW	
Soil Temperature, Unit:	63	F	75	F	79	F	80	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		INADEQUATE	
% Cloud Cover:	0		10		10		20	

**Crop Stage At Each Application**

	A		B		C		D	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Height, Unit:	4		IN 6		IN 8		IN	

**Pest Stage At Each Application**

	A		B		C		D	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	1 LF		3 LF		6LF			
Height, Unit:	1		IN 3		IN 5		IN	
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	4 LF		6 LF		8 LF			
Height, Unit:	2		IN 4		IN 6		IN	
Pest 3 Code, Disc., Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:	6LF		10LF		12LF			
Height, Unit:	1		IN 3		IN 4		IN	
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W
Stage Majority, Percent:	2LF		3LF		4LF			
Height, Unit:	1		IN 3		IN 4		IN	

## CORN POSTEMERGENCE III

Trial ID: C7022      Protocol ID: AMVAC 07  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	34	IN	36	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2		CO2	
	<b>D</b>					
<b>Appl. Equipment:</b>	ATV					
<b>Operating Pressure, Unit:</b>	30	PSI				
<b>Nozzle Type:</b>	FLAT FAN					
<b>Nozzle Size:</b>	8004 DG					
<b>Nozzle Spacing, Unit:</b>	20	IN				
<b>Boom Length, Unit:</b>	10	FT				
<b>Boom Height, Unit:</b>	38	IN				
<b>Ground Speed, Unit:</b>	4	MPH				
<b>Carrier:</b>	WATER					
<b>Spray Volume, Unit:</b>	24	GPA				
<b>Propellant:</b>	CO2					

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CORN POSTEMERGENCE IV

Trial ID: C7023 Protocol ID: USA 07-013  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type			W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMBTR	CHEAL	IPOSS
Pest Name			Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR				
Crop Name	Corn	Corn				
Rating Date	5-28-07	6-4-07	6-4-07	6-4-07	6-4-07	6-4-07
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	27 7	34 14	34 14	34 14	34 14	34 14
Trt-Eval Interval	7 DA-A	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	28 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	STEADFAST + ISOXADIFEN		0.25	OZ/A	V2	0	0	98	98	99	89
1	IMPACT	2.8	0.011	LB A/A	V2						
1	AATREX	4	0.5	LB A/A	V2						
1	MSO		1	% V/V	V2						
1	AMS	100	32	OZ/A	V2						
2	CINCH	7.64	0.95	LB A/A	PRE	0	0	99	95	99	93
2	IMPACT	2.8	0.011	LB A/A	V2						
2	STEADFAST + ISOXADIFEN		0.25	OZ/A	V2						
2	AATREX	4	0.5	LB A/A	V2						
2	MSO		1	% V/V	V2						
2	AMS	100	32	OZ/A	V2						
3	STOUT + ISOXADIFEN		0.5	OZ/A	V2	0	0	99	94	98	95
3	IMPACT	2.8	0.011	LB A/A	V2						
3	AATREX	4	0.5	LB A/A	V2						
3	MSO		1	% V/V	V2						
3	AMS	100	32	OZ/A	V2						
4	CINCH	7.64	0.95	LB A/A	PRE	0	0	99	93	99	93
4	STOUT + ISOXADIFEN		0.5	OZ/A	V2						
4	IMPACT	2.8	0.011	LB A/A	V2						
4	AATREX	4	0.5	LB A/A	V2						
4	MSO		1	% V/V	V2						
4	AMS	100	32	OZ/A	V2						
5	RESOLVE + ISOXADIFEN		1.03	OZ/A	V2	0	0	99	88	98	87
5	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2						
5	INDUCE		0.25	% V/V	V2						
5	AMS	100	32	OZ/A	V2						
6	CINCH	7.64	1	PT/A	PRE	0	0	98	91	99	87
6	RESOLVE + ISOXADIFEN		1.03	OZ/A	V2						
6	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2						
6	INDUCE		0.25	% V/V	V2						
6	AMS	100	32	OZ/A	V2						
7	RESOLVE + ISOXADIFEN		1.25	OZ/A	V2	0	0	99	89	98	84
7	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2						
7	INDUCE		0.25	% V/V	V2						
7	AMS	100	32	OZ/A	V2						

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CORN POSTEMERGENCE IV

Trial ID: C7023 Protocol ID: USA 07-013  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type			W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMBTR	CHEAL	IPOSS
Pest Name			Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR				
Crop Name	Corn	Corn				
Rating Date	5-28-07	6-4-07	6-4-07	6-4-07	6-4-07	6-4-07
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	27 7	34 14	34 14	34 14	34 14	34 14
Trt-Eval Interval	7 DA-A	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	28 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
8	CINCH	7.64	1	PT/A	PRE	0	0	99	93	99	87
8	RESOLVE + ISOXADIFEN		1.25	OZ/A	V2						
8	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2						
8	INDUCE		0.25	% V/V	V2						
8	AMS	100	32	OZ/A	V2						
9	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2	0	0	99	98	99	88
9	AMS	100	32	OZ/A	V2						
10	CHECK UNTREATED					0	0	0	0	0	0
LSD (P=.05)						0.0	0.0	1.8	6.1	2.2	6.6
Standard Deviation						0.0	0.0	1.1	3.6	1.3	3.8
CV						0.0	0.0	1.19	4.27	1.43	4.76
Grand Mean						0.0	0.0	88.83	83.7	88.7	80.33
Replicate F						0.000	0.000	0.474	2.828	1.000	0.440
Replicate Prob(F)						1.0000	1.0000	0.6302	0.0855	0.3874	0.6507
Treatment F						0.000	0.000	2596.661	205.816	1821.966	165.959
Treatment Prob(F)						1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

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CORN POSTEMERGENCE IV

Trial ID: C7023 Protocol ID: USA 07-013  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Date	6-21-07	6-21-07	6-21-07	6-21-07	6-21-07	7-20-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	51 31	51 31	51 31	51 31	51 31	80 60
Trt-Eval Interval	31 DA-B	31 DA-B	31 DA-B	31 DA-B	31 DA-B	60 DA-B
Plant-Eval Interval	52 DP-1	52 DP-1	52 DP-1	52 DP-1	52 DP-1	81 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12	
1	STEADFAST + ISOXADIFEN		0.25	OZ/A	V2	0	95	92		99	85	0
1	IMPACT	2.8	0.011	LB A/A	V2							
1	AATREX	4	0.5	LB A/A	V2							
1	MSO		1	% V/V	V2							
1	AMS	100	32	OZ/A	V2							
2	CINCH	7.64	0.95	LB A/A	PRE	0	99	92		99	88	0
2	IMPACT	2.8	0.011	LB A/A	V2							
2	STEADFAST + ISOXADIFEN		0.25	OZ/A	V2							
2	AATREX	4	0.5	LB A/A	V2							
2	MSO		1	% V/V	V2							
2	AMS	100	32	OZ/A	V2							
3	STOUT + ISOXADIFEN		0.5	OZ/A	V2	0	95	89		98	88	0
3	IMPACT	2.8	0.011	LB A/A	V2							
3	AATREX	4	0.5	LB A/A	V2							
3	MSO		1	% V/V	V2							
3	AMS	100	32	OZ/A	V2							
4	CINCH	7.64	0.95	LB A/A	PRE	0	98	88		99	89	0
4	STOUT + ISOXADIFEN		0.5	OZ/A	V2							
4	IMPACT	2.8	0.011	LB A/A	V2							
4	AATREX	4	0.5	LB A/A	V2							
4	MSO		1	% V/V	V2							
4	AMS	100	32	OZ/A	V2							
5	RESOLVE + ISOXADIFEN		1.03	OZ/A	V2	0	99	87		98	86	0
5	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2							
5	INDUCE		0.25	% V/V	V2							
5	AMS	100	32	OZ/A	V2							
6	CINCH	7.64	1	PT/A	PRE	0	98	88		99	83	0
6	RESOLVE + ISOXADIFEN		1.03	OZ/A	V2							
6	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2							
6	INDUCE		0.25	% V/V	V2							
6	AMS	100	32	OZ/A	V2							
7	RESOLVE + ISOXADIFEN		1.25	OZ/A	V2	0	99	84		98	80	0
7	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2							
7	INDUCE		0.25	% V/V	V2							
7	AMS	100	32	OZ/A	V2							

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CORN POSTEMERGENCE IV

Trial ID: C7023      Protocol ID: USA 07-013  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Date	6-21-07	6-21-07	6-21-07	6-21-07	6-21-07	7-20-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	51 31	51 31	51 31	51 31	51 31	80 60
Trt-Eval Interval	31 DA-B	31 DA-B	31 DA-B	31 DA-B	31 DA-B	60 DA-B
Plant-Eval Interval	52 DP-1	52 DP-1	52 DP-1	52 DP-1	52 DP-1	81 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	7	8	9	10	11	12	
8	CINCH	7.64	1	PT/A	PRE	0	99	90		99	83	0
8	RESOLVE + ISOXADIFEN		1.25	OZ/A	V2							
8	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2							
8	INDUCE		0.25	% V/V	V2							
8	AMS	100	32	OZ/A	V2							
9	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2	0	99	96		99	85	0
9	AMS	100	32	OZ/A	V2							
10	CHECK UNTREATED					0	0	0		0	0	0
LSD (P=.05)						0.0	3.7	5.8		2.2	6.6	0.0
Standard Deviation						0.0	2.1	3.4		1.3	3.9	0.0
CV						0.0	2.44	4.17		1.43	5.05	0.0
Grand Mean						0.0	87.97	80.7		88.7	76.73	0.0
Replicate F						0.000	2.106	1.173		1.000	1.603	0.000
Replicate Prob(F)						1.0000	0.1507	0.3320		0.3874	0.2288	1.0000
Treatment F						0.000	621.978	215.612		1821.966	146.983	0.000
Treatment Prob(F)						1.0000	0.0001	0.0001		0.0001	0.0001	1.0000

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CORN POSTEMERGENCE IV

Trial ID: C7023 Protocol ID: USA 07-013  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code				
BBCH Scale				
Crop Name				
Rating Date	7-20-07	7-20-07	7-20-07	7-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	80 60	80 60	80 60	80 60
Trt-Eval Interval	60 DA-B	60 DA-B	60 DA-B	60 DA-B
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1	81 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15	16
1	STEADFAST + ISOXADIFEN		0.25	OZ/A	V2	95	91	96	80
1	IMPACT	2.8	0.011	LB A/A	V2				
1	AATREX	4	0.5	LB A/A	V2				
1	MSO		1	% V/V	V2				
1	AMS	100	32	OZ/A	V2				
2	CINCH	7.64	0.95	LB A/A	PRE	99	86	99	82
2	IMPACT	2.8	0.011	LB A/A	V2				
2	STEADFAST + ISOXADIFEN		0.25	OZ/A	V2				
2	AATREX	4	0.5	LB A/A	V2				
2	MSO		1	% V/V	V2				
2	AMS	100	32	OZ/A	V2				
3	STOUT + ISOXADIFEN		0.5	OZ/A	V2	95	86	98	83
3	IMPACT	2.8	0.011	LB A/A	V2				
3	AATREX	4	0.5	LB A/A	V2				
3	MSO		1	% V/V	V2				
3	AMS	100	32	OZ/A	V2				
4	CINCH	7.64	0.95	LB A/A	PRE	98	83	99	83
4	STOUT + ISOXADIFEN		0.5	OZ/A	V2				
4	IMPACT	2.8	0.011	LB A/A	V2				
4	AATREX	4	0.5	LB A/A	V2				
4	MSO		1	% V/V	V2				
4	AMS	100	32	OZ/A	V2				
5	RESOLVE + ISOXADIFEN		1.03	OZ/A	V2	99	82	95	79
5	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2				
5	INDUCE		0.25	% V/V	V2				
5	AMS	100	32	OZ/A	V2				
6	CINCH	7.64	1	PT/A	PRE	98	80	99	77
6	RESOLVE + ISOXADIFEN		1.03	OZ/A	V2				
6	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2				
6	INDUCE		0.25	% V/V	V2				
6	AMS	100	32	OZ/A	V2				
7	RESOLVE + ISOXADIFEN		1.25	OZ/A	V2	99	77	98	77
7	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2				
7	INDUCE		0.25	% V/V	V2				
7	AMS	100	32	OZ/A	V2				

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CORN POSTEMERGENCE IV

Trial ID: C7023      Protocol ID: USA 07-013  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code				
BBCH Scale				
Crop Name				
Rating Date	7-20-07	7-20-07	7-20-07	7-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	80 60	80 60	80 60	80 60
Trt-Eval Interval	60 DA-B	60 DA-B	60 DA-B	60 DA-B
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1	81 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	13	14	15	16
8	CINCH	7.64	1	PT/A	PRE	99	80	99	77
8	RESOLVE + ISOXADIFEN		1.25	OZ/A	V2				
8	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2				
8	INDUCE		0.25	% V/V	V2				
8	AMS	100	32	OZ/A	V2				
9	ROUNDUP ORIGINAL MAX	5.5	0.95	LB A/A	V2	99	89	98	72
9	AMS	100	32	OZ/A	V2				
10	CHECK UNTREATED					0	0	0	0
LSD (P=.05)						3.7	8.6	4.5	8.1
Standard Deviation						2.1	5.0	2.6	4.7
CV						2.44	6.66	3.01	6.63
Grand Mean						87.97	75.4	87.97	70.93
Replicate F						2.106	0.004	0.062	0.707
Replicate Prob(F)						0.1507	0.9960	0.9401	0.5064
Treatment F						621.978	85.685	410.975	86.008
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001



Plant and Soil Science, U of KY  
Weed Science Research

## CORN POSTEMERGENCE IV

Trial ID: C7023      Protocol ID: USA 07-013  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC63-74  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 P/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

## CORN POSTEMERGENCE IV

Trial ID: C7023      Protocol ID: USA 07-013  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	<b>A</b>	<b>B</b>
Application Date:	5-1-07	5-21-07
Time of Day:	10 AM	1 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V2
Application Placement:	BROSIOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	72 F	80 F
% Relative Humidity:	50	34
Wind Velocity, Unit:	3 MPH	4 MPH
Wind Direction:	SSW	SW
Soil Temperature, Unit:	63 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	0

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V2	
Height, Unit:	3	IN

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	1LF	
Height, Unit:	1	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	3LF	
Height, Unit:	3	IN
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	6 LF	
Height, Unit:	1.5	IN
Pest 4 Code, Disc., Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:	COTY	
Height, Unit:	1	IN

## CORN POSTEMERGENCE IV

Trial ID: C7023      Protocol ID: USA 07-013  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>	
<b>Appl. Equipment:</b>	ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	33	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2	

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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Date	6-2-07	6-2-07	6-2-07	6-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	32 9	32 9	32 9	32 9
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK UNTREATED					0	0	0	0	0	0
2	BALANCE PRO	4	1.5	OZ/A	PRE	0	98	99	99	96	0
2	LAUDIS	3.5	3	OZ/A	MP						
2	AATREX	4	1	QT/A	MP						
2	COC		1	% V/V	MP						
2	LIQUID N		1.5	QT/A	MP						
3	BALANCE PRO	4	1.5	OZ/A	PRE	0	99	99	99	92	0
3	AATREX	4	1	QT/A	PRE						
3	LAUDIS	3.5	3	OZ/A	MP						
3	MSO		1	% V/V	MP						
3	LIQUID N		1.5	QT/A	MP						
4	BICEP II MAGNUM	5.5	2.1	QT/A	PRE	0	99	82	98	93	0
4	CALLISTO	4	3	OZ/A	MP						
4	AATREX	4	1	PT/A	MP						
4	COC		1	% V/V	MP						
4	LIQUID N		2.5	% V/V	MP						
5	KEYSTONE	5.25	2.6	QT/A	PRE	3	99	95	99	95	0
5	HORNET	68.5	4	OZ/A	MP						
5	INDUCE		0.25	% V/V	MP						
6	RESOLVE	25	1	OZ/A	PRE	0	99	99	99	99	0
6	BALANCE PRO	4	1	OZ/A	PRE						
6	LAUDIS	3.5	3	OZ/A	MP						
6	AATREX	4	1	PT/A	MP						
6	COC		1	% V/V	MP						
6	LIQUID N		1.5	QT/A	MP						
7	LAUDIS	3.5	2	OZ/A	MP	0	99	99	99	99	0
7	LIBERTY	1.67	32	OZ/A	MP						
7	AMS	100	8.5	LB/100 GAL	MP						
8	LIBERTY	1.67	32	OZ/A	MP	0	99	99	99	99	0
8	AATREX	4	1	QT/A	MP						
8	AMS	100	8.5	LB/100 GAL	MP						
9	LAUDIS	3.5	3	OZ/A	MP	0	99	99	94	82	0
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
9	AMS	100	8.5	LB/100 GAL	MP						

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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Date	6-2-07	6-2-07	6-2-07	6-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	32 9	32 9	32 9	32 9
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP	0	99	89	98	91	0
10	AATREX	4	1	QT/A	MP						
10	AMS	100	8.5	LB/100 GAL	MP						
11	LAUDIS	3.5	3	OZ/A	EP	0	99	99	99	96	0
11	AATREX	4	1	QT/A	EP						
11	ROUNDUP ORIGINAL MAX	5.5	11	OZ/A	EP						
11	AMS	100	8.5	LB/100 GAL	EP						
12	LAUDIS	3.5	3	OZ/A	EP	0	99	89	95	87	0
12	ACCENT	75	0.33	OZ/A	EP						
12	MSO		1	% V/V	EP						
12	LIQUID N		1.5	QT/A	EP						
13	LAUDIS	3.5	3	OZ/A	EP	0	99	82	96	89	0
13	MSO		1	% V/V	EP						
13	LIQUID N		1.5	QT/A	EP						
14	LAUDIS	3.5	3	OZ/A	EP	0	99	89	99	96	0
14	AATREX	4	1	QT/A	EP						
14	COC		1	% V/V	EP						
14	LIQUID N		1.5	QT/A	EP						
15	CAMIX	3.67	1.3	QT/A	EP	0	99	89	99	95	0
15	TOUCHDOWN TOTAL	4.17	32	OZ/A	EP						
15	AMS	100	8.5	LB/100 GAL	EP						
16	HARNESS XTRA	5.6	1.5	QT/A	PRE	0	99	95	99	91	0
16	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
16	AMS	100	8.5	LB/100 GAL	MP						
17	DEGREE XTRA	4.04	2	QT/A	PRE	0	99	96	99	96	0
17	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
17	AMS	100	8.5	LB/100 GAL	MP						
18	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	0	99	99	99	95	0
18	IMPACT	2.8	0.016	LB A/A	MP						
18	AATREX	4	0.5	LB A/A	MP						
18	MSO		1	% V/V	MP						
18	LIQUID N		2.5	% V/V	MP						

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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Date	6-2-07	6-2-07	6-2-07	6-2-07	6-2-07	6-27-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	32 9	32 9	32 9	32 9	32 9	57 34
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	58 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
LSD (P=.05)						2.3	0.9	6.1	3.9	7.1	0.0
Standard Deviation						1.4	0.5	3.6	2.4	4.3	0.0
CV						734.85	0.58	4.11	2.54	4.83	0.0
Grand Mean						0.19	93.43	88.74	92.7	88.41	0.0
Replicate F						1.000	1.000	1.047	1.368	0.885	0.000
Replicate Prob(F)						0.3784	0.3784	0.3619	0.2682	0.4220	1.0000
Treatment F						1.000	5505.328	118.813	291.372	83.400	0.000
Treatment Prob(F)						0.4813	0.0001	0.0001	0.0001	0.0001	1.0000

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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed SETFA	W Weed AMBTR	W Weed CHEAL	W Weed IPOSS	W Weed SETFA
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Date	6-27-07	6-27-07	6-27-07	6-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	57 34	57 34	57 34	57 34	87 64
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	88 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	7	8	9	10	11	12
1	CHECK UNTREATED					0	0	0	0	0	0
2	BALANCE PRO	4	1.5	OZ/A	PRE	95	96	99	90	0	95
2	LAUDIS	3.5	3	OZ/A	MP						
2	AATREX	4	1	QT/A	MP						
2	COC		1	% V/V	MP						
2	LIQUID N		1.5	QT/A	MP						
3	BALANCE PRO	4	1.5	OZ/A	PRE	92	95	99	83	0	92
3	AATREX	4	1	QT/A	PRE						
3	LAUDIS	3.5	3	OZ/A	MP						
3	MSO		1	% V/V	MP						
3	LIQUID N		1.5	QT/A	MP						
4	BICEP II MAGNUM	5.5	2.1	QT/A	PRE	95	77	98	86	0	95
4	CALLISTO	4	3	OZ/A	MP						
4	AATREX	4	1	PT/A	MP						
4	COC		1	% V/V	MP						
4	LIQUID N		2.5	% V/V	MP						
5	KEYSTONE	5.25	2.6	QT/A	PRE	98	92	99	85	0	98
5	HORNET	68.5	4	OZ/A	MP						
5	INDUCE		0.25	% V/V	MP						
6	RESOLVE	25	1	OZ/A	PRE	96	98	99	89	0	96
6	BALANCE PRO	4	1	OZ/A	PRE						
6	LAUDIS	3.5	3	OZ/A	MP						
6	AATREX	4	1	PT/A	MP						
6	COC		1	% V/V	MP						
6	LIQUID N		1.5	QT/A	MP						
7	LAUDIS	3.5	2	OZ/A	MP	93	96	99	88	0	93
7	LIBERTY	1.67	32	OZ/A	MP						
7	AMS	100	8.5	LB/100 GAL	MP						
8	LIBERTY	1.67	32	OZ/A	MP	92	96	99	88	0	92
8	AATREX	4	1	QT/A	MP						
8	AMS	100	8.5	LB/100 GAL	MP						
9	LAUDIS	3.5	3	OZ/A	MP	98	95	94	73	0	98
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
9	AMS	100	8.5	LB/100 GAL	MP						

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory		Giant foxtail
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Name					Corn	
Rating Date	6-27-07	6-27-07	6-27-07	6-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 34	57 34	57 34	57 34	87 64	87 64
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP	96	92	96	86	0	96
10	AATREX	4	1	QT/A	MP						
10	AMS	100	8.5	LB/100 GAL	MP						
11	LAUDIS	3.5	3	OZ/A	EP	93	90	99	85	0	93
11	AATREX	4	1	QT/A	EP						
11	ROUNDUP ORIGINAL MAX	5.5	11	OZ/A	EP						
11	AMS	100	8.5	LB/100 GAL	EP						
12	LAUDIS	3.5	3	OZ/A	EP	98	73	95	80	0	98
12	ACCENT	75	0.33	OZ/A	EP						
12	MSO		1	% V/V	EP						
12	LIQUID N		1.5	QT/A	EP						
13	LAUDIS	3.5	3	OZ/A	EP	95	67	96	82	0	95
13	MSO		1	% V/V	EP						
13	LIQUID N		1.5	QT/A	EP						
14	LAUDIS	3.5	3	OZ/A	EP	96	77	99	84	0	96
14	AATREX	4	1	QT/A	EP						
14	COC		1	% V/V	EP						
14	LIQUID N		1.5	QT/A	EP						
15	CAMIX	3.67	1.3	QT/A	EP	93	78	98	87	0	93
15	TOUCHDOWN TOTAL	4.17	32	OZ/A	EP						
15	AMS	100	8.5	LB/100 GAL	EP						
16	HARNESS XTRA	5.6	1.5	QT/A	PRE	98	87	99	83	0	98
16	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
16	AMS	100	8.5	LB/100 GAL	MP						
17	DEGREE XTRA	4.04	2	QT/A	PRE	96	93	99	88	0	96
17	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
17	AMS	100	8.5	LB/100 GAL	MP						
18	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	99	92	99	84	0	99
18	IMPACT	2.8	0.016	LB A/A	MP						
18	AATREX	4	0.5	LB A/A	MP						
18	MSO		1	% V/V	MP						
18	LIQUID N		2.5	% V/V	MP						



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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory		Giant foxtail
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Name					Corn	
Rating Date	6-27-07	6-27-07	6-27-07	6-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 34	57 34	57 34	57 34	87 64	87 64
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12
LSD (P=.05)						5.3	7.1	4.4	6.0	0.0	5.3
Standard Deviation						3.2	4.3	2.7	3.6	0.0	3.2
CV						3.54	5.16	2.88	4.46	0.0	3.54
Grand Mean						90.22	82.93	92.54	80.15	0.0	90.22
Replicate F						0.496	1.198	1.113	1.872	0.000	0.496
Replicate Prob(F)						0.6133	0.3141	0.3402	0.1693	1.0000	0.6133
Treatment F						150.410	84.845	226.302	97.520	0.000	150.410
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	87 64	87 64	87 64
Plant-Eval Interval	88 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	13	14	15
1	CHECK UNTREATED					0	0	0
2	BALANCE PRO	4	1.5	OZ/A	PRE	95	99	85
2	LAUDIS	3.5	3	OZ/A	MP			
2	AATREX	4	1	QT/A	MP			
2	COC		1	% V/V	MP			
2	LIQUID N		1.5	QT/A	MP			
3	BALANCE PRO	4	1.5	OZ/A	PRE	92	99	83
3	AATREX	4	1	QT/A	PRE			
3	LAUDIS	3.5	3	OZ/A	MP			
3	MSO		1	% V/V	MP			
3	LIQUID N		1.5	QT/A	MP			
4	BICEP II MAGNUM	5.5	2.1	QT/A	PRE	67	98	83
4	CALLISTO	4	3	OZ/A	MP			
4	AATREX	4	1	PT/A	MP			
4	COC		1	% V/V	MP			
4	LIQUID N		2.5	% V/V	MP			
5	KEYSTONE	5.25	2.6	QT/A	PRE	90	99	80
5	HORNET	68.5	4	OZ/A	MP			
5	INDUCE		0.25	% V/V	MP			
6	RESOLVE	25	1	OZ/A	PRE	95	99	83
6	BALANCE PRO	4	1	OZ/A	PRE			
6	LAUDIS	3.5	3	OZ/A	MP			
6	AATREX	4	1	PT/A	MP			
6	COC		1	% V/V	MP			
6	LIQUID N		1.5	QT/A	MP			
7	LAUDIS	3.5	2	OZ/A	MP	95	99	77
7	LIBERTY	1.67	32	OZ/A	MP			
7	AMS	100	8.5	LB/100 GAL	MP			
8	LIBERTY	1.67	32	OZ/A	MP	93	99	80
8	AATREX	4	1	QT/A	MP			
8	AMS	100	8.5	LB/100 GAL	MP			
9	LAUDIS	3.5	3	OZ/A	MP	91	94	60
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP			
9	AMS	100	8.5	LB/100 GAL	MP			

Plant and Soil Science, U of KY  
Weed Science Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C7024 Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	87 64	87 64	87 64
Plant-Eval Interval	88 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Unit	Growth Stage	13	14	15
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP	86	96	72
10	AATREX	4	1	QT/A	MP			
10	AMS	100	8.5	LB/100 GAL	MP			
11	LAUDIS	3.5	3	OZ/A	EP	86	99	73
11	AATREX	4	1	QT/A	EP			
11	ROUNDUP ORIGINAL MAX	5.5	11	OZ/A	EP			
11	AMS	100	8.5	LB/100 GAL	EP			
12	LAUDIS	3.5	3	OZ/A	EP	60	95	63
12	ACCENT	75	0.33	OZ/A	EP			
12	MSO		1	% V/V	EP			
12	LIQUID N		1.5	QT/A	EP			
13	LAUDIS	3.5	3	OZ/A	EP	47	96	57
13	MSO		1	% V/V	EP			
13	LIQUID N		1.5	QT/A	EP			
14	LAUDIS	3.5	3	OZ/A	EP	63	99	72
14	AATREX	4	1	QT/A	EP			
14	COC		1	% V/V	EP			
14	LIQUID N		1.5	QT/A	EP			
15	CAMIX	3.67	1.3	QT/A	EP	76	98	80
15	TOUCHDOWN TOTAL	4.17	32	OZ/A	EP			
15	AMS	100	8.5	LB/100 GAL	EP			
16	HARNESS XTRA	5.6	1.5	QT/A	PRE	75	99	70
16	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP			
16	AMS	100	8.5	LB/100 GAL	MP			
17	DEGREE XTRA	4.04	2	QT/A	PRE	87	99	80
17	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP			
17	AMS	100	8.5	LB/100 GAL	MP			
18	BICEP II MAGNUM	5.5	1.8	QT/A	PRE	88	99	73
18	IMPACT	2.8	0.016	LB A/A	MP			
18	AATREX	4	0.5	LB A/A	MP			
18	MSO		1	% V/V	MP			
18	LIQUID N		2.5	% V/V	MP			

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE LIBERTY

Trial ID: C7024      Protocol ID: HP07NARDLA  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	87 64	87 64	87 64
Plant-Eval Interval	88 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15
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LSD (P=.05)	9.6	4.4	8.3
Standard Deviation	5.8	2.7	5.0
CV	7.52	2.88	7.02
Grand Mean	76.93	92.54	70.61
Replicate F	0.062	1.113	1.147
Replicate Prob(F)	0.9400	0.3402	0.3294
Treatment F	50.611	226.302	46.127
Treatment Prob(F)	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
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## CORN POSTEMERGENCE LIBERTY

Trial ID: C7024      Protocol ID: HP07NARDLA  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** W7642 LL/RR  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail

**Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed

**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common

**Pest 4 Type:** W      **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

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## CORN POSTEMERGENCE LIBERTY

Trial ID: C7024      Protocol ID: HP07NARDLA  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A	B	C
Application Date:	5-1-07	5-14-07	5-24-07
Time of Day:	10 AM	11 AM	6 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSIOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	72 F	73 F	85 F
% Relative Humidity:	56	45	40
Wind Velocity, Unit:	6 MPH	6 MPH	6 MPH
Wind Direction:	SW	SW	SW
Soil Temperature, Unit:	63 F	75 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	0	0

**Crop Stage At Each Application**

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	V1		V4			
Height, Unit:	6	IN	10	IN		

**Pest Stage At Each Application**

	A		B		C	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	1 LF		3 LF			
Height, Unit:	1	IN	4	IN		
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	4 LF		6 LF			
Height, Unit:	2	IN	4	IN		
Pest 3 Code, Disc., Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:	6LF		10LF			
Height, Unit:	1	IN	3	IN		
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W
Stage Majority, Percent:	2LF		4LF			
Height, Unit:	1	IN	3	IN		

## CORN POSTEMERGENCE LIBERTY

Trial ID: C7024      Protocol ID: HP07NARDLA  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>		<b>C</b>	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	36	IN	40	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	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 LIBERTY II

Trial ID: C7025 Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Name	Corn				
Rating Date	5-23-07	5-23-07	5-23-07	5-23-07	5-23-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP
Days After First/Last Applic.	22 9	22 9	22 9	22 9	22 9
Trt-Eval Interval					
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
1	CHECK UNTREATED					0	0	0	0	0
2	HARNNESS XTRA	5.6	1.2	QT/A	PRE	0	99	84	99	83
2	SP17385	2.33	22	OZ/A	MP					
2	AMS	100	8.5	LB/100 GAL	MP					
3	BALANCE PRO	4	1.5	OZ/A	PRE	0	99	80	98	82
3	SP17385	2.33	22	OZ/A	MP					
3	LAUDIS	3.5	2	OZ/A	MP					
3	AMS	100	8.5	LB/100 GAL	MP					
4	BALANCE PRO	4	1	OZ/A	PRE	0	99	78	98	82
4	AATREX	4	1	PT/A	PRE					
4	SP17385	2.33	32	OZ/A	MP					
4	LAUDIS	3.5	2	OZ/A	MP					
4	AMS	100	8.5	LB/100 GAL	MP					
5	AATREX	4	1.5	QT/A	PRE	0	58	88	98	85
5	LIBERTY	1.67	32	OZ/A	MP					
5	LAUDIS	3.5	2	OZ/A	MP					
5	AMS	100	8.5	LB/100 GAL	MP					
6	AATREX	4	1.5	QT/A	PRE	0	73	82	95	80
6	SP17385	2.33	22	OZ/A	MP					
6	LAUDIS	3.5	2	OZ/A	MP					
6	AMS	100	8.5	LB/100 GAL	MP					
7	HARNNESS XTRA	5.6	1.2	QT/A	PRE	0	99	82	96	77
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP					
7	AMS	100	8.5	LB/100 GAL	MP					
8	SP17385	2.33	22	OZ/A	EP	0	99	89	99	91
8	LUMAX	3.94	2	QT/A	EP					
8	AMS	100	8.5	LB/100 GAL	EP					
LSD (P=.05)						0.0	15.4	8.5	2.7	8.6
Standard Deviation						0.0	8.8	4.8	1.5	4.9
CV						0.0	11.22	6.64	1.81	6.8
Grand Mean						0.0	78.33	72.88	85.29	72.46



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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025      Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Name	Corn				
Rating Date	5-23-07	5-23-07	5-23-07	5-23-07	5-23-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP
Days After First/Last Applic.	22 9	22 9	22 9	22 9	22 9
Trt-Eval Interval					
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
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Replicate F		0.000	1.308			0.421			1.960	1.073
Replicate Prob(F)		1.0000	0.3014			0.6643			0.1776	0.3686
Treatment F		0.000	48.259			112.723			1498.698	108.026
Treatment Prob(F)		1.0000	0.0001			0.0001			0.0001	0.0001

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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025 Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Date	6-2-07	6-2-07	6-2-07	6-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	32 9	32 9	32 9	32 9
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	10	11
1	CHECK UNTREATED					0	0	0	0	0	0
2	HARNESS XTRA	5.6	1.2	QT/A	PRE	0	99	99	99	98	0
2	SP17385	2.33	22	OZ/A	MP						
2	AMS	100	8.5	LB/100 GAL	MP						
3	BALANCE PRO	4	1.5	OZ/A	PRE	0	99	99	99	98	0
3	SP17385	2.33	22	OZ/A	MP						
3	LAUDIS	3.5	2	OZ/A	MP						
3	AMS	100	8.5	LB/100 GAL	MP						
4	BALANCE PRO	4	1	OZ/A	PRE	0	99	99	99	99	0
4	AATREX	4	1	PT/A	PRE						
4	SP17385	2.33	32	OZ/A	MP						
4	LAUDIS	3.5	2	OZ/A	MP						
4	AMS	100	8.5	LB/100 GAL	MP						
5	AATREX	4	1.5	QT/A	PRE	0	99	99	99	96	0
5	LIBERTY	1.67	32	OZ/A	MP						
5	LAUDIS	3.5	2	OZ/A	MP						
5	AMS	100	8.5	LB/100 GAL	MP						
6	AATREX	4	1.5	QT/A	PRE	0	99	99	99	99	0
6	SP17385	2.33	22	OZ/A	MP						
6	LAUDIS	3.5	2	OZ/A	MP						
6	AMS	100	8.5	LB/100 GAL	MP						
7	HARNESS XTRA	5.6	1.2	QT/A	PRE	0	99	94	99	90	0
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
7	AMS	100	8.5	LB/100 GAL	MP						
8	SP17385	2.33	22	OZ/A	EP	0	99	89	99	91	0
8	LUMAX	3.94	2	QT/A	EP						
8	AMS	100	8.5	LB/100 GAL	EP						
LSD (P=.05)						0.0	0.0	5.0	0.0	5.4	0.0
Standard Deviation						0.0	0.0	2.9	0.0	3.1	0.0
CV						0.0	0.0	3.37	0.0	3.65	0.0
Grand Mean						0.0	86.63	84.79	86.63	83.83	0.0

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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025 Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Date	6-2-07	6-2-07	6-2-07	6-2-07	6-2-07	6-27-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	32 9	32 9	32 9	32 9	32 9	57 34
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	58 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	10	11
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Replicate F		0.000	0.000				0.005		0.000	0.165	0.000
Replicate Prob(F)		1.0000	1.0000				0.9949		1.0000	0.8496	1.0000
Treatment F		0.000	0.000				434.850		0.000	371.799	0.000
Treatment Prob(F)		1.0000	1.0000				0.0001		1.0000	0.0001	1.0000

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025 Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory		Giant foxtail
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Name					Corn	
Rating Date	6-27-07	6-27-07	6-27-07	6-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONRTOL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 34	57 34	57 34	57 34	87 64	87 64
Trt-Eval Interval						
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	16	17
1	CHECK UNTREATED					0	0	0	0	0	0
2	HARNNESS XTRA	5.6	1.2	QT/A	PRE	99	92	99	80	0	99
2	SP17385	2.33	22	OZ/A	MP						
2	AMS	100	8.5	LB/100 GAL	MP						
3	BALANCE PRO	4	1.5	OZ/A	PRE	95	89	98	82	0	95
3	SP17385	2.33	22	OZ/A	MP						
3	LAUDIS	3.5	2	OZ/A	MP						
3	AMS	100	8.5	LB/100 GAL	MP						
4	BALANCE PRO	4	1	OZ/A	PRE	98	89	98	90	0	98
4	AATREX	4	1	PT/A	PRE						
4	SP17385	2.33	32	OZ/A	MP						
4	LAUDIS	3.5	2	OZ/A	MP						
4	AMS	100	8.5	LB/100 GAL	MP						
5	AATREX	4	1.5	QT/A	PRE	87	89	98	87	0	87
5	LIBERTY	1.67	32	OZ/A	MP						
5	LAUDIS	3.5	2	OZ/A	MP						
5	AMS	100	8.5	LB/100 GAL	MP						
6	AATREX	4	1.5	QT/A	PRE	90	91	95	86	0	90
6	SP17385	2.33	22	OZ/A	MP						
6	LAUDIS	3.5	2	OZ/A	MP						
6	AMS	100	8.5	LB/100 GAL	MP						
7	HARNNESS XTRA	5.6	1.2	QT/A	PRE	98	91	96	83	0	98
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP						
7	AMS	100	8.5	LB/100 GAL	MP						
8	SP17385	2.33	22	OZ/A	EP	91	82	99	84	0	91
8	LUMAX	3.94	2	QT/A	EP						
8	AMS	100	8.5	LB/100 GAL	EP						
LSD (P=.05)						5.6	6.0	2.7	7.6	0.0	5.6
Standard Deviation						3.2	3.4	1.5	4.4	0.0	3.2
CV						3.89	4.38	1.81	5.88	0.0	3.89
Grand Mean						82.08	77.92	85.29	74.0	0.0	82.08

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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025 Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory		Giant foxtail
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Name					Corn	
Rating Date	6-27-07	6-27-07	6-27-07	6-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONRTOL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 34	57 34	57 34	57 34	87 64	87 64
Trt-Eval Interval						
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	13	14	15	16	17
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Replicate F						3.013	1.315	1.960	0.613	0.000	3.013
Replicate Prob(F)						0.0816	0.2996	0.1776	0.5555	1.0000	0.0816
Treatment F						328.384	258.341	1498.698	142.985	0.000	328.384
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025 Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	87 64	87 64	87 64
Trt-Eval Interval			
Plant-Eval Interval	88 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	18	19	20
1	CHECK UNTREATED					0	0	0
2	HARNESS XTRA	5.6	1.2	QT/A	PRE	89	99	77
2	SP17385	2.33	22	OZ/A	MP			
2	AMS	100	8.5	LB/100 GAL	MP			
3	BALANCE PRO	4	1.5	OZ/A	PRE	89	98	77
3	SP17385	2.33	22	OZ/A	MP			
3	LAUDIS	3.5	2	OZ/A	MP			
3	AMS	100	8.5	LB/100 GAL	MP			
4	BALANCE PRO	4	1	OZ/A	PRE	86	98	82
4	AATREX	4	1	PT/A	PRE			
4	SP17385	2.33	32	OZ/A	MP			
4	LAUDIS	3.5	2	OZ/A	MP			
4	AMS	100	8.5	LB/100 GAL	MP			
5	AATREX	4	1.5	QT/A	PRE	83	98	82
5	LIBERTY	1.67	32	OZ/A	MP			
5	LAUDIS	3.5	2	OZ/A	MP			
5	AMS	100	8.5	LB/100 GAL	MP			
6	AATREX	4	1.5	QT/A	PRE	86	95	80
6	SP17385	2.33	22	OZ/A	MP			
6	LAUDIS	3.5	2	OZ/A	MP			
6	AMS	100	8.5	LB/100 GAL	MP			
7	HARNESS XTRA	5.6	1.2	QT/A	PRE	87	96	80
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP			
7	AMS	100	8.5	LB/100 GAL	MP			
8	SP17385	2.33	22	OZ/A	EP	75	99	79
8	LUMAX	3.94	2	QT/A	EP			
8	AMS	100	8.5	LB/100 GAL	EP			
LSD (P=.05)						8.0	2.7	8.9
Standard Deviation						4.6	1.5	5.1
CV						6.12	1.81	7.33
Grand Mean						74.38	85.29	69.5

Plant and Soil Science, U of KY  
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CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025      Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-27-07	7-27-07	7-27-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	87 64	87 64	87 64
Trt-Eval Interval			
Plant-Eval Interval	88 DP-1	88 DP-1	88 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	18	19	20
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Replicate F	1.467	1.960	0.303
Replicate Prob(F)	0.2640	0.1776	0.7432
Treatment F	133.728	1498.698	91.526
Treatment Prob(F)	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

## CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025      Protocol ID: HP07NARMRC  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-30-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** W7642 LL/RR  
**BBCH Scale:** BCOR      **Planting Date:** 4-30-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-7-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail

**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed

**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Pest 4 Type:** W      **Code:** IPOSS      *Ipomoea* sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT



Plant and Soil Science, U of KY  
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## CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025      Protocol ID: HP07NARMRC  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A	B	C
Application Date:	5-1-07	5-14-07	5-24-07
Time of Day:	10 AM	11 AM	6 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSIOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	72 F	73 F	85 F
% Relative Humidity:	56	45	40
Wind Velocity, Unit:	6 MPH	6 MPH	6 MPH
Wind Direction:	SW	SW	SW
Soil Temperature, Unit:	63 F	75 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	0	0

**Crop Stage At Each Application**

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V1	V4	
Height, Unit:	6	IN 10	IN

**Pest Stage At Each Application**

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	1 LF	3 LF	
Height, Unit:	1	IN 4	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	4 LF	6 LF	
Height, Unit:	2	IN 4	IN
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	6 LF	10 LF	
Height, Unit:	1	IN 3	IN
Pest 4 Code, Disc., Scale:	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:	2 LF	3 LF	
Height, Unit:	1	IN 3	IN

CORN POSTEMERGENCE LIBERTY II

Trial ID: C7025      Protocol ID: HP07NARMRC  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>		<b>C</b>	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG		8004 VS	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	36	IN	40	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	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 VI

Trial ID: C7026 Protocol ID: ISK  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	AMACH	
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Smooth pigweed	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Description						
Rating Date	6-22-07	6-22-07	6-22-07	6-22-07	6-22-07	7-3-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	25 25
Trt-Eval Interval	25 DA-A	25 DA-A	25 DA-A	25 DA-A	25 DA-A	25 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	46 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	SAMSON	4	12	FL OZ/A	V3	0	77	65	79	83	0
2	SAMSON	4	12	FL OZ/A	V3	0	78	93	93	93	0
2	MARKSMAN	3.2	3.5	PT/A	V3						
3	SAMSON	4	12	FL OZ/A	V3	0	70	92	93	95	0
3	AATREX-DF	90	1.98	LB A/A	V3						
4	SAMSON	4	12	FL OZ/A	V3	0	85	93	93	93	0
4	CLARITY	4	9.25	FL OZ/A	V3						
5	CHECK UNTREATED					0	0	0	0	0	0
	LSD (P=.05)					0.0	21.1	33.7	14.4	9.6	0.0
	Standard Deviation					0.0	11.2	17.9	7.6	5.1	0.0
	CV					0.0	18.06	26.02	10.66	7.02	0.0
	Grand Mean					0.0	62.0	68.73	71.73	72.87	0.0
	Replicate F					0.000	0.120	0.898	0.893	1.271	0.000
	Replicate Prob(F)					1.0000	0.8888	0.4447	0.4466	0.3318	1.0000
	Treatment F					0.000	29.415	15.180	84.507	192.868	0.000
	Treatment Prob(F)					1.0000	0.0001	0.0008	0.0001	0.0001	1.0000

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CORN POSTEMERGENCE VI

Trial ID: C7026 Protocol ID: ISK  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type										
Pest Code										
Pest Name										
Crop Code										ZEAMX
BBCH Scale										BCOR
Crop Name										Corn
Description										moisture 14.5%
Rating Date										9-17-07
Rating Data Type										YIELD
Rating Unit										BU
Rating Timing										
Days After First/Last Applic.										101 101
Trt-Eval Interval										101 DA-A
Plant-Eval Interval										122 DP-1
ARM Action Codes										TY1
Number of Decimals										0
Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	14
1	SAMSON	4	12	FL OZ/A	V3	75	57	73	78	36
2	SAMSON	4	12	FL OZ/A	V3	72	92	92	93	104
2	MARKSMAN	3.2	3.5	PT/A	V3					
3	SAMSON	4	12	FL OZ/A	V3	67	87	90	92	85
3	AATREX-DF	90	1.98	LB A/A	V3					
4	SAMSON	4	12	FL OZ/A	V3	83	89	91	91	83
4	CLARITY	4	9.25	FL OZ/A	V3					
5	CHECK UNTREATED					0	0	0	0	19
LSD (P=.05)						23.8	27.5	16.8	7.8	19.3
Standard Deviation						12.6	14.6	8.9	4.1	10.2
CV						21.29	22.5	12.94	5.85	15.7
Grand Mean						59.33	64.87	69.07	70.87	65.27
Replicate F						0.073	0.935	1.606	1.121	1.594
Replicate Prob(F)						0.9301	0.4315	0.2591	0.3722	0.2614
Treatment F						21.373	21.361	58.358	280.239	37.591
Treatment Prob(F)						0.0002	0.0003	0.0001	0.0001	0.0001

Column 11: TY1 = 4.093985\*[12]\*(100-[13])/85.5

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## CORN POSTEMERGENCE VI

Trial ID: C7026      Protocol ID: ISK  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-18-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-18-07  
**Planting Method:** ROW      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 62 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-25-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail

**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed

**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Pest 4 Type:** W      **Code:** AMACH      *Amaranthus hybridus*  
**Common Name:** Smooth pigweed

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

## CORN POSTEMERGENCE VI

Trial ID: C7026      Protocol ID: ISK  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL

**Closest Weather Station:** SPINDLETOP

**Distance:** 1.5      **Unit:** MI

**Application Description****A**

**Application Date:** 6-8-07  
**Time of Day:** 8 AM  
**Application Method:** SPRAY  
**Application Timing:** V3  
**Application Placement:** BROFOL  
**Applied By:** C H SLACK  
**Air Temperature, Unit:** 84 F  
**% Relative Humidity:** 65  
**Wind Velocity, Unit:** 8 MPH  
**Wind Direction:** SW  
**Soil Temperature, Unit:** 80 F  
**Soil Moisture:** ADEQUATE  
**% Cloud Cover:** 0

**Crop Stage At Each Application****A**

**Crop 1 Code, BBCH Scale:** ZEAMX BCOR  
**Stage Scale Used:** V3  
**Height, Unit:** 10 IN

**Pest Stage At Each Application****A**

**Pest 1 Code, Disc., Scale:** SETFA W  
**Stage Majority, Percent:** 2 LF  
**Height, Unit:** 2 IN  
**Pest 2 Code, Disc., Scale:** AMBTR W  
**Stage Majority, Percent:** 4 LF  
**Height, Unit:** 4 IN  
**Pest 3 Code, Disc., Scale:** CHEAL W  
**Stage Majority, Percent:** 6 LF  
**Height, Unit:** 4 IN  
**Pest 4 Code, Disc., Scale:** AMACH W  
**Stage Majority, Percent:** 4 LF  
**Height, Unit:** 4 IN

## CORN POSTEMERGENCE VI

Trial ID: C7026      Protocol ID: ISK  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Application Equipment****A**

<b>Appl. Equipment:</b>	ATV	
<b>Operating Pressure, Unit:</b>	30	PSI
<b>Nozzle Type:</b>	FLAT FAN	
<b>Nozzle Size:</b>	8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN
<b>Boom Length, Unit:</b>	10	FT
<b>Boom Height, Unit:</b>	30	IN
<b>Ground Speed, Unit:</b>	4	MPH
<b>Carrier:</b>	WATER	
<b>Spray Volume, Unit:</b>	24	GPA
<b>Propellant:</b>	CO2	

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CORN PREEMERGENCE II

Trial ID: C7040 Protocol ID: 2007-01-04-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Lambsquarters, common	Morning glory	Giant foxtail
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Description				
Rating Date	6-7-07	6-7-07	6-7-07	6-7-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	36 1	36 1	36 1	36 1
Trt-Eval Interval	36 DA-A	1 DA-B	1 DA-B	1 DA-B
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	
1	DEGREE XTRA	4.04	2.01	LB A/A	PRE	0	96		78	93	0	95
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C							
1	AMS		5	% V/V	20C							
2	DEGREE XTRA	4.04	2.01	LB A/A	PRE	0	98		75	91	0	95
2	DEGREE	3.8	1.43	LB A/A	20C							
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C							
2	AMS		5	% V/V	20C							
3	DEGREE XTRA	4.04	2.01	LB A/A	PRE	1	97		76	93	0	95
3	DEGREE	3.8	2.86	LB A/A	20C							
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C							
3	AMS		5	% V/V	20C							
4	DEGREE XTRA	4.04	2.01	LB A/A	PRE	0	96		76	94	0	95
4	DEGREE	3.8	1.43	LB A/A	30C							
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	30C							
4	AMS		5	% V/V	30C							
5	DEGREE XTRA	4.04	2.01	LB A/A	PRE	0	98		78	93	0	95
5	DEGREE	3.8	2.86	LB A/A	30C							
5	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	30C							
5	AMS		5	% V/V	30C							
6	DEGREE XTRA	4.04	2.01	LB A/A	PRE	0	97		74	93	0	95
6	CALLISTO	4	0.094	LB A/A	20C							
6	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C							
6	AMS		5	% V/V	20C							
7	DEGREE XTRA	4.04	2.01	LB A/A	PRE	1	97		78	90	0	95
7	STATUS	61	0.095	LB A/A	20C							
7	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C							
7	AMS		5	% V/V	20C							
8	DEGREE XTRA	4.04	2.01	LB A/A	PRE	0	97		73	91	0	95
8	IMPACT	2.8	0.011	LB A/A	20C							
8	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C							
8	AMS		5	% V/V	20C							
9	DEGREE XTRA	4.04	3.03	LB A/A	PRE	2	99		83	99	0	93



Plant and Soil Science, U of KY  
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CORN PREEMERGENCE II

Trial ID: C7040 Protocol ID: 2007-01-04-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		IPOSS		SETFA
Pest Name		Giant foxtail		Lambsquarters, common		Morning glory		Giant foxtail
Crop Code		ZEAMX						ZEAMX
BBCH Scale		BCOR						BCOR
Crop Name		Corn						Corn
Description								
Rating Date		6-7-07		6-7-07		6-7-07		6-7-07 6-18-07 6-18-07
Rating Data Type		INJURY		CONTROL		CONTROL		CONTROL INJURY CONTROL
Rating Unit		PERCENT		PERCENT		PERCENT		PERCENT PERCENT PERCENT
Rating Timing		6 WEEK		6 WEEK		6 WEEK		6 WEEK 8 WEEK 8 WEEK
Days After First/Last Applic.		36 1		36 1		36 1		36 1 47 12 47 12
Trt-Eval Interval		36 DA-A		1 DA-B		1 DA-B		1 DA-B 12 DA-B -4 DA-C
Plant-Eval Interval		36 DP-1		36 DP-1		36 DP-1		36 DP-1 47 DP-1 47 DP-1
ARM Action Codes								
Number of Decimals								

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
10	LUMAX	3.94	2.96	LB A/A	PRE	6	99	93	98	0	91
	LSD (P=.05)					2.0	2.2	4.9	3.9	0.0	2.5
	Standard Deviation					1.4	1.5	3.4	2.7	0.0	1.7
	CV					140.77	1.58	4.33	2.88	0.0	1.85
	Grand Mean					1.0	97.38	78.13	93.3	0.0	94.38
	Replicate F					0.841	12.669	1.364	0.565	0.000	1.305
	Replicate Prob(F)					0.4833	0.0001	0.2750	0.6427	1.0000	0.2930
	Treatment F					6.140	2.083	11.424	4.723	0.000	2.405
	Treatment Prob(F)					0.0001	0.0680	0.0001	0.0008	1.0000	0.0377

Plant and Soil Science, U of KY  
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CORN PREEMERGENCE II

Trial ID: C7040 Protocol ID: 2007-01-04-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	CHEAL
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Lambsquarters, common
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-18-07	6-18-07	6-27-07	9-14-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	9 WEEK	19 WEEK
Days After First/Last Applic.	47 12	47 12	56 5	135 84
Trt-Eval Interval	-4 DA-C	-4 DA-C	5 DA-C	
Plant-Eval Interval	47 DP-1	47 DP-1	56 DP-1	135 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	7	8	9	10	11
1	DEGREE XTRA	4.04	2.01	LB A/A	PRE	88	85	0	99	99
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C					
1	AMS		5	% V/V	20C					
2	DEGREE XTRA	4.04	2.01	LB A/A	PRE	86	85	0	99	99
2	DEGREE	3.8	1.43	LB A/A	20C					
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C					
2	AMS		5	% V/V	20C					
3	DEGREE XTRA	4.04	2.01	LB A/A	PRE	80	85	0	99	99
3	DEGREE	3.8	2.86	LB A/A	20C					
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C					
3	AMS		5	% V/V	20C					
4	DEGREE XTRA	4.04	2.01	LB A/A	PRE	71	85	0	99	99
4	DEGREE	3.8	1.43	LB A/A	30C					
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	30C					
4	AMS		5	% V/V	30C					
5	DEGREE XTRA	4.04	2.01	LB A/A	PRE	73	85	0	99	99
5	DEGREE	3.8	2.86	LB A/A	30C					
5	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	30C					
5	AMS		5	% V/V	30C					
6	DEGREE XTRA	4.04	2.01	LB A/A	PRE	95	85	0	99	99
6	CALLISTO	4	0.094	LB A/A	20C					
6	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C					
6	AMS		5	% V/V	20C					
7	DEGREE XTRA	4.04	2.01	LB A/A	PRE	93	85	0	99	99
7	STATUS	61	0.095	LB A/A	20C					
7	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C					
7	AMS		5	% V/V	20C					
8	DEGREE XTRA	4.04	2.01	LB A/A	PRE	91	85	0	99	99
8	IMPACT	2.8	0.011	LB A/A	20C					
8	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C					
8	AMS		5	% V/V	20C					
9	DEGREE XTRA	4.04	3.03	LB A/A	PRE	80	85	0	99	99

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CORN PREEMERGENCE II

Trial ID: C7040 Protocol ID: 2007-01-04-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	CHEAL
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Lambsquarters, common
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-18-07	6-18-07	6-27-07	9-14-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	9 WEEK	19 WEEK
Days After First/Last Applic.	47 12	47 12	56 5	135 84
Trt-Eval Interval	-4 DA-C	-4 DA-C	5 DA-C	
Plant-Eval Interval	47 DP-1	47 DP-1	56 DP-1	135 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11
10	LUMAX	3.94	2.96	LB A/A	PRE	90	85	0	99	99
	LSD (P=.05)					9.1	0.0	0.0	0.0	0.0
	Standard Deviation					6.3	0.0	0.0	0.0	0.0
	CV					7.42	0.0	0.0	0.0	0.0
	Grand Mean					84.55	85.0	0.0	99.0	99.0
	Replicate F					0.364	0.000	0.000	0.000	0.000
	Replicate Prob(F)					0.7798	1.0000	1.0000	1.0000	1.0000
	Treatment F					6.911	0.000	0.000	0.000	0.000
	Treatment Prob(F)					0.0001	1.0000	1.0000	1.0000	1.0000

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CORN PREEMERGENCE II

Trial ID: C7040 Protocol ID: 2007-01-04-02  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Name	Corn
Description	moisture 14.5%
Rating Date	9-14-07 9-17-07
Rating Data Type	CONTROL YIELD
Rating Unit	PERCENT BU
Rating Timing	19 WEEK
Days After First/Last Applic.	135 84 138 87
Trt-Eval Interval	
Plant-Eval Interval	135 DP-1 138 DP-1
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	12	15
1	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	127
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C		
1	AMS		5	% V/V	20C		
2	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	131
2	DEGREE	3.8	1.43	LB A/A	20C		
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C		
2	AMS		5	% V/V	20C		
3	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	137
3	DEGREE	3.8	2.86	LB A/A	20C		
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C		
3	AMS		5	% V/V	20C		
4	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	142
4	DEGREE	3.8	1.43	LB A/A	30C		
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	30C		
4	AMS		5	% V/V	30C		
5	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	125
5	DEGREE	3.8	2.86	LB A/A	30C		
5	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	30C		
5	AMS		5	% V/V	30C		
6	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	125
6	CALLISTO	4	0.094	LB A/A	20C		
6	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C		
6	AMS		5	% V/V	20C		
7	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	136
7	STATUS	61	0.095	LB A/A	20C		
7	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C		
7	AMS		5	% V/V	20C		
8	DEGREE XTRA	4.04	2.01	LB A/A	PRE	99	140
8	IMPACT	2.8	0.011	LB A/A	20C		
8	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	20C		
8	AMS		5	% V/V	20C		
9	DEGREE XTRA	4.04	3.03	LB A/A	PRE	99	119

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CORN PREEMERGENCE II

Trial ID: C7040      Protocol ID: 2007-01-04-02  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Name	Corn
Description	moisture 14.5%
Rating Date	9-14-07      9-17-07
Rating Data Type	CONTROL      YIELD
Rating Unit	PERCENT      BU
Rating Timing	19 WEEK
Days After First/Last Applic.	135 84      138 87
Trt-Eval Interval	
Plant-Eval Interval	135 DP-1      138 DP-1
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	12	15
10	LUMAX	3.94	2.96	LB A/A	PRE	99	132
	LSD (P=.05)					0.0	13.0
	Standard Deviation					0.0	9.0
	CV					0.0	6.84
	Grand Mean					99.0	131.41
	Replicate F					0.000	1.606
	Replicate Prob(F)					1.0000	0.2111
	Treatment F					0.000	2.733
	Treatment Prob(F)					1.0000	0.0208

Column 13: TY1 = 7.408163\*[13]\*(100-[14])/85.5

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## CORN PREEMERGENCE II

Trial ID: C7040      Protocol ID: 2007-01-04-02  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-2-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN      **Spacing Within Row, Unit:** 7.1 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 53 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07  
**Harvest Date:** 9-17-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 21 FT  
**% Standard Moisture:** 14.5

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common  
**Pest 3 Type:** W      **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 26 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 4      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

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## CORN PREEMERGENCE II

Trial ID: C7040      Protocol ID: 2007-01-04-02  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A	B	C
Application Date:	5-2-07	6-6-07	6-22-07
Time of Day:	11:30 AM	3 PM	3:30 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V6, 20C	30C
Application Placement:	BROSIOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	78 F	73 F
% Relative Humidity:	65	39	60
Wind Velocity, Unit:	3 MPH	6 MPH	4 MPH
Wind Direction:	WSW	SW	SW
Soil Temperature, Unit:	55 F	71 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUATE
% Cloud Cover:	50	0	20

**Crop Stage At Each Application**

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V6	V8	
Height, Unit:	20	IN 30	IN

**Pest Stage At Each Application**

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	3 LF	5 LF	
Height, Unit:	4	IN 5	IN
Pest 2 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	4 LF	8 LF	
Height, Unit:	2	IN 3	IN
Pest 3 Code, Disc., Scale:	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:	3 LF	5 LF	
Height, Unit:	2	IN 3	IN

## CORN PREEMERGENCE II

Trial ID: C7040      Protocol ID: 2007-01-04-02  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		BACKPACK	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	50	IN	60	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	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 PREEMERGENCE III

Trial ID: C7041 Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBEL	SETFA
Pest Name	Giant foxtail	Lambsquarters, common	Ragweed, common	Giant foxtail
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Description				
Rating Date	5-24-07	5-24-07	5-24-07	6-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	3 WEEK	3 WEEK	3 WEEK	6 WEEK
Days After First/Last Applic.			22 1	36 1
Trt-Eval Interval	-5 DA-B	-5 DA-B	-5 DA-B	9 DA-B
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	36 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	
1	HARNESS XTRA	5.6	1.5	QT/A	PRE	99		99	99	0	99
1	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
1	AMS		5	% V/V	REG, <4"						
2	DEGREE XTRA	4.04	2	QT/A	PRE	98		99	96	0	99
2	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
2	AMS		5	% V/V	REG, <4"						
3	GUARDSMAN MAX	5	2.5	PT/A	PRE	99		99	99	0	99
3	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
3	AMS		5	% V/V	REG, <4"						
4	GUARDSMAN MAX	5	3	PT/A	PRE	99		99	99	0	99
4	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
4	AMS		5	% V/V	REG, <4"						
5	HARNESS	7	1.5	PT/A	PRE	99		98	96	0	86
5	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
5	AMS		5	% V/V	REG, <4"						
6	DEGREE	3.8	3	PT/A	PRE	99		92	90	0	75
6	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
6	AMS		5	% V/V	REG, <4"						
7	OUTLOOK	6	12	OZ/A	PRE	99		88	95	0	69
7	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
7	AMS		5	% V/V	REG, <4"						
8	OUTLOOK	6	16	OZ/A	PRE	99		97	96	0	83
8	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"						
8	AMS		5	% V/V	REG, <4"						
9	LEXAR	3.7	1.86	LB A/A	PRE	99		99	99	0	99
9	TOUCHDOWN TOTAL	4.17	24	OZ/A	REG, <4"						
9	AMS		5	% V/V	REG, <4"						
10	BICEP II MAGNUM	5.5	2	LB A/A	PRE	99		99	99	0	99
10	TOUCHDOWN TOTAL	4.17	24	OZ/A	REG, <4"						
10	AMS		5	% V/V	REG, <4"						

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CORN PREEMERGENCE III

Trial ID: C7041 Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBEL	SETFA
Pest Name	Giant foxtail	Lambsquarters, common	Ragweed, common	Giant foxtail
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Description				
Rating Date	5-24-07	5-24-07	5-24-07	6-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	3 WEEK	3 WEEK	3 WEEK	6 WEEK
Days After First/Last Applic.			22 1	36 1
Trt-Eval Interval	-5 DA-B	-5 DA-B	-5 DA-B	9 DA-B
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	36 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
11	AATREX	4	1.5	QT/A	PRE	85	99	99	0	99
11	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
11	AMS		5	% V/V	REG, <4"					
12	BALANCE PRO	4	2	OZ/A	PRE	97	99	99	0	99
12	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
12	AMS		5	% V/V	REG, <4"					
13	RESOLVE	25	1	OZ/A	PRE	94	99	98	0	97
13	AATREX	4	1	QT/A	PRE					
13	STEADFAST	75	0.75	OZ/A	REG, <4"					
13	CALLISTO	4	2	OZ/A	REG, <4"					
13	AMS		5	% V/V	REG, <4"					
14	LEXAR	3.7	2.78	LB A/A	PRE	99	99	99	0	99
15	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"	0	0	0	0	0
15	AMS		5	% V/V	REG, <4"					
16	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	<4"	0	0	0	0	91
16	AMS		5	% V/V	<4"					
16	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
16	AMS		5	% V/V	REG, <4"					
LSD (P=.05)						3.1	2.5	3.3	0.0	7.0
Standard Deviation						2.2	1.8	2.3	0.0	4.9
CV						2.57	2.09	2.72	0.0	5.62
Grand Mean						85.2	85.3	85.09	0.0	86.95
Replicate F						1.023	2.227	1.903	0.000	1.824
Replicate Prob(F)						0.3913	0.0980	0.1427	1.0000	0.1563
Treatment F						936.701	1412.312	828.936	0.000	105.886
Treatment Prob(F)						0.0001	0.0001	0.0001	1.0000	0.0001

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CORN PREEMERGENCE III

Trial ID: C7041 Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBEL	SETFA	CHEAL
Pest Name	Lambsquarters, common	Ragweed, common	Giant foxtail	Lambsquarters, common
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-7-07	6-7-07	6-18-07	9-18-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	6 WEEK	6 WEEK	8 WEEK	20 WEEK
Days After First/Last Applic.			47 12	
Trt-Eval Interval	1 DA-C	1 DA-C	12 DA-C	
Plant-Eval Interval	36 DP-1	36 DP-1	47 DP-1	139 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	10
1	HARNESS XTRA	5.6	1.5	QT/A	PRE	99	99	0	99	99
1	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
1	AMS		5	% V/V	REG, <4"					
2	DEGREE XTRA	4.04	2	QT/A	PRE	93	96	0	99	99
2	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
2	AMS		5	% V/V	REG, <4"					
3	GUARDSMAN MAX	5	2.5	PT/A	PRE	99	98	0	99	99
3	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
3	AMS		5	% V/V	REG, <4"					
4	GUARDSMAN MAX	5	3	PT/A	PRE	99	99	0	99	99
4	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
4	AMS		5	% V/V	REG, <4"					
5	HARNESS	7	1.5	PT/A	PRE	85	99	0	99	99
5	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
5	AMS		5	% V/V	REG, <4"					
6	DEGREE	3.8	3	PT/A	PRE	76	92	0	99	99
6	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
6	AMS		5	% V/V	REG, <4"					
7	OUTLOOK	6	12	OZ/A	PRE	79	97	0	99	99
7	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
7	AMS		5	% V/V	REG, <4"					
8	OUTLOOK	6	16	OZ/A	PRE	84	98	0	99	99
8	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
8	AMS		5	% V/V	REG, <4"					
9	LEXAR	3.7	1.86	LB A/A	PRE	97	95	0	99	99
9	TOUCHDOWN TOTAL	4.17	24	OZ/A	REG, <4"					
9	AMS		5	% V/V	REG, <4"					
10	BICEP II MAGNUM	5.5	2	LB A/A	PRE	99	97	0	99	99
10	TOUCHDOWN TOTAL	4.17	24	OZ/A	REG, <4"					
10	AMS		5	% V/V	REG, <4"					

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CORN PREEMERGENCE III

Trial ID: C7041 Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBEL	SETFA	CHEAL
Pest Name	Lambsquarters, common	Ragweed, common	Giant foxtail	Lambsquarters, common
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Description				
Rating Date	6-7-07	6-7-07	6-18-07	9-18-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	6 WEEK	6 WEEK	8 WEEK	20 WEEK
Days After First/Last Applic.			47 12	
Trt-Eval Interval	1 DA-C	1 DA-C	12 DA-C	
Plant-Eval Interval	36 DP-1	36 DP-1	47 DP-1	139 DP-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	10
11	AATREX	4	1.5	QT/A	PRE	97	66	0	99	99
11	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
11	AMS		5	% V/V	REG, <4"					
12	BALANCE PRO	4	2	OZ/A	PRE	98	80	0	99	99
12	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
12	AMS		5	% V/V	REG, <4"					
13	RESOLVE	25	1	OZ/A	PRE	95	74	0	99	99
13	AATREX	4	1	QT/A	PRE					
13	STEADFAST	75	0.75	OZ/A	REG, <4"					
13	CALLISTO	4	2	OZ/A	REG, <4"					
13	AMS		5	% V/V	REG, <4"					
14	LEXAR	3.7	2.78	LB A/A	PRE	99	98	0	99	99
15	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"	0	0	0	99	99
15	AMS		5	% V/V	REG, <4"					
16	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	<4"	98	96	0	99	99
16	AMS		5	% V/V	<4"					
16	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"					
16	AMS		5	% V/V	REG, <4"					
LSD (P=.05)						6.9	5.7	0.0	0.0	0.0
Standard Deviation						4.8	4.0	0.0	0.0	0.0
CV						5.5	4.61	0.0	0.0	0.0
Grand Mean						87.19	86.45	0.0	99.0	99.0
Replicate F						1.135	3.048	0.000	0.000	0.000
Replicate Prob(F)						0.3450	0.0382	1.0000	1.0000	1.0000
Treatment F						104.383	158.903	0.000	0.000	0.000
Treatment Prob(F)						0.0001	0.0001	1.0000	1.0000	1.0000

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CORN PREEMERGENCE III

Trial ID: C7041 Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type W Weed  
Pest Code AMBEL  
Pest Name Ragweed, common  
Crop Code ZEAMX  
BBCH Scale BCOR  
Crop Name Corn  
Description moisture 14.5%  
Rating Date 9-18-07 9-18-07  
Rating Data Type CONTROL YIELD  
Rating Unit PERCENT BU  
Rating Timing 20 WEEK  
Days After First/Last Applic. 139 104  
Trt-Eval Interval  
Plant-Eval Interval 139 DP-1 139 DP-1  
ARM Action Codes TY1  
Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	11	14
1	HARNESS XTRA	5.6	1.5	QT/A	PRE	99	137
1	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
1	AMS		5	% V/V	REG, <4"		
2	DEGREE XTRA	4.04	2	QT/A	PRE	99	161
2	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
2	AMS		5	% V/V	REG, <4"		
3	GUARDSMAN MAX	5	2.5	PT/A	PRE	99	134
3	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
3	AMS		5	% V/V	REG, <4"		
4	GUARDSMAN MAX	5	3	PT/A	PRE	99	130
4	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
4	AMS		5	% V/V	REG, <4"		
5	HARNESS	7	1.5	PT/A	PRE	99	130
5	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
5	AMS		5	% V/V	REG, <4"		
6	DEGREE	3.8	3	PT/A	PRE	99	135
6	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
6	AMS		5	% V/V	REG, <4"		
7	OUTLOOK	6	12	OZ/A	PRE	99	146
7	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
7	AMS		5	% V/V	REG, <4"		
8	OUTLOOK	6	16	OZ/A	PRE	99	158
8	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
8	AMS		5	% V/V	REG, <4"		
9	LEXAR	3.7	1.86	LB A/A	PRE	99	149
9	TOUCHDOWN TOTAL	4.17	24	OZ/A	REG, <4"		
9	AMS		5	% V/V	REG, <4"		
10	BICEP II MAGNUM	5.5	2	LB A/A	PRE	99	164
10	TOUCHDOWN TOTAL	4.17	24	OZ/A	REG, <4"		
10	AMS		5	% V/V	REG, <4"		

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CORN PREEMERGENCE III

Trial ID: C7041 Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type W Weed  
Pest Code AMBEL  
Pest Name Ragweed, common  
Crop Code ZEAMX  
BBCH Scale BCOR  
Crop Name Corn  
Description moisture 14.5%  
Rating Date 9-18-07 9-18-07  
Rating Data Type CONTROL YIELD  
Rating Unit PERCENT BU  
Rating Timing 20 WEEK  
Days After First/Last Applic. 139 104  
Trt-Eval Interval  
Plant-Eval Interval 139 DP-1 139 DP-1  
ARM Action Codes TY1  
Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	11	14
11	AATREX	4	1.5	QT/A	PRE	99	142
11	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
11	AMS		5	% V/V	REG, <4"		
12	BALANCE PRO	4	2	OZ/A	PRE	99	169
12	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
12	AMS		5	% V/V	REG, <4"		
13	RESOLVE	25	1	OZ/A	PRE	99	178
13	AATREX	4	1	QT/A	PRE		
13	STEADFAST	75	0.75	OZ/A	REG, <4"		
13	CALLISTO	4	2	OZ/A	REG, <4"		
13	AMS		5	% V/V	REG, <4"		
14	LEXAR	3.7	2.78	LB A/A	PRE	99	176
15	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"	99	137
15	AMS		5	% V/V	REG, <4"		
16	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	<4"	99	146
16	AMS		5	% V/V	<4"		
16	ROUNDUP ORIGINAL MAX	4.5	22	OZ/A	REG, <4"		
16	AMS		5	% V/V	REG, <4"		
LSD (P=.05)						0.0	28.2
Standard Deviation						0.0	19.7
CV						0.0	13.17
Grand Mean						99.0	149.64
Replicate F						0.000	3.386
Replicate Prob(F)						1.0000	0.0260
Treatment F						0.000	2.648
Treatment Prob(F)						1.0000	0.0060

Column 12: TY1 = 7.408163\*[12]\*(100-[13])/85.5

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## CORN PREEMERGENCE III

Trial ID: C7041      Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-2-07  
**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** DKC 63-74  
**BBCH Scale:** BCOR      **Planting Date:** 5-2-07  
**Planting Method:** ROWS      **Rate, Unit:** 30000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN      **Spacing Within Row, Unit:** 7.1 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 53 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-9-07  
**Harvest Date:** 9-18-07      **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 21 FT  
**% Standard Moisture:** 14.5

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common  
**Pest 3 Type:** W      **Code:** AMBEL      *Ambrosia artemisiifolia*  
**Common Name:** Ragweed, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 26 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 4      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

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## CORN PREEMERGENCE III

Trial ID: C7041      Protocol ID: 2007-01-46-08  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A	B	C
Application Date:	5-2-07	5-23-07	6-6-07
Time of Day:	11:30 AM	11 AM	3 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	<4"	REG <4"
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	79 F	F
% Relative Humidity:	65	46	39
Wind Velocity, Unit:	3 MPH	6 MPH	6 MPH
Wind Direction:	WSW	S	SW
Soil Temperature, Unit:	55 F	75 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	50	10	0

**Crop Stage At Each Application**

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	1 LF	3 LF	
Height, Unit:	3	IN 5	IN

**Pest Stage At Each Application**

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	3 LF	5 LF	
Height, Unit:	4	IN 6	IN
Pest 2 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	6 LF	8 LF	
Height, Unit:	4	IN 5	IN
Pest 3 Code, Disc., Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:	4 LF	6 LF	
Height, Unit:	4	IN 6	IN



## CORN PREEMERGENCE III

Trial ID: C7041      Protocol ID: 2007-01-46-08  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	33	IN	35	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	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 PREEMERGENCE

Trial ID: S7014 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	XANST	AMACH	IPOSS		
Pest Name		Giant foxtail	Common cocklebur	Smooth pigweed	Morning glory		
Crop Code	GLXMA					GLXMA	GLXMA
BBCH Scale	BSOY					BSOY	BSOY
Crop Name	Soybean					Soybean	Soybean
Rating Date	5-23-07	5-23-07	5-23-07	5-23-07	5-23-07	6-6-07	6-19-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	2WK AFT 30DA
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 1	41 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	41 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
1	ENVIVE		2.5	OZ/A	PRE	0	50	70	80	67	0	0
1	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
1	AMS		3.7	% V/V	30D							
2	ENVIVE		3.5	OZ/A	PRE	0	57	80	87	80	0	0
2	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
2	AMS		3.7	% V/V	30D							
3	ENVIVE		4.5	OZ/A	PRE	0	73	78	87	80	0	0
3	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
3	AMS		3.7	% V/V	30D							
4	CANOPY	75	2.25	OZ/A	PRE	0	63	80	88	63	0	0
4	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
4	AMS		3.7	% V/V	30D							
5	CANOPY	75	3	OZ/A	PRE	0	47	84	93	70	0	0
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
5	AMS		3.7	% V/V	30D							
6	CANOPY	75	4	OZ/A	PRE	0	37	79	88	67	0	0
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
6	AMS		3.7	% V/V	30D							
7	AUTHORITY FIRST	70	3.23	OZ/A	PRE	0	30	70	82	70	0	0
7	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
7	AMS		3.7	% V/V	30D							
8	AUTHORITY FIRST	70	6.45	OZ/A	PRE	0	86	90	95	88	0	0
8	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D							
8	AMS		3.7	% V/V	30D							
9	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D	0	0	0	0	0	0	0
9	AMS		3.7	% V/V	30D							
10	CHECK UNTREATED					0	0	0	0	0	0	0
LSD (P=.05)						0.0	28.7	17.8	16.4	28.8	0.0	0.0
Standard Deviation						0.0	16.7	10.3	9.5	16.8	0.0	0.0
CV						0.0	37.76	16.37	13.64	28.76	0.0	0.0
Grand Mean						0.0	44.27	63.2	70.0	58.43	0.0	0.0

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SOYBEAN PREEMERGENCE

Trial ID: S7014 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	XANST	AMACH	IPOSS		
Pest Name		Giant foxtail	Common cocklebur	Smooth pigweed	Morning glory		
Crop Code	GLXMA					GLXMA	GLXMA
BBCH Scale	BSOY					BSOY	BSOY
Crop Name	Soybean					Soybean	Soybean
Rating Date	5-23-07	5-23-07	5-23-07	5-23-07	5-23-07	6-6-07	6-19-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	2WK AFT 30DA
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 1	41 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	41 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Stage	1	2	3	4	5	6	7
Replicate F					0.000	1.718	0.161	0.329	0.406	0.000	0.000
Replicate Prob(F)					1.0000	0.2075	0.8528	0.7237	0.6723	1.0000	1.0000
Treatment F					0.000	8.737	32.059	45.488	10.671	0.000	0.000
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY  
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SOYBEAN PREEMERGENCE

Trial ID: S7014 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	XANST	AMACH	IPOSS	SETFA
Pest Name	Giant foxtail	Common cocklebur	Smooth pigweed	Morning glory	Giant foxtail
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Date	6-19-07	6-19-07	6-19-07	6-19-07	7-10-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2WK AFT 30DA	2WK AFT 30DA	2WK AFT 30DA	2WK AFT 30DA	8 WEEK
Days After First/Last Applic.	41 14	41 14	41 14	41 14	62 35
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	62 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit Stage	8	9	10	11	12	13
1	ENVIVE		2.5 OZ/A	PRE	99	98	99	83	0	99
1	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
1	AMS		3.7 % V/V	30D						
2	ENVIVE		3.5 OZ/A	PRE	98	99	99	83	0	98
2	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
2	AMS		3.7 % V/V	30D						
3	ENVIVE		4.5 OZ/A	PRE	99	98	99	90	0	99
3	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
3	AMS		3.7 % V/V	30D						
4	CANOPY	75	2.25 OZ/A	PRE	96	99	99	89	0	96
4	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
4	AMS		3.7 % V/V	30D						
5	CANOPY	75	3 OZ/A	PRE	98	99	99	88	0	98
5	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
5	AMS		3.7 % V/V	30D						
6	CANOPY	75	4 OZ/A	PRE	99	99	99	88	0	99
6	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
6	AMS		3.7 % V/V	30D						
7	AUTHORITY FIRST	70	3.23 OZ/A	PRE	99	99	99	96	0	99
7	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
7	AMS		3.7 % V/V	30D						
8	AUTHORITY FIRST	70	6.45 OZ/A	PRE	99	99	99	98	0	99
8	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D						
8	AMS		3.7 % V/V	30D						
9	ROUNDUP WeatherMAX	5.5	11 OZ/A	30D	99	99	99	87	0	98
9	AMS		3.7 % V/V	30D						
10	CHECK UNTREATED				0	0	0	0	0	0
LSD (P=.05)					2.0	1.8	0.0	13.8	0.0	2.5
Standard Deviation					1.2	1.1	0.0	8.0	0.0	1.5
CV					1.32	1.19	0.0	10.01	0.0	1.65
Grand Mean					88.57	88.83	89.1	80.23	0.0	88.43

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN PREEMERGENCE

Trial ID: S7014 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	XANST	AMACH	IPOSS	SETFA
Pest Name	Giant foxtail	Common cocklebur	Smooth pigweed	Morning glory	Giant foxtail
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Date	6-19-07	6-19-07	6-19-07	6-19-07	7-10-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2WK AFT 30DA	2WK AFT 30DA	2WK AFT 30DA	2WK AFT 30DA	8 WEEK
Days After First/Last Applic.	41 14	41 14	41 14	41 14	62 35
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	62 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12	13
Replicate F						2.739	0.474	0.000	1.241	0.000	1.000
Replicate Prob(F)						0.0915	0.6302	1.0000	0.3126	1.0000	0.3874
Treatment F						2133.373	2596.661	0.000	38.040	0.000	1358.891
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY  
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SOYBEAN PREEMERGENCE

Trial ID: S7014 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	XANST	AMACH	IPOSS
Pest Name	Common cocklebur	Smooth pigweed	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-10-07	7-10-07	7-10-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	62 35	62 35	62 35
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	14	15	16
1	ENVIVE		2.5	OZ/A	PRE	98	99	83
1	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
1	AMS		3.7	% V/V	30D			
2	ENVIVE		3.5	OZ/A	PRE	99	99	83
2	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
2	AMS		3.7	% V/V	30D			
3	ENVIVE		4.5	OZ/A	PRE	98	99	90
3	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
3	AMS		3.7	% V/V	30D			
4	CANOPY	75	2.25	OZ/A	PRE	99	99	89
4	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
4	AMS		3.7	% V/V	30D			
5	CANOPY	75	3	OZ/A	PRE	99	99	88
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
5	AMS		3.7	% V/V	30D			
6	CANOPY	75	4	OZ/A	PRE	99	99	88
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
6	AMS		3.7	% V/V	30D			
7	AUTHORITY FIRST	70	3.23	OZ/A	PRE	99	99	96
7	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
7	AMS		3.7	% V/V	30D			
8	AUTHORITY FIRST	70	6.45	OZ/A	PRE	99	99	98
8	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D			
8	AMS		3.7	% V/V	30D			
9	ROUNDUP WeatherMAX	5.5	11	OZ/A	30D	99	99	87
9	AMS		3.7	% V/V	30D			
10	CHECK UNTREATED					0	0	0
LSD (P=.05)						1.8	0.0	13.8
Standard Deviation						1.1	0.0	8.0
CV						1.19	0.0	10.01
Grand Mean						88.83	89.1	80.23

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN PREEMERGENCE

Trial ID: S7014      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	XANST	AMACH	IPOSS
Pest Name	Common cocklebur	Smooth pigweed	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-10-07	7-10-07	7-10-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	62 35	62 35	62 35
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15	16
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Replicate F	0.474	0.000	1.241
Replicate Prob(F)	0.6302	1.0000	0.3126
Treatment F	2596.661	0.000	38.040
Treatment Prob(F)	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

## SOYBEAN PREEMERGENCE

Trial ID: S7014      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-9-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** AG 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-9-07  
**Planting Method:** ROWS      **Rate, Unit:** 190000 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-14-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** XANST      *Xanthium strumarium*  
**Common Name:** Common cocklebur  
**Pest 3 Type:** W      **Code:** AMACH      *Amaranthus hybridus*  
**Common Name:** Smooth pigweed  
**Pest 4 Type:** W      **Code:** IPOSS      *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10      FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44      FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT



## SOYBEAN PREEMERGENCE

Trial ID: S7014      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1

Unit: MI

**Application Description**

	A	B
Application Date:	5-9-07	6-5-07
Time of Day:	6:30 PM	5PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	30DA
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	76 F
% Relative Humidity:	38	66
Wind Velocity, Unit:	2 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	70 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10

**Crop Stage At Each Application**

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	18	IN

**Pest Stage At Each Application**

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	4 LF	
Height, Unit:	5	IN
Pest 2 Code, Disc., Scale:	XANST W	XANST W
Stage Majority, Percent:	4 LF	
Height, Unit:	6	IN
Pest 3 Code, Disc., Scale:	AMACH W	AMACH W
Stage Majority, Percent:	6 LF	
Height, Unit:	4	IN
Pest 4 Code, Disc., Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:	4 LF	
Height, Unit:	3	IN

## SOYBEAN PREEMERGENCE

Trial ID: S7014      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>	
<b>Appl. Equipment:</b>	ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	45	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2	

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NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	AMBTR	CHEAL	ERICA		
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Marestail		
Crop Code	GLXMA					GLXMA	GLXMA
BBCH Scale	BSOY					BSOY	BSOY
Crop Name	Soybean					Soybean	Soybean
Rating Date	5-24-07	5-24-07	5-24-07	5-24-07	5-24-07	6-7-07	6-21-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	2WK AFT 30D
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 2	42 16
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	
Plant-Eval Interval	17 DP-1	17 DP-1	17 DP-1	17 DP-1	17 DP-1	31 DP-1	45 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7	
1	ENVIVE		2.5	OZ/A	PRE	0	99	91		96	95	0	0
1	ROUNDUP WeatherMAX	4.5	11	OZ/A	30D								
1	AMS		3.7	% V/V	30D								
2	ENVIVE		3.5	OZ/A	PRE	0	99	96		98	98	0	0
2	ROUNDUP WeatherMAX		11	OZ/A	30D								
2	AMS		3.7	% V/V	30D								
3	ENVIVE		4.5	OZ/A	PRE	0	99	91		96	95	0	0
3	ROUNDUP WeatherMAX		11	OZ/A	30D								
3	AMS		3.7	% V/V	30D								
4	CANOPY	75	2.25	OZ/A	PRE	0	99	87		98	91	0	0
4	ROUNDUP WeatherMAX		11	OZ/A	30D								
4	AMS		3.7	% V/V	30D								
5	CANOPY	75	3	OZ/A	PRE	0	99	91		96	95	0	0
5	ROUNDUP WeatherMAX		11	OZ/A	30D								
5	AMS		3.7	% V/V	30D								
6	CANOPY	75	4	OZ/A	PRE	0	99	92		98	98	0	0
6	ROUNDUP WeatherMAX		11	OZ/A	30D								
6	AMS		3.7	% V/V	30D								
7	AUTHORITY FIRST	70	3.23	OZ/A	PRE	0	99	99		99	99	0	0
7	ROUNDUP WeatherMAX		11	OZ/A	30D								
7	AMS		3.7	% V/V	30D								
8	AUTHORITY FIRST	70	6.45	OZ/A	PRE	0	99	99		99	99	0	0
8	ROUNDUP WeatherMAX		11	OZ/A	30D								
8	AMS		3.7	% V/V	30D								
9	ROUNDUP WeatherMAX		11	OZ/A	30D	0	99	99		99	99	0	0
9	AMS		3.7	% V/V	30D								
10	CHECK UNTREATED					0	0	0		0	0	0	0
LSD (P=.05)						0.0	0.0	7.6		2.9	6.6	0.0	0.0
Standard Deviation						0.0	0.0	4.4		1.7	3.9	0.0	0.0
CV						0.0	0.0	5.22		1.92	4.46	0.0	0.0
Grand Mean						0.0	89.1	84.53		87.9	86.77	0.0	0.0

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015      Protocol ID: USA-07-124  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	AMBTR	CHEAL	ERICA		
Pest Name		Giant foxtail	Giant ragweed	Lambsquarters, common	Marestail		
Crop Code	GLXMA					GLXMA	GLXMA
BBCH Scale	BSOY					BSOY	BSOY
Crop Name	Soybean					Soybean	Soybean
Rating Date	5-24-07	5-24-07	5-24-07	5-24-07	5-24-07	6-7-07	6-21-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	2WK AFT 30D
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 2	42 16
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	
Plant-Eval Interval	17 DP-1	17 DP-1	17 DP-1	17 DP-1	17 DP-1	31 DP-1	45 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
	Replicate F					0.000	0.000	2.552	2.250	2.487	0.000	0.000
	Replicate Prob(F)					1.0000	1.0000	0.1057	0.1342	0.1113	1.0000	1.0000
	Treatment F					0.000	0.000	138.843	1007.293	187.505	0.000	0.000
	Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	ERICA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Lambsquarters, common	Marestail	Giant foxtail
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Date	6-21-07	6-21-07	6-21-07	6-21-07	8-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2WK AFT 30D	2WK AFT 30D	2WK AFT 30D	2WK AFT 30D	8 WEEK
Days After First/Last Applic.	42 16	42 16	42 16	42 16	89 63
Trt-Eval Interval					
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	92 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit Stage	8	9	10	11	12	13
1	ENVIVE		2.5 OZ/A	PRE	99	98	98	98	0	99
1	ROUNDUP WeatherMAX	4.5	11 OZ/A	30D						
1	AMS		3.7 % V/V	30D						
2	ENVIVE		3.5 OZ/A	PRE	98	96	99	99	0	98
2	ROUNDUP WeatherMAX		11 OZ/A	30D						
2	AMS		3.7 % V/V	30D						
3	ENVIVE		4.5 OZ/A	PRE	99	94	98	96	0	99
3	ROUNDUP WeatherMAX		11 OZ/A	30D						
3	AMS		3.7 % V/V	30D						
4	CANOPY	75	2.25 OZ/A	PRE	99	93	98	99	0	99
4	ROUNDUP WeatherMAX		11 OZ/A	30D						
4	AMS		3.7 % V/V	30D						
5	CANOPY	75	3 OZ/A	PRE	99	93	99	99	0	99
5	ROUNDUP WeatherMAX		11 OZ/A	30D						
5	AMS		3.7 % V/V	30D						
6	CANOPY	75	4 OZ/A	PRE	99	92	98	98	0	99
6	ROUNDUP WeatherMAX		11 OZ/A	30D						
6	AMS		3.7 % V/V	30D						
7	AUTHORITY FIRST	70	3.23 OZ/A	PRE	99	96	99	99	0	99
7	ROUNDUP WeatherMAX		11 OZ/A	30D						
7	AMS		3.7 % V/V	30D						
8	AUTHORITY FIRST	70	6.45 OZ/A	PRE	98	98	99	99	0	98
8	ROUNDUP WeatherMAX		11 OZ/A	30D						
8	AMS		3.7 % V/V	30D						
9	ROUNDUP WeatherMAX		11 OZ/A	30D	99	99	99	99	0	99
9	AMS		3.7 % V/V	30D						
10	CHECK UNTREATED				0	0	0	0	0	0
LSD (P=.05)					1.7	7.0	2.6	2.2	0.0	1.7
Standard Deviation					1.0	4.1	1.5	1.3	0.0	1.0
CV					1.1	4.75	1.72	1.48	0.0	1.1
Grand Mean					88.83	85.93	88.57	88.57	0.0	88.83

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	ERICA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Lambsquarters, common	Marestail	Giant foxtail
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Date	6-21-07	6-21-07	6-21-07	6-21-07	8-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2WK AFT 30D	2WK AFT 30D	2WK AFT 30D	2WK AFT 30D	8 WEEK
Days After First/Last Applic.	42 16	42 16	42 16	42 16	89 63
Trt-Eval Interval					
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	92 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12	13
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Replicate F						2.250	1.118	0.231	0.310	0.000	2.250
Replicate Prob(F)						0.1342	0.3487	0.7962	0.7370	1.0000	0.1342
Treatment F						3083.535	164.980	1257.630	1691.985	0.000	3083.535
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015 Protocol ID: USA-07-124  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	ERICA
Pest Name	Giant ragweed	Lambsquarters, common	Marestail
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	8-7-07	8-7-07	6-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	89 63	89 63	28 2
Trt-Eval Interval			
Plant-Eval Interval	92 DP-1	92 DP-1	31 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15	16
1	ENVIVE		2.5	OZ/A	PRE	98	98	98
1	ROUNDUP WeatherMAX	4.5	11	OZ/A	30D			
1	AMS		3.7	% V/V	30D			
2	ENVIVE		3.5	OZ/A	PRE	96	99	99
2	ROUNDUP WeatherMAX		11	OZ/A	30D			
2	AMS		3.7	% V/V	30D			
3	ENVIVE		4.5	OZ/A	PRE	94	98	96
3	ROUNDUP WeatherMAX		11	OZ/A	30D			
3	AMS		3.7	% V/V	30D			
4	CANOPY	75	2.25	OZ/A	PRE	93	98	99
4	ROUNDUP WeatherMAX		11	OZ/A	30D			
4	AMS		3.7	% V/V	30D			
5	CANOPY	75	3	OZ/A	PRE	93	99	99
5	ROUNDUP WeatherMAX		11	OZ/A	30D			
5	AMS		3.7	% V/V	30D			
6	CANOPY	75	4	OZ/A	PRE	92	98	98
6	ROUNDUP WeatherMAX		11	OZ/A	30D			
6	AMS		3.7	% V/V	30D			
7	AUTHORITY FIRST	70	3.23	OZ/A	PRE	96	99	99
7	ROUNDUP WeatherMAX		11	OZ/A	30D			
7	AMS		3.7	% V/V	30D			
8	AUTHORITY FIRST	70	6.45	OZ/A	PRE	98	99	99
8	ROUNDUP WeatherMAX		11	OZ/A	30D			
8	AMS		3.7	% V/V	30D			
9	ROUNDUP WeatherMAX		11	OZ/A	30D	96	99	99
9	AMS		3.7	% V/V	30D			
10	CHECK UNTREATED					0	0	0
LSD (P=.05)						7.2	2.6	2.2
Standard Deviation						4.2	1.5	1.3
CV						4.9	1.72	1.48
Grand Mean						85.67	88.57	88.57

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	ERICA
Pest Name	Giant ragweed	Lambsquarters, common	Marestail
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	8-7-07	8-7-07	6-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	89 63	89 63	28 2
Trt-Eval Interval			
Plant-Eval Interval	92 DP-1	92 DP-1	31 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	14	15	16
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Replicate F	0.876	0.231	0.310
Replicate Prob(F)	0.4335	0.7962	0.7370
Treatment F	154.904	1257.630	1691.985
Treatment Prob(F)	0.0001	0.0001	0.0001



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## NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015      Protocol ID: USA-07-124  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-7-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** 4404 RR STS  
**BBCH Scale:** BSOY      **Planting Date:** 5-7-07  
**Planting Method:** ROW      **Rate, Unit:** 170000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-12-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** ERICA      *Conyza canadensis*  
**Common Name:** Marestail

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3      **% OM:** 4      **Texture:** SILT LOAM  
**% Silt:** 63      **pH:** 6.5      **Soil Name:** LANTON  
**% Clay:** 34      **CEC:** 25      **Fert. Level:** EXCELLENT

NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLTOP

Distance: 1.25      Unit: MI

**Application Description**

	A	B
Application Date:	5-10-07	6-5-07
Time of Day:	10 AM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	30DAY
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	77 F	76 F
% Relative Humidity:	66	66
Wind Velocity, Unit:	2 MPH	4 MPH
Wind Direction:	ENE	WNW
Soil Temperature, Unit:	75 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10

**Crop Stage At Each Application**

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	12	IN

**Pest Stage At Each Application**

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	3 LF	
Height, Unit:	4	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	4 LF	
Height, Unit:	5	IN
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	8 LF	
Height, Unit:	4	IN
Pest 4 Code, Disc., Scale:	ERICA W	ERICA W
Height, Unit:	3	IN

## NO TILL SOYBEAN PREEMERGENCE

Trial ID: S7015      Protocol ID: USA-07-124  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>	
<b>Appl. Equipment:</b>	ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	45	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2	

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SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7016 Protocol ID: HP07NARMRB  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	AMACH	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory	
Crop Code	GLXMA					GLXMA
BBCH Scale	BSOY					BSOY
Crop Name	Soybean					Soybean
Rating Date	5-30-07	5-30-07	5-30-07	5-30-07	5-30-07	6-14-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	2 WEEK
Days After First/Last Applic.	21 0	21 0	21 0	21 0	21 0	36 15
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1	21 DP-1	36 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK UNTREATED					0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	98	60	94	80	0
2	SP17385	2.33	22	OZ/A	MP						
2	AMS	100	8.5	LB/100 GAL	MP						
3	CANOPY	75	3	OZ/A	PRE	0	98	50	94	90	0
3	SP17385	2.33	22	OZ/A	MP						
3	AMS	100	8.5	LB/100 GAL	MP						
4	DOMAIN	60	14	OZ/A	PRE	0	98	69	96	92	0
4	SP17385	2.33	22	OZ/A	MP						
4	AMS	100	8.5	LB/100 GAL	MP						
5	VALOR XLT	40.3	3	OZ/A	PRE	0	98	61	95	90	0
5	SP17385	2.33	22	OZ/A	MP						
5	AMS	100	8.5	LB/100 GAL	MP						
6	AUTHORITY FIRST	70	4	OZ/A	PRE	0	95	65	90	90	0
6	SP17385	2.33	22	OZ/A	MP						
6	AMS	100	8.5	LB/100 GAL	MP						
7	AUTHORITY FIRST	70	4	OZ/A	PRE	0	95	68	92	92	0
7	LIBERTY	1.67	32	OZ/A	MP						
7	AMS	100	8.5	LB/100 GAL	MP						
8	SP17385	2.33	22	OZ/A	MP	0	0	0	0	0	0
8	AMS	100	8.5	LB/100 GAL	MP						
8	SP17385	2.33	22	OZ/A	+21D						
8	AMS	100	8.5	LB/100 GAL	+21D						
LSD (P=.05)						0.0	3.7	15.5	4.0	10.9	0.0
Standard Deviation						0.0	2.5	10.5	2.7	7.4	0.0
CV						0.0	3.42	22.61	3.89	11.11	0.0
Grand Mean						0.0	72.63	46.56	70.03	66.78	0.0
Replicate F						0.000	4.329	0.554	1.371	2.099	0.000
Replicate Prob(F)						1.0000	0.0159	0.6509	0.2789	0.1308	1.0000
Treatment F						0.000	1302.324	31.003	1006.727	124.577	0.000
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

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SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7016 Protocol ID: HP07NARMRB  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMACH	IPOSS	SETFA	AMBTR
Pest Name	Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory	Giant foxtail	Giant Ragweed
Crop Code					GLXMA	
BBCH Scale					BSOY	
Crop Name					Soybean	
Rating Date	6-14-07	6-14-07	6-14-07	6-14-07	7-12-07	7-12-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	36 15	36 15	36 15	36 15	64 20	64 20
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1	64 DP-1	64 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12	13
1	CHECK UNTREATED					0	0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	98	87	95	93	0	98	86
2	SP17385	2.33	22	OZ/A	MP							
2	AMS	100	8.5	LB/100 GAL	MP							
3	CANOPY	75	3	OZ/A	PRE	97	88	96	96	0	97	88
3	SP17385	2.33	22	OZ/A	MP							
3	AMS	100	8.5	LB/100 GAL	MP							
4	DOMAIN	60	14	OZ/A	PRE	98	85	96	95	0	98	84
4	SP17385	2.33	22	OZ/A	MP							
4	AMS	100	8.5	LB/100 GAL	MP							
5	VALOR XLT	40.3	3	OZ/A	PRE	98	86	93	94	0	98	88
5	SP17385	2.33	22	OZ/A	MP							
5	AMS	100	8.5	LB/100 GAL	MP							
6	AUTHORITY FIRST	70	4	OZ/A	PRE	97	91	93	95	0	97	91
6	SP17385	2.33	22	OZ/A	MP							
6	AMS	100	8.5	LB/100 GAL	MP							
7	AUTHORITY FIRST	70	4	OZ/A	PRE	98	91	96	96	0	98	90
7	LIBERTY	1.67	32	OZ/A	MP							
7	AMS	100	8.5	LB/100 GAL	MP							
8	SP17385	2.33	22	OZ/A	MP	99	97	98	98	0	99	97
8	AMS	100	8.5	LB/100 GAL	MP							
8	SP17385	2.33	22	OZ/A	+21D							
8	AMS	100	8.5	LB/100 GAL	+21D							
LSD (P=.05)						2.8	5.5	3.4	3.0	0.0	2.8	5.0
Standard Deviation						1.9	3.7	2.3	2.1	0.0	1.9	3.4
CV						2.23	4.77	2.79	2.48	0.0	2.23	4.33
Grand Mean						85.59	78.19	83.22	83.25	0.0	85.59	78.09
Replicate F						4.392	3.534	1.564	2.398	0.000	4.392	3.824
Replicate Prob(F)						0.0151	0.0324	0.2277	0.0967	1.0000	0.0151	0.0249
Treatment F						1311.242	291.087	840.079	1061.532	0.000	1311.242	353.239
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7016 Protocol ID: HP07NARMRB  
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed	W Weed
Pest Code	AMACH	IPOSS
Pest Name	Smooth pigweed	Morning glory
Crop Code		
BBCH Scale		
Crop Name		
Rating Date	7-12-07	7-12-07
Rating Data Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	64 20	64 20
Plant-Eval Interval	64 DP-1	64 DP-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	14	15
1	CHECK UNTREATED					0	0
2	PROWL H20	3.8	3	PT/A	PRE	95	93
2	SP17385	2.33	22	OZ/A	MP		
2	AMS	100	8.5	LB/100 GAL	MP		
3	CANOPY	75	3	OZ/A	PRE	96	96
3	SP17385	2.33	22	OZ/A	MP		
3	AMS	100	8.5	LB/100 GAL	MP		
4	DOMAIN	60	14	OZ/A	PRE	96	95
4	SP17385	2.33	22	OZ/A	MP		
4	AMS	100	8.5	LB/100 GAL	MP		
5	VALOR XLT	40.3	3	OZ/A	PRE	93	94
5	SP17385	2.33	22	OZ/A	MP		
5	AMS	100	8.5	LB/100 GAL	MP		
6	AUTHORITY FIRST	70	4	OZ/A	PRE	93	95
6	SP17385	2.33	22	OZ/A	MP		
6	AMS	100	8.5	LB/100 GAL	MP		
7	AUTHORITY FIRST	70	4	OZ/A	PRE	97	96
7	LIBERTY	1.67	32	OZ/A	MP		
7	AMS	100	8.5	LB/100 GAL	MP		
8	SP17385	2.33	22	OZ/A	MP	98	98
8	AMS	100	8.5	LB/100 GAL	MP		
8	SP17385	2.33	22	OZ/A	+21D		
8	AMS	100	8.5	LB/100 GAL	+21D		
LSD (P=.05)						3.4	3.0
Standard Deviation						2.3	2.1
CV						2.78	2.48
Grand Mean						83.34	83.25
Replicate F						1.870	2.398
Replicate Prob(F)						0.1656	0.0967
Treatment F						848.487	1061.532
Treatment Prob(F)						0.0001	0.0001

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## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7016      Protocol ID: HP07NARMRB  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-9-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** SG2779 LL  
**BBCH Scale:** BSOY      **Planting Date:** 5-9-07  
**Planting Method:** ROW      **Rate, Unit:** 160000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** SMOOTH      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-14-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** AMACH      *Amaranthus hybridus*  
**Common Name:** Smooth pigweed  
**Pest 4 Type:** W      **Code:** IPOSS      *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 33 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 4      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

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## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7016 Protocol ID: HP07NARMRB  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.5

Unit: MI

**Application Description**

	A	B	C
Application Date:	5-9-07	5-30-07	6-22-07
Time of Day:	7:30 PM	10 AM	4 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	21D
Application Placement:	BROSIOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	81 F	78
% Relative Humidity:	38	48	50
Wind Velocity, Unit:	2 MPH	5 MPH	6 MPH
Wind Direction:	SW	SW	SW
Soil Temperature, Unit:	70 F	80 F	85 F
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUATE
% Cloud Cover:	20	0	90

**Crop Stage At Each Application**

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	2 TR		
Height, Unit:	5	IN 18	IN

**Pest Stage At Each Application**

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	4LF		
Height, Unit:	2	IN 4	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4	IN 6	IN
Pest 3 Code, Disc., Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:	3	IN 5	IN
Pest 4 Code, Disc., Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	3	IN 4	IN



## SOYBEAN POSTEMERGENCE LIBERTY

Trial ID: S7016      Protocol ID: HP07NARMRB  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 VS		8004 VS	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	35	IN	45	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	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 PREEMERGENCE III

Trial ID: S7017 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Giant foxtail
Crop Code	GLXMA			GLXMA
BBCH Scale	BSOY			BSOY
Crop Name	Soybean			Soybean
Rating Date	6-15-07	6-15-07	6-15-07	6-15-07 7-16-07 7-16-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL INJURY CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT PERCENT PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK 8 WEEK 8 WEEK
Days After First/Last Applic.	38 14	38 14	38 14	38 14 69 6 69 6
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1 69 DP-1 69 DP-1
ARM Action Codes	P	P	P	P P P
Number of Decimals	0	0	0	0 0 0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	1	2	3	4	5	6	
1	SONIC	70	3	OZ/A	PRE	0	99	99		98	0	99
1	DURANGO	5.4	24	OZ/A	LP							
1	AMS	100	2	% W/W	LP							
2	FIRSTRATE	84	0.3	OZ/A	PRE	0	99	99		96	0	99
2	DURANGO	5.4	24	OZ/A	LP							
2	AMS	100	2	% W/W	LP							
3	GF- 1280	4	24	OZ/A	LP	0	98	89		89	0	98
3	AMS	100	2	% W/W	LP							
3	GF- 1280	4	24	OZ/A	REG							
3	AMS	100	2	% W/W	REG							
4	MF-0019	75	0.06	OZ/A	MP	0	96	93		95	0	96
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP							
4	AMS		3.7	% V/V	MP							
5	MF-0019	75	0.08	OZ/A	MP	0	99	90		89	0	99
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP							
5	AMS		3.7	% V/V	MP							
6	MF-0019	75	0.12	OZ/A	MP	0	93	96		91	0	93
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP							
6	AMS		3.7	% V/V	MP							
7	MF-0019	75	0.16	OZ/A	MP	0	99	91		91	0	99
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP							
7	AMS		3.7	% V/V	MP							
8	CHECK UNTREATED					0	0	0		0	0	0
LSD (P=.05)						0.0	5.1	4.3		4.6	0.0	5.1
Standard Deviation						0.0	2.9	2.4		2.6	0.0	2.9
CV						0.0	3.39	2.96		3.22	0.0	3.39
Grand Mean						0.0	85.33	82.25		81.17	0.0	85.33
Replicate F						0.000	0.080	4.133		1.724	0.000	0.080
Replicate Prob(F)						1.0000	0.9240	0.0389		0.2141	1.0000	0.9240
Treatment F						0.000	427.170	566.036		476.198	0.000	427.170
Treatment Prob(F)						1.0000	0.0001	0.0001		0.0001	1.0000	0.0001

Plant and Soil Science, U of KY  
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## SOYBEAN PREEMERGENCE III

Trial ID: S7017 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed
Pest Code	AMBTR	CHEAL
Pest Name	Giant Ragweed	Common lambsquarters
Crop Code		
BBCH Scale		
Crop Name		
Rating Date	7-16-07	7-16-07
Rating Data Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	69 6	69 6
Plant-Eval Interval	69 DP-1	69 DP-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	7	8
1	SONIC	70	3	OZ/A	PRE	99	96
1	DURANGO	5.4	24	OZ/A	LP		
1	AMS	100	2	% W/W	LP		
2	FIRSTRATE	84	0.3	OZ/A	PRE	99	95
2	DURANGO	5.4	24	OZ/A	LP		
2	AMS	100	2	% W/W	LP		
3	GF- 1280	4	24	OZ/A	LP	99	99
3	AMS	100	2	% W/W	LP		
3	GF- 1280	4	24	OZ/A	REG		
3	AMS	100	2	% W/W	REG		
4	MF-0019	75	0.06	OZ/A	MP	89	92
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP		
4	AMS		3.7	% V/V	MP		
5	MF-0019	75	0.08	OZ/A	MP	89	88
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP		
5	AMS		3.7	% V/V	MP		
6	MF-0019	75	0.12	OZ/A	MP	95	91
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP		
6	AMS		3.7	% V/V	MP		
7	MF-0019	75	0.16	OZ/A	MP	89	91
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	MP		
7	AMS		3.7	% V/V	MP		
8	CHECK UNTREATED					0	0
	LSD (P=.05)					4.6	5.8
	Standard Deviation					2.7	3.3
	CV					3.22	4.06
	Grand Mean					82.46	81.5
	Replicate F					2.846	2.814
	Replicate Prob(F)					0.0918	0.0939
	Treatment F					481.974	299.729
	Treatment Prob(F)					0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

## SOYBEAN PREEMERGENCE III

Trial ID: S7017      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-8-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-14-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

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

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## SOYBEAN PREEMERGENCE III

Trial ID: S7017      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

## Application Description

	A		B		C		D	
Application Date:	5-8-07		5-30-07		6-1-07		7-10-07	
Time of Day:	5 PM		10 AM		10 AM		10 AM	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		MP		LP		REG	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL	
Applied By:	C H SLACK		C H SLACK		C H SLACK		C H SLACK	
Air Temperature, Unit:	79	F	81	F	78	F	76	F
% Relative Humidity:	41		48		40		82	
Wind Velocity, Unit:	4	MPH	5	MPH	4	MPH	6	MPH
Wind Direction:	NNE		SW		SW		SW	
Soil Temperature, Unit:	70	F	80	F	73	F	85	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE	
% Cloud Cover:	0		0		0		90	

## Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	1 TR		1 TR		5 TR			
Height, Unit:	4	IN	5	IN	18	IN		

## Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Height, Unit:	3		IN 3		IN 5		IN	
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:	3		IN 3		IN 6		IN	
Pest 3 Code, Disc., Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Height, Unit:	4	IN	4	IN	5	IN		

## Application Equipment

	A		B		C	
Appl. Equipment:	ATV		ATV		ATV	
Operating Pressure, Unit:	30	PSI	30	PSI	30	PSI
Nozzle Type:	FLAT FAN		FLAT FAN		FLAT FAN	
Nozzle Size:	8004 DG		8004 DG		8004 DG	
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN
Boom Length, Unit:	10	FT	10	FT	10	FT
Boom Height, Unit:	30	IN	35	IN	36	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	

## SOYBEAN PREEMERGENCE III

Trial ID: S7017      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**D**

<b>Appl. Equipment:</b>	ATV	
<b>Operating Pressure, Unit:</b>	30	PSI
<b>Nozzle Type:</b>	FLAT FAN	
<b>Nozzle Size:</b>	8004	DG
<b>Nozzle Spacing, Unit:</b>	20	IN
<b>Boom Length, Unit:</b>	10	FT
<b>Boom Height, Unit:</b>	45	IN
<b>Ground Speed, Unit:</b>	4	MPH
<b>Carrier:</b>	WATER	
<b>Spray Volume, Unit:</b>	24	GPA
<b>Propellant:</b>	CO2	

Plant and Soil Science, U of KY  
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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018 Protocol ID: 2007-01-30-13  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU	ERICA	STEME
Pest Name	Marestail	Common chickweed	Purple deadnettel	Marestail	Common chickweed
Crop Code					
BBCH Scale					
Crop Name					
Description					
Rating Date	4-25-07	4-25-07	4-25-07	5-9-07	5-9-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After First/Last Applic.					28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval					1 DP-1
ARM Action Codes					
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	80	75	99	96
1	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
1	AMS		3.7	% V/V	3WK					
1	INTRRO	4	2	LB A/A	3WK					
1	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
1	AMS		3.7	% V/V	LP					
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	80	70	99	96
2	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
2	AMS		3.7	% V/V	3WK					
2	PROWL H20	3.8	0.95	LB A/A	3WK					
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
2	AMS		3.7	% V/V	LP					
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	99	99	99	96
3	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
3	AMS		3.7	% V/V	3WK					
3	VALOR SX	51	0.064	LB A/A	3WK					
3	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
3	AMS		3.7	% V/V	LP					
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	98	98	99	96
4	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
4	AMS		3.7	% V/V	3WK					
4	VALOR XLT	40.3	0.075	LB A/A	3WK					
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
4	AMS		3.7	% V/V	LP					
5	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	88	87	99	92
5	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
5	AMS		3.7	% V/V	3WK					
5	AUTHORITY FIRST	75	0.141	LB A/A	3WK					
5	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
5	AMS		3.7	% V/V	LP					

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018 Protocol ID: 2007-01-30-13  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU	ERICA	STEME
Pest Name	Marestail	Common chickweed	Purple deadnettel	Marestail	Common chickweed
Crop Code					
BBCH Scale					
Crop Name					
Description					
Rating Date	4-25-07	4-25-07	4-25-07	5-9-07	5-9-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After First/Last Applic.					28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval					1 DP-1
ARM Action Codes					
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
6	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	88	90	99	98
6	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
6	AMS		3.7	% V/V	3WK					
6	REFLEX	2	0.25	LB A/A	3WK					
6	DUAL II MAGNUM	7.64	1.075	LB A/A	3WK					
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
6	AMS		3.7	% V/V	LP					
7	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	83	70	99	95
7	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
7	AMS		3.7	% V/V	3WK					
7	KIH-485	60	0.148	LB A/A	3WK					
7	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
7	AMS		3.7	% V/V	LP					
8	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK	99	92	90	99	92
8	WEEDONE LV4	3.8	0.5	LB A/A	3WK					
8	AMS		3.7	% V/V	3WK					
8	AUTHORITY	75	0.25	LB A/A	3WK					
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP					
8	AMS		3.7	% V/V	LP					
	LSD (P=.05)					0.0	4.1	6.4	0.0	4.3
	Standard Deviation					0.0	2.3	3.6	0.0	2.4
	CV					0.0	2.65	4.28	0.0	2.56
	Grand Mean					99.0	88.54	84.79	99.0	95.13
	Replicate F					0.000	0.008	1.613	0.000	3.997
	Replicate Prob(F)					1.0000	0.9925	0.2341	1.0000	0.0423
	Treatment F					0.000	29.168	31.141	0.000	2.577
	Treatment Prob(F)					1.0000	0.0001	0.0001	1.0000	0.0624



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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018 Protocol ID: 2007-01-30-13  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	TAROF	ERICA	CHEAL	AMBTR	
Pest Name	Common dandelion	Marestail	Lambsquarters, common	Giant Ragweed	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Description					moisture 13.5%
Rating Date	5-9-07	6-7-07	6-7-07	6-7-07	10-22-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Days After First/Last Applic.					194 136
Trt-Eval Interval	28 DA-A	57 DA-A	57 DA-A	57 DA-A	
Plant-Eval Interval					167 DP-1
ARM Action Codes					TY1
Number of Decimals					0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	13	
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	3	3	32
1	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
1	AMS		3.7	% V/V	3WK						
1	INTRRO	4	2	LB A/A	3WK						
1	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
1	AMS		3.7	% V/V	LP						
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		96	95	23	13	35
2	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
2	AMS		3.7	% V/V	3WK						
2	PROWL H20	3.8	0.95	LB A/A	3WK						
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
2	AMS		3.7	% V/V	LP						
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	40	20	38
3	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
3	AMS		3.7	% V/V	3WK						
3	VALOR SX	51	0.064	LB A/A	3WK						
3	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
3	AMS		3.7	% V/V	LP						
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	93	87	43
4	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
4	AMS		3.7	% V/V	3WK						
4	VALOR XLT	40.3	0.075	LB A/A	3WK						
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
4	AMS		3.7	% V/V	LP						
5	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	90	63	39
5	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
5	AMS		3.7	% V/V	3WK						
5	AUTHORITY FIRST	75	0.141	LB A/A	3WK						
5	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
5	AMS		3.7	% V/V	LP						

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018 Protocol ID: 2007-01-30-13  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	TAROF	ERICA	CHEAL	AMBTR	
Pest Name	Common dandelion	Marestail	Lambsquarters, common	Giant Ragweed	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Description					moisture 13.5%
Rating Date	5-9-07	6-7-07	6-7-07	6-7-07	10-22-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Days After First/Last Applic.					194 136
Trt-Eval Interval	28 DA-A	57 DA-A	57 DA-A	57 DA-A	
Plant-Eval Interval					167 DP-1
ARM Action Codes					TY1
Number of Decimals					0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	13	
6	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	37	77	44
6	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
6	AMS		3.7	% V/V	3WK						
6	REFLEX	2	0.25	LB A/A	3WK						
6	DUAL II MAGNUM	7.64	1.075	LB A/A	3WK						
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
6	AMS		3.7	% V/V	LP						
7	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	37	13	35
7	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
7	AMS		3.7	% V/V	3WK						
7	KIH-485	60	0.148	LB A/A	3WK						
7	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
7	AMS		3.7	% V/V	LP						
8	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	3WK		99	95	85	20	43
8	WEEDONE LV4	3.8	0.5	LB A/A	3WK						
8	AMS		3.7	% V/V	3WK						
8	AUTHORITY	75	0.25	LB A/A	3WK						
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	LP						
8	AMS		3.7	% V/V	LP						
LSD (P=.05)							3.2	0.0	46.3	33.3	9.1
Standard Deviation							1.8	0.0	26.4	19.0	5.2
CV							1.86	0.0	51.79	51.27	13.4
Grand Mean							98.63	95.0	51.04	37.08	38.6
Replicate F							1.000	0.000	0.538	0.262	2.588
Replicate Prob(F)							0.3927	1.0000	0.5954	0.7730	0.1105
Treatment F							1.000	0.000	4.931	8.970	2.352
Treatment Prob(F)							0.4706	1.0000	0.0055	0.0003	0.0821

Column 10: TY1 = 11.11503\*[11]\*(100-[12])/86.5

Plant and Soil Science, U of KY  
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## NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018 Protocol ID: 2007-01-30-13  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546 **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511 **Initiation Date:** 4-10-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY **Planting Date:** 5-8-07  
**Planting Method:** DRILLED **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM/TRASHY **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL **Emergence Date:** 5-13-07  
**Harvest Date:** 10-22-07 **Harvest Equipment:** COMBINE  
**Harvested Width, Unit:** 4 FT **Harvested Length, Unit:** 36 FT  
**% Standard Moisture:** 13.5

**Pest Description**

**Pest 1 Type:** W **Code:** ERICA *Conyza canadensis*  
**Common Name:** Marestail  
**Pest 2 Type:** W **Code:** STEME *Stellaria media*  
**Common Name:** Common chickweed  
**Pest 3 Type:** W **Code:** LAMPU *Lamium purpureum*  
**Common Name:** Purple deadnettel  
**Pest 4 Type:** W **Code:** TAROF *Taraxacum officinale*  
**Common Name:** Common dandelion  
**Pest 5 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** Lambsquarters, common  
**Pest 6 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant Ragweed

**Site and Design**

**Plot Width, Unit:** 7 FT **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT **Tillage Type:** NO-TILL  
**Replications:** 3 **Study Design:** Randomized Complete Block

Plant and Soil Science, U of KY  
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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018      Protocol ID: 2007-01-30-13  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions****Overall Moisture Conditions:** BELOW NORMAL**Closest Weather Station:** SPINDLETOP**Distance:** 1.5      **Unit:** MI**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	4-11-07	6-8-07
<b>Time of Day:</b>	4 PM	2 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	3 WK	LP
<b>Application Placement:</b>	BROFOL	BROFOL
<b>Applied By:</b>	C H SLACK	C H SLACK
<b>Air Temperature, Unit:</b>	59 F	78 F
<b>% Relative Humidity:</b>	20	65
<b>Wind Velocity, Unit:</b>	4 MPH	3 MPH
<b>Wind Direction:</b>	SW	SSW
<b>Soil Temperature, Unit:</b>	46 F	73 F
<b>Soil Moisture:</b>	ADEQUATE	INADEQUATE
<b>% Cloud Cover:</b>	0	50

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Height, Unit:</b>	8	IN

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Pest 1 Code, Disc., Scale:</b>	ERICA W	ERICA W
<b>Height, Unit:</b>	1	IN 3
<b>Pest 2 Code, Disc., Scale:</b>	STEME W	STEME W
<b>Height, Unit:</b>	4	IN
<b>Pest 3 Code, Disc., Scale:</b>	LAMPU W	LAMPU W
<b>Height, Unit:</b>	4	IN
<b>Pest 4 Code, Disc., Scale:</b>	TAROF W	TAROF W
<b>Height, Unit:</b>	4	IN
<b>Pest 5 Code, Disc., Scale:</b>	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		8 LF
<b>Height, Unit:</b>		3
<b>Pest 6 Code, Disc., Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		4 LF
<b>Height, Unit:</b>		4

## NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S7018      Protocol ID: 2007-01-30-13  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Equipment**

	<b>A</b>		<b>B</b>	
<b>Appl. Equipment:</b>	ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 DG		8004 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	38	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2	

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN PREEMERGENCE II

Trial ID: S7019 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	SETFA	AMBTR
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common	Giant foxtail	Giant Ragweed
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Name	Soybean			Soybean	
Description					
Rating Date	5-22-07	5-22-07	5-22-07	5-22-07	6-5-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	93 DA-A	93 DA-A	93 DA-A	93 DA-A	93 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	CHECK UNTREATED					0	0	0		0	0	0
2	VALOR XLT	40.3	3	OZ/A	PRE	0	99	94		96	0	99
3	VALOR XLT	40.3	4	OZ/A	PRE	0	99	96		99	0	99
4	VALOR XLT	40.3	5	OZ/A	PRE	0	99	96		99	0	99
5	CANOPY	75	5	OZ/A	PRE	0	99	83		99	0	99
6	GANGSTER FR	84	0.6	OZ/A	PRE	0	99	96		96	0	99
6	GANGSTER V	51	3	OZ/A	PRE							
	LSD (P=.05)					0.0	0.0	8.2		4.5	0.0	0.0
	Standard Deviation					0.0	0.0	4.5		2.5	0.0	0.0
	CV					0.0	0.0	5.8		3.05	0.0	0.0
	Grand Mean					0.0	82.5	77.72		81.56	0.0	82.5
	Replicate F					0.000	0.000	0.478		0.224	0.000	0.000
	Replicate Prob(F)					1.0000	1.0000	0.6333		0.8029	1.0000	1.0000
	Treatment F					0.000	0.000	217.741		774.736	0.000	0.000
	Treatment Prob(F)					1.0000	1.0000	0.0001		0.0001	1.0000	1.0000

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN PREEMERGENCE II

Trial ID: S7019 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL		
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common		
Crop Code	GLXMA					GLXMA
BBCH Scale	BSOY					BSOY
Crop Name	Soybean					Soybean
Description						moisture 13.5%
Rating Date	6-5-07	7-9-07	7-9-07	7-9-07	7-9-07	10-22-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	28 28	62 62	62 62	62 62	62 62	167 167
Trt-Eval Interval	93 DA-A	93 DA-A	93 DA-A	93 DA-A	93 DA-A	167 DA-A
Plant-Eval Interval	28 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1	167 DP-1
ARM Action Codes	P	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0	0

  

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	11	12	16
1	CHECK UNTREATED					0	0	0	0	0	1
2	VALOR XLT	40.3	3	OZ/A	PRE	98	0	99	87	98	29
3	VALOR XLT	40.3	4	OZ/A	PRE	98	0	99	85	98	23
4	VALOR XLT	40.3	5	OZ/A	PRE	99	0	99	88	98	27
5	CANOPY	75	5	OZ/A	PRE	99	0	99	82	98	22
6	GANGSTER FR	84	0.6	OZ/A	PRE	96	0	99	85	96	28
6	GANGSTER V	51	3	OZ/A	PRE						
	LSD (P=.05)					3.2	0.0	0.0	11.9	3.5	10.8
	Standard Deviation					1.7	0.0	0.0	6.6	1.9	6.0
	CV					2.13	0.0	0.0	9.23	2.38	27.72
	Grand Mean					81.61	0.0	82.5	71.11	81.17	21.48
	Replicate F					0.294	0.000	0.000	0.226	2.143	0.292
	Replicate Prob(F)					0.7514	1.0000	1.0000	0.8018	0.1681	0.7526
	Treatment F					1587.724	0.000	0.000	84.903	1270.777	9.362
	Treatment Prob(F)					0.0001	1.0000	1.0000	0.0001	0.0001	0.0016

Column 13: TY1 = 11.11503\*[14]\*(100-[15])/86.5

## SOYBEAN PREEMERGENCE II

Trial ID: S7019      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-8-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** MINIMUM-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3      **% OM:** 4      **Texture:** SILT LOAM  
**% Silt:** 63      **pH:** 6.5      **Soil Name:** LANTON  
**% Clay:** 34      **CEC:** 25      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP      **Distance:** 1.25      **Unit:** MI



## SOYBEAN PREEMERGENCE II

Trial ID: S7019      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHARLES H.SLACK  
 Investigator: Charles H Slack

**Application Description****A**

**Application Date:** 5-8-07  
**Time of Day:** 5 PM  
**Application Method:** SPRAY  
**Application Timing:** PRE  
**Application Placement:** BROSOI  
**Applied By:** C H SLACK  
**Air Temperature, Unit:** 79 F  
**% Relative Humidity:** 41  
**Wind Velocity, Unit:** 4 MPH  
**Wind Direction:** NNE  
**Soil Temperature, Unit:** 70 F  
**Soil Moisture:** ADEQUATE  
**% Cloud Cover:** 0

**Crop Stage At Each Application****A**

**Crop 1 Code, BBCH Scale:** GLXMA BSOY

**Pest Stage At Each Application****A**

**Pest 1 Code, Disc., Scale:** SETFA W  
**Pest 2 Code, Disc., Scale:** AMBTR W  
**Pest 3 Code, Disc., Scale:** CHEAL W

**Application Equipment****A**

**Appl. Equipment:** ATV  
**Operating Pressure, Unit:** 30 PSI  
**Nozzle Type:** FLAT FAN  
**Nozzle Size:** 8004 DG  
**Nozzle Spacing, Unit:** 20 IN  
**Boom Length, Unit:** 10 FT  
**Boom Height, Unit:** 30 IN  
**Ground Speed, Unit:** 4 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 24 GPA  
**Propellant:** CO2

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020 Protocol ID: HFM059X4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMBTR	ERICA		SETFA	AMBTR
Pest Name		Giant foxtail	Giant Ragweed	Marestail		Giant foxtail	Giant Ragweed
Crop Code	GLXMA				GLXMA		
BBCH Scale	BSOY				BSOY		
Crop Name	Soybean				Soybean		
Rating Date	5-11-07	5-11-07	5-11-07	5-11-07	6-1-07	6-1-07	6-1-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	BEF. POST	BEF. POST	BEF. POST
Days After First/Last Applic.	14 14	14 14	14 14	14 14	35 0	35 0	35 0
Plant-Eval Interval	3 DP-1	3 DP-1	3 DP-1	3 DP-1	24 DP-1	24 DP-1	24 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	1	2	3	4	5	6	7
1	CHECK UNTREATED					0	0	0	0	0	0	0
2	PREFIX	5.26	2	PT/A	EPP	0	99	98	96	0	99	95
2	GRAMOXONE INTEON	2	40	FL OZ/A	EPP							
2	INDUCE		0.25	% V/V	EPP							
2	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP							
2	AMS		2	% W/V	+MP							
3	SEQUENCE	5.25	40	FL OZ/A	EPP	0	99	99	99	0	99	92
3	AMS		2	% W/V	EPP							
3	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP							
3	AMS		2	% W/V	+MP							
4	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	0	99	96	90	0	99	87
4	INDUCE		0.25	% V/V	EPP							
4	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP							
4	AMS		2	% W/V	MP							
5	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	0	99	96	96	0	99	78
5	INDUCE		0.25	% V/V	EPP							
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	3 TRI							
5	AMS		2	% W/V	3 TRI							
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
5	AMS		2	% W/V	LP							
6	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	0	99	92	92	0	99	80
6	INDUCE		0.25	% V/V	EPP							
6	SEQUENCE	5.25	40	FL OZ/A	3 TRI							
6	AMS		2	% W/V	3 TRI							
7	PREFIX	5.26	1.5	PT/A	EPP	0	99	96	96	0	99	83
7	GRAMOXONE INTEON	2	40	FL OZ/A	EPP							
7	INDUCE		0.25	% V/V	EPP							
7	SEQUENCE	5.25	40	FL OZ/A	3 TRI							
7	AMS		2	% W/V	3 TRI							
8	CHECK UNTREATED					0	0	0	0	0	0	0
LSD (P=.05)						0.0	0.0	3.5	2.9	0.0	0.0	5.9
Standard Deviation						0.0	0.0	2.0	1.7	0.0	0.0	3.4
CV						0.0	0.0	2.78	2.36	0.0	0.0	5.26
Grand Mean						0.0	74.25	72.17	71.21	0.0	74.25	64.38

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020 Protocol ID: HFM059X4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed				
Pest Code		SETFA	AMBTR	ERICA		SETFA	AMBTR				
Pest Name		Giant foxtail	Giant Ragweed	Marestail		Giant foxtail	Giant Ragweed				
Crop Code	GLXMA				GLXMA						
BBCH Scale	BSOY				BSOY						
Crop Name	Soybean				Soybean						
Rating Date	5-11-07	5-11-07	5-11-07	5-11-07	6-1-07	6-1-07	6-1-07				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	BEF. POST	BEF. POST	BEF. POST				
Days After First/Last Applic.	14 14	14 14	14 14	14 14	35 0	35 0	35 0				
Plant-Eval Interval	3 DP-1	3 DP-1	3 DP-1	3 DP-1	24 DP-1	24 DP-1	24 DP-1				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Form Conc	Rate	Growth Stage	1	2	3	4	5	6	7
Replicate F					0.000	0.000	0.384	1.606	0.000	0.000	0.622
Replicate Prob(F)					1.0000	1.0000	0.6883	0.2355	1.0000	1.0000	0.5512
Treatment F					0.000	0.000	1484.658	2058.305	0.000	0.000	421.639
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020 Protocol ID: HFM059X4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	ERICA	SETFA	AMBTR	ERICA
Pest Name	Marestail	Giant foxtail	Giant Ragweed	Marestail	Giant foxtail	Giant Ragweed	Marestail
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	6-1-07	6-29-07	6-29-07	6-29-07	6-29-07	7-30-07	7-30-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEF. POST	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	35 0	63 24	63 24	63 24	63 24	94 20	94 20
Plant-Eval Interval	24 DP-1	52 DP-1	52 DP-1	52 DP-1	52 DP-1	83 DP-1	83 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	8	9	10	11	12	13	14	15
1	CHECK UNTREATED					0	0	0	0	0	0	0	0
2	PREFIX	5.26	2 PT/A	EPP		98	0	99	88	98	0	99	82
2	GRAMOXONE INTEON	2	40 FL OZ/A	EPP									
2	INDUCE		0.25 % V/V	EPP									
2	TOUCHDOWN TOTAL	4.17	24 FL OZ/A	+MP									
2	AMS		2 % W/V	+MP									
3	SEQUENCE	5.25	40 FL OZ/A	EPP		96	0	99	82	96	0	99	80
3	AMS		2 % W/V	EPP									
3	TOUCHDOWN TOTAL	4.17	24 FL OZ/A	+MP									
3	AMS		2 % W/V	+MP									
4	GRAMOXONE INTEON	2	40 FL OZ/A	EPP		92	0	99	80	92	0	99	80
4	INDUCE		0.25 % V/V	EPP									
4	TOUCHDOWN TOTAL	4.17	24 FL OZ/A	MP									
4	AMS		2 % W/V	MP									
5	GRAMOXONE INTEON	2	40 FL OZ/A	EPP		85	0	99	99	99	0	99	99
5	INDUCE		0.25 % V/V	EPP									
5	TOUCHDOWN TOTAL	4.17	24 FL OZ/A	3 TRI									
5	AMS		2 % W/V	3 TRI									
5	TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP									
5	AMS		2 % W/V	LP									
6	GRAMOXONE INTEON	2	40 FL OZ/A	EPP		92	0	99	77	92	0	99	75
6	INDUCE		0.25 % V/V	EPP									
6	SEQUENCE	5.25	40 FL OZ/A	3 TRI									
6	AMS		2 % W/V	3 TRI									
7	PREFIX	5.26	1.5 PT/A	EPP		90	0	99	81	90	0	99	81
7	GRAMOXONE INTEON	2	40 FL OZ/A	EPP									
7	INDUCE		0.25 % V/V	EPP									
7	SEQUENCE	5.25	40 FL OZ/A	3 TRI									
7	AMS		2 % W/V	3 TRI									
8	CHECK UNTREATED					0	0	0	0	0	0	0	0
LSD (P=.05)						9.7	0.0	0.0	9.9	7.5	0.0	0.0	9.3
Standard Deviation						5.5	0.0	0.0	5.6	4.3	0.0	0.0	5.3
CV						8.0	0.0	0.0	8.89	6.04	0.0	0.0	8.59
Grand Mean						68.96	0.0	74.25	63.29	70.71	0.0	74.25	62.08

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020 Protocol ID: HFM059X4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	ERICA	SETFA	AMBTR	
Pest Name	Marestail	Giant foxtail	Giant Ragweed	Marestail	Giant foxtail	Giant Ragweed	
Crop Code	GLXMA				GLXMA		
BBCH Scale	BSOY				BSOY		
Crop Name	Soybean				Soybean		
Rating Date	6-1-07	6-29-07	6-29-07	6-29-07	6-29-07	7-30-07	7-30-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEF. POST	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	35 0	63 24	63 24	63 24	63 24	94 20	94 20
Plant-Eval Interval	24 DP-1	52 DP-1	52 DP-1	52 DP-1	52 DP-1	83 DP-1	83 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	8	9	10	11	12	13	14	15
Replicate F						0.051	0.000	0.000	2.691	0.632	0.000	0.000	2.706
Replicate Prob(F)						0.9507	1.0000	1.0000	0.1026	0.5459	1.0000	1.0000	0.1015
Treatment F						180.225	0.000	0.000	149.073	314.671	0.000	0.000	159.892
Treatment Prob(F)						0.0001	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020 Protocol ID: HFM059X4  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type W Weed  
Pest Code ERICA  
Pest Name Marestail  
Crop Code  
BBCH Scale  
Crop Name  
Rating Date 7-30-07  
Rating Data Type CONTROL  
Rating Unit PERCENT  
Rating Timing 8 WEEK  
Days After First/Last Applic. 94 20  
Plant-Eval Interval 83 DP-1  
ARM Action Codes P  
Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	16
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1	CHECK UNTREATED					0
2	PREFIX	5.26	2	PT/A	EPP	95
2	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	
2	INDUCE		0.25	% V/V	EPP	
2	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP	
2	AMS		2	% W/V	+MP	
3	SEQUENCE	5.25	40	FL OZ/A	EPP	96
3	AMS		2	% W/V	EPP	
3	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP	
3	AMS		2	% W/V	+MP	
4	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	92
4	INDUCE		0.25	% V/V	EPP	
4	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP	
4	AMS		2	% W/V	MP	
5	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	98
5	INDUCE		0.25	% V/V	EPP	
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	3 TRI	
5	AMS		2	% W/V	3 TRI	
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP	
5	AMS		2	% W/V	LP	
6	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	92
6	INDUCE		0.25	% V/V	EPP	
6	SEQUENCE	5.25	40	FL OZ/A	3 TRI	
6	AMS		2	% W/V	3 TRI	
7	PREFIX	5.26	1.5	PT/A	EPP	90
7	GRAMOXONE INTEON	2	40	FL OZ/A	EPP	
7	INDUCE		0.25	% V/V	EPP	
7	SEQUENCE	5.25	40	FL OZ/A	3 TRI	
7	AMS		2	% W/V	3 TRI	
8	CHECK UNTREATED					0

LSD (P=.05) 7.6  
Standard Deviation 4.3  
CV 6.18  
Grand Mean 70.21

## NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020 Protocol ID: HFM059X4  
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type W Weed  
 Pest Code ERICA  
 Pest Name Marestail  
 Crop Code  
 BBCH Scale  
 Crop Name  
 Rating Date 7-30-07  
 Rating Data Type CONTROL  
 Rating Unit PERCENT  
 Rating Timing 8 WEEK  
 Days After First/Last Applic. 94 20  
 Plant-Eval Interval 83 DP-1  
 ARM Action Codes P  
 Number of Decimals 0

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Trt No.	Treatment Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	
						16

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Replicate F 0.401  
 Replicate Prob(F) 0.6774  
 Treatment F 300.287  
 Treatment Prob(F) 0.0001

Plant and Soil Science, U of KY  
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## NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020      Protocol ID: HFM059X4  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-27-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 6.66 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3      **% OM:** 4      **Texture:** SILT LOAM  
**% Silt:** 63      **pH:** 6.5      **Soil Name:** LANTON  
**% Clay:** 34      **CEC:** 25      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP      **Distance:** 1.25      **Unit:** MI



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## NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020      Protocol ID: HFM059X4  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**Application Description**

	A		B		C		D	
<b>Application Date:</b>	4-27-07		6-1-07		6-5-07		7-10-07	
<b>Time of Day:</b>	11:45 AM		10 AM		5PM		10 AM	
<b>Application Method:</b>	SPRAY		SPRAY		SPRAY		SPRAY	
<b>Application Timing:</b>	2WK, EPP		MP, +MP		3TRI		LP	
<b>Application Placement:</b>	BROFOL		BROFOL		BROFOL		BROFOL	
<b>Applied By:</b>	C H SLACK		C H SLACK		C H SLACK		C H SLACK	
<b>Air Temperature, Unit:</b>	56	F	78	F	76	F	76	F
<b>% Relative Humidity:</b>	72		50		66		82	
<b>Wind Velocity, Unit:</b>	8	MPH	3	MPH	4	MPH	6	MPH
<b>Wind Direction:</b>	W		SW		WNW		SW	
<b>Soil Temperature, Unit:</b>	60	F	73	F	80	F	85	F
<b>Soil Moisture:</b>	ADEQUATE		ADEQUATE		ADEQUATE		INADEQUATE	
<b>% Cloud Cover:</b>	90		10		10		90	

**Crop Stage At Each Application**

	A		B		C		D	
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Stage Scale Used:</b>	1 TRI		3 TRI		5 TRI			
<b>Height, Unit:</b>	6		IN	8	IN	12	IN	

**Pest Stage At Each Application**

	A		B		C		D	
<b>Pest 1 Code, Disc., Scale:</b>	SETFA	W	SETFA	W	SETFA	W	SETFA	W
<b>Stage Majority, Percent:</b>	2 LF		2 LF		5 LF			
<b>Height, Unit:</b>	3		IN	3	IN	6	IN	
<b>Pest 2 Code, Disc., Scale:</b>	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>	4 LF		4 LF		8 LF			
<b>Height, Unit:</b>	4		IN	4	IN	6	IN	
<b>Pest 3 Code, Disc., Scale:</b>	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
<b>Stage Majority, Percent:</b>	6 LF		6 LF		12 LF			
<b>Height, Unit:</b>	4		IN	4	IN	7	IN	

**Application Equipment**

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8003 DG		8003 DG		8002 DG	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	6.66 FT		6.66 FT		6.66 FT	
<b>Boom Height, Unit:</b>	30	IN	36	IN	36	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	15	GPA	15	GPA	15	GPA
<b>Propellant:</b>	CO2		CO2		CO2	

## NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S7020      Protocol ID: HFM059X4  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**D**

<b>Appl. Equipment:</b>	ATV	
<b>Operating Pressure, Unit:</b>	30	PSI
<b>Nozzle Type:</b>	FLAT FAN	
<b>Nozzle Size:</b>	8004	DG
<b>Nozzle Spacing, Unit:</b>	20	IN
<b>Boom Length, Unit:</b>	6.66	FT
<b>Boom Height, Unit:</b>	42	IN
<b>Ground Speed, Unit:</b>	4	MPH
<b>Carrier:</b>	WATER	
<b>Spray Volume, Unit:</b>	15	GPA
<b>Propellant:</b>	CO2	

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NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

	W Weed SETFA Giant foxtail	W Weed AMBTR Giant Ragweed	W Weed ERICA Marestail	W Weed SETFA Giant foxtail	W Weed AMBTR Giant Ragweed
Pest Type					
Pest Code					
Pest Name					
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Name	Soybean			Soybean	
Rating Date	5-1-07	5-1-07	5-1-07	5-1-07	6-14-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	58 6
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A
Plant-Eval Interval	-7 DP-1	-7 DP-1	-7 DP-1	-7 DP-1	37 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	98	98	98	0	98	98
1	AMS		3.7	% V/V	3WK							
1	AUTHORITY FIRST	70	3.2	OZ/A	3WK							
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
1	AMS		3.7	% V/V	+45D							
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	87	88	0	99	78
2	AMS		3.7	% V/V	3WK							
2	AUTHORITY MTZ	45	10	OZ/A	3WK							
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
2	AMS		3.7	% V/V	+45D							
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	99	99	0	99	90
3	AMS		3.7	% V/V	3WK							
3	F7119	4	4.8	OZ/A	3WK							
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
3	AMS		3.7	% V/V	+45D							
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	99	99	0	99	88
4	AMS		3.7	% V/V	3WK							
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
4	AMS		3.7	% V/V	+45D							
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	99	99	0	99	98
5	AMS		3.7	% V/V	3WK							
5	CANOPY	75	3	OZ/A	3WK							
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
5	AMS		3.7	% V/V	+45D							
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	98	98	0	95	91
6	AMS		3.7	% V/V	3WK							
6	VALOR XLT	40.3	3	OZ/A	3WK							
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
6	AMS		3.7	% V/V	+45D							
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	91	95	0	96	83
7	AMS		3.7	% V/V	3WK							
7	VALOR SX	51	2	OZ/A	3WK							
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
7	AMS		3.7	% V/V	+45D							

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NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

	W Weed SETFA Giant foxtail	W Weed AMBTR Giant Ragweed	W Weed ERICA Marestail	W Weed SETFA Giant foxtail	W Weed AMBTR Giant Ragweed
Pest Type					
Pest Code					
Pest Name					
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Name	Soybean			Soybean	
Rating Date	5-1-07	5-1-07	5-1-07	5-1-07	6-14-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	58 6
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A
Plant-Eval Interval	-7 DP-1	-7 DP-1	-7 DP-1	-7 DP-1	37 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	92	92	0	96	86
8	AMS		3.7	% V/V	3WK							
8	PREFIX	5.26	2	PT/A	3WK							
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
9	RAGE D-TECH	4	0.75	PT/A	3WK	0	99	91	93	0	99	81
9	COC		1	% V/V	3WK							
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
9	AMS		3.7	% V/V	+45D							
10	RAGE D-TECH	4	0.75	PT/A	3WK	0	98	90	92	0	98	83
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK							
10	AMS		3.7	% V/V	3WK							
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
10	AMS		3.7	% V/V	+45D							
11	WEEDONE LV4	3.8	1	PT/A	3WK	0	94	99	99	0	94	87
11	COC		1	% V/V	3WK							
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
11	AMS		3.7	% V/V	+45D							
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	0	99	96	98	0	99	83
12	AMS		3.7	% V/V	3WK							
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
12	AMS		3.7	% V/V	+45D							
13	WEEDONE LV4	3.8	1	PT/A	3WK	0	99	94	99	0	99	87
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK							
13	AMS		3.7	% V/V	3WK							
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
13	AMS		3.7	% V/V	+45D							
14	CHECK UNTREATED					0	0	0	0	0	0	0
14	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D							
14	AMS		3.7	% V/V	+45D							
LSD (P=.05)						0.0	4.0	7.3	5.8	0.0	5.8	10.4
Standard Deviation						0.0	2.4	4.3	3.5	0.0	3.5	6.2
CV						0.0	2.6	4.94	3.89	0.0	3.8	7.63
Grand Mean						0.0	91.4	87.98	89.14	0.0	90.71	80.86

Plant and Soil Science, U of KY  
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NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMBTR	ERICA		SETFA	AMBTR
Pest Name		Giant foxtail	Giant Ragweed	Marestail		Giant foxtail	Giant Ragweed
Crop Code	GLXMA				GLXMA		
BBCH Scale	BSOY				BSOY		
Crop Name	Soybean				Soybean		
Rating Date	5-1-07	5-1-07	5-1-07	5-1-07	6-14-07	6-7-07	6-7-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	58 6	51 51	51 51
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A
Plant-Eval Interval	-7 DP-1	-7 DP-1	-7 DP-1	-7 DP-1	37 DP-1	30 DP-1	30 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
Replicate F						0.000	0.420	0.281	0.665	0.000	1.301	0.678
Replicate Prob(F)						1.0000	0.6611	0.7573	0.5227	1.0000	0.2893	0.5162
Treatment F						0.000	367.515	104.420	167.197	0.000	172.378	45.327
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
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NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	ERICA
Pest Name	Marestail	Giant foxtail	Giant Ragweed	Marestail
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Date	6-7-07	7-9-07	7-9-07	7-9-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	51 51	83 31	83 31	83 31
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A
Plant-Eval Interval	30 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	11	12
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	98	0	99	99	99
1	AMS		3.7	% V/V	3WK					
1	AUTHORITY FIRST	70	3.2	OZ/A	3WK					
1	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
1	AMS		3.7	% V/V	+45D					
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	88	0	99	95	96
2	AMS		3.7	% V/V	3WK					
2	AUTHORITY MTZ	45	10	OZ/A	3WK					
2	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
2	AMS		3.7	% V/V	+45D					
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	99	0	99	98	99
3	AMS		3.7	% V/V	3WK					
3	F7119	4	4.8	OZ/A	3WK					
3	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
3	AMS		3.7	% V/V	+45D					
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	99	0	99	98	99
4	AMS		3.7	% V/V	3WK					
4	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
4	AMS		3.7	% V/V	+45D					
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	99	0	99	99	99
5	AMS		3.7	% V/V	3WK					
5	CANOPY	75	3	OZ/A	3WK					
5	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
5	AMS		3.7	% V/V	+45D					
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	98	0	99	96	98
6	AMS		3.7	% V/V	3WK					
6	VALOR XLT	40.3	3	OZ/A	3WK					
6	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
6	AMS		3.7	% V/V	+45D					
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	95	0	99	98	98
7	AMS		3.7	% V/V	3WK					
7	VALOR SX	51	2	OZ/A	3WK					
7	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
7	AMS		3.7	% V/V	+45D					

Plant and Soil Science, U of KY  
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NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	ERICA
Pest Name	Marestail	Giant foxtail	Giant Ragweed	Marestail
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Date	6-7-07	7-9-07	7-9-07	7-9-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	51 51	83 31	83 31	83 31
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A
Plant-Eval Interval	30 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	11	12
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	92	0	99	98	99
8	AMS		3.7	% V/V	3WK					
8	PREFIX	5.26	2	PT/A	3WK					
8	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
9	RAGE D-TECH	4	0.75	PT/A	3WK	93	0	99	98	98
9	COC		1	% V/V	3WK					
9	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
9	AMS		3.7	% V/V	+45D					
10	RAGE D-TECH	4	0.75	PT/A	3WK	92	0	99	98	99
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK					
10	AMS		3.7	% V/V	3WK					
10	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
10	AMS		3.7	% V/V	+45D					
11	WEEDONE LV4	3.8	1	PT/A	3WK	99	0	98	98	99
11	COC		1	% V/V	3WK					
11	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
11	AMS		3.7	% V/V	+45D					
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK	98	0	99	98	99
12	AMS		3.7	% V/V	3WK					
12	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
12	AMS		3.7	% V/V	+45D					
13	WEEDONE LV4	3.8	1	PT/A	3WK	99	0	99	98	99
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	3WK					
13	AMS		3.7	% V/V	3WK					
13	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
13	AMS		3.7	% V/V	+45D					
14	CHECK UNTREATED					0	0	0	0	0
14	ROUNDUP ORIGINAL MAX	5.5	22	OZ/A	+45D					
14	AMS		3.7	% V/V	+45D					
LSD (P=.05)						5.8	0.0	1.0	3.8	2.1
Standard Deviation						3.5	0.0	0.6	2.3	1.3
CV						3.89	0.0	0.67	2.51	1.39
Grand Mean						89.14	0.0	91.83	90.57	91.45

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NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	ERICA
Pest Name	Marestail	Giant foxtail	Giant Ragweed	Marestail
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Date	6-7-07	7-9-07	7-9-07	7-9-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	51 51	83 31	83 31	83 31
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A
Plant-Eval Interval	30 DP-1	62 DP-1	62 DP-1	62 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt	Treatment	Form	Rate	Growth						
No.	Name	Conc	Rate	Unit	Stage	8	9	10	11	12
Replicate F						0.665	0.000	1.000	1.258	0.236
Replicate Prob(F)						0.5227	1.0000	0.3816	0.3009	0.7912
Treatment F						167.197	0.000	5502.640	395.210	1290.915
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001



Plant and Soil Science, U of KY  
Weed Science Research

## NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-8-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** ERICA      *Conyza canadensis*  
**Common Name:** Marestalk

**Site and Design**

**Plot Width, Unit:** 6.66 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** MINIMUM-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3      **% OM:** 4      **Texture:** SILT LOAM  
**% Silt:** 63      **pH:** 6.5      **Soil Name:** LANTON  
**% Clay:** 34      **CEC:** 25      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP      **Distance:** 1.25      **Unit:** MI

Plant and Soil Science, U of KY  
Weed Science Research

## NO-TILL SOYBEAN EARLY PREPLANT III

Trial ID: S7021      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	4-17-07	6-8-07
<b>Time of Day:</b>	2 PM	10 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	3WK	+45D
<b>Application Placement:</b>	BROFOL	BROFOL
<b>Applied By:</b>	C H SLACK	C H SLACK
<b>Air Temperature, Unit:</b>	65 F	78 F
<b>% Relative Humidity:</b>	20	78
<b>Wind Velocity, Unit:</b>	4 MPH	4 MPH
<b>Wind Direction:</b>	SW	SSW
<b>Soil Temperature, Unit:</b>	50 F	73 F
<b>Soil Moisture:</b>	ADEQUATE	ADEQUATE
<b>% Cloud Cover:</b>	10	80

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>	2 TRI	
<b>Height, Unit:</b>	8	IN

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Pest 1 Code, Disc., Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>	3 LF	
<b>Height, Unit:</b>	3	IN
<b>Pest 2 Code, Disc., Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	4 LF	
<b>Height, Unit:</b>	4	IN
<b>Pest 3 Code, Disc., Scale:</b>	ERICA W	ERICA W
<b>Height, Unit:</b>	3	IN

**Application Equipment**

	<b>A</b>	<b>B</b>
<b>Appl. Equipment:</b>	ATV	ATV
<b>Operating Pressure, Unit:</b>	30 PSI	30 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8004 DG	8004 DG
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN
<b>Boom Length, Unit:</b>	6.66 FT	6.66 FT
<b>Boom Height, Unit:</b>	30 IN	38 IN
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	24 GPA	24 GPA
<b>Propellant:</b>	CO2	CO2



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NO TILL SOYBEAN EARLY PREPLANT IV

Trial ID: S7022 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Lambsquarters, common	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code	GLXMA			GLXMA
BBCH Scale	BSOY			BSOY
Crop Name	Soybean			Soybean
Rating Date	6-6-07	6-21-07	6-21-07	6-21-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	40 16	55 31	55 31	55 31
Plant-Eval Interval	29 DP-1	44 DP-1	44 DP-1	44 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	7	8	9	10	11	12
1	GLYFOS X-TRA	4	1	LB A/A	2 WK	87	0	99	37	88	0
1	PURSUIT	2	0.0313	LB A/A	2 WK						
1	AMS	100	2.55	LB A/A	2 WK						
2	GLYFOS X-TRA	4	1	LB A/A	2 WK	88	0	99	48	88	0
2	PURSUIT	2	0.047	LB A/A	2 WK						
2	AMS	100	2.55	LB A/A	2 WK						
3	EXTREME	2.17	0.81	LB A/A	2 WK	93	0	99	60	93	0
3	AMS	100	2.55	LB A/A	2 WK						
3	NIS	100	0.25	% V/V	2 WK						
4	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	0	99	82	99	0
4	PURSUIT	2	0.0313	LB A/A	2 WK						
4	AMS	100	2.55	LB A/A	2 WK						
4	GLYFOS X-TRA	4	1	LB A/A	3 WAP						
4	PURSUIT	2	0.0313	LB A/A	3 WAP						
4	AMS	100	2.55	LB A/A	3 WAP						
5	GLYFOS X-TRA	4	1	LB A/A	3 WAP	90	0	99	73	90	0
5	PURSUIT	2	0.0313	LB A/A	3 WAP						
5	AMS	100	2.55	LB A/A	3 WAP						
6	GLYFOS X-TRA	4	1	LB A/A	3 WAP	93	0	99	73	93	0
6	PURSUIT	2	0.047	LB A/A	3 WAP						
6	AMS	100	2.55	LB A/A	3 WAP						
7	EXTREME	2.17	0.81	LB A/A	3 WAP	92	0	99	53	92	0
7	AMS	100	2.55	LB A/A	3 WAP						
7	NIS	100	0.25	% V/V	3 WAP						
8	CHECK					0	0	0	0	0	0
LSD (P=.05)						5.4	0.0	0.0	15.5	6.2	0.0
Standard Deviation						3.1	0.0	0.0	8.8	3.6	0.0
CV						3.81	0.0	0.0	16.56	4.42	0.0
Grand Mean						80.29	0.0	86.63	53.33	80.5	0.0
Replicate F						0.111	0.000	0.000	0.695	0.247	0.000
Replicate Prob(F)						0.8956	1.0000	1.0000	0.5157	0.7844	1.0000
Treatment F						341.297	0.000	0.000	26.351	253.764	0.000
Treatment Prob(F)						0.0001	1.0000	1.0000	0.0001	0.0001	1.0000

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NO TILL SOYBEAN EARLY PREPLANT IV

Trial ID: S7022 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common
Crop Code			
BBCH Scale			
Crop Name			
Rating Date	7-20-07	7-20-07	7-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	84 60	84 60	84 60
Plant-Eval Interval	73 DP-1	73 DP-1	73 DP-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	13	14	15
1	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	17	88
1	PURSUIT	2	0.0313	LB A/A	2 WK			
1	AMS	100	2.55	LB A/A	2 WK			
2	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	33	88
2	PURSUIT	2	0.047	LB A/A	2 WK			
2	AMS	100	2.55	LB A/A	2 WK			
3	EXTREME	2.17	0.81	LB A/A	2 WK	99	50	93
3	AMS	100	2.55	LB A/A	2 WK			
3	NIS	100	0.25	% V/V	2 WK			
4	GLYFOS X-TRA	4	1	LB A/A	2 WK	99	80	99
4	PURSUIT	2	0.0313	LB A/A	2 WK			
4	AMS	100	2.55	LB A/A	2 WK			
4	GLYFOS X-TRA	4	1	LB A/A	3 WAP			
4	PURSUIT	2	0.0313	LB A/A	3 WAP			
4	AMS	100	2.55	LB A/A	3 WAP			
5	GLYFOS X-TRA	4	1	LB A/A	3 WAP	99	73	90
5	PURSUIT	2	0.0313	LB A/A	3 WAP			
5	AMS	100	2.55	LB A/A	3 WAP			
6	GLYFOS X-TRA	4	1	LB A/A	3 WAP	99	70	93
6	PURSUIT	2	0.047	LB A/A	3 WAP			
6	AMS	100	2.55	LB A/A	3 WAP			
7	EXTREME	2.17	0.81	LB A/A	3 WAP	99	50	92
7	AMS	100	2.55	LB A/A	3 WAP			
7	NIS	100	0.25	% V/V	3 WAP			
8	CHECK					0	0	0
LSD (P=.05)						0.0	8.7	6.2
Standard Deviation						0.0	4.9	3.6
CV						0.0	10.59	4.42
Grand Mean						86.63	46.67	80.5
Replicate F						0.000	1.195	0.247
Replicate Prob(F)						1.0000	0.3317	0.7844
Treatment F						0.000	99.122	253.764
Treatment Prob(F)						1.0000	0.0001	0.0001

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## NO TILL SOYBEAN EARLY PREPLANT IV

Trial ID: S7022      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-27-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** PIONEER 4403  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 7.5 IN      **Spacing Within Row, Unit:** 6 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common

**Site and Design**

**Plot Width, Unit:** 6.66 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** MINIMUM-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3      **% OM:** 4      **Texture:** SILT LOAM  
**% Silt:** 63      **pH:** 6.5      **Soil Name:** LANTON  
**% Clay:** 34      **CEC:** 25      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP      **Distance:** 1.25      **Unit:** MI

## NO TILL SOYBEAN EARLY PREPLANT IV

Trial ID: S7022      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Description**

	<b>A</b>	<b>B</b>
Application Date:	4-27-07	5-21-07
Time of Day:	11:30 AM	3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	2WK	3 WAP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	56 F	80 F
% Relative Humidity:	72	34
Wind Velocity, Unit:	8 MPH	3 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	60 F	66 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	90	0

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	2 LF	
Height, Unit:	3	IN

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	1 LF	2 LF
Height, Unit:	1	IN 4 IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	2 LF	4 LF
Height, Unit:	2	IN 4 IN
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	2 LF	8 LF
Height, Unit:	1	IN 4 IN

**Application Equipment**

	<b>A</b>	<b>B</b>
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
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:	30 IN	33 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

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NO-TILL SOYBEAN EARLY PREPLANT V

Trial ID: S7023 Protocol ID: USA-07-122  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR
Pest Name		Giant foxtail	Giant Ragweed	Morning glory		Giant foxtail	Giant Ragweed
Crop Code	GLXMA				GLXMA		
BBCH Scale	BSOY				BSOY		
Crop Name	Soybean				Soybean		
Rating Date	5-15-07	5-15-07	5-15-07	5-15-07	6-19-07	6-19-07	6-19-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	18 18	18 18	18 18	18 18	53 14	53 14	53 14
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	7 DP-1	42 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
1	ENVIVE		2.5	OZ/A	2WK	0	99	93	93	0	98	98
1	WEEDONE LV4	3.8	1	PT/A	2WK							
1	INDUCE		0.25	% V/V	2WK							
1	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
1	AMS	100	2	LB A/A	28D							
2	ENVIVE		3	OZ/A	2WK	0	99	92	95	0	99	99
2	WEEDONE LV4	3.8	1	PT/A	2WK							
2	INDUCE		0.25	% V/V	2WK							
2	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
2	AMS	100	2	LB A/A	28D							
3	ENVIVE		3.5	OZ/A	2WK	0	99	95	95	0	99	99
3	WEEDONE LV4	3.8	1	PT/A	2WK							
3	INDUCE		0.25	% V/V	2WK							
3	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
3	AMS	100	2	LB A/A	28D							
4	ENVIVE		4	OZ/A	2WK	0	99	94	95	0	99	99
4	WEEDONE LV4	3.8	1	PT/A	2WK							
4	INDUCE		0.25	% V/V	2WK							
4	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
4	AMS	100	2	LB A/A	28D							
5	ENVIVE		4.5	OZ/A	2WK	0	99	93	95	0	99	99
5	WEEDONE LV4	3.8	1	PT/A	2WK							
5	INDUCE		0.25	% V/V	2WK							
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
5	AMS	100	2	LB A/A	28D							
6	VALOR XLT	40.3	3	OZ/A	2WK	0	99	95	96	0	99	99
6	WEEDONE LV4	3.8	1	PT/A	2WK							
6	INDUCE		0.25	% V/V	2WK							
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
6	AMS	100	2	LB A/A	28D							
7	VALOR XLT	40.3	4	OZ/A	2WK	0	99	99	99	0	99	99
7	WEEDONE LV4	3.8	1	PT/A	2WK							
7	INDUCE		0.25	% V/V	2WK							
7	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
7	AMS	100	2	LB A/A	28D							



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NO-TILL SOYBEAN EARLY PREPLANT V

Trial ID: S7023 Protocol ID: USA-07-122  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR
Pest Name		Giant foxtail	Giant Ragweed	Morning glory		Giant foxtail	Giant Ragweed
Crop Code	GLXMA				GLXMA		
BBCH Scale	BSOY				BSOY		
Crop Name	Soybean				Soybean		
Rating Date	5-15-07	5-15-07	5-15-07	5-15-07	6-19-07	6-19-07	6-19-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	18 18	18 18	18 18	18 18	53 14	53 14	53 14
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	7 DP-1	42 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
8	VALOR XLT	40.3	5	OZ/A	2WK	0	99	98	98	0	99	99
8	WEEDONE LV4	3.8	1	PT/A	2WK							
8	INDUCE		0.25	% V/V	2WK							
8	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
8	AMS	100	2	LB A/A	28D							
9	AUTHORITY FIRST	70	3.23	OZ/A	2WK	0	99	96	98	0	99	99
9	WEEDONE LV4	3.8	1	PT/A	2WK							
9	INDUCE		0.25	% V/V	2WK							
9	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
9	AMS	100	2	LB A/A	28D							
10	AUTHORITY FIRST	70	6.45	OZ/A	2WK	0	99	99	99	0	99	99
10	WEEDONE LV4	3.8	1	PT/A	2WK							
10	INDUCE		0.25	% V/V	2WK							
10	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
10	AMS	100	2	LB A/A	28D							
11	PREFIX	5.26	1.1	PT/A	2WK	0	99	96	95	0	99	99
11	REFLEX	2	1	PT/A	2WK							
11	WEEDONE LV4	3.8	1	PT/A	2WK							
11	INDUCE		0.25	% V/V	2WK							
11	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
11	AMS	100	2	LB A/A	28D							
12	CANOPY	75	2.25	OZ/A	2WK	0	99	93	93	0	99	99
12	WEEDONE LV4	3.8	1	PT/A	2WK							
12	INDUCE		0.25	% V/V	2WK							
12	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
12	AMS	100	2	LB A/A	28D							
13	CANOPY	75	3	OZ/A	2WK	0	99	93	95	0	99	99
13	WEEDONE LV4	3.8	1	PT/A	2WK							
13	INDUCE		0.25	% V/V	2WK							
13	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
13	AMS	100	2	LB A/A	28D							
14	CANOPY	75	4	OZ/A	2WK	0	99	96	98	0	99	99
14	WEEDONE LV4	3.8	1	PT/A	2WK							
14	INDUCE		0.25	% V/V	2WK							
14	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
14	AMS	100	2	LB A/A	28D							

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Weed Science Research

NO-TILL SOYBREAN EARLY PREPLANT V

Trial ID: S7023 Protocol ID: USA-07-122  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR
Pest Name		Giant foxtail	Giant Ragweed	Morning glory		Giant foxtail	Giant Ragweed
Crop Code	GLXMA				GLXMA		
BBCH Scale	BSOY				BSOY		
Crop Name	Soybean				Soybean		
Rating Date	5-15-07	5-15-07	5-15-07	5-15-07	6-19-07	6-19-07	6-19-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	18 18	18 18	18 18	18 18	53 14	53 14	53 14
Plant-Eval Interval	7 DP-1	7 DP-1	7 DP-1	7 DP-1	42 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
15	ROUNDUP WeatherMAX	5.5	11	OZ/A	2WK	0	99	89	90	0	99	99
15	WEEDONE LV4	3.8	1	PT/A	2WK							
15	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D							
15	AMS	100	2	LB A/A	28D							
16	CHECK UNTREATED					0	0	0	0	0	0	0
	LSD (P=.05)					0.0	0.0	6.7	4.6	0.0	1.0	1.0
	Standard Deviation					0.0	0.0	4.0	2.8	0.0	0.6	0.6
	CV					0.0	0.0	4.53	3.09	0.0	0.62	0.62
	Grand Mean					0.0	92.81	88.83	89.54	0.0	92.73	92.73
	Replicate F					0.000	0.000	0.870	0.591	0.000	1.000	1.000
	Replicate Prob(F)					1.0000	1.0000	0.4294	0.5603	1.0000	0.3798	0.3798
	Treatment F					0.000	0.000	105.158	225.614	0.000	5504.163	5504.163
	Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001

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Weed Science Research

NO-TILL SOYBEAN EARLY PREPLANT V

Trial ID: S7023 Protocol ID: USA-07-122  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Morning glory
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Date	7-19-07	7-19-07	7-19-07	7-19-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	83 44	83 44	83 44	83 44
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12
1	ENVIVE		2.5	OZ/A	2WK	95	0	98	98	95
1	WEEDONE LV4	3.8	1	PT/A	2WK					
1	INDUCE		0.25	% V/V	2WK					
1	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
1	AMS	100	2	LB A/A	28D					
2	ENVIVE		3	OZ/A	2WK	98	0	99	99	98
2	WEEDONE LV4	3.8	1	PT/A	2WK					
2	INDUCE		0.25	% V/V	2WK					
2	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
2	AMS	100	2	LB A/A	28D					
3	ENVIVE		3.5	OZ/A	2WK	98	0	99	99	98
3	WEEDONE LV4	3.8	1	PT/A	2WK					
3	INDUCE		0.25	% V/V	2WK					
3	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
3	AMS	100	2	LB A/A	28D					
4	ENVIVE		4	OZ/A	2WK	96	0	99	99	96
4	WEEDONE LV4	3.8	1	PT/A	2WK					
4	INDUCE		0.25	% V/V	2WK					
4	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
4	AMS	100	2	LB A/A	28D					
5	ENVIVE		4.5	OZ/A	2WK	95	0	99	99	95
5	WEEDONE LV4	3.8	1	PT/A	2WK					
5	INDUCE		0.25	% V/V	2WK					
5	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
5	AMS	100	2	LB A/A	28D					
6	VALOR XLT	40.3	3	OZ/A	2WK	96	0	99	99	96
6	WEEDONE LV4	3.8	1	PT/A	2WK					
6	INDUCE		0.25	% V/V	2WK					
6	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
6	AMS	100	2	LB A/A	28D					
7	VALOR XLT	40.3	4	OZ/A	2WK	99	0	99	99	99
7	WEEDONE LV4	3.8	1	PT/A	2WK					
7	INDUCE		0.25	% V/V	2WK					
7	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
7	AMS	100	2	LB A/A	28D					

Plant and Soil Science, U of KY  
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NO-TILL SOYBREAD EARLY PREPLANT V

Trial ID: S7023 Protocol ID: USA-07-122  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Morning glory
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Date	7-19-07	7-19-07	7-19-07	7-19-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	83 44	83 44	83 44	83 44
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12
8	VALOR XLT	40.3	5	OZ/A	2WK	98	0	99	99	98
8	WEEDONE LV4	3.8	1	PT/A	2WK					
8	INDUCE		0.25	% V/V	2WK					
8	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
8	AMS	100	2	LB A/A	28D					
9	AUTHORITY FIRST	70	3.23	OZ/A	2WK	98	0	99	99	98
9	WEEDONE LV4	3.8	1	PT/A	2WK					
9	INDUCE		0.25	% V/V	2WK					
9	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
9	AMS	100	2	LB A/A	28D					
10	AUTHORITY FIRST	70	6.45	OZ/A	2WK	99	0	99	99	99
10	WEEDONE LV4	3.8	1	PT/A	2WK					
10	INDUCE		0.25	% V/V	2WK					
10	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
10	AMS	100	2	LB A/A	28D					
11	PREFIX	5.26	1.1	PT/A	2WK	95	0	99	99	95
11	REFLEX	2	1	PT/A	2WK					
11	WEEDONE LV4	3.8	1	PT/A	2WK					
11	INDUCE		0.25	% V/V	2WK					
11	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
11	AMS	100	2	LB A/A	28D					
12	CANOPY	75	2.25	OZ/A	2WK	95	0	99	99	95
12	WEEDONE LV4	3.8	1	PT/A	2WK					
12	INDUCE		0.25	% V/V	2WK					
12	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
12	AMS	100	2	LB A/A	28D					
13	CANOPY	75	3	OZ/A	2WK	96	0	99	99	96
13	WEEDONE LV4	3.8	1	PT/A	2WK					
13	INDUCE		0.25	% V/V	2WK					
13	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
13	AMS	100	2	LB A/A	28D					
14	CANOPY	75	4	OZ/A	2WK	98	0	99	99	98
14	WEEDONE LV4	3.8	1	PT/A	2WK					
14	INDUCE		0.25	% V/V	2WK					
14	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
14	AMS	100	2	LB A/A	28D					

Plant and Soil Science, U of KY  
Weed Science Research

NO-TILL SOYBREAD EARLY PREPLANT V

Trial ID: S7023      Protocol ID: USA-07-122  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Morning glory
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Date	7-19-07	7-19-07	7-19-07	7-19-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	83 44	83 44	83 44	83 44
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12
15	ROUNDUP WeatherMAX	5.5	11	OZ/A	2WK	95	0	99	99	95
15	WEEDONE LV4	3.8	1	PT/A	2WK					
15	ROUNDUP WeatherMAX	5.5	11	OZ/A	28D					
15	AMS	100	2	LB A/A	28D					
16	CHECK UNTREATED					0	0	0	0	0
LSD (P=.05)						2.8	0.0	1.0	1.0	2.8
Standard Deviation						1.7	0.0	0.6	0.6	1.7
CV						1.85	0.0	0.62	0.62	1.85
Grand Mean						90.65	0.0	92.73	92.73	90.65
Replicate F						0.118	0.000	1.000	1.000	0.118
Replicate Prob(F)						0.8890	1.0000	0.3798	0.3798	0.8890
Treatment F						623.236	0.000	5504.163	5504.163	623.236
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

## NO-TILL SOYBEAN EARLY PREPLANT V

Trial ID: S7023                      Protocol ID: USA-07-122  
 Location: LEXINGTON, KY            Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546                      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON    **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511    **Initiation Date:** 4-27-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max    Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY    **Planting Date:** 5-8-07  
**Planting Method:** DRILLED    **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM    **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL    **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W    **Code:** SETFA    *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W    **Code:** AMBTR    *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W    **Code:** IPOSS    *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 6.66 FT    **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT    **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3    **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3                      **% OM:** 4                      **Texture:** SILT LOAM  
**% Silt:** 63                      **pH:** 6.5                      **Soil Name:** LANTON  
**% Clay:** 34                      **CEC:** 25                      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP    **Distance:** 1.25    **Unit:** MI

Plant and Soil Science, U of KY  
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## NO-TILL SOYBREAN EARLY PREPLANT V

Trial ID: S7023      Protocol ID: USA-07-122  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Application Description**

	<b>A</b>	<b>B</b>
Application Date:	4-27-07	6-5-07
Time of Day:	11:45 AM	11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	2WK	28DAY
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	56 F	76 F
% Relative Humidity:	72	66
Wind Velocity, Unit:	8 MPH	4 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	60 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	90	80

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	2 TRI	
Height, Unit:	8	IN

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
Pest 1 Code, Disc., Scale:	SETFA W SETFA W	
Stage Majority, Percent:	2 LF	
Height, Unit:	3	IN
Pest 2 Code, Disc., Scale:	AMBTR W AMBTR W	
Stage Majority, Percent:	4 LF	
Height, Unit:	4	IN
Pest 3 Code, Disc., Scale:	IPOSS W IPOSS W	
Stage Majority, Percent:	3 LF	
Height, Unit:	1.5	IN

**Application Equipment**

	<b>A</b>	<b>B</b>
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
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:	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

Plant and Soil Science, U of KY  
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SOYBEAN PREEMERGENCE & POSTEMERGENCE

Trial ID: S7024 Protocol ID: HFM059X4-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR
Pest Name	Giant foxtail	Giant Ragweed	Morning glory	Giant foxtail	Giant Ragweed
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Name	Soybean			Soybean	
Description					
Rating Date	6-15-07	6-15-07	6-15-07	6-15-07	7-3-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	38 10	38 10	38 10	38 10	56 28
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1	56 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
1	CHECK UNTREATED					0	0	0	0	0	0	0
2	PREFIX	5.26	2	PT/A	PRE	0	99	99	98	0	99	99
2	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP							
2	AMS		2	% W/V	+MP							
3	SEQUENCE	5.25	40	FL OZ/A	PRE	0	99	99	99	0	99	98
3	AMS		2	% W/V	PRE							
3	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP							
3	AMS		2	% W/V	+MP							
4	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP	0	99	99	99	0	99	96
4	AMS		2	% W/V	MP							
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	3 TRI	0	98	92	95	0	98	95
5	AMS		2	% W/V	3 TRI							
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
5	AMS		2	% W/V	LP							
6	SEQUENCE	5.25	40	FL OZ/A	3 TRI	0	99	96	90	0	99	93
6	AMS		2	% W/V	3 TRI							
7	PREFIX	5.26	1.5	PT/A	PRE	0	99	96	93	0	99	92
7	SEQUENCE	5.25	40	FL OZ/A	3 TRI							
7	AMS		2	% W/V	3 TRI							
8	CHECK UNTREATED					0	0	0	0	0	0	0
LSD (P=.05)						0.0	1.4	5.1	6.3	0.0	1.4	6.0
Standard Deviation						0.0	0.8	2.9	3.6	0.0	0.8	3.4
CV						0.0	1.1	4.02	4.99	0.0	1.1	4.81
Grand Mean						0.0	74.08	72.63	71.75	0.0	74.08	71.63
Replicate F						0.000	1.000	1.507	0.614	0.000	1.000	0.515
Replicate Prob(F)						1.0000	0.3927	0.2554	0.5552	1.0000	0.3927	0.6082
Treatment F						0.000	9409.537	707.796	460.858	0.000	9409.537	494.553
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001



Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN PREEMERGENCE & POSTEMERGENCE

Trial ID: S7024 Protocol ID: HFM059X4-2  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	IPOSS	SETFA	AMBTR	IPOSS	
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Morning glory	
Crop Code	GLXMA				GLXMA
BBCH Scale	BSOY				BSOY
Crop Name	Soybean				Soybean
Description					moisture 13.5%
Rating Date	7-3-07	8-3-07	8-3-07	8-3-07	8-3-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	56 28	87 24	87 24	87 24	87 24
Plant-Eval Interval	56 DP-1	87 DP-1	87 DP-1	87 DP-1	87 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	8	9	10	11	12	16
1	CHECK UNTREATED					0	0	0	0	0	0
2	PREFIX	5.26	2	PT/A	PRE	98	0	99	99	98	32
2	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP						
2	AMS		2	% W/V	+MP						
3	SEQUENCE	5.25	40	FL OZ/A	PRE	99	0	99	98	99	36
3	AMS		2	% W/V	PRE						
3	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	+MP						
3	AMS		2	% W/V	+MP						
4	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP	99	0	99	96	99	36
4	AMS		2	% W/V	MP						
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	3 TRI	95	0	98	95	95	31
5	AMS		2	% W/V	3 TRI						
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP						
5	AMS		2	% W/V	LP						
6	SEQUENCE	5.25	40	FL OZ/A	3 TRI	90	0	99	93	90	32
6	AMS		2	% W/V	3 TRI						
7	PREFIX	5.26	1.5	PT/A	PRE	93	0	99	92	93	33
7	SEQUENCE	5.25	40	FL OZ/A	3 TRI						
7	AMS		2	% W/V	3 TRI						
8	CHECK UNTREATED					0	0	0	0	0	0
LSD (P=.05)						6.3	0.0	1.4	6.0	6.3	7.3
Standard Deviation						3.6	0.0	0.8	3.4	3.6	4.2
CV						4.99	0.0	1.1	4.81	4.99	16.8
Grand Mean						71.75	0.0	74.08	71.63	71.75	24.91
Replicate F						0.614	0.000	1.000	0.515	0.614	1.449
Replicate Prob(F)						0.5552	1.0000	0.3927	0.6082	0.5552	0.2679
Treatment F						460.858	0.000	9409.537	494.553	460.858	41.024
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Column 13: TY1 = 11.11503\*[14]\*(100-[15])/86.5

## SOYBEAN PREEMERGENCE &amp; POSTEMERGENCE

Trial ID: S7024      Protocol ID: HFM059X4-2  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-8-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** IPOSS      *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 7 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** LANTON  
**% Sand:** 3      **% OM:** 4      **Texture:** SILT LOAM  
**% Silt:** 63      **pH:** 6.5      **Soil Name:** LANTON  
**% Clay:** 34      **CEC:** 25      **Fert. Level:** EXCELLENT

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL  
**Closest Weather Station:** SPINDLETOP      **Distance:** 1.25      **Unit:** MI

## SOYBEAN PREEMERGENCE &amp; POSTEMERGENCE

Trial ID: S7024 Protocol ID: HFM059X4-2  
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

## Application Description

	A		B		C		D	
Application Date:	5-8-07		6-1-07		6-5-07		7-10-07	
Time of Day:	5 PM		11 AM		5PM		10 AM	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		MP, +MP		3 TRI		LP	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL	
Applied By:	C H SLACK		C H SLACK		C H SLACK		C H SLACK	
Air Temperature, Unit:	79	F	78	F	76	F	76	F
% Relative Humidity:	41		78		66		82	
Wind Velocity, Unit:	4	MPH	3	MPH	4	MPH	6	MPH
Wind Direction:	NNE		SSW		WNW		SW	
Soil Temperature, Unit:	70	F	73	F	80	F	85	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		INADEQUATE	
% Cloud Cover:	0		10		80		90	

## Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	1 TRI		1 TRI		3 TRI			
Height, Unit:	4		IN	4	IN	8		IN

## Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	2 LF		2 LF		4 LF			
Height, Unit:	2		IN 2		IN 4			
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	4 LF		4 LF		8 LF			
Height, Unit:	4		IN 4		IN 6		IN	
Pest 3 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W
Stage Majority, Percent:	2 LF		2 LF		6 LF			
Height, Unit:	1		IN 1		IN 4		IN	

## Application Equipment

	A		B		C	
Appl. Equipment:	ATV		ATV		ATV	
Operating Pressure, Unit:	30	PSI	30	PSI	30	PSI
Nozzle Type:	FLAT FAN		FLAT FAN		FLAT FAN	
Nozzle Size:	8003 DG		8003 DG		8003 DG	
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN
Boom Length, Unit:	7	FT	7	FT	7	FT
Boom Height, Unit:	30	IN	34	IN	34	IN
Ground Speed, Unit:	4	MPH	4	MPH	4	MPH
Carrier:	WATER		WATER		WATER	
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA
Propellant:	CO2		CO2		CO2	

## SOYBEAN PREEMERGENCE &amp; POSTEMERGENCE

Trial ID: S7024      Protocol ID: HFM059X4-2  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**D**

<b>Appl. Equipment:</b>	ATV	
<b>Operating Pressure, Unit:</b>	30	PSI
<b>Nozzle Type:</b>	FLAT FAN	
<b>Nozzle Size:</b>	8003	DG
<b>Nozzle Spacing, Unit:</b>	20	IN
<b>Boom Length, Unit:</b>	7	FT
<b>Boom Height, Unit:</b>	38	IN
<b>Ground Speed, Unit:</b>	4	MPH
<b>Carrier:</b>	WATER	
<b>Spray Volume, Unit:</b>	15	GPA
<b>Propellant:</b>	CO2	

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## NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S7025 Protocol ID: 2007-01-30-06  
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	TAROF	ERICA	CHEAL
Pest Name	Marestail	Common chickweed	Common dandelion	Marestail	Lambsquarters, common
Rating Date	5-9-07	5-9-07	5-9-07	6-7-07	6-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After First/Last Applic.	12 12	12 12	12 12	41 41	41 41
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	41 DA-A	41 DA-A

Trt No.	Treatment Name	Form Conc	Rate Rate	Growth Unit	Stage	1	2	3	4	5
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	95	95	47
1	AMS		3.7	% V/V	2WK					
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	99	95	83
2	VALOR SX	51	0.064	LB A/A	2WK					
2	AMS		3.7	% V/V	2WK					
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	98	95	90
3	VALOR SX	51	0.064	LB A/A	2WK					
3	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
3	AMS		3.7	% V/V	2WK					
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	99	95	78
4	VALOR SX	51	0.064	LB A/A	2WK					
4	CLARITY	4	0.25	LB A/A	2WK					
4	AMS		3.7	% V/V	2WK					
5	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	99	99	96	95	50
5	AMS		3.7	% V/V	2WK					
6	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	99	99	96	95	87
6	VALOR SX	51	0.064	LB A/A	2WK					
6	AMS		3.7	% V/V	2WK					
7	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	99	99	99	95	88
7	VALOR SX	51	0.064	LB A/A	2WK					
7	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
7	AMS		3.7	% V/V	2WK					
8	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	99	99	99	95	77
8	VALOR SX	51	0.064	LB A/A	2WK					
8	CLARITY	4	0.25	LB A/A	2WK					
8	AMS		3.7	% V/V	2WK					
9	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	96	95	73
9	INTRRO	4	2	LB A/A	2WK					
9	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
9	AMS		3.7	% V/V	2WK					
10	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	96	95	87
10	PROWL H20	3.8	0.95	LB A/A	2WK					
10	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
10	AMS		3.7	% V/V	2WK					
11	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	99	95	95
11	AUTHORITY FIRST	75	0.141	LB A/A	2WK					
11	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
11	AMS		3.7	% V/V	2WK					

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## NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S7025 Protocol ID: 2007-01-30-06  
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	TAROF	ERICA	CHEAL
Pest Name	Marestail	Common chickweed	Common dandelion	Marestail	Lambsquarters, common
Rating Date	5-9-07	5-9-07	5-9-07	6-7-07	6-7-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After First/Last Applic.	12 12	12 12	12 12	41 41	41 41
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	41 DA-A	41 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
12	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	99	95	95
12	VALOR XLT	40.3	0.075	LB A/A	2WK					
12	AMS		3.7	% V/V	2WK					
13	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	99	95	95
13	VALOR XLT	40.3	0.075	LB A/A	2WK					
13	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
13	AMS		3.7	% V/V	2WK					
14	GRAMOXONE INTEON	2	0.75	LB A/A	2WK	99	99	93	95	75
14	INDUCE		0.125	% V/V	2WK					
14	WEEDONE LV4	3.8	0.5	LB A/A	2WK					
15	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	98	95	92
15	AUTHORITY	75	0.064	LB A/A	2WK					
15	AMS		3.7	% V/V	2WK					
16	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	99	99	96	95	88
16	FIRSTRATE	84	0.016	LB A/A	2WK					
16	AMS		3.7	% V/V	2WK					
	LSD (P=.05)					0.0	0.0	5.9	0.0	19.3
	Standard Deviation					0.0	0.0	3.5	0.0	11.6
	CV					0.0	0.0	3.64	0.0	14.22
	Grand Mean					99.0	99.0	97.29	95.0	81.25
	Replicate F					0.000	0.000	0.171	0.000	3.030
	Replicate Prob(F)					1.0000	1.0000	0.8439	1.0000	0.0633
	Treatment F					0.000	0.000	0.841	0.000	4.820
	Treatment Prob(F)					1.0000	1.0000	0.6287	1.0000	0.0001

## NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S7025      Protocol ID: 2007-01-30-06  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type      W Weed  
 Pest Code      AMBTR  
 Pest Name      Giant Ragweed  
 Rating Date      6-7-07  
 Rating Data Type      CONTROL  
 Rating Unit      PERCENT  
 Days After First/Last Applic.      41 41  
 Trt-Eval Interval      41 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	
1	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	40
1	AMS		3.7	% V/V	2WK	
2	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	73
2	VALOR SX	51	0.064	LB A/A	2WK	
2	AMS		3.7	% V/V	2WK	
3	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	72
3	VALOR SX	51	0.064	LB A/A	2WK	
3	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
3	AMS		3.7	% V/V	2WK	
4	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	64
4	VALOR SX	51	0.064	LB A/A	2WK	
4	CLARITY	4	0.25	LB A/A	2WK	
4	AMS		3.7	% V/V	2WK	
5	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	47
5	AMS		3.7	% V/V	2WK	
6	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	53
6	VALOR SX	51	0.064	LB A/A	2WK	
6	AMS		3.7	% V/V	2WK	
7	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	65
7	VALOR SX	51	0.064	LB A/A	2WK	
7	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
7	AMS		3.7	% V/V	2WK	
8	ROUNDUP ORIGINAL MAX	4.5	1.12	LB AE/A	2WK	72
8	VALOR SX	51	0.064	LB A/A	2WK	
8	CLARITY	4	0.25	LB A/A	2WK	
8	AMS		3.7	% V/V	2WK	
9	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	58
9	INTRRO	4	2	LB A/A	2WK	
9	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
9	AMS		3.7	% V/V	2WK	
10	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	68
10	PROWL H20	3.8	0.95	LB A/A	2WK	
10	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
10	AMS		3.7	% V/V	2WK	
11	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	91
11	AUTHORITY FIRST	75	0.141	LB A/A	2WK	
11	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
11	AMS		3.7	% V/V	2WK	

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## NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S7025      Protocol ID: 2007-01-30-06  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

Pest Type      W Weed  
 Pest Code      AMBTR  
 Pest Name      Giant Ragweed  
 Rating Date      6-7-07  
 Rating Data Type      CONTROL  
 Rating Unit      PERCENT  
 Days After First/Last Applic.      41 41  
 Trt-Eval Interval      41 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	
12	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	95
12	VALOR XLT	40.3	0.075	LB A/A	2WK	
12	AMS		3.7	% V/V	2WK	
13	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	95
13	VALOR XLT	40.3	0.075	LB A/A	2WK	
13	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
13	AMS		3.7	% V/V	2WK	
14	GRAMOXONE INTEON	2	0.75	LB A/A	2WK	75
14	INDUCE		0.125	% V/V	2WK	
14	WEEDONE LV4	3.8	0.5	LB A/A	2WK	
15	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	78
15	AUTHORITY	75	0.064	LB A/A	2WK	
15	AMS		3.7	% V/V	2WK	
16	ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	2WK	92
16	FIRSTRATE	84	0.016	LB A/A	2WK	
16	AMS		3.7	% V/V	2WK	

LSD (P=.05)      22.1  
 Standard Deviation      13.2  
 CV      18.61  
 Grand Mean      71.17

Replicate F      4.317  
 Replicate Prob(F)      0.0225  
 Treatment F      4.751  
 Treatment Prob(F)      0.0001



Plant and Soil Science, U of KY  
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## NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S7025      Protocol ID: 2007-01-30-06  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 4-27-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** A 4404  
**BBCH Scale:** BSOY      **Planting Date:** 5-8-07  
**Planting Method:** DRILLED      **Rate, Unit:** 200000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 61 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** ERICA Conyza canadensis  
**Common Name:** Marestail  
**Pest 2 Type:** W      **Code:** STEME Stellaria media  
**Common Name:** Common chickweed  
**Pest 3 Type:** W      **Code:** TAROF Taraxacum officinale  
**Common Name:** Common dandelion  
**Pest 4 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Lambsquarters, common  
**Pest 5 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant Ragweed

**Site and Design**

**Plot Width, Unit:** 6.66 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** NO-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S7025      Protocol ID: 2007-01-30-06  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.5      Unit: MI

**Application Description**

A

Application Date: 4-27-07  
 Time of Day: 11 AM  
 Application Method: SPRAY  
 Application Timing: 2WK  
 Application Placement: BROFOL  
 Applied By: C H SLACK  
 Air Temperature, Unit: 56 F  
 % Relative Humidity: 72  
 Wind Velocity, Unit: 8 MPH  
 Wind Direction: W  
 Soil Moisture: ADEQUATE  
 % Cloud Cover: 90

**Crop Stage At Each Application**

A

Crop 1 Code, BBCH Scale: GLXMA BSOY

**Pest Stage At Each Application**

A

Pest 1 Code, Disc., Scale: ERICA W  
 Height, Unit: 3 IN  
 Pest 2 Code, Disc., Scale: STEME W  
 Height, Unit: 4 IN  
 Pest 3 Code, Disc., Scale: TAROF W  
 Height, Unit: 3 IN  
 Pest 4 Code, Disc., Scale: CHEAL W  
 Pest 5 Code, Disc., Scale: AMBTR W

**Application Equipment**

A

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

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	5-30-07	5-30-07	5-30-07	5-30-07	5-30-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP
Days After First/Last Applic.	21 0	21 0	21 0	21 0	21 0
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1	21 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	96	72	96	0
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	99	70	95	0
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	86	93	95
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	89	95	95
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	0	0	0	0
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	0	0	0	0
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	5-30-07	5-30-07	5-30-07	5-30-07	5-30-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP
Days After First/Last Applic.	21 0	21 0	21 0	21 0	21 0
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1	21 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5
8	SP17385	2.33	22	OZ/A	28D	0	0	0	0	0
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	0	0	0	0
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	0	0	0	0
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	0	0	0	0
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	1.6	7.1	1.9	0.0
Standard Deviation						0.0	1.0	4.2	1.1	0.0
CV						0.0	2.69	14.46	3.15	0.0
Grand Mean						0.0	35.64	28.76	34.52	17.27
Replicate F						0.000	1.579	0.853	1.564	0.000
Replicate Prob(F)						1.0000	0.2308	0.4409	0.2338	1.0000
Treatment F						0.000	7962.804	281.019	5822.462	0.000
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07	6-6-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP
Days After First/Last Applic.	28 0	28 0	28 0	28 0	28 0
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	6	7	8	9	10
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	99	99	99	99
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	0	0	0	0
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	99	99	99
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	93	93	83
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	99	99	99	99
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	99	99	99	99
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

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Trial ID: S7026 Protocol ID:  
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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07	6-6-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP
Days After First/Last Applic.	28 0	28 0	28 0	28 0	28 0
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	6	7	8	9	10
8	SP17385	2.33	22	OZ/A	28D	0	0	0	0	0
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	0	0	0	0
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	0	0	0	0
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	0	0	0	0
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	1.2	2.1	1.5	5.9
Standard Deviation						0.0	0.7	1.2	0.9	3.5
CV						0.0	1.55	2.74	1.96	7.99
Grand Mean						0.0	44.88	44.42	44.48	43.58
Replicate F						0.000	1.000	1.000	1.000	1.000
Replicate Prob(F)						1.0000	0.3855	0.3855	0.3855	0.3855
Treatment F						0.000	16451.090	5269.723	10354.289	625.213
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	6-11-07	6-11-07	6-11-07	6-11-07	6-11-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE D APP	BEFORE D APP	BEFORE D APP	BEFORE D APP	BEFORE D APP
Days After First/Last Applic.	33 0	33 0	33 0	33 0	33 0
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	11	12	13	14	15
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	98	99	98	96
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	95	94	95	95
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	98	99	98
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	96	90	95	95
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	99	99	96	96
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	99	99	98	96
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

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SOYBEAN POSTEMERGENCE LIBERTY II

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Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	6-11-07	6-11-07	6-11-07	6-11-07	6-11-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE D APP	BEFORE D APP	BEFORE D APP	BEFORE D APP	BEFORE D APP
Days After First/Last Applic.	33 0	33 0	33 0	33 0	33 0
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	11	12	13	14	15
8	SP17385	2.33	22	OZ/A	28D	0	96	95	96	96
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	98	95	98	98
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	0	0	0	0
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	0	0	0	0
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	3.3	4.2	2.8	2.9
Standard Deviation						0.0	1.9	2.5	1.6	1.7
CV						0.0	2.71	3.53	2.3	2.41
Grand Mean						0.0	70.88	69.88	70.42	70.06
Replicate F						0.000	1.289	0.095	0.185	1.186
Replicate Prob(F)						1.0000	0.2975	0.9100	0.8324	0.3259
Treatment F						0.000	1685.823	998.112	2345.778	2124.161
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001



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SOYBEAN POSTEMERGENCE LIBERTY II

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Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	6-20-07	6-20-07	6-20-07	6-20-07	6-20-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE E APP	BEFORE E APP	BEFORE E APP	BEFORE E APP	BEFORE E APP
Days After First/Last Applic.	42 9	42 9	42 9	42 9	42 9
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	16	17	18	19	20
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	98	98	96	95
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	99	96	98	99
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	99	99	99
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	96	99	98
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	96	99	93	95
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	98	98	95	96
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	6-20-07	6-20-07	6-20-07	6-20-07	6-20-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE E APP	BEFORE E APP	BEFORE E APP	BEFORE E APP	BEFORE E APP
Days After First/Last Applic.	42 9	42 9	42 9	42 9	42 9
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	16	17	18	19	20
8	SP17385	2.33	22	OZ/A	28D	0	93	96	98	95
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	96	96	95	96
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	99	98	98	96
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	96	98	96	98
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	3.2	3.9	5.1	4.6
Standard Deviation						0.0	1.9	2.3	3.0	2.7
CV						0.0	2.16	2.6	3.39	3.07
Grand Mean						0.0	88.39	88.52	87.79	87.82
Replicate F						0.000	1.110	2.131	3.403	5.210
Replicate Prob(F)						1.0000	0.3490	0.1448	0.0535	0.0151
Treatment F						0.000	712.536	488.166	287.579	350.803
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001

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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-2-07	7-2-07	7-2-07	7-2-07	7-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE F APP	BEFORE F APP	BEFORE F APP	BEFORE F APP	BEFORE F APP
Days After First/Last Applic.	54 0	54 0	54 0	54 0	54 0
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	21	22	23	24	25
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	98	96	96	91
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	99	96	98	98
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	98	99	99
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	96	95	99	98
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	93	99	93	92
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	95	98	95	92
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-2-07	7-2-07	7-2-07	7-2-07	7-2-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE F APP	BEFORE F APP	BEFORE F APP	BEFORE F APP	BEFORE F APP
Days After First/Last Applic.	54 0	54 0	54 0	54 0	54 0
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	21	22	23	24	25
8	SP17385	2.33	22	OZ/A	28D	0	86	88	98	85
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	88	94	88	93
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	98	95	92	93
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	93	95	85	96
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	4.3	7.2	6.0	8.5
Standard Deviation						0.0	2.5	4.2	3.6	5.0
CV						0.0	2.95	4.85	4.15	5.83
Grand Mean						0.0	85.76	86.64	85.61	85.12
Replicate F						0.000	4.694	1.567	2.375	3.371
Replicate Prob(F)						1.0000	0.0213	0.2332	0.1187	0.0547
Treatment F						0.000	387.559	141.932	196.793	98.806
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001

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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-6-07	7-6-07	7-6-07	7-6-07	7-6-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE G APP	BEFORE G APP	BEFORE G APP	BEFORE G APP	BEFORE G APP
Days After First/Last Applic.	58 0	58 0	58 0	58 0	58 0
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	26	27	28	29	30
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	98	96	96	91
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	99	96	98	98
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	98	99	99
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	96	99	98
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	93	99	93	92
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	95	98	95	92
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-6-07	7-6-07	7-6-07	7-6-07	7-6-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE G APP	BEFORE G APP	BEFORE G APP	BEFORE G APP	BEFORE G APP
Days After First/Last Applic.	58 0	58 0	58 0	58 0	58 0
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	26	27	28	29	30
8	SP17385	2.33	22	OZ/A	28D	0	86	88	98	85
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	88	94	88	93
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	98	95	92	93
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	93	95	85	96
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	3.8	6.7	6.0	8.5
Standard Deviation						0.0	2.3	4.0	3.6	5.0
CV						0.0	2.62	4.57	4.15	5.83
Grand Mean						0.0	85.91	86.79	85.61	85.12
Replicate F						0.000	4.242	2.041	2.375	3.371
Replicate Prob(F)						1.0000	0.0291	0.1561	0.1187	0.0547
Treatment F						0.000	490.315	160.028	196.793	98.806
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001

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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-12-07	7-12-07	7-12-07	7-12-07	7-12-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP
Days After First/Last Applic.	64 0	64 0	64 0	64 0	64 0
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	31	32	33	34	35
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	98	96	96	91
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	99	99	99	99
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	98	99	99
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	96	99	99	99
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	95	99	96	93
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	95	98	96	93
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

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SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-12-07	7-12-07	7-12-07	7-12-07	7-12-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP
Days After First/Last Applic.	64 0	64 0	64 0	64 0	64 0
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	31	32	33	34	35
8	SP17385	2.33	22	OZ/A	28D	0	95	95	98	95
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	93	98	96	98
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	98	95	92	93
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	93	96	87	96
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	4.5	3.6	5.6	7.0
Standard Deviation						0.0	2.6	2.1	3.3	4.1
CV						0.0	3.04	2.37	3.74	4.74
Grand Mean						0.0	87.15	88.39	87.09	86.97
Replicate F						0.000	2.544	0.667	0.830	1.854
Replicate Prob(F)						1.0000	0.1036	0.5242	0.4503	0.1826
Treatment F						0.000	358.969	586.780	239.558	148.275
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001



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## SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-9-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** SG2479 LL  
**BBCH Scale:** BSOY      **Planting Date:** 5-9-07  
**Planting Method:** ROW      **Rate, Unit:** 170000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-14-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** CHEAL      *Chenopodium album*  
**Common Name:** Lambsquarters, common  
**Pest 4 Type:** W      **Code:** IPOSS      *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

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

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELOW NORMAL

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

**Application Description**

	<b>A</b>		<b>B</b>		<b>C</b>		<b>D</b>		<b>E</b>		<b>F</b>	
<b>Application Date:</b>	5-9-07		5-30-07		6-6-07		6-11-07		6-21-07		7-2-07	
<b>Time of Day:</b>	7:30 pm		10 AM		4PM		10 AM		4 PM		10 AM	
<b>Application Method:</b>	SPRAY		SPRAY		SPRAY		SPRAY		SPRAY		SPRAY	
<b>Application Timing:</b>	PRE		21D		28D		32D		42D		53D	
<b>Application Placement:</b>	BROSOI		BROFOL		BROFOL		BROFOL		BROFOL		BROFOL	
<b>Applied By:</b>	C H SLACK		C H SLACK		C H SLACK		C H SLACK		C H SLACK		C H SLACK	
<b>Air Temperature, Unit:</b>	78	F	81	F	81	F	70	F	88	F	66	F
<b>% Relative Humidity:</b>	38		48		39		50		50		54	
<b>Wind Velocity, Unit:</b>	2	MPH	5	MPH	6	MPH	3	MPH	6	MPH	8	MPH
<b>Wind Direction:</b>	SW		SW		SW		NE		SW		SW	
<b>Soil Temperature, Unit:</b>	70	F	80	F	80	F	80	F	85	F	85	F
<b>Soil Moisture:</b>	ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE		INADEQUATE		INADEQUATE	
<b>% Cloud Cover:</b>	20		0		0		40		90		0	
	<b>G</b>		<b>H</b>		<b>I</b>							
<b>Application Date:</b>	7-6-07		7-12-07		7-12-07							
<b>Time of Day:</b>	10 AM		4 PM		4 PM							
<b>Application Method:</b>	SPRAY		SPRAY		SPRAY							
<b>Application Timing:</b>	53D		63D		64D							
<b>Application Placement:</b>	BROFOL		BROFOL		BROFOL							
<b>Applied By:</b>	C H SLACK		C H SLACK		C H SLACK							
<b>Air Temperature, Unit:</b>	88	F	80	F	80	F						
<b>% Relative Humidity:</b>	54		40		40							
<b>Wind Velocity, Unit:</b>	6	MPH	8	MPH	8	MPH						
<b>Wind Direction:</b>	SW		W		W							
<b>Soil Temperature, Unit:</b>	85	F	80	F	80	F						
<b>Soil Moisture:</b>	INADEQUATE		INADEQUATE		INADEQUATE							
<b>% Cloud Cover:</b>	0		0		0							

**Crop Stage At Each Application**

	<b>A</b>		<b>B</b>		<b>C</b>		<b>D</b>		<b>E</b>		<b>F</b>	
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Stage Scale Used:</b>	2 TRI		3 TRI		3 TRI		4 TRI		5 TRI			
<b>Height, Unit:</b>	5		IN	8	IN	9	IN	11	IN	14	IN	
	<b>G</b>		<b>H</b>		<b>I</b>							
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY						
<b>Stage Scale Used:</b>	5 TRI		5 TRI		5 TRI							
<b>Height, Unit:</b>	15	IN	16	IN	16	IN						

Plant and Soil Science, U of KY  
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## SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026                      Protocol ID:  
Location: LEXINGTON, KY            Study Director: CHRLES H. SLACK  
Investigator: Charles H Slack

**Pest Stage At Each Application**

	A	B	C	D	E	F	G
<b>Pest 1 Code, Disc., Scale:</b>	SETFA	W SETFA	W SETFA	W SETFA	W SETFA	W SETFA	W SETFA
<b>Stage Majority, Percent:</b>		5 LF	6 LF	6 LF	7 LF	8 LF	8 LF
<b>Height, Unit:</b>		5	IN 7	IN 7	IN 8	IN 10	IN 10
<b>Pest 2 Code, Disc., Scale:</b>	AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR
<b>Stage Majority, Percent:</b>		6 LF	6 LF	8 LF	10 LF	12 LF	12 LF
<b>Height, Unit:</b>		6	IN 6	IN 8	IN 10	IN 12	IN 12
<b>Pest 3 Code, Disc., Scale:</b>	CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL
<b>Stage Majority, Percent:</b>		4 LF	6 LF	8 LF	12 LF	14 LF	16 LF
<b>Height, Unit:</b>		2	IN 3	IN 4	IN 6	IN 7	IN 8
<b>Pest 4 Code, Disc., Scale:</b>	IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS
<b>Stage Majority, Percent:</b>		1 LF	2 LF	4 LF	4 LF	6 LF	6 LF
<b>Height, Unit:</b>		2	IN 2	IN 3	IN 3	IN 4	IN 4

	H	I
<b>Pest 1 Code, Disc., Scale:</b>	SETFA	W SETFA
<b>Stage Majority, Percent:</b>	9 LF	9 LF
<b>Height, Unit:</b>	11	IN 11
<b>Pest 2 Code, Disc., Scale:</b>	AMBTR	W AMBTR
<b>Stage Majority, Percent:</b>	14 LF	14 LF
<b>Height, Unit:</b>	14	IN 14
<b>Pest 3 Code, Disc., Scale:</b>	CHEAL	W CHEAL
<b>Stage Majority, Percent:</b>	18 LF	18 LF
<b>Height, Unit:</b>	9	IN 9
<b>Pest 4 Code, Disc., Scale:</b>	IPOSS	W IPOSS
<b>Stage Majority, Percent:</b>	8 LF	8 LF
<b>Height, Unit:</b>	5	IN 5

**Application Equipment**

	A	B	C
<b>Appl. Equipment:</b>	ATV	ATV	ATV
<b>Operating Pressure, Unit:</b>	30 PSI	30 PSI	30 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8004 VS	8004 VS	8004 VS
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN	20 IN
<b>Boom Length, Unit:</b>	10 FT	10 FT	10 FT
<b>Boom Height, Unit:</b>	30 IN	35 IN	38 IN
<b>Ground Speed, Unit:</b>	4 MPH	4 MPH	4 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24 GPA	24 GPA	24 GPA
<b>Propellant:</b>	CO2	CO2	CO2

Plant and Soil Science, U of KY  
Weed Science Research

## SOYBEAN POSTEMERGENCE LIBERTY II

Trial ID: S7026      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
 Investigator: Charles H Slack

	<b>D</b>	<b>E</b>	<b>F</b>
<b>Appl. Equipment:</b>	ATV	ATV	ATV
<b>Operating Pressure, Unit:</b>	30            PSI	30            PSI	30            PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8004 VS	8004 VS	8004 VS
<b>Nozzle Spacing, Unit:</b>	20    IN	20    IN	20    IN
<b>Boom Length, Unit:</b>	10    FT	10    FT	10    FT
<b>Boom Height, Unit:</b>	39    IN	41    IN	44    IN
<b>Ground Speed, Unit:</b>	4     MPH	4     MPH	4     MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24            GPA	24            GPA	24            GPA
<b>Propellant:</b>	CO2	CO2	CO2
	<b>G</b>	<b>H</b>	<b>I</b>
<b>Appl. Equipment:</b>	ATV	ATV	ATV
<b>Operating Pressure, Unit:</b>	30            PSI	30            PSI	30            PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8004 VS	8004 VS	8004 VS
<b>Nozzle Spacing, Unit:</b>	20    IN	20    IN	20    IN
<b>Boom Length, Unit:</b>	10    FT	10    FT	10    FT
<b>Boom Height, Unit:</b>	45    IN	46    IN	46    IN
<b>Ground Speed, Unit:</b>	4     MPH	4     MPH	4     MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24            GPA	24            GPA	24            GPA
<b>Propellant:</b>	CO2	CO2	CO2

<b>Date</b>	<b>By</b>	<b>Notes</b>
7-20-07	C.H. SLACK	TRIAL WAS DESTROYED PRIOR TO 84 DAY TREATMENT PER PROTOCOL INSTRUCTIONS

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed SETFA	W Weed AMBTR	W Weed AMACH	W Weed IPOSS	
Pest Code		Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory	
Pest Name	GLXMA					GLXMA
Crop Code	BSOY					BSOY
BBCH Scale						
Crop Name	Soybean					Soybean
Rating Date	5-30-07	5-30-07	5-30-07	5-30-07	5-30-07	6-6-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE C APP
Days After First/Last Applic.	21 0	21 0	21 0	21 0	21 0	28 0
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1	21 DP-1	28 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK UNTREATED					0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	93	0	95	0	0
2	SP17385	2.33	22	OZ/A	21D						
2	AMS	100	8.5	LB/100 GAL	21D						
2	SP17385	2.33	22	OZ/A	42D						
2	AMS	100	8.5	LB/100 GAL	42D						
3	PROWL H20	3.8	3	PT/A	PRE	0	98	0	98	0	0
3	SP17385	2.33	22	OZ/A	32D						
3	AMS	100	8.5	LB/100 GAL	32D						
3	SP17385	2.33	22	OZ/A	53D						
3	AMS	100	8.5	LB/100 GAL	53D						
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	70	95	95	0
4	SP17385	2.33	22	OZ/A	21D						
4	AMS	100	8.5	LB/100 GAL	21D						
4	SP17385	2.33	22	OZ/A	42D						
4	AMS	100	8.5	LB/100 GAL	42D						
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	73	95	95	0
5	LIBERTY	1.67	32	OZ/A	32D						
5	AMS	100	8.5	LB/100 GAL	32D						
5	LIBERTY	1.67	32	OZ/A	53D						
5	AMS	100	8.5	LB/100 GAL	53D						
6	SP17385	2.33	22	OZ/A	21D	0	0	0	0	0	0
6	AMS	100	8.5	LB/100 GAL	21D						
6	SP17385	2.33	22	OZ/A	42D						
6	AMS	100	8.5	LB/100 GAL	42D						
6	SP17385	2.33	22	OZ/A	63D						
6	AMS	100	8.5	LB/100 GAL	63D						
7	SP17385	2.33	29	OZ/A	21D	0	0	0	0	0	0
7	AMS	100	8.5	LB/100 GAL	21D						
7	SP17385	2.33	29	OZ/A	42D						
7	AMS	100	8.5	LB/100 GAL	42D						
7	SP17385	2.33	29	OZ/A	63D						
7	AMS	100	8.5	LB/100 GAL	63D						

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	AMACH	IPOSS							
Pest Name	Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory							
Crop Code	GLXMA				GLXMA						
BBCH Scale	BSOY				BSOY						
Crop Name	Soybean				Soybean						
Rating Date	5-30-07	5-30-07	5-30-07	5-30-07	5-30-07						
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL						
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT						
Rating Timing	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP	BEFORE B APP						
Days After First/Last Applic.	21 0	21 0	21 0	21 0	21 0						
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1	21 DP-1						
ARM Action Codes	P	P	P	P	P						
Number of Decimals	0	0	0	0	0						
Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	1	2	3	4	5	6
8	SP17385	2.33	22	OZ/A	28D	0	0	0	0	0	0
8	AMS	100	8.5	LB/100 GAL	28D						
8	SP17385	2.33	22	OZ/A	56D						
8	AMS	100	8.5	LB/100 GAL	56D						
8	SP17385	2.33	22	OZ/A	84D						
8	AMS	100	8.5	LB/100 GAL	84D						
9	SP17385	2.33	29	OZ/A	28D	0	0	0	0	0	0
9	AMS	100	8.5	LB/100 GAL	28D						
9	SP17385	2.33	29	OZ/A	56D						
9	AMS	100	8.5	LB/100 GAL	56D						
9	SP17385	2.33	29	OZ/A	84D						
9	AMS	100	8.5	LB/100 GAL	84D						
10	SP17385	2.33	43	OZ/A	32D	0	0	0	0	0	0
10	AMS	100	8.5	LB/100 GAL	32D						
10	SP17385	2.33	43	OZ/A	64D						
10	AMS	100	8.5	LB/100 GAL	64D						
11	LIBERTY	1.67	60	OZ/A	32D	0	0	0	0	0	0
11	AMS	100	8.5	LB/100 GAL	32D						
11	LIBERTY	1.67	60	OZ/A	64D						
11	AMS	100	8.5	LB/100 GAL	64D						
LSD (P=.05)						0.0	1.8	3.0	1.2	0.0	0.0
Standard Deviation						0.0	1.1	1.7	0.7	0.0	0.0
CV						0.0	2.99	13.36	2.0	0.0	0.0
Grand Mean						0.0	35.36	13.03	34.79	17.27	0.0
Replicate F						0.000	2.189	1.000	1.000	0.000	0.000
Replicate Prob(F)						1.0000	0.1381	0.3855	0.3855	1.0000	1.0000
Treatment F						0.000	6447.157	832.600	14417.876	0.000	0.000
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	1.0000	1.0000

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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMACH	IPOSS	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory	Giant foxtail
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07	6-11-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE D APP
Days After First/Last Applic.	28 0	28 0	28 0	28 0	33 0
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	33 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12
1	CHECK UNTREATED					0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	96	99	99	99	0	96
2	SP17385	2.33	22	OZ/A	21D						
2	AMS	100	8.5	LB/100 GAL	21D						
2	SP17385	2.33	22	OZ/A	42D						
2	AMS	100	8.5	LB/100 GAL	42D						
3	PROWL H20	3.8	3	PT/A	PRE	0	0	0	0	0	0
3	SP17385	2.33	22	OZ/A	32D						
3	AMS	100	8.5	LB/100 GAL	32D						
3	SP17385	2.33	22	OZ/A	53D						
3	AMS	100	8.5	LB/100 GAL	53D						
4	AUTHORITY FIRST	70	4	OZ/A	PRE	99	94	98	95	0	99
4	SP17385	2.33	22	OZ/A	21D						
4	AMS	100	8.5	LB/100 GAL	21D						
4	SP17385	2.33	22	OZ/A	42D						
4	AMS	100	8.5	LB/100 GAL	42D						
5	AUTHORITY FIRST	70	4	OZ/A	PRE	95	70	92	91	0	95
5	LIBERTY	1.67	32	OZ/A	32D						
5	AMS	100	8.5	LB/100 GAL	32D						
5	LIBERTY	1.67	32	OZ/A	53D						
5	AMS	100	8.5	LB/100 GAL	53D						
6	SP17385	2.33	22	OZ/A	21D	99	99	99	99	0	99
6	AMS	100	8.5	LB/100 GAL	21D						
6	SP17385	2.33	22	OZ/A	42D						
6	AMS	100	8.5	LB/100 GAL	42D						
6	SP17385	2.33	22	OZ/A	63D						
6	AMS	100	8.5	LB/100 GAL	63D						
7	SP17385	2.33	29	OZ/A	21D	99	99	99	99	0	99
7	AMS	100	8.5	LB/100 GAL	21D						
7	SP17385	2.33	29	OZ/A	42D						
7	AMS	100	8.5	LB/100 GAL	42D						
7	SP17385	2.33	29	OZ/A	63D						
7	AMS	100	8.5	LB/100 GAL	63D						

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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMACH	IPOSS	GLXMA	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory		Giant foxtail
Crop Code					GLXMA	
BBCH Scale					BSOY	
Crop Name					Soybean	
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07	6-11-07	6-11-07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE C APP	BEFORE D APP	BEFORE D APP
Days After First/Last Applic.	28 0	28 0	28 0	28 0	33 0	33 0
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	33 DP-1	33 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	7	8	9	10	11	12
8	SP17385	2.33	22	OZ/A	28D	0	0	0	0	0	96
8	AMS	100	8.5	LB/100 GAL	28D						
8	SP17385	2.33	22	OZ/A	56D						
8	AMS	100	8.5	LB/100 GAL	56D						
8	SP17385	2.33	22	OZ/A	84D						
8	AMS	100	8.5	LB/100 GAL	84D						
9	SP17385	2.33	29	OZ/A	28D	0	0	0	0	0	99
9	AMS	100	8.5	LB/100 GAL	28D						
9	SP17385	2.33	29	OZ/A	56D						
9	AMS	100	8.5	LB/100 GAL	56D						
9	SP17385	2.33	29	OZ/A	84D						
9	AMS	100	8.5	LB/100 GAL	84D						
10	SP17385	2.33	43	OZ/A	32D	0	0	0	0	0	0
10	AMS	100	8.5	LB/100 GAL	32D						
10	SP17385	2.33	43	OZ/A	64D						
10	AMS	100	8.5	LB/100 GAL	64D						
11	LIBERTY	1.67	60	OZ/A	32D	0	0	0	0	0	0
11	AMS	100	8.5	LB/100 GAL	32D						
11	LIBERTY	1.67	60	OZ/A	64D						
11	AMS	100	8.5	LB/100 GAL	64D						
LSD (P=.05)						4.3	4.2	1.9	2.8	0.0	5.0
Standard Deviation						2.5	2.4	1.1	1.7	0.0	2.9
CV						5.71	5.81	2.46	3.78	0.0	4.74
Grand Mean						44.39	41.94	44.21	43.88	0.0	62.12
Replicate F						0.486	1.000	1.564	2.128	0.000	0.862
Replicate Prob(F)						0.6221	0.3855	0.2338	0.1453	1.0000	0.4375
Treatment F						1216.051	1204.857	6560.078	2779.744	0.000	838.528
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	1.0000	0.0001



Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMACH	IPOSS	SETFA	AMBTR
Pest Name	Giant Ragweed	Smooth pigweed	Morning glory	Giant foxtail	Giant Ragweed
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Name				Soybean	
Rating Date	6-11-07	6-11-07	6-11-07	6-20-07	6-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE D APP	BEFORE D APP	BEFORE D APP	BEFORE E APP	BEFORE E APP
Days After First/Last Applic.	33 0	33 0	33 0	42 9	42 9
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15	16	17	18
1	CHECK UNTREATED					0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	96	99	99	0	99	98
2	SP17385	2.33	22	OZ/A	21D						
2	AMS	100	8.5	LB/100 GAL	21D						
2	SP17385	2.33	22	OZ/A	42D						
2	AMS	100	8.5	LB/100 GAL	42D						
3	PROWL H20	3.8	3	PT/A	PRE	0	0	0	0	99	98
3	SP17385	2.33	22	OZ/A	32D						
3	AMS	100	8.5	LB/100 GAL	32D						
3	SP17385	2.33	22	OZ/A	53D						
3	AMS	100	8.5	LB/100 GAL	53D						
4	AUTHORITY FIRST	70	4	OZ/A	PRE	99	98	98	0	98	99
4	SP17385	2.33	22	OZ/A	21D						
4	AMS	100	8.5	LB/100 GAL	21D						
4	SP17385	2.33	22	OZ/A	42D						
4	AMS	100	8.5	LB/100 GAL	42D						
5	AUTHORITY FIRST	70	4	OZ/A	PRE	80	93	93	0	99	99
5	LIBERTY	1.67	32	OZ/A	32D						
5	AMS	100	8.5	LB/100 GAL	32D						
5	LIBERTY	1.67	32	OZ/A	53D						
5	AMS	100	8.5	LB/100 GAL	53D						
6	SP17385	2.33	22	OZ/A	21D	99	99	96	0	99	99
6	AMS	100	8.5	LB/100 GAL	21D						
6	SP17385	2.33	22	OZ/A	42D						
6	AMS	100	8.5	LB/100 GAL	42D						
6	SP17385	2.33	22	OZ/A	63D						
6	AMS	100	8.5	LB/100 GAL	63D						
7	SP17385	2.33	29	OZ/A	21D	99	99	99	0	99	99
7	AMS	100	8.5	LB/100 GAL	21D						
7	SP17385	2.33	29	OZ/A	42D						
7	AMS	100	8.5	LB/100 GAL	42D						
7	SP17385	2.33	29	OZ/A	63D						
7	AMS	100	8.5	LB/100 GAL	63D						

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMACH	IPOSS	SETFA	AMBTR
Pest Name	Giant Ragweed	Smooth pigweed	Morning glory	Giant foxtail	Giant Ragweed
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Name				Soybean	
Rating Date	6-11-07	6-11-07	6-11-07	6-20-07	6-20-07
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE D APP	BEFORE D APP	BEFORE D APP	BEFORE E APP	BEFORE E APP
Days After First/Last Applic.	33 0	33 0	33 0	42 9	42 9
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	42 DP-1	42 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	13	14	15	16	17	18
8	SP17385	2.33	22	OZ/A	28D	95	99	98	0	96	93
8	AMS	100	8.5	LB/100 GAL	28D						
8	SP17385	2.33	22	OZ/A	56D						
8	AMS	100	8.5	LB/100 GAL	56D						
8	SP17385	2.33	22	OZ/A	84D						
8	AMS	100	8.5	LB/100 GAL	84D						
9	SP17385	2.33	29	OZ/A	28D	96	99	99	0	99	98
9	AMS	100	8.5	LB/100 GAL	28D						
9	SP17385	2.33	29	OZ/A	56D						
9	AMS	100	8.5	LB/100 GAL	56D						
9	SP17385	2.33	29	OZ/A	84D						
9	AMS	100	8.5	LB/100 GAL	84D						
10	SP17385	2.33	43	OZ/A	32D	0	0	0	0	98	98
10	AMS	100	8.5	LB/100 GAL	32D						
10	SP17385	2.33	43	OZ/A	64D						
10	AMS	100	8.5	LB/100 GAL	64D						
11	LIBERTY	1.67	60	OZ/A	32D	0	0	0	0	99	99
11	AMS	100	8.5	LB/100 GAL	32D						
11	LIBERTY	1.67	60	OZ/A	64D						
11	AMS	100	8.5	LB/100 GAL	64D						
LSD (P=.05)						5.4	1.9	3.7	0.0	3.1	4.3
Standard Deviation						3.2	1.1	2.2	0.0	1.8	2.5
CV						5.29	1.83	3.52	0.0	2.05	2.81
Grand Mean						60.39	62.36	61.91	0.0	89.48	88.97
Replicate F						0.520	0.488	1.401	0.000	1.198	1.770
Replicate Prob(F)						0.6025	0.6208	0.2695	1.0000	0.3225	0.1959
Treatment F						682.221	5634.582	1527.981	0.000	786.438	420.723
Treatment Prob(F)						0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY  
Weed Science Research

SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMACH	IPOSS		SETFA	AMBTR	AMACH
Pest Name	Smooth pigweed	Morning glory		Giant foxtail	Giant Ragweed	Smooth pigweed
Crop Code			GLXMA			
BBCH Scale			BSOY			
Crop Name			Soybean			
Rating Date	6-20-07	6-20-07	7-2-07	7-2-07	7-2-07	7-2-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE E APP	BEFORE E APP	BEFORE F APP	BEFORE F APP	BEFORE F APP	BEFORE F APP
Days After First/Last Applic.	42 9	42 9	54 0	54 0	54 0	54 0
Plant-Eval Interval	42 DP-1	42 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	19	20	21	22	23	24
1	CHECK UNTREATED					0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	99	99	0	99	92	99
2	SP17385	2.33	22	OZ/A	21D						
2	AMS	100	8.5	LB/100 GAL	21D						
2	SP17385	2.33	22	OZ/A	42D						
2	AMS	100	8.5	LB/100 GAL	42D						
3	PROWL H20	3.8	3	PT/A	PRE	99	98	0	99	96	99
3	SP17385	2.33	22	OZ/A	32D						
3	AMS	100	8.5	LB/100 GAL	32D						
3	SP17385	2.33	22	OZ/A	53D						
3	AMS	100	8.5	LB/100 GAL	53D						
4	AUTHORITY FIRST	70	4	OZ/A	PRE	98	98	0	98	92	93
4	SP17385	2.33	22	OZ/A	21D						
4	AMS	100	8.5	LB/100 GAL	21D						
4	SP17385	2.33	22	OZ/A	42D						
4	AMS	100	8.5	LB/100 GAL	42D						
5	AUTHORITY FIRST	70	4	OZ/A	PRE	99	98	0	99	99	99
5	LIBERTY	1.67	32	OZ/A	32D						
5	AMS	100	8.5	LB/100 GAL	32D						
5	LIBERTY	1.67	32	OZ/A	53D						
5	AMS	100	8.5	LB/100 GAL	53D						
6	SP17385	2.33	22	OZ/A	21D	99	98	0	99	96	89
6	AMS	100	8.5	LB/100 GAL	21D						
6	SP17385	2.33	22	OZ/A	42D						
6	AMS	100	8.5	LB/100 GAL	42D						
6	SP17385	2.33	22	OZ/A	63D						
6	AMS	100	8.5	LB/100 GAL	63D						
7	SP17385	2.33	29	OZ/A	21D	99	99	0	99	96	92
7	AMS	100	8.5	LB/100 GAL	21D						
7	SP17385	2.33	29	OZ/A	42D						
7	AMS	100	8.5	LB/100 GAL	42D						
7	SP17385	2.33	29	OZ/A	63D						
7	AMS	100	8.5	LB/100 GAL	63D						

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMACH	IPOSS		SETFA	AMBTR	AMACH
Pest Name	Smooth pigweed	Morning glory		Giant foxtail	Giant Ragweed	Smooth pigweed
Crop Code			GLXMA			
BBCH Scale			BSOY			
Crop Name			Soybean			
Rating Date	6-20-07	6-20-07	7-2-07	7-2-07	7-2-07	7-2-07
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE E APP	BEFORE E APP	BEFORE F APP	BEFORE F APP	BEFORE F APP	BEFORE F APP
Days After First/Last Applic.	42 9	42 9	54 0	54 0	54 0	54 0
Plant-Eval Interval	42 DP-1	42 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	19	20	21	22	23	24
8	SP17385	2.33	22	OZ/A	28D	98	96	0	96	83	94
8	AMS	100	8.5	LB/100 GAL	28D						
8	SP17385	2.33	22	OZ/A	56D						
8	AMS	100	8.5	LB/100 GAL	56D						
8	SP17385	2.33	22	OZ/A	84D						
8	AMS	100	8.5	LB/100 GAL	84D						
9	SP17385	2.33	29	OZ/A	28D	96	96	0	99	92	95
9	AMS	100	8.5	LB/100 GAL	28D						
9	SP17385	2.33	29	OZ/A	56D						
9	AMS	100	8.5	LB/100 GAL	56D						
9	SP17385	2.33	29	OZ/A	84D						
9	AMS	100	8.5	LB/100 GAL	84D						
10	SP17385	2.33	43	OZ/A	32D	99	99	0	98	98	87
10	AMS	100	8.5	LB/100 GAL	32D						
10	SP17385	2.33	43	OZ/A	64D						
10	AMS	100	8.5	LB/100 GAL	64D						
11	LIBERTY	1.67	60	OZ/A	32D	99	98	0	99	99	99
11	AMS	100	8.5	LB/100 GAL	32D						
11	LIBERTY	1.67	60	OZ/A	64D						
11	AMS	100	8.5	LB/100 GAL	64D						
LSD (P=.05)						3.1	4.1	0.0	3.1	7.4	6.1
Standard Deviation						1.8	2.4	0.0	1.8	4.4	3.6
CV						2.05	2.73	0.0	2.05	5.09	4.15
Grand Mean						89.48	88.85	0.0	89.48	85.76	86.09
Replicate F						1.198	3.736	0.000	1.198	1.628	0.406
Replicate Prob(F)						0.3225	0.0418	1.0000	0.3225	0.2213	0.6714
Treatment F						786.438	444.136	0.000	786.438	130.441	195.846
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	AMACH	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Name		Soybean			
Rating Date	7-2-07	7-6-07	7-6-07	7-6-07	7-6-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE F APP	BEFORE G APP	BEFORE G APP	BEFORE G APP	BEFORE G APP
Days After First/Last Applic.	54 0	58 0	58 0	58 0	58 0
Plant-Eval Interval	54 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	25	26	27	28	29	30
1	CHECK UNTREATED					0	0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	99	0	99	92	99	99
2	SP17385	2.33	22	OZ/A	21D						
2	AMS	100	8.5	LB/100 GAL	21D						
2	SP17385	2.33	22	OZ/A	42D						
2	AMS	100	8.5	LB/100 GAL	42D						
3	PROWL H20	3.8	3	PT/A	PRE	98	0	99	96	99	98
3	SP17385	2.33	22	OZ/A	32D						
3	AMS	100	8.5	LB/100 GAL	32D						
3	SP17385	2.33	22	OZ/A	53D						
3	AMS	100	8.5	LB/100 GAL	53D						
4	AUTHORITY FIRST	70	4	OZ/A	PRE	98	0	98	92	93	98
4	SP17385	2.33	22	OZ/A	21D						
4	AMS	100	8.5	LB/100 GAL	21D						
4	SP17385	2.33	22	OZ/A	42D						
4	AMS	100	8.5	LB/100 GAL	42D						
5	AUTHORITY FIRST	70	4	OZ/A	PRE	98	0	99	99	99	98
5	LIBERTY	1.67	32	OZ/A	32D						
5	AMS	100	8.5	LB/100 GAL	32D						
5	LIBERTY	1.67	32	OZ/A	53D						
5	AMS	100	8.5	LB/100 GAL	53D						
6	SP17385	2.33	22	OZ/A	21D	98	0	99	96	89	98
6	AMS	100	8.5	LB/100 GAL	21D						
6	SP17385	2.33	22	OZ/A	42D						
6	AMS	100	8.5	LB/100 GAL	42D						
6	SP17385	2.33	22	OZ/A	63D						
6	AMS	100	8.5	LB/100 GAL	63D						
7	SP17385	2.33	29	OZ/A	21D	99	0	99	96	92	99
7	AMS	100	8.5	LB/100 GAL	21D						
7	SP17385	2.33	29	OZ/A	42D						
7	AMS	100	8.5	LB/100 GAL	42D						
7	SP17385	2.33	29	OZ/A	63D						
7	AMS	100	8.5	LB/100 GAL	63D						

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	AMACH	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Name		Soybean			
Rating Date	7-2-07	7-6-07	7-6-07	7-6-07	7-6-07
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE F APP	BEFORE G APP	BEFORE G APP	BEFORE G APP	BEFORE G APP
Days After First/Last Applic.	54 0	58 0	58 0	58 0	58 0
Plant-Eval Interval	54 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Growth Unit	Stage	25	26	27	28	29	30
8	SP17385	2.33	22	OZ/A	28D	96	0	96	83	94	96
8	AMS	100	8.5	LB/100 GAL	28D						
8	SP17385	2.33	22	OZ/A	56D						
8	AMS	100	8.5	LB/100 GAL	56D						
8	SP17385	2.33	22	OZ/A	84D						
8	AMS	100	8.5	LB/100 GAL	84D						
9	SP17385	2.33	29	OZ/A	28D	96	0	99	92	95	96
9	AMS	100	8.5	LB/100 GAL	28D						
9	SP17385	2.33	29	OZ/A	56D						
9	AMS	100	8.5	LB/100 GAL	56D						
9	SP17385	2.33	29	OZ/A	84D						
9	AMS	100	8.5	LB/100 GAL	84D						
10	SP17385	2.33	43	OZ/A	32D	99	0	98	98	87	99
10	AMS	100	8.5	LB/100 GAL	32D						
10	SP17385	2.33	43	OZ/A	64D						
10	AMS	100	8.5	LB/100 GAL	64D						
11	LIBERTY	1.67	60	OZ/A	32D	98	0	99	94	94	98
11	AMS	100	8.5	LB/100 GAL	32D						
11	LIBERTY	1.67	60	OZ/A	64D						
11	AMS	100	8.5	LB/100 GAL	64D						
LSD (P=.05)						4.1	0.0	3.1	8.7	7.5	3.8
Standard Deviation						2.4	0.0	1.8	5.1	4.4	2.2
CV						2.73	0.0	2.05	6.02	5.17	2.5
Grand Mean						88.85	0.0	89.48	85.33	85.67	88.85
Replicate F						3.736	0.000	1.198	0.887	0.113	6.371
Replicate Prob(F)						0.0418	1.0000	0.3225	0.4273	0.8937	0.0072
Treatment F						444.136	0.000	786.438	93.152	125.980	529.358
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	AMACH	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-12-07	7-12-07	7-12-07	7-12-07	7-12-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP
Days After First/Last Applic.	64 0	64 0	64 0	64 0	64 0
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	31	32	33	34	35
1	CHECK UNTREATED					0	0	0	0	0
2	PROWL H20	3.8	3	PT/A	PRE	0	99	92	99	99
2	SP17385	2.33	22	OZ/A	21D					
2	AMS	100	8.5	LB/100 GAL	21D					
2	SP17385	2.33	22	OZ/A	42D					
2	AMS	100	8.5	LB/100 GAL	42D					
3	PROWL H20	3.8	3	PT/A	PRE	0	99	99	99	99
3	SP17385	2.33	22	OZ/A	32D					
3	AMS	100	8.5	LB/100 GAL	32D					
3	SP17385	2.33	22	OZ/A	53D					
3	AMS	100	8.5	LB/100 GAL	53D					
4	AUTHORITY FIRST	70	4	OZ/A	PRE	0	98	92	93	98
4	SP17385	2.33	22	OZ/A	21D					
4	AMS	100	8.5	LB/100 GAL	21D					
4	SP17385	2.33	22	OZ/A	42D					
4	AMS	100	8.5	LB/100 GAL	42D					
5	AUTHORITY FIRST	70	4	OZ/A	PRE	0	99	99	99	98
5	LIBERTY	1.67	32	OZ/A	32D					
5	AMS	100	8.5	LB/100 GAL	32D					
5	LIBERTY	1.67	32	OZ/A	53D					
5	AMS	100	8.5	LB/100 GAL	53D					
6	SP17385	2.33	22	OZ/A	21D	0	99	96	89	98
6	AMS	100	8.5	LB/100 GAL	21D					
6	SP17385	2.33	22	OZ/A	42D					
6	AMS	100	8.5	LB/100 GAL	42D					
6	SP17385	2.33	22	OZ/A	63D					
6	AMS	100	8.5	LB/100 GAL	63D					
7	SP17385	2.33	29	OZ/A	21D	0	99	96	95	99
7	AMS	100	8.5	LB/100 GAL	21D					
7	SP17385	2.33	29	OZ/A	42D					
7	AMS	100	8.5	LB/100 GAL	42D					
7	SP17385	2.33	29	OZ/A	63D					
7	AMS	100	8.5	LB/100 GAL	63D					

Plant and Soil Science, U of KY  
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SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027 Protocol ID:  
Location: LEXINGTON, KY Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	AMACH	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Smooth pigweed	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Date	7-12-07	7-12-07	7-12-07	7-12-07	7-12-07
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP	BEFORE H APP
Days After First/Last Applic.	64 0	64 0	64 0	64 0	64 0
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	31	32	33	34	35
8	SP17385	2.33	22	OZ/A	28D	0	96	96	98	96
8	AMS	100	8.5	LB/100 GAL	28D					
8	SP17385	2.33	22	OZ/A	56D					
8	AMS	100	8.5	LB/100 GAL	56D					
8	SP17385	2.33	22	OZ/A	84D					
8	AMS	100	8.5	LB/100 GAL	84D					
9	SP17385	2.33	29	OZ/A	28D	0	99	96	98	98
9	AMS	100	8.5	LB/100 GAL	28D					
9	SP17385	2.33	29	OZ/A	56D					
9	AMS	100	8.5	LB/100 GAL	56D					
9	SP17385	2.33	29	OZ/A	84D					
9	AMS	100	8.5	LB/100 GAL	84D					
10	SP17385	2.33	43	OZ/A	32D	0	98	98	93	99
10	AMS	100	8.5	LB/100 GAL	32D					
10	SP17385	2.33	43	OZ/A	64D					
10	AMS	100	8.5	LB/100 GAL	64D					
11	LIBERTY	1.67	60	OZ/A	32D	0	99	96	94	98
11	AMS	100	8.5	LB/100 GAL	32D					
11	LIBERTY	1.67	60	OZ/A	64D					
11	AMS	100	8.5	LB/100 GAL	64D					
LSD (P=.05)						0.0	3.1	6.3	6.5	3.3
Standard Deviation						0.0	1.8	3.7	3.8	1.9
CV						0.0	2.05	4.27	4.41	2.17
Grand Mean						0.0	89.48	87.3	87.0	89.12
Replicate F						0.000	1.198	0.068	0.722	4.398
Replicate Prob(F)						1.0000	0.3225	0.9347	0.4981	0.0261
Treatment F						0.000	786.438	182.456	171.467	703.898
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001



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## SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHARLES H. SLACK  
Investigator: Charles H Slack

**General Trial Information**

**Study Director:** CHARLES H. SLACK  
**Affiliation:** UNIVERSITY OF KENTUCKY  
**Postal Code:** 40546      **E-mail:** cslack@uky.edu  
**Investigator:** Charles H Slack

**Trial Location**

**City:** LEXINGTON      **Trial Status:** COMPLETE  
**State/Prov.:** KENTUCKY  
**Postal Code:** 40511      **Initiation Date:** 5-9-07  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max      Soybean  
**Variety:** SG2479 LL  
**BBCH Scale:** BSOY      **Planting Date:** 5-9-07  
**Planting Method:** DRILLED      **Rate, Unit:** 170000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 7.5 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 63 F  
**Soil Moisture:** NORMAL      **Emergence Date:** 5-13-07

**Pest Description**

**Pest 1 Type:** W      **Code:** SETFA      *Setaria faberi*  
**Common Name:** Giant Foxtail  
**Pest 2 Type:** W      **Code:** AMBTR      *Ambrosia trifida*  
**Common Name:** Giant Ragweed  
**Pest 3 Type:** W      **Code:** AMACH      *Amaranthus hybridus*  
**Common Name:** Smooth pigweed  
**Pest 4 Type:** W      **Code:** IPOSS      *Ipomoea sp.*  
**Common Name:** Morning glory

**Site and Design**

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 44 FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

**Soil Description**

**Description Name:** MAURY  
**% Sand:** 6      **% OM:** 2.6      **Texture:** SILT LOAM  
**% Silt:** 62      **pH:** 6.4      **Soil Name:** MAURY  
**% Clay:** 32      **CEC:** 17      **Fert. Level:** EXCELLENT

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## SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027      Protocol ID:  
 Location: LEXINGTON, KY      Study Director: CHRLES H.SLACK  
 Investigator: Charles H Slack

**Moisture and Weather Conditions**

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.5

Unit: MI

**Application Description**

	A		B		C		D		E		F	
Application Date:	5-9-07		5-30-07		6-6-07		6-11-07		6-21-07		7-2-07	
Time of Day:	8:00 pm		10 AM		4PM		10 AM		4 PM		10 AM	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		21D		28D		32D		42D		53D	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL		BROFOL		BROFOL	
Applied By:	C H SLACK		C H SLACK		C H SLACK		C H SLACK		F		C H SLACK	
Air Temperature, Unit:	78	F	81	F	78	F	70	F	88	F	66	F
% Relative Humidity:	38		48		39		50		50		54	
Wind Velocity, Unit:	2	MPH	5	MPH	6	MPH	3	MPH	6	MPH	8	MPH
Wind Direction:	SW		SW		SW		NE		SW		SW	
Soil Temperature, Unit:	70	F	80	F	80	F	80	F	85	F	85	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE		INADEQUATE		INADEQUATE	
% Cloud Cover:	20		0		0		40		10		0	
	G		H		I							
Application Date:	7-6-07		7-12-07		7-12-07							
Time of Day:	10 AM		4 PM		4 PM							
Application Method:	SPRAY		SPRAY		SPRAY							
Application Timing:	56D		63D		64D							
Application Placement:	BROFOL		BROFOL		BROFOL							
Applied By:	C H SLACK		C H SLACK		C H SLACK							
Air Temperature, Unit:	85	F	80	F	80	F						
% Relative Humidity:	60		40		40							
Wind Velocity, Unit:	6	MPH	8	MPH	8	MPH						
Wind Direction:	SW		W		W							
Soil Temperature, Unit:	85	F	80	F	80	F						
Soil Moisture:	INADEQUATE		INADEQUATE		INADEQUATE							
% Cloud Cover:	0		0		0							

**Crop Stage At Each Application**

	A		B		C		D		E		F	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	2 TRI		3 TRI		3 TRI		4 TRI		5 TRI			
Height, Unit:	5		IN	8	IN	9	IN	11	IN	14	IN	
	G		H		I							
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY						
Stage Scale Used:	5 TRI		6 TRI		6 TRI							
Height, Unit:	15	IN	16	IN	16	IN						

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## SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027      Protocol ID:  
Location: LEXINGTON, KY      Study Director: CHRLES H.SLACK  
Investigator: Charles H Slack

## Pest Stage At Each Application

	A		B		C		D		E		F		G	
<b>Pest 1 Code, Disc., Scale:</b>	SETFA	W	SETFA	W	SETFA	W	SETFA	W	SETFA	W	SETFA	W	SETFA	W
<b>Stage Majority, Percent:</b>	1 LF		3 LF		4 LF		4 LF		5 LF		6 LF		6 LF	
<b>Height, Unit:</b>	1	IN	2	IN	3	IN	4	IN	5	IN	6	IN	7	IN
<b>Pest 2 Code, Disc., Scale:</b>	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>	2 LF		4 LF		4 LF		6 LF		8 LF		10 LF		10 LF	
<b>Height, Unit:</b>	3	IN	4	IN	5	IN	6	IN	7	IN	8	IN	8	IN
<b>Pest 3 Code, Disc., Scale:</b>	AMACH	W	AMACH	W	AMACH	W	AMACH	W	AMACH	W	AMACH	W	AMACH	W
<b>Stage Majority, Percent:</b>	2 LF		4 LF		6 LF		8 LF		10 LF		12 LF		12 LF	
<b>Height, Unit:</b>	1	IN	3	IN	4	IN	5	IN	6	IN	7	IN	7	IN
<b>Pest 4 Code, Disc., Scale:</b>	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W
<b>Stage Majority, Percent:</b>	COTY		2 LF		3 LF		4 LF		6 LF		8 LF		8 LF	
<b>Height, Unit:</b>	1	IN	2	IN	3	IN	4	IN	5	IN	6	IN	6	IN
	<b>H</b>		<b>I</b>											
<b>Pest 1 Code, Disc., Scale:</b>	SETFA	W	SETFA	W										
<b>Stage Majority, Percent:</b>	7 LF		7 LF											
<b>Height, Unit:</b>	8	IN	8	IN										
<b>Pest 2 Code, Disc., Scale:</b>	AMBTR	W	AMBTR	W										
<b>Stage Majority, Percent:</b>	12 LF		12 LF											
<b>Height, Unit:</b>	10	IN	10	IN										
<b>Pest 3 Code, Disc., Scale:</b>	AMACH	W	AMACH	W										
<b>Stage Majority, Percent:</b>	14 LF		14 LF											
<b>Height, Unit:</b>	8	IN	8	IN										
<b>Pest 4 Code, Disc., Scale:</b>	IPOSS	W	IPOSS	W										
<b>Stage Majority, Percent:</b>	10 LF		10 LF											
<b>Height, Unit:</b>	7	IN	7	IN										

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	ATV		ATV		ATV	
<b>Operating Pressure, Unit:</b>	30	PSI	30	PSI	30	PSI
<b>Nozzle Type:</b>	FLAT FAN		FLAT FAN		FLAT FAN	
<b>Nozzle Size:</b>	8004 VS		8004 VS		8004 VS	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN	20	IN
<b>Boom Length, Unit:</b>	10	FT	10	FT	10	FT
<b>Boom Height, Unit:</b>	30	IN	35	IN	38	IN
<b>Ground Speed, Unit:</b>	4	MPH	4	MPH	4	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	24	GPA	24	GPA	24	GPA
<b>Propellant:</b>	CO2		CO2		CO2	

## SOYBEAN POSTEMERGENCE LIBERTY III

Trial ID: S7027      Protocol ID:  
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	<b>D</b>	<b>E</b>	<b>F</b>
<b>Appl. Equipment:</b>	ATV	ATV	ATV
<b>Operating Pressure, Unit:</b>	30            PSI	30            PSI	30            PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8004 VS	8004 VS	8004 VS
<b>Nozzle Spacing, Unit:</b>	20    IN	20    IN	20    IN
<b>Boom Length, Unit:</b>	10    FT	10    FT	10    FT
<b>Boom Height, Unit:</b>	39    IN	41    IN	44    IN
<b>Ground Speed, Unit:</b>	4      MPH	4      MPH	4      MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24            GPA	24            GPA	24            GPA
<b>Propellant:</b>	CO2	CO2	CO2
	<b>G</b>	<b>H</b>	<b>I</b>
<b>Appl. Equipment:</b>	ATV	ATV	ATV
<b>Operating Pressure, Unit:</b>	30            PSI	30            PSI	30            PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8004 VS	8004 VS	8004 VS
<b>Nozzle Spacing, Unit:</b>	20    IN	20    IN	20    IN
<b>Boom Length, Unit:</b>	10    FT	10    FT	10    FT
<b>Boom Height, Unit:</b>	45    IN	46    IN	46    IN
<b>Ground Speed, Unit:</b>	4      MPH	4      MPH	4      MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	24            GPA	24            GPA	24            GPA
<b>Propellant:</b>	CO2	CO2	CO2

<b>Date</b>	<b>By</b>	<b>Notes</b>
7-20-07	C.H. SLACK	TRIAL WAS DESTROYED PRIOR TO 84 DAY TREATMENT PER PROTOCOL INSTRUCTIONS