



2008

Herbicide Evaluation Trials

Charles H. Slack and William W. Witt

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
AGRIDEX	CROP OIL CONCENTRATE	HELENA
AMS	AMMONIUM SULFATE	CLEAN CROP
AUTHORITY	SULFENTRAZONE	FMC
AUTHORITY ASSIST	SULFENTRAZONE + IMAZETHAPYR	FMC
AUTHORITY FIRST	SULFENTRAZONE + CLORANSULAM	FMC
AUTHORITY MTZ	SULFENTRAZONE + METRIBUZIN	FMC
BALANCE FLEXX HERBICIDE	ISOXAFLUTOLE	BAYER
BALANCE PRO	ISOXAFLUTOLE	BAYER
BANVEL	DICAMBA	MICRO FLO
BAS 781		BASF
BAS 804		BASF
BASAGRAN	SODIUM SALT OF BENTAZON	BASF
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	SYNGENTA
BOUNDARY	S-METOLACHLOR + METRIBUZIN	SYNGENTA
BUTYRAC 200	2,4-D BUTYRIC ACID	BASF
CADET	FLUTHIACET-METHYL	FMC
CALLISTO	MESOTRIONE	SYNGENTA
CANOPY	METRIBUZIN + CHLORIMURON ETHYL	DUPONT
CANOPY EX	CHLORIMURON + TRIBENURON	DUPONT
CAPRENO HERBICIDE	TEMBOTRIONE + THIENCARBAZONE-METHYL	BAYER
CINCH ATZ	S-METOLACHLOR + ATRAZINE	DUPONT
CLARITY	DIGLYCOLAMINE SALT OF DICAMBA	BASF
CLASSIC	CHLORIMURON	DUPONT
COBRA	LACTOFEN	VALENT
CORVUS HERBICIDE	ISOXAFLUTOLE + THIENCARBAZONE-METHYL	BAYER
CROP OIL CONCENTRATE (COC)		LOVELAND

HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA
DURANGO	GLYPHOSATE	DOW AGROSCIENCE
DURANGO DMA	GLYPHOSATE	DOW AGROSCIENCE
ENVIVE	FLUMIOXAZIN + THIFENSULFURON	DUPONT
EXTREME	IMAZETHAPYR + GLYPHOSATE	BASF
FIRSTRATE	CLORANSULAM	DOW AGROSCIENCE
FLEXSTAR	FOMESAFEN + SURFACTANT	SYNGENTA
GANGSTER FR	CLORANSULAM	VALENT
GANGSTER V	FLUMIOXAZIN	VALENT
GRAMOXONE INTEON	PARAQUAT	SYNGENTA
GWN-3041		GOWAN
GWN-3124		GOWAN
GWN-3125		GOWAN
HALEX GT	GLYPHOSATE (PS) + MESOTRIONE + s-METOLACHLOR	SYNGENTA
HARMONY GT XP	THIFENSULFURON-METHYL	DUPONT
HARNESS	ACETOCHLOR	MONSANTO
HARNESS XTRA	ACETOCHLOR + ATRAZINE + MON13900	MONSANTO
IGNITE 280	GLUFOSINATE AMMONIUM	BAYER
IMPACT	TOPRAMEZONE	AMVAC
INTRRO	ALACHLOR	MONSANTO
INDUCE	SURFACTANT	HELENA
KIH-485	KIH-485	KUMIAI CHEMICAL
KIXOR	BAS 800	BASF
LAUDIS	TEMBOTRIONE	BAYER
LEXAR	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIQUID N	28% NITROGEN	
LUMAX	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MSO	METHYLATED SEED OIL	LOVELAND
NIC-IT	NICOSULFURON	CHEMINOVA
OUTLOOK	DIMETHENAMID-P	BASF

HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
PARALLEL	METOLACHLOR	MANA
PARALLEL PLUS	METOLACHLOR + ATRAZINE	MANA
PERMIT	HALOSULFURON-METHYL	GOWAN
PREFIX	S-METOLACHLOR + BENOXACOR	SYNGENTA
PREQUEL	RIMSULFURON + ISOXAFLUTOLE	DUPONT
PROWL H2O	PENDIMETHALIN	BASF
PURSUIT	IMAZETHAPYR	BASF
RAGE D-TECH	CARFENTRAZONE-ETHYL + 2,4-D	FMC
RAPTOR	IMAZAMOX	BASF
REQUIRE Q	RIMSULFURON + DICAMBA	DUPONT
RESOLVE Q	RIMSULFURON + THIFENSULFURON-METHYL + SAFENER	DUPONT
RESOURCE	FLUMICLORAC PENTYL	VALENT
ROUNDUP ORIGINAL MAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP POWERMAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP WEATHER MAX	GLYPHOSATE + ADJUVANT (POTASSIUM SALT)	MONSANTO
SCEPTER	IMAZAQUIN	BASF
SENCOR	METRIBUZIN	BAYER
SEQUENCE	GLYPHOSATE + S-METOLACHLOR	SYNGENTA
SONIC	SULFENTRAZONE + CLORANSULAM-METHYL	DOW AGROSCIENCE
STALWART XTRA	METOLACHLOR + ATRAZINE	SIPCAM
STATUS	DIFLUFENZOPYR + DICAMBA	BASF
STEADFAST Q	NICOSULFURON + RIMSULFURON + SAFENER	DUPONT
SURESTART	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SYNCHRONY XP	CHLORIMURON + THIFENSULFURON	DUPONT
TACKLE	GLYPHOSATE	CHEMINOVA
TOUCHDOWN Total	GLYPHOSATE	SYNGENTA
UAN 28%	28% NITROGEN	
ULTRA BLAZER	ACIFLUORFEN	UNITED PHOSPHORUS
UNITY	THIFENSULFURON-METHYL	GOWAN
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

45DBP	45 DAYS BEFORE PLANTING
30DBP	30 DAYS BEFORE PLANTING
21DBP	21 DAYS BEFORE PLANTING
14DBP	14 DAYS BEFORE PLANTING
7DBP	7 DAYS BEFORE PLANTING
2WK	2 WEEKS BEFORE PLANTING
7DAY	7 DAYS BEFORE PLANTING
EPP	EARLY PRE PLANT
PRE	PREEMERGENCE
SEEDTRTS	SEED TREATMENTS

POSTEMERGENCE

EP	EARLY POSTEMERGENCE, WEEDS 0-2"
MP	MID-POSTEMERGENCE, WEEDS 2-4"
+MP, ++MP	MID-POSTEMERGENCE, FOLLOWING A PREEMERGENT
LMP	LATE MID-POSTEMERGENCE 3-5" WEEDS
LP	LATE POSTEMERGENCE, WEEDS 4-6"
4"W	4 INCH WEEDS
6"W	6 INCH WEEDS
3-4 LFC	3-4 LEAF CORN
V2	8 INCH CORN, 4LF
MP, V2	MID-POSTEMERGENCE, UP TO 8 INCH CORN
V8	24 INCH CORN, 10LF
2WAP	2 WEEKS AFTER PLANTING
2TRI	TWO TRIFOLIATES
2-3 TRI	TWO-THREE TRIFOLIATES
22DAE	22 DAYS AFTER EMERGENCE
+28D	28 DAYS AFTER PLANTING
44DAE	42 DAYS AFTER EMERGENCE
REG	REGROWTH
V8-REG	REGROWTH, UP TO 24 INCH CORN
LP, REG-V8	LATEPOSTEMERGENCE, REGROWTH UP TO 24 INCH CORN
IFN	IF NEEDED

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>
IPOHE	Ivyleaf Morningglory	<i>Ipomoea hederacea</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>
ZEAMX	Corn	<i>Zea mays</i>

MARCH CLIMATOLOGICAL DATA

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
		MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	03-01-2008	50	30	40		95	50	39	35	41	36	
Spindletop	03-02-2008	64	35	50	T	94	55	42	37	44	38	
Spindletop	03-03-2008	71	51	61		93	40	47	42	49	44	
Spindletop	03-04-2008	53	40	46	1.48	100	81	47	45	49	47	
Spindletop	03-05-2008	36	31	34	T	100	30	44	41	46	42	
Spindletop	03-06-2008	53	28	40		92	52	44	39	47	40	
Spindletop	03-07-2008	34	25	30	0.30	100	100	43	39	45	40	
Spindletop	03-08-2008	27	21	24	0.28	100	55	39	37	40	38	
Spindletop	03-09-2008	40	13	26		84	59	38	37	38	37	
Spindletop	03-10-2008	46	35	40	0.03	100	56	37	36	38	38	
Spindletop	03-11-2008	46	25	36		100	45	38	36	40	36	
Spindletop	03-12-2008	60	33	46		79	39	42	37	45	38	
Spindletop	03-13-2008	67	48	58		68	41	46	41	49	43	
Spindletop	03-14-2008	52	42	47	0.49	100	100	45	43	47	45	
Spindletop	03-15-2008	46	31	38	0.31	100	100	44	42	45	43	
Spindletop	03-16-2008	48	38	43	T	97	56	44	42	47	43	
Spindletop	03-17-2008	E 55	34	44	T	73	41	43	41	45	42	
Spindletop	03-18-2008	66	48	57	0.06	96	48	46	42	48	44	
Spindletop	03-19-2008	58	37	48	1.70	100	62	49	45	51	47	
Spindletop	03-20-2008	53	30	42	T	100	30	46	43	49	44	
Spindletop	03-21-2008	65	32	48		100	50	47	42	50	43	
Spindletop	03-22-2008	43	37	40		83	45	46	43	49	45	
Spindletop	03-23-2008	44	26	35		100	100	44	41	47	42	
Spindletop	03-24-2008	45	29	37	0.02	96	30	43	41	46	43	
Spindletop	03-25-2008	58	26	42		82	31	43	39	45	41	
Spindletop	03-26-2008	66	49	58		89	35	48	43	51	45	
Spindletop	03-27-2008	65	47	56	0.81	100	77	49	47	52	49	
Spindletop	03-28-2008	66	56	61	0.71	94	74	50	47	52	48	
Spindletop	03-29-2008	51	31	41		88	46	47	44	49	45	
Spindletop	03-30-2008	66	64	65		84	63	49	45	51	47	
Spindletop	03-31-2008	66	55	60	0.09	94	73	51	49	54	51	

Summary for Spindletop for the period 3-1-2008 through 3-31-2008:

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	54	36	45	6.28	93	57	45	41	47	43	
(Deviation from normal)	-1	+2	+1	+1.88							

APRIL CLIMATOLOGICAL DATA

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
		MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	04-01-2008	59	48	54	0.09	93	62	52	50	55	52	
Spindletop	04-02-2008	52	42	47		70	47	51	47	54	49	
Spindletop	04-03-2008	64	45	54	0.55	100	63	51	47	53	49	
Spindletop	04-04-2008	61	50	56	3.50	100	100	54	51	56	54	
Spindletop	04-05-2008	53	43	48	0.20	100	88	53	51	55	53	
Spindletop	04-06-2008	65	35	50		100	83	51	49	53	50	
Spindletop	04-07-2008	71	46	58		100	87	57	52	61	54	
Spindletop	04-08-2008	73	52	62		86	53	57	53	61	55	
Spindletop	04-09-2008 E	63	60	62		97	72	57	55	60	58	
Spindletop	04-10-2008 E	77	54	66		100	59	59	55	61	57	
Spindletop	04-11-2008	73	45	59	0.38	100	60	60	57	62	60	
Spindletop	04-12-2008	52	42	47		100	39	58	53	61	55	
Spindletop	04-13-2008 E	42	36	39	0.50	100	73	53	51	55	53	
Spindletop	04-14-2008	48	37	42		100	65	51	50	53	52	
Spindletop	04-15-2008	57	32	44		100	15	52	47	56	49	
Spindletop	04-16-2008	67	37	52		90	36	53	47	56	49	
Spindletop	04-17-2008 E	72	45	58		69	38	53	48	57	50	
Spindletop	04-18-2008	71	48	60		82	41	55	50	59	52	
Spindletop	04-19-2008	70	59	64	0.08	94	68	56	54	59	57	
Spindletop	04-20-2008	59	46	52	0.09	93	62	55	53	58	56	
Spindletop	04-21-2008	64	46	55		95	45	57	52	61	55	
Spindletop	04-22-2008 E	72	50	61		90	43	59	53	62	56	
Spindletop	04-23-2008 E	80	54	67		97	82	60	56	64	58	
Spindletop	04-24-2008 E	80	56	68		67	46	61	57	65	60	
Spindletop	04-25-2008	84	62	73		90	45	62	59	66	62	
Spindletop	04-26-2008	67	55	61	0.03	90	50	61	59	65	62	
Spindletop	04-27-2008 E	70	46	58	T	86	42	59	57	63	59	
Spindletop	04-28-2008 E	59	44	52	0.30	100	43	58	56	62	59	
Spindletop	04-29-2008 E	45	32	38	T	92	70	55	52	59	55	
Spindletop	04-30-2008 E	65	34	50		89	40	55	50	58	53	

Summary for Spindletop for the period 4-1-2008 through 4-30-2008:

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	64	46	55	5.72	92	57	56	52	59	55	
(Deviation from normal)	-1	+1	+0	+1.84							

MAY CLIMATOLOGICAL DATA

STATION	DATE		AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
			MX	MN	AV		MX	MN	GRASS	MN	BARE	MX		MN
Spindletop	05-01-2008	E	78	53	66		69	20	57	54	61	56	
Spindletop	05-02-2008		79	57	68	0.26	95	55	59	57	62	59	
Spindletop	05-03-2008		73	58	66	0.80	100	65	60	58	63	61	
Spindletop	05-04-2008	E	64	39	52		93	40	59	55	61	57	
Spindletop	05-05-2008	E	71	41	56		92	32	60	55	63	57	
Spindletop	05-06-2008	E	76	46	61		80	32	60	56	65	58	
Spindletop	05-07-2008	E	77	58	68	0.04	92	43	62	59	65	61	
Spindletop	05-08-2008	E	68	59	64	1.04	100	65	62	61	64	63	
Spindletop	05-09-2008		66	59	62	0.57	100	65	62	61	64	63	
Spindletop	05-10-2008		68	48	58	T	90	59	64	59	68	61	
Spindletop	05-11-2008	E	64	51	58	0.66	91	45	63	59	66	61	
Spindletop	05-12-2008	E	64	47	56	0.02	91	58	61	57	65	59	
Spindletop	05-13-2008	E	69	46	58		99	65	60	57	62	59	
Spindletop	05-14-2008	E	63	54	58	0.25	100	60	0		0		
Spindletop	05-15-2008	E	64	59	62	0.57	100	93	0		0		
Spindletop	05-16-2008	E	62	48	55		100	61	63	62	68	63	
Spindletop	05-17-2008	E	74	45	60		93	45	64	62	69	65	
Spindletop	05-18-2008	E	70	59	64	0.15	89	33	60	59	71	69	
Spindletop	05-19-2008		67	51	59	0.15	92	40	73	58	65	60	
Spindletop	05-20-2008		65	50	58	0.09	99	60	60	58	63	60	
Spindletop	05-21-2008		68	45	56		97	33	60	57	62	59	
Spindletop	05-22-2008		73	43	58		92	32	62	56	64	58	
Spindletop	05-23-2008		70	55	62	0.15	97	51	62	60	64	62	
Spindletop	05-24-2008		72	53	62	0.01	98	46	65	60	67	61	
Spindletop	05-25-2008		79	47	63		87	32	66	60	69	61	
Spindletop	05-26-2008		80	62	71		89	56	66	63	69	65	
Spindletop	05-27-2008		81	56	68	0.09	97	61	69	65	72	67	
Spindletop	05-28-2008		70	50	60	0.03	96	45	69	64	70	65	
Spindletop	05-29-2008		77	48	62		81	28	69	62	70	63	
Spindletop	05-30-2008		81	55	68		82	61	68	63	71	65	
Spindletop	05-31-2008		83	71	77		83	46	70	67	73	69	

Summary for Spindletop for the period 5-1-2008 through 5-31-2008:

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MX		MN
Spindletop	71	52	62	4.88	92	49	59	59	62	62	
(Deviation from normal)	-4	-3	-4	+0.41							

JUNE CLIMATOLOGICAL DATA

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
		MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	06-01-2008	83	65	74	0.21	90	54	72	67	74	69	
Spindletop	06-02-2008	85	60	72		99	40	72	67	74	69	
Spindletop	06-03-2008	81	66	74	0.55	98	72	70	68	72	70	
Spindletop	06-04-2008	85	70	78		91	53	71	68	74	70	
Spindletop	06-05-2008	90	72	81		81	46	74	69	77	71	
Spindletop	06-06-2008	91	74	82		79	41	75	71	78	72	
Spindletop	06-07-2008	89	75	82		75	55	75	71	77	73	
Spindletop	06-08-2008	92	73	82		86	40	77	72	80	73	
Spindletop	06-09-2008	91	68	80	0.06	89	40	77	73	80	75	
Spindletop	06-10-2008	82	64	73	0.39	97	46	76	72	78	74	
Spindletop	06-11-2008	85	56	70		94	31	76	69	78	70	
Spindletop	06-12-2008	90	65	78		82	40	76	71	78	72	
Spindletop	06-13-2008	90	68	79	0.65	97	49	76	72	78	74	
Spindletop	06-14-2008	82	68	75		97	57	76	72	78	74	
Spindletop	06-15-2008	86	65	76		99	39	78	71	80	73	
Spindletop	06-16-2008	83	68	76	0.26	91	51	76	73	78	74	
Spindletop	06-17-2008	76	54	65		87	38	75	70	77	71	
Spindletop	06-18-2008	79	55	67	0.02	90	34	73	68	75	69	
Spindletop	06-19-2008	81	53	67		98	32	75	68	77	69	
Spindletop	06-20-2008	75	62	68	0.04	89	58	73	70	74	71	
Spindletop	06-21-2008	81	62	72	0.06	95	48	74	69	75	70	
Spindletop	06-22-2008	84	61	72		98	28	75	69	77	71	
Spindletop	06-23-2008	82	56	69		99	37	74	68	76	70	
Spindletop	06-24-2008	83	55	69		95	31	75	68	77	69	
Spindletop	06-25-2008	88	61	74	0.10	82	41	76	70	77	71	
Spindletop	06-26-2008	90	67	78	0.32	97	45	76	72	77	73	
Spindletop	06-27-2008	83	68	76	0.06	90	61	76	72	77	73	
Spindletop	06-28-2008	86	66	76	0.50	99	60	76	72	78	73	
Spindletop	06-29-2008	81	67	74		91	49	75	73	77	74	
Spindletop	06-30-2008	73	61	67	0.08	93	49	73	71	74	72	

Summary for Spindletop for the period 6-1-2008 through 6-30-2008:

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	84	64	74	3.30	92	46	75	70	77	72	
(Deviation from normal)	+1	+2	+2	-0.36							

JULY CLIMATOLOGICAL DATA

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
		MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	07-01-2008	80	53	66		95	27	74	67	76	68	
Spindletop	07-02-2008	85	60	72		65	30	74	68	76	69	
Spindletop	07-03-2008	81	68	74	0.09	95	46	73	70	75	71	
Spindletop	07-04-2008	78	67	72	0.21	97	74	73	71	75	72	
Spindletop	07-05-2008	83	67	75		99	59	76	71	78	73	
Spindletop	07-06-2008	85	62	74		100	44	78	71	79	72	
Spindletop	07-07-2008	86	62	74		91	50	76	71	78	72	
Spindletop	07-08-2008	90	70	80	0.24	93	47	77	73	79	74	
Spindletop	07-09-2008	80	71	76	0.09	93	72	75	73	77	75	
Spindletop	07-10-2008	82	63	72		95	39	78	72	79	73	
Spindletop	07-11-2008	91	61	76		93	32	79	71	80	72	
Spindletop	07-12-2008	87	68	78	0.05	87	59	76	73	77	74	
Spindletop	07-13-2008	82	64	73	0.04	97	38	77	73	79	75	
Spindletop	07-14-2008	84	58	71		95	34	77	70	79	72	
Spindletop	07-15-2008	87	58	72		95	36	78	70	79	72	
Spindletop	07-16-2008	88	61	74		91	37	79	71	80	73	
Spindletop	07-17-2008	93	63	78		92	24	80	72	81	73	
Spindletop	07-18-2008	93	64	78		92	26	80	73	81	74	
Spindletop	07-19-2008	93	70	82		84	34	81	74	82	75	
Spindletop	07-20-2008	93	69	81	0.02	90	43	81	75	82	77	
Spindletop	07-21-2008	93	72	82		81	44	80	76	82	77	
Spindletop	07-22-2008	89	65	77	0.17	95	39	81	75	82	76	
Spindletop	07-23-2008	81	64	72	0.48	98	44	78	73	80	75	
Spindletop	07-24-2008	85	58	72		99	31	78	71	78	73	
Spindletop	07-25-2008	87	68	78		89	34	78	74	78	75	
Spindletop	07-26-2008	90	68	79		96	46	80	74	80	75	
Spindletop	07-27-2008	90	67	78		93	28	81	75	81	76	
Spindletop	07-28-2008	84	67	76	0.30	94	63	79	75	79	75	
Spindletop	07-29-2008	92	68	80		100	36	82	75	81	76	
Spindletop	07-30-2008	88	71	80	0.10	90	49	80	76	80	77	
Spindletop	07-31-2008	85	69	77	0.75	99	60	79	76	80	77	

Summary for Spindletop for the period 7-1-2008 through 7-31-2008:

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	87	65	76	2.54	93	43	78	73	79	74	
(Deviation from normal)	+1	+0	+1	-2.46							

AUGUST CLIMATOLOGICAL DATA

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
		MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	08-01-2008	89	70	80		95	49	81	75	81	76	
Spindletop	08-02-2008	89	71	80		91	47	82	77	83	78	
Spindletop	08-03-2008	86	62	74		92	40	81	75	81	76	
Spindletop	08-04-2008	90	62	76		90	40	81	74	80	75	
Spindletop	08-05-2008	88	71	80	0.35	95	57	79	76	79	76	
Spindletop	08-06-2008	83	71	77	0.04	98	66	79	76	80	77	
Spindletop	08-07-2008	86	68	77		97	39	81	75	81	77	
Spindletop	08-08-2008	82	58	70		93	39	78	73	79	74	
Spindletop	08-09-2008	81	56	68		98	37	77	71	77	72	
Spindletop	08-10-2008	83	59	71		95	40	77	71	78	72	
Spindletop	08-11-2008	80	51	66		98	37	77	69	77	71	
Spindletop	08-12-2008	82	54	68		94	34	77	70	76	71	
Spindletop	08-13-2008	86	57	72		93	30	78	70	78	72	
Spindletop	08-14-2008	85	58	72	0.41	98	33	77	71	77	72	
Spindletop	08-15-2008	83	58	70	0.01	100	41	77	70	78	72	
Spindletop	08-16-2008	82	56	69		91	33	76	70	77	71	
Spindletop	08-17-2008	86	56	71		90	28	77	69	77	71	
Spindletop	08-18-2008	89	56	72		97	27	77	69	78	71	
Spindletop	08-19-2008	89	57	73		93	27	79	70	79	72	
Spindletop	08-20-2008	92	63	78		93	28	80	72	79	73	
Spindletop	08-21-2008	92	67	80		84	26	79	74	80	75	
Spindletop	08-22-2008	93	71	82		68	29	81	74	81	75	
Spindletop	08-23-2008	93	67	80		70	29	81	74	82	75	
Spindletop	08-24-2008	93	69	81		74	30	80	75	81	76	
Spindletop	08-25-2008	86	68	77		95	56	79	75	80	76	
Spindletop	08-26-2008	82	64	73	0.03	95	52	77	73	78	75	
Spindletop	08-27-2008	72	67	70	0.24	99	88	75	73	76	75	
Spindletop	08-28-2008	88	66	77		99	40	78	72	80	74	
Spindletop	08-29-2008	92	69	80		96	37	79	73	81	75	
Spindletop	08-30-2008	89	65	77		100	48	79	74	80	75	
Spindletop	08-31-2008	92	65	78		90	32	81	73	81	75	

Summary for Spindletop for the period 8-1-2008 through 8-31-2008:

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	87	63	75	1.08	92	40	79	73	79	74	
(Deviation from normal)	+3	+1	+2	-2.85							

MARCH-SEPTEMBER 2008 SUMMARY CLIMATOLOGICAL DATA, SPINDLETOP

----- AIR TEMPERATURE -----											-- SOD --	
YEAR	MONTH	AVERAGE			EXTREME		AVG DEPART	NO. OF DAYS		4" TEMP		
		MAX	MIN	AVG	MAX	MIN	FROM NORM	>=90	<=32	MAX	MIN	
2008	Mar	54	36	45	71	13	+1	0	14	45	41	
2008	Apr	64	46	55	84	32	+0	0	2	56	52	
2008	May	71	52	62	83	39	-2	0	0	59	59	
2008	Jun	84	64	74	92	53	+2	7	0	75	70	
2008	Jul	87	65	76	93	53	-0	10	0	78	73	
2008	Aug	87	63	75	93	51	-0	8	0	79	73	
2008	Sep	84	60	72	96	51	+4	5	0	75	70	

----- PRECIPITATION -----										
YEAR	MONTH	DEPARTURE				GREATEST				
		TOTAL	FROM NORMAL	CUMULATIVE TOTAL	DEPARTURE	24 HOUR TOTAL	% RAIN DAYS	NO. DAYS >=.01		
2008	Mar	6.28	+1.88	6.28	+1.88	1.70	39	12		
2008	Apr	5.72	+1.84	12.00	+3.72	3.50	33	10		
2008	May	4.88	+0.41	16.88	+4.13	1.04	48	15		
2008	Jun	3.30	-0.36	20.18	+3.77	0.65	47	14		
2008	Jul	2.54	-2.46	22.72	+1.31	0.75	39	12		
2008	Aug	1.08	-2.85	23.80	-1.54	0.41	16	5		
2008	Sep	1.21	-1.99	25.01	-3.53	0.36	17	5		

Plant and Soil Science, U of KY

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CORN POSTEMERGENCE VARIETIES

Trial ID: C8003 Protocol ID: CORNVAR CHEMNOVA
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	6/9/2008	6/16/2008	6/30/2008	
Rating Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU/A
Number of Subsamples	1	1	1	1
SE Description				15.5%
Rating Timing	1 WEEK	2 WEEK	4 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	
Days After Emergence	28 DE-	35 DE-	49 DE-	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt	Treatment	Rate	Appl					
No.	Name	Rate	Unit	Code	1	2	3	6
1	NIC-IT	0.0313	lb ai/a	A	0	0	0	110.1
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 60-51							
2	NIC-IT	0.0625	lb ai/a	A	0	0	0	107.1
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 60-51							
3	ACCENT	0.0623	lb ai/a	A	0	0	0	111.6
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 60-51							
4	UNTREATED			A	0	0	0	110.6
	DKC 60-51							
5	NIC-IT	0.0313	lb ai/a	A	0	0	0	127.0
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 61-69							
6	NIC-IT	0.0625	lb ai/a	A	0	0	0	118.2
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 61-69							
7	ACCENT	0.0623	lb ai/a	A	0	0	0	98.6
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 61-69							
8	UNTREATED			A	0	0	0	113.9
	DKC 61-69							
9	NIC-IT	0.0313	lb ai/a	A	0	0	0	112.4
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 62-54							
10	NIC-IT	0.0625	lb ai/a	A	0	0	0	108.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 62-54							
11	ACCENT	0.0623	lb ai/a	A	0	0	0	112.3
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 62-54							
12	UNTREATED			A	0	0	0	118.0
	DKC 62-54							
13	NIC-IT	0.0313	lb ai/a	A	0	0	0	110.3
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 63-42							

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Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	6/9/2008	6/16/2008	6/30/2008	
Rating Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU/A
Number of Subsamples	1	1	1	1
SE Description				15.5%
Rating Timing	1 WEEK	2 WEEK	4 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	
Days After Emergence	28 DE-	35 DE-	49 DE-	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	6
14	NIC-IT	0.0625	lb ai/a	A	0	0	0	112.9
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 63-42							
15	ACCENT	0.0623	lb ai/a	A	0	0	0	113.3
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 63-42							
16	UNTREATED			A	0	0	0	121.4
	DKC 63-42							
17	NIC-IT	0.0313	lb ai/a	A	0	0	0	96.0
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 63-94							
18	NIC-IT	0.0625	lb ai/a	A	0	0	0	87.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 63-94							
19	ACCENT	0.0623	lb ai/a	A	0	0	0	92.2
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 63-94							
20	UNTREATED			A	0	0	0	79.9
	DKC 63-94							
21	NIC-IT	0.0313	lb ai/a	A	0	0	0	97.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 65-44							
22	NIC-IT	0.0625	lb ai/a	A	0	0	0	88.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 65-44							
23	ACCENT	0.0623	lb ai/a	A	0	0	0	100.1
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 65-44							
24	UNTREATED			A	0	0	0	97.4
	DKC 65-44							
25	NIC-IT	0.0313	lb ai/a	A	0	0	0	107.9
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 65-63							
26	NIC-IT	0.0625	lb ai/a	A	0	0	0	105.2
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 65-63							
27	ACCENT	0.0623	lb ai/a	A	0	0	0	119.5
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 65-63							
28	UNTREATED			A	0	0	0	103.5
	DKC 65-63							
29	NIC-IT	0.0313	lb ai/a	A	0	0	0	76.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 67-23							

Plant and Soil Science, U of KY Weed Science Research

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	6/9/2008	6/16/2008	6/30/2008	
Rating Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU/A
Number of Subsamples	1	1	1	1
SE Description				15.5%
Rating Timing	1 WEEK	2 WEEK	4 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	
Days After Emergence	28 DE-	35 DE-	49 DE-	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	6
30	NIC-IT	0.0625	lb ai/a	A	0	0	0	89.2
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 67-23							
31	ACCENT	0.0623	lb ai/a	A	0	0	0	80.1
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 67-23							
32	UNTREATED			A	0	0	0	80.7
	DKC 67-23							
33	NIC-IT	0.0313	lb ai/a	A	0	0	0	68.3
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 67-87							
34	NIC-IT	0.0625	lb ai/a	A	0	0	0	70.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 67-87							
35	ACCENT	0.0623	lb ai/a	A	0	0	0	68.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 67-87							
36	UNTREATED			A	0	0	0	67.6
	DKC 67-87							
37	NIC-IT	0.0313	lb ai/a	A	0	0	0	55.2
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 69-71							
38	NIC-IT	0.0625	lb ai/a	A	0	0	0	63.0
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 69-71							
39	ACCENT	0.0623	lb ai/a	A	0	0	0	66.0
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	DKC 69-71							
40	UNTREATED			A	0	0	0	60.1
	DKC 69-71							
41	NIC-IT	0.0313	lb ai/a	A	0	0	0	69.5
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	83C55-300GT							
42	NIC-IT	0.0625	lb ai/a	A	0	0	0	84.6
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	83C55-300GT							
43	ACCENT	0.0623	lb ai/a	A	0	0	0	76.5
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	83C55-300GT							
44	UNTREATED			A	0	0	0	77.2
	83C55-300GT							
45	NIC-IT	0.0313	lb ai/a	A	0	0	0	82.3
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	33N58							

Plant and Soil Science, U of KY

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Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	6/9/2008	6/16/2008	6/30/2008	
Rating Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU/A
Number of Subsamples	1	1	1	1
SE Description				15.5%
Rating Timing	1 WEEK	2 WEEK	4 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	
Days After Emergence	28 DE-	35 DE-	49 DE-	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	6
46	NIC-IT	0.0625	lb ai/a	A	0	0	0	79.0
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	33N58							
47	ACCENT	0.0623	lb ai/a	A	0	0	0	80.5
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	33N58							
48	UNTREATED			A	0	0	0	71.2
	33N58							
49	NIC-IT	0.0313	lb ai/a	A	0	0	0	72.3
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	31G71							
50	NIC-IT	0.0625	lb ai/a	A	0	0	0	76.9
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	31G71							
51	ACCENT	0.0623	lb ai/a	A	0	0	0	71.5
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	31G71							
52	UNTREATED			A	0	0	0	67.9
	31G71							
53	NIC-IT	0.0313	lb ai/a	A	0	0	0	55.1
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	31D61							
54	NIC-IT	0.0625	lb ai/a	A	0	0	0	54.0
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	31D61							
55	ACCENT	0.0623	lb ai/a	A	0	0	0	67.2
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	31D61							
56	UNTREATED			A	0	0	0	52.0
	31D61							
57	NIC-IT	0.0313	lb ai/a	A	0	0	0	72.5
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	33M57							
58	NIC-IT	0.0625	lb ai/a	A	0	0	0	58.4
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	33M57							
59	ACCENT	0.0623	lb ai/a	A	0	0	0	62.4
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	33M57							
60	UNTREATED			A	0	0	0	68.9
	33M57							
61	NIC-IT	0.0313	lb ai/a	A	0	0	0	108.0
	COC	1 % v/v		A				
	UAN	3 % v/v		A				
	34A17							

Plant and Soil Science, U of KY Weed Science Research

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	6/9/2008	6/16/2008	6/30/2008	
Rating Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU/A
Number of Subsamples	1	1	1	1
SE Description				15.5%
Rating Timing	1 WEEK	2 WEEK	4 WEEK	
Days After First/Last Applic.	7 7	14 14	28 28	
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	
Plant-Eval Interval	34 DP-1	41 DP-1	55 DP-1	
Days After Emergence	28 DE-	35 DE-	49 DE-	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	6
62	NIC-IT	0.0625	lb ai/a	A	0	0	0	119.4
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	34A17							
63	ACCENT	0.0623	lb ai/a	A	0	0	0	130.7
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	34A17							
64	UNTREATED			A	0	0	0	115.9
	34A17							
65	NIC-IT	0.0313	lb ai/a	A	0	0	0	107.8
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	8380 IT							
66	NIC-IT	0.0625	lb ai/a	A	0	0	0	108.7
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	8380 IT							
67	ACCENT	0.0623	lb ai/a	A	0	0	0	104.7
	COC	1	% v/v	A				
	UAN	3	% v/v	A				
	8380 IT							
68	UNTREATED			A	0	0	0	105.8
	8380 IT							
LSD (P=.05)					0.0	0.0	0.0	31.19
Standard Deviation					0.0	0.0	0.0	22.51
CV					0.0	0.0	0.0	24.97
Bartlett's X2					0.0	0.0	0.0	68.213
P(Bartlett's X2)					.	.	.	0.436
Replicate F					0.000	0.000	0.000	39.233
Replicate Prob(F)					1.0000	1.0000	1.0000	0.0001
Treatment F					0.000	0.000	0.000	3.641
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VARIETIES

Trial ID: C8003 Protocol ID: CORNVAR CHEMNOVA
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

Plant-Eval Interval

34 DP-1 = 1 5/6/2008

41 DP-1 = 1 5/6/2008

55 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $6.222857 \cdot 4 \cdot (100 - 5) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VARIETIES

Trial ID: C8003 Protocol ID: CORNVAR CHEMNOVA
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1:	ZEAMX	Zea mays	Corn
	Variety:	DKC 60-51	
	BBCH Scale:	BCOR	Planting Date: 5/6/2008
	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: 5/12/2008
	Harvest Date:	9/16/2008	Harvest Equipment: COMBINE
	Harvested Width, Unit:	5 FT	Harvested Length, Unit: 28 FT

Crop 2:	ZEAMX	Zea mays	Corn
	Variety:	DKC 61-69	
	BBCH Scale:	BCOR	Planting Date: 5/6/2008
	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: 5/12/2008
	Harvest Date:	9/16/2008	Harvest Equipment: COMBINE
	Harvested Width, Unit:	5 FT	Harvested Length, Unit: 28 FT

Crop 3:	ZEAMX	Zea mays	Corn
	Variety:	DKC 62-54	
	BBCH Scale:	BCOR	Planting Date: 5/6/2008
	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: 5/12/2008
	Harvest Date:	9/16/2008	Harvest Equipment: COMBINE
	Harvested Width, Unit:	5 FT	Harvested Length, Unit: 28 FT

Crop 4:	ZEAMX	Zea mays	Corn
	Variety:	DKC 63-42	
	BBCH Scale:	BCOR	Planting Date: 5/6/2008
	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: 5/12/2008

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Weed Science Research

Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 5: ZEAMX Zea mays Corn
Variety: DKC 63-94
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 6: ZEAMX Zea mays Corn
Variety: DKC 65-44
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 7: ZEAMX Zea mays Corn
Variety: DKC 65-63
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 8: ZEAMX Zea mays Corn
Variety: DKC 67-23
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 9: ZEAMX Zea mays Corn
Variety: DKC 67-87
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 10: ZEAMX Zea mays Corn
Variety: DKC 69-71
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 11: ZEAMX Zea mays Corn
Variety: 83C55-300GT
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium
Soil Moisture: NORMAL normal
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
Soil Temperature, Unit: 61 F
Emergence Date: 5/12/2008

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Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 12: ZEAMX Zea mays
Variety: 33N58
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Corn
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
 medium
Soil Temperature, Unit: 61 F
 normal
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 13: ZEAMX Zea mays
Variety: 31G71
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Corn
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
 medium
Soil Temperature, Unit: 61 F
 normal
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 14: ZEAMX Zea mays
Variety: 31D61
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Corn
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
 medium
Soil Temperature, Unit: 61 F
 normal
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 15: ZEAMX Zea mays
Variety: 33M57
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Corn
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
 medium
Soil Temperature, Unit: 61 F
 normal
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 16: ZEAMX Zea mays
Variety: 34A17
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Corn
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
 medium
Soil Temperature, Unit: 61 F
 normal
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Crop 17: ZEAMX Zea mays
Variety: 8380 IT
BBCH Scale: BCOR
Planting Method: ROWS
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL
Harvest Date: 9/16/2008
Harvested Width, Unit: 5 FT

Corn
Planting Date: 5/6/2008
Rate, Unit: 30000 S/A
 medium
Soil Temperature, Unit: 61 F
 normal
Emergence Date: 5/12/2008
Harvest Equipment: COMBINE
Harvested Length, Unit: 28 FT

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 33 FT
Plot Area, Unit: 330 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** SPLBLO Split-Block

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Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A

Application Date: 6/2/2008
Time of Day: 2 PM
Application Method: SPRAY
Application Timing: V3
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 83
% Relative Humidity: 43
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 72 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 2 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 3 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 4 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 5 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 6 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 7 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 8 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop 9 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop10 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop11 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop12 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop13 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop14 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop15 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop16 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3
Crop17 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V3

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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Trt No Treatment Application Comment

Study was overlayed with 3 qts/a Lumax.

Plant and Soil Science, U of KY

Weed Science Research

NO-TILL CORN

Trial ID: C8004 Protocol ID: HMS002X4-2008US
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	AMBTR	SETFA	AMBTR	
Pest Scientific Name	Lamium purpure>	Stellaria media	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	
Pest Name	Purple deadnet>	Common chickwe>	Giant ragweed	Giant foxtail	Giant ragweed	
Crop Code	ZEAMX			ZEAMX		
BBCH Scale	BCOR			BCOR		
Crop Scientific Name	Zea mays			Zea mays		
Crop Name	Corn			Corn		
Rating Date	5/16/2008	5/16/2008	5/16/2008	5/16/2008	6/4/2008	6/4/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description						
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	@ B APPL.	@ B APPL.
Days After First/Last Applic.	14 14	14 14	14 14	14 14	33 33	33 33
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	34 DP-1	34 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	28 DE-	28 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	GRAMOXONE INTEON	2.5	pt/a	A	0	99	99	99	0	23	33
	COC	2	% v/v	A							
	AMS	3.7	% v/v	B							
	HALEX GT	3.6	pt/a	B							
	INDUCE	0.25	% v/v	B							
2	GRAMOXONE INTEON	2.5	pt/a	A	0	99	99	99	0	30	37
	COC	2	% v/v	A							
	AMS	3.7	% v/v	B							
	HALEX GT	3.6	pt/a	B							
	AATREX	2	pt/a	B							
	INDUCE	0.25	% v/v	B							
3	LEXAR	2.25	qt/a	A	0	99	99	99	0	96	96
	GRAMOXONE INTEON	2.5	pt/a	A							
	COC	2	% v/v	A							
	AMS	3.7	% v/v	C							
	TOUCHDOWN TOTAL	24	fl oz/a	C							
4	LEXAR	1.75	qt/a	A	0	99	99	99	0	94	90
	GRAMOXONE INTEON	2.5	pt/a	A							
	COC	2	% v/v	A							
	AMS	3.7	% v/v	C							
	HALEX GT	3.6	pt/a	C							
	INDUCE	0.25	% v/v	C							
5	BICEP II MAGNUM	1.3	qt/a	A	0	99	99	99	0	89	86
	GRAMOXONE INTEON	2.5	pt/a	A							
	COC	2	% v/v	A							
	AMS	3.7	% v/v	C							
	HALEX GT	3.6	pt/a	C							
	INDUCE	0.25	% v/v	C							
6	AATREX	1	qt/a	A	0	99	99	99	0	27	80
	GRAMOXONE INTEON	2.5	pt/a	A							
	COC	2	% v/v	A							
	AMS	3.7	% v/v	C							
	HALEX GT	3.6	pt/a	C							
	INDUCE	0.25	% v/v	C							
7	HARNESS XTRA	1.5	qt/a	A	0	99	99	99	0	91	85
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	A							
	AMS	3.7	% v/v	C							
	ROUNDUP POWERMAX	22	fl oz/a	C							
8	AMS	3.7	% v/v	A	0	99	99	99	0	17	13
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	C							
	ROUNDUP POWERMAX	22	fl oz/a	C							

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	SETFA	AMBTR	
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Scientific Name		Zea mays		
Crop Name		Corn		
Rating Date	7/30/2008	9/15/2008	9/15/2008	9/15/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER B	AFTER B	AFTER B	AFTER B
Rating Timing	4 WEEK	AT HARVEST	AT HARVEST	AT HARVEST
Days After First/Last Applic.	89 43	136 90	136 90	136 90
Plant-Eval Interval	90 DP-1	137 DP-1	137 DP-1	137 DP-1
Days After Emergence	84 DE-	131 DE	131 DE	131 DE
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
				TY1
				1

Trt No.	Treatment Name	Rate	Unit	Appl Code	16	17	18	19	24
1	GRAMOXONE INTEON	2.5	pt/a	A	98	0	96	98	134.1
	COC	2	% v/v	A					
	AMS	3.7	% v/v	B					
	HALEX GT	3.6	pt/a	B					
	INDUCE	0.25	% v/v	B					
2	GRAMOXONE INTEON	2.5	pt/a	A	99	0	99	99	142.4
	COC	2	% v/v	A					
	AMS	3.7	% v/v	B					
	HALEX GT	3.6	pt/a	B					
	AATREX	2	pt/a	B					
	INDUCE	0.25	% v/v	B					
3	LEXAR	2.25	qt/a	A	99	0	99	99	131.9
	GRAMOXONE INTEON	2.5	pt/a	A					
	COC	2	% v/v	A					
	AMS	3.7	% v/v	C					
	TOUCHDOWN TOTAL	24	fl oz/a	C					
4	LEXAR	1.75	qt/a	A	99	0	99	99	162.1
	GRAMOXONE INTEON	2.5	pt/a	A					
	COC	2	% v/v	A					
	AMS	3.7	% v/v	C					
	HALEX GT	3.6	pt/a	C					
	INDUCE	0.25	% v/v	C					
5	BICEP II MAGNUM	1.3	qt/a	A	98	0	99	98	142.1
	GRAMOXONE INTEON	2.5	pt/a	A					
	COC	2	% v/v	A					
	AMS	3.7	% v/v	C					
	HALEX GT	3.6	pt/a	C					
	INDUCE	0.25	% v/v	C					
6	AATREX	1	qt/a	A	96	0	99	96	143.2
	GRAMOXONE INTEON	2.5	pt/a	A					
	COC	2	% v/v	A					
	AMS	3.7	% v/v	C					
	HALEX GT	3.6	pt/a	C					
	INDUCE	0.25	% v/v	C					
7	HARNESS XTRA	1.5	qt/a	A	96	0	99	96	139.2
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	A					
	AMS	3.7	% v/v	C					
	ROUNDUP POWERMAX	22	fl oz/a	C					
8	AMS	3.7	% v/v	A	96	0	99	96	145.9
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	C					
	ROUNDUP POWERMAX	22	fl oz/a	C					

Plant and Soil Science, U of KY

Weed Science Research

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		LAMPU	STEME	AMBTR		SETFA	AMBTR
Pest Scientific Name		Lamium purpure>	Stellaria media	Ambrosia trifi>		Setaria faberi	Ambrosia trifi>
Pest Name		Purple deadnet>	Common chickwe>	Giant ragweed		Giant foxtail	Giant ragweed
Crop Code		ZEAMX				ZEAMX	
BBCH Scale		BCOR				BCOR	
Crop Scientific Name		Zea mays				Zea mays	
Crop Name		Corn				Corn	
Rating Date		5/16/2008	5/16/2008	5/16/2008	5/16/2008	6/4/2008	6/4/2008
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1
SE Description							
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK @ B APPL.	@ B APPL.	@ B APPL.
Days After First/Last Applic.		14 14	14 14	14 14	14 14 33 33	33 33	33 33
Plant-Eval Interval		15 DP-1	15 DP-1	15 DP-1	15 DP-1 34 DP-1	34 DP-1	34 DP-1
Days After Emergence		9 DE-1	9 DE-1	9 DE-1	9 DE-1 28 DE-	28 DE-	28 DE-
ARM Action Codes		P	P	P	P	P	P
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
9	AMS	3.7	% v/v	A	0	99	99	99	0	27	23
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							
	AMS	3.7	% v/v	D							
	ROUNDUP POWERMAX	22	fl oz/a	D							
10	AMS	3.7	% v/v	A	0	99	99	99	0	27	30
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	B							
	LAUDIS	3	fl oz/a	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							
11	AMS	3.7	% v/v	A	0	99	99	99	0	23	23
	DURANGO	24	fl oz/a	A							
	AMS	3.7	% v/v	B							
	SURESTART	1.75	pt/a	B							
	DURANGO	22	fl oz/a	B							
12	AMS	3.7	% v/v	A	0	99	99	99	0	30	27
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	B							
	STATUS	2.5	oz/a	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							
13	AMS	3.7	% v/v	A	0	99	99	99	0	30	30
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	B							
	IMPACT	0.75	fl oz/a	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							
14	LEXAR	1.5	qt/a	A	0	99	99	99	0	98	98
	GRAMOXONE INTEON	2.5	pt/a	A							
	COC	2	% v/v	A							
	LEXAR	1.5	qt/a	B							
15	LEXAR	3	qt/a	A	0	99	99	99	0	99	96
	GRAMOXONE INTEON	2.5	pt/a	A							
	COC	2	% v/v	A							
16	AMS	3.7	% v/v	A	0	99	99	99	0	23	20
	ROUNDUP POWERMAX	1.38	pt/a	A							
	AMS	3.7	% v/v	C							
	ROUNDUP POWERMAX	32	fl oz/a	C							
17	AMS	3.7	% v/v	A	0	99	99	99	0	48	27
	DURANGO	1.5	pt/a	A							
	SURESTART	1.75	pt/a	A							
	AMS	3.7	% v/v	C							
	DURANGO	24	fl oz/a	C							
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	21.9	10.1
Standard Deviation					0.0	0.0	0.0	0.0	0.0	13.1	6.1
CV					0.0	0.0	0.0	0.0	0.0	25.58	11.5
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	36.035	17.938
P(Bartlett's X2)					.	.	.	.	.	0.002*	0.21
Replicate F					0.000	0.000	0.000	0.000	0.000	0.523	3.176
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.5977	0.0552
Treatment F					0.000	0.000	0.000	0.000	0.000	19.621	89.487
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	SETFA
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Setaria faberi
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	6/4/2008	6/11/2008	6/17/2008	7/2/2008
Rating Type	CONTROL	INJURY	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER B	AFTER B	AFTER B	AFTER B
Rating Timing	@ B APPL.	1 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	33 33	40 7	46 13	61 15
Plant-Eval Interval	34 DP-1	41 DP-1	47 DP-1	62 DP-1
Days After Emergence	28 DE-	35 DE-	41 DE-	56 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13	14	15
9	AMS	3.7	% v/v	A	23	0	0	0	99	99	0	99
	ROUNDUP POWERMAX	1.38	pt/a	A								
	AMS	3.7	% v/v	B								
	ROUNDUP POWERMAX	22	fl oz/a	B								
	AMS	3.7	% v/v	D								
	ROUNDUP POWERMAX	22	fl oz/a	D								
10	AMS	3.7	% v/v	A	30	0	0	0	92	95	0	92
	ROUNDUP POWERMAX	1.38	pt/a	A								
	AMS	3.7	% v/v	B								
	LAUDIS	3	fl oz/a	B								
	ROUNDUP POWERMAX	22	fl oz/a	B								
11	AMS	3.7	% v/v	A	20	0	0	0	99	96	0	99
	DURANGO	24	fl oz/a	A								
	AMS	3.7	% v/v	B								
	SURESTART	1.75	pt/a	B								
	DURANGO	22	fl oz/a	B								
12	AMS	3.7	% v/v	A	23	0	0	0	96	96	0	96
	ROUNDUP POWERMAX	1.38	pt/a	A								
	AMS	3.7	% v/v	B								
	STATUS	2.5	oz/a	B								
	ROUNDUP POWERMAX	22	fl oz/a	B								
13	AMS	3.7	% v/v	A	27	0	0	0	85	92	0	85
	ROUNDUP POWERMAX	1.38	pt/a	A								
	AMS	3.7	% v/v	B								
	IMPACT	0.75	fl oz/a	B								
	ROUNDUP POWERMAX	22	fl oz/a	B								
14	LEXAR	1.5	qt/a	A	96	0	0	0	99	99	0	99
	GRAMOXONE INTEON	2.5	pt/a	A								
	COC	2	% v/v	A								
	LEXAR	1.5	qt/a	B								
15	LEXAR	3	qt/a	A	95	0	0	0	95	93	0	95
	GRAMOXONE INTEON	2.5	pt/a	A								
	COC	2	% v/v	A								
16	AMS	3.7	% v/v	A	20	0	0	0	99	94	0	99
	ROUNDUP POWERMAX	1.38	pt/a	A								
	AMS	3.7	% v/v	C								
	ROUNDUP POWERMAX	32	fl oz/a	C								
17	AMS	3.7	% v/v	A	23	0	0	0	99	98	0	99
	DURANGO	1.5	pt/a	A								
	SURESTART	1.75	pt/a	A								
	AMS	3.7	% v/v	C								
	DURANGO	24	fl oz/a	C								
LSD (P=.05)		14.0				0.0	0.0	0.0	9.5	5.1	0.0	9.5
Standard Deviation		8.4				0.0	0.0	0.0	5.7	3.1	0.0	5.7
CV		16.25				0.0	0.0	0.0	5.86	3.17	0.0	5.86
Bartlett's X2		16.585				0.0	0.0	0.0	11.132	6.443	0.0	11.132
P(Bartlett's X2)		0.279				.	.	.	0.025*	0.777	.	0.025*
Replicate F		2.052				0.000	0.000	0.000	0.884	1.882	0.000	0.884
Replicate Prob(F)		0.1450				1.0000	1.0000	1.0000	0.4231	0.1687	1.0000	0.4231
Treatment F		47.571				0.000	0.000	0.000	1.320	1.522	0.000	1.320
Treatment Prob(F)		0.0001				1.0000	1.0000	1.0000	0.2445	0.1522	1.0000	0.2445

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	SETFA	AMBTR	
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	7/30/2008	9/15/2008	9/15/2008	9/15/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER B	AFTER B	AFTER B	AFTER B
Rating Timing	4 WEEK	AT HARVEST	AT HARVEST	AT HARVEST
Days After First/Last Applic.	89 43	136 90	136 90	136 90
Plant-Eval Interval	90 DP-1	137 DP-1	137 DP-1	137 DP-1
Days After Emergence	84 DE-	131 DE	131 DE	131 DE
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
				TY1

Trt No.	Treatment Name	Rate	Unit	Appl Code	16	17	18	19	24
9	AMS	3.7	% v/v	A	99	0	99	99	149.3
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	B					
	ROUNDUP POWERMAX	22	fl oz/a	B					
	AMS	3.7	% v/v	D					
	ROUNDUP POWERMAX	22	fl oz/a	D					
10	AMS	3.7	% v/v	A	95	0	92	95	137.5
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	B					
	LAUDIS	3	fl oz/a	B					
	ROUNDUP POWERMAX	22	fl oz/a	B					
11	AMS	3.7	% v/v	A	96	0	99	96	141.0
	DURANGO	24	fl oz/a	A					
	AMS	3.7	% v/v	B					
	SURESTART	1.75	pt/a	B					
	DURANGO	22	fl oz/a	B					
12	AMS	3.7	% v/v	A	96	0	96	96	134.1
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	B					
	STATUS	2.5	oz/a	B					
	ROUNDUP POWERMAX	22	fl oz/a	B					
13	AMS	3.7	% v/v	A	92	0	85	92	143.2
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	B					
	IMPACT	0.75	fl oz/a	B					
	ROUNDUP POWERMAX	22	fl oz/a	B					
14	LEXAR	1.5	qt/a	A	99	0	99	99	133.5
	GRAMOXONE INTEON	2.5	pt/a	A					
	COC	2	% v/v	A					
	LEXAR	1.5	qt/a	B					
15	LEXAR	3	qt/a	A	93	0	95	93	140.5
	GRAMOXONE INTEON	2.5	pt/a	A					
	COC	2	% v/v	A					
16	AMS	3.7	% v/v	A	94	0	99	94	138.5
	ROUNDUP POWERMAX	1.38	pt/a	A					
	AMS	3.7	% v/v	C					
	ROUNDUP POWERMAX	32	fl oz/a	C					
17	AMS	3.7	% v/v	A	98	0	99	98	133.3
	DURANGO	1.5	pt/a	A					
	SURESTART	1.75	pt/a	A					
	AMS	3.7	% v/v	C					
	DURANGO	24	fl oz/a	C					
LSD (P=.05)		5.1			5.1	0.0	9.5	5.1	28.52
Standard Deviation		3.1			3.1	0.0	5.7	3.1	17.10
CV		3.17			3.17	0.0	5.86	3.17	12.16
Bartlett's X2		6.443			6.443	0.0	11.132	6.443	19.987
P(Bartlett's X2)		0.777			0.777	.	0.025*	0.777	0.221
Replicate F		1.882			1.882	0.000	0.884	1.882	3.670
Replicate Prob(F)		0.1687			0.1687	1.0000	0.4231	0.1687	0.0367
Treatment F		1.522			1.522	0.000	1.320	1.522	0.555
Treatment Prob(F)		0.1522			0.1522	1.0000	0.2445	0.1522	0.8937

Plant and Soil Science, U of KY

Weed Science Research

NO-TILL CORN

Trial ID: C8004 Protocol ID: HMS002X4-2008US
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, = US

STEME, Stellaria media, = US

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

15 DP-1 = 1 5/1/2008

34 DP-1 = 1 5/1/2008

41 DP-1 = 1 5/1/2008

47 DP-1 = 1 5/1/2008

62 DP-1 = 1 5/1/2008

90 DP-1 = 1 5/1/2008

137 DP-1 = 1 5/1/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $5.185714 * [C22] * (100 - [C23]) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

NO-TILL CORN

Trial ID: C8004 Protocol ID: HMS002X4-2008US
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/1/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 5/1/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 58 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/7/2008
Harvest Date: 9/15/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 32 FT
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettle

Pest 2 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed

Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

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

Pest 5 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Plant and Soil Science, U of KY

Weed Science Research

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	5/2/2008	6/4/2008	6/17/2008
Time of Day:	9 PM	6 PM	11 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	+ MP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	81 F	70 F
% Relative Humidity:	59	58	43
Wind Velocity, Unit:	10 MPH	8 MPH	4 MPH
Wind Direction:	SSW	SW	WNW
Soil Temperature, Unit:	58 F	70 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	NORMAL
% Cloud Cover:	10	90	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			V8
Height, Unit:		18 IN	30 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W
Height, Unit:	4 IN		
Pest 2 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	4 IN		
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	6 IN	12 IN
Pest 4 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		4 IN	6 IN
Pest 5 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		3 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	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	AMBTR	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory	Giant foxtail	Giant ragweed	
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Scientific Name					Zea mays		
Crop Name					Corn		
Rating Date	6/27/2008	6/27/2008	6/27/2008	6/27/2008	7/28/2008	7/28/2008	7/28/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
SE Description	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 10	57 10	57 10	57 10	88 41	88 41	88 41
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1	88 DP-1	88 DP-1	88 DP-1
Days After Emergence	50 DE-	50 DE-	50 DE-	50 DE-	81 DE-	81 DE-	81 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	9	10	11	12	13	14	15
1	AMS	3.7	% v/v	B	99	99	99	89	0	99	99
	HALEX GT	3.6	pt/a	B							
	INDUCE	0.25	% v/v	B							
2	AMS	3.7	% v/v	B	99	99	99	96	0	99	99
	HALEX GT	3.6	pt/a	B							
	AATREX	2	pt/a	B							
	INDUCE	0.25	% v/v	B							
3	LEXAR	2.25	qt/a	A	99	98	99	99	0	99	98
	AMS	3.7	% v/v	C							
	TOUCHDOWN TOTAL	24	fl oz/a	C							
4	LEXAR	1.75	qt/a	A	99	99	99	99	0	99	99
	AMS	3.7	% v/v	C							
	HALEX GT	3.6	pt/a	C							
	INDUCE	0.25	% v/v	C							
5	BICEP II MAGNUM	1.3	qt/a	A	99	99	99	99	0	99	99
	AMS	3.7	% v/v	C							
	HALEX GT	3.6	pt/a	C							
	INDUCE	0.25	% v/v	C							
6	AATREX	1	qt/a	A	99	99	99	97	0	99	99
	AMS	3.7	% v/v	C							
	HALEX GT	3.6	pt/a	C							
	INDUCE	0.25	% v/v	C							
7	HARNESX XTRA	1.5	qt/a	A	99	96	98	98	0	99	96
	AMS	3.7	% v/v	C							
	ROUNDUP POWERMAX	22	fl oz/a	C							
8	AMS	3.7	% v/v	B	90	86	90	88	0	90	86
	ROUNDUP POWERMAX	22	fl oz/a	B							
9	AMS	3.7	% v/v	B	99	99	97	95	0	99	99
	ROUNDUP POWERMAX	22	fl oz/a	B							
	AMS	3.7	% v/v	D							
	ROUNDUP POWERMAX	22	fl oz/a	D							
10	AMS	3.7	% v/v	B	90	90	97	86	0	90	90
	LAUDIS	3	fl oz/a	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							
11	AMS	3.7	% v/v	B	97	96	88	91	0	97	96
	SURESTART	1.75	pt/a	B							
	DURANGO	24	fl oz/a	B							
12	AMS	3.7	% v/v	B	89	91	88	90	0	89	91
	STATUS	2.5	oz/a	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							
13	AMS	3.7	% v/v	B	87	88	92	87	0	87	88
	IMPACT	0.75	fl oz/a	B							
	ROUNDUP POWERMAX	22	fl oz/a	B							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	CHEAL	IPOSS				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.				
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory				
Crop Code	ZEAMX				ZEAMX	ZEAMX	ZEAMX	
BBCH Scale	BCOR				BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays	
Crop Name	Corn				Corn	Corn	Corn	
Rating Date	5/29/2008	5/29/2008	5/29/2008	5/29/2008	5/29/2008	6/5/2008	6/19/2008	6/27/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1
SE Description						AFT B	AFT B	AFT B
Rating Timing	@ B APPL.	@ B APPL.	@ B APPL.	@ B APPL.	@ B APPL.	1 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28	35 7	49 2	57 10
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	49 DP-1	57 DP-1
Days After Emergence	21 DE-	21 DE-	21 DE-	21 DE-	21 DE-	28 DE-	42 DE-	50 DE-
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt Treatment	Rate	Appl	1	2	3	4	5	6	7	8
No. Name	Rate Unit	Code								
14 LEXAR	1.5 qt/a	A	0	99	99	99	99	0	0	0
LEXAR	1.5 qt/a	B								
15 LEXAR	3 qt/a	A	0	99	99	99	99	0	0	0
16 AMS	3.7 % v/v	C	0	0	0	0	0	0	0	0
ROUNDUP POWERMAX	32 fl oz/a	C								
17 SURESTART	1.75 pt/a	A	0	99	80	91	73	0	0	0
AMS	3.7 % v/v	C								
DURANGO	24 fl oz/a	C								
LSD (P=.05)			0.0	7.5	4.4	2.0	2.8	0.0	0.0	0.0
Standard Deviation			0.0	5.3	3.1	1.4	2.0	0.0	0.0	0.0
CV			0.0	11.76	7.01	3.01	4.46	0.0	0.0	0.0
Bartlett's X2			0.0	0.0	19.484	1.604	3.12	0.0	0.0	0.0
P(Bartlett's X2)			.	.	0.002*	0.449	0.538	.	.	.
Replicate F			0.000	1.000	1.718	0.704	0.087	0.000	0.000	0.000
Replicate Prob(F)			1.0000	0.4010	0.1759	0.5543	0.9670	1.0000	1.0000	1.0000
Treatment F			0.000	353.654	980.674	5285.663	2440.365	0.000	0.000	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	AMBTR				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>				
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory	Giant foxtail	Giant ragweed				
Crop Code					ZEAMX					
BBCH Scale					BCOR					
Crop Scientific Name					Zea mays					
Crop Name					Corn					
Rating Date	6/27/2008	6/27/2008	6/27/2008	6/27/2008	7/28/2008	7/28/2008	7/28/2008			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1	1	1			
SE Description	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B			
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.	57 10	57 10	57 10	57 10	88 41	88 41	88 41			
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1	88 DP-1	88 DP-1	88 DP-1			
Days After Emergence	50 DE-	50 DE-	50 DE-	50 DE-	81 DE-	81 DE-	81 DE-			
ARM Action Codes	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0			
Trt Treatment	Rate	Unit	Appl Code	9	10	11	12	13	14	15
14 LEXAR	1.5 qt/a	A		99	99	99	94	0	99	99
LEXAR	1.5 qt/a	B								
15 LEXAR	3 qt/a	A		99	98	98	90	0	99	98
16 AMS	3.7 % v/v	C		99	96	87	89	0	99	96
ROUNDUP POWERMAX	32 fl oz/a	C								
17 SURESTART	1.75 pt/a	A		98	91	95	87	0	98	91
AMS	3.7 % v/v	C								
DURANGO	24 fl oz/a	C								
LSD (P=.05)				2.8	4.3	5.4	5.8	0.0	2.8	4.3
Standard Deviation				1.9	3.0	3.8	4.0	0.0	1.9	3.0
CV				2.02	3.15	3.94	4.36	0.0	2.02	3.15
Bartlett's X2				8.237	12.17	18.93	22.561	0.0	8.237	12.17
P(Bartlett's X2)				0.144	0.204	0.026*	0.047*	.	0.144	0.204
Replicate F				0.419	2.033	1.070	3.074	0.000	0.419	2.033
Replicate Prob(F)				0.7398	0.1218	0.3707	0.0364	1.0000	0.7398	0.1218
Treatment F				20.078	8.358	5.864	5.544	0.000	20.078	8.358
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	IPOSS	SETFA	AMBTR	CHEAL	IPOSS					
Pest Scientific Name	Chenopodium al>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.					
Pest Name	Common lambsqu>	Morning glory	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory					
Crop Code			ZEAMX								
BBCH Scale			BCOR								
Crop Scientific Name			Zea mays								
Crop Name			Corn								
Rating Date	7/28/2008	7/28/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008			
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	YIELD		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU/A		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
SE Description	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B	AFT B	15.5%		
Rating Timing	8 WEEK	8 WEEK	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST			
Days After First/Last Applic.	88 41	88 41	137 90	137 90	137 90	137 90	137 90	137 90			
Plant-Eval Interval	88 DP-1	88 DP-1	137 DP-1	137 DP-1	137 DP-1	137 DP-1	137 DP-1	137 DP-1			
Days After Emergence	81 DE-	81 DE-	130 DE	130 DE	130 DE	130 DE	130 DE	130 DE			
ARM Action Codes	P	P	P	P	P	P	P	P	TY1		
Number of Decimals	0	0	0	0	0	0	0	0	1		
Trt Treatment	Rate	Unit	Appl Code	16	17	18	19	20	21	22	26
14 LEXAR	1.5 qt/a	A		99	94	0	99	99	99	94	140.3
LEXAR	1.5 qt/a	B									
15 LEXAR	3 qt/a	A		98	90	0	99	98	98	90	131.7
16 AMS	3.7 % v/v	C		87	89	0	99	96	87	89	124.7
ROUNDUP POWERMAX	32 fl oz/a	C									
17 SURESTART	1.75 pt/a	A		95	87	0	98	91	95	87	146.1
AMS	3.7 % v/v	C									
DURANGO	24 fl oz/a	C									
LSD (P=.05)				5.4	5.8	0.0	2.8	4.3	5.4	5.8	17.86
Standard Deviation				3.8	4.0	0.0	1.9	3.0	3.8	4.0	12.49
CV				3.94	4.36	0.0	2.02	3.15	3.94	4.36	9.17
Bartlett's X2				18.93	22.561	0.0	8.237	12.17	18.93	22.561	33.915
P(Bartlett's X2)				0.026*	0.047*	.	0.144	0.204	0.026*	0.047*	0.006*
Replicate F				1.070	3.074	0.000	0.419	2.033	1.070	3.074	11.144
Replicate Prob(F)				0.3707	0.0364	1.0000	0.7398	0.1218	0.3707	0.0364	0.0001
Treatment F				5.864	5.544	0.000	20.078	8.358	5.864	5.544	2.072
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0266

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMRGENCE XI

Trial ID: C8005 Protocol ID: HMS002A4-2008US
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

Plant-Eval Interval

28 DP-1 = 1 5/1/2008

35 DP-1 = 1 5/1/2008

49 DP-1 = 1 5/1/2008

57 DP-1 = 1 5/1/2008

88 DP-1 = 1 5/1/2008

137 DP-1 = 1 5/1/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $6.222857 * [C24] * (100 - [C25]) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMRGENCE XI

Trial ID: C8005 Protocol ID: HMS002A4-2008US
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/1/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 5/1/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 58 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/8/2008
Harvest Date: 9/15/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 28 FT
% Standard Moisture: 15.5

Pest Description

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

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

Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 33 FT
Plot Area, Unit: 330 FT² **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Plant and Soil Science, U of KY

Weed Science Research

Application Description

	A	B	C
Application Date:	5/1/2008	5/29/2008	6/17/2008
Time of Day:	7 PM	3 PM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	V8 REG
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA CARTER
Air Temperature, Unit:	72 F	75 F	70 F
% Relative Humidity:	40	34	45
Wind Velocity, Unit:	8 MPH	2 MPH	4 MPH
Wind Direction:	SSW	SW	WNW
Soil Temperature, Unit:	58 F	68 F	72 F
Soil Moisture:	ADEQUATE	FAIR	ADEQUATE
% Cloud Cover:	80	0	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		V2	V8
Height, Unit:		6 IN	30 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		1 IN	6 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		2 IN	8 IN
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		4 IN	8 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	3 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	BACKPACK
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	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN II

Trial ID: C8006 Protocol ID: KIH CORNPRE
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	SETFA	CHEAL	SETFA
Pest Scientific Name	Setaria faberi	Chenopodium al>	Setaria faberi	Chenopodium al>	Setaria faberi
Pest Name	Giant foxtail	Common lambsqu>	Giant foxtail	Common lambsqu>	Giant foxtail
Crop Code	ZEAMX		ZEAMX		
BBCH Scale	BCOR		BCOR		
Crop Scientific Name	Zea mays		Zea mays		
Crop Name	Corn		Corn		
Rating Date	5/19/2008	5/19/2008	5/19/2008	6/2/2008	6/2/2008
Rating Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	28 28	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	21 DE-	21 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Appl	1	2	3	4	5	6	7
1	CHECK UNTREATED			0	0	0	0	0	0	0
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
2	KIH 485	0.074 lb ai/a	A	0	84	88	0	74	95	45
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
3	KIH 485	0.111 lb ai/a	A	0	85	90	0	70	95	43
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
4	KIH 485	0.148 lb ai/a	A	0	98	98	0	95	95	68
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
5	KIH 485	0.186 lb ai/a	A	0	88	92	0	58	95	35
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
6	DUAL II MAGNUM	1.27 lb ai/a	A	0	95	88	0	77	95	53
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
7	HARNES	1.33 lb ai/a	A	0	84	89	0	70	95	45
	ROUNDUP POWERMAX	22 fl oz/a	A							
	AMS	3.7 % v/v	A							
	BANVEL	0.5 pt/a	B							
LSD (P=.05)				0.0	6.8	5.8	0.0	9.4	0.0	14.5
Standard Deviation				0.0	4.6	3.9	0.0	6.3	0.0	9.8
CV				0.0	6.01	5.07	0.0	9.97	0.0	23.76
Bartlett's X2				0.0	6.669	3.29	0.0	0.186	0.0	4.082
P(Bartlett's X2)				.	0.246	0.655	.	0.996	.	0.538
Replicate F				0.000	3.850	3.770	0.000	2.957	0.000	2.138
Replicate Prob(F)				1.0000	0.0273	0.0292	1.0000	0.0601	1.0000	0.1311
Treatment F				0.000	221.740	306.452	0.000	90.796	0.000	18.100
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

NO TILL CORN II

Trial ID: C8006 Protocol ID: KIH CORNPRE
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

14 DP-1 = 1 5/5/2008

28 DP-1 = 1 5/5/2008

56 DP-1 = 1 5/5/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN II

Trial ID: C8006 Protocol ID: KIHcornPRE
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/5/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC65-44
BBCH Scale: BCOR **Planting Date:** 5/5/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 58 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

Pest Description

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

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 33 FT
Plot Area, Unit: 330 FT² **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RAOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A

Application Date: 5/5/2008
Time of Day: 7 PM
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK

Plant and Soil Science, U of KY

Weed Science Research

Air Temperature, Unit: 67 F
% Relative Humidity: 38
Wind Velocity, Unit: 5 MPH
Wind Direction: NW
Soil Temperature, Unit: 58 F
Soil Moisture: ADEQUATE
% Cloud Cover: 5

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W

Pest 2 Code, Type, 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

CORN PREEMERGENCE III

Trial ID: C8007 Protocol ID: C8007
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

	W Weed		W Weed		W Weed		W Weed		W Weed	
	SETFA		CHEAL		SETFA		CHEAL		SETFA	
Pest Type	Setaria faberi		Chenopodium al>		Setaria faberi		Chenopodium al>		Setaria faberi	
Pest Code	Giant foxtail		Common lambsqu>		Giant foxtail		Common lambsqu>		Giant foxtail	
Pest Scientific Name										
Pest Name										
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX	
BBCH Scale	BCOR		BCOR		BCOR		BCOR		BCOR	
Crop Scientific Name	Zea mays		Zea mays		Zea mays		Zea mays		Zea mays	
Crop Name	Corn		Corn		Corn		Corn		Corn	
Rating Date	5/21/2008	5/21/2008	5/21/2008	6/4/2008	6/4/2008	6/4/2008	6/4/2008	7/2/2008	7/2/2008	7/2/2008
Rating Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	28 28	28 28	28 28	28 28	56 56	56 56	56 56
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	56 DA-A	56 DA-A	56 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	374 DE	374 DE	374 DE	388 DE	388 DE	388 DE	388 DE	416 DE	416 DE	416 DE
ARM Action Codes	P	P	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl	1	2	3	4	5	6	7	8
1	CHECK UNTREATED				0	0	0	0	0	0	0	0
	BANVEL	0.5	pt/a	B								
2	KIH 485	0.074	lb ai/a	A	0	99	93	0	99	80	0	99
	BANVEL	0.5	pt/a	B								
3	KIH 485	0.111	lb ai/a	A	0	99	96	0	99	89	0	99
	BANVEL	0.5	pt/a	B								
4	KIH 485	0.148	lb ai/a	A	0	99	99	0	99	98	0	99
	BANVEL	0.5	pt/a	B								
5	KIH 485	0.186	lb ai/a	A	0	99	98	0	99	95	0	99
	BANVEL	0.5	pt/a	B								
6	DUAL II MAGNUM	1.27	lb ai/a	A	0	98	89	0	98	68	0	98
	BANVEL	0.5	pt/a	B								
7	HARNES	1.33	lb ai/a	A	0	99	90	0	99	86	0	99
	BANVEL	0.5	pt/a	B								
	LSD (P=.05)				0.0	1.6	3.1	0.0	1.6	6.0	0.0	1.6
	Standard Deviation				0.0	0.9	1.8	0.0	0.9	3.4	0.0	0.9
	CV				0.0	1.03	2.17	0.0	1.03	4.61	0.0	1.03
	Bartlett's X2				0.0	0.0	1.373	0.0	0.0	7.574	0.0	0.0
	P(Bartlett's X2)				.	.	0.712	.	.	0.108	.	.
	Replicate F				0.000	1.000	0.603	0.000	1.000	1.644	0.000	1.000
	Replicate Prob(F)				1.0000	0.3966	0.5629	1.0000	0.3966	0.2338	1.0000	0.3966
	Treatment F				0.000	5489.313	1248.505	0.000	5489.313	298.985	0.000	5489.313
	Treatment Prob(F)				1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

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Weed Science Research

Pest Type	W Weed
Pest Code	CHEAL
Pest Scientific Name	Chenopodium al>
Pest Name	Common lambsqu>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	7/2/2008
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	8 WEEK
Days After First/Last Applic.	56 56
Trt-Eval Interval	56 DA-A
Plant-Eval Interval	56 DP-1
Days After Emergence	416 DE
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					9

1	CHECK UNTREATED				0
	BANVEL	0.5	pt/a	B	
2	KIH 485	0.074	lb ai/a	A	80
	BANVEL	0.5	pt/a	B	
3	KIH 485	0.111	lb ai/a	A	89
	BANVEL	0.5	pt/a	B	
4	KIH 485	0.148	lb ai/a	A	98
	BANVEL	0.5	pt/a	B	
5	KIH 485	0.186	lb ai/a	A	95
	BANVEL	0.5	pt/a	B	
6	DUAL II MAGNUM	1.27	lb ai/a	A	65
	BANVEL	0.5	pt/a	B	
7	HARNESS	1.33	lb ai/a	A	86
	BANVEL	0.5	pt/a	B	
	LSD (P=.05)				6.7
	Standard Deviation				3.8
	CV				5.16
	Bartlett's X2				8.674
	P(Bartlett's X2)				0.07
	Replicate F				1.366
	Replicate Prob(F)				0.2920
	Treatment F				243.977
	Treatment Prob(F)				0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE III

Trial ID: C8007 Protocol ID: C8007
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

14 DP-1 = 1 5/7/2008

28 DP-1 = 1 5/7/2008

56 DP-1 = 1 5/7/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE III

Trial ID: C8007 Protocol ID: C8007
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/7/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 65-44
BBCH Scale: BCOR **Planting Date:** 5/7/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 63 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/13/2007

Pest Description

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

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

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 220 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A
Application Date: 5/7/2008
Time of Day: 11 AM
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Applied By: C H SLACK

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Air Temperature, Unit: 77 F
% Relative Humidity: 50
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 63 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W

Pest 2 Code, Type, 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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL		SETFA	CHEAL	SETFA
Pest Scientific Name	Setaria faberi	Chenopodium al>		Setaria faberi	Chenopodium al>	Setaria faberi
Pest Name	Giant foxtail	Common lambsqu>		Giant foxtail	Common lambsqu>	Giant foxtail
Crop Code			ZEAMX			ZEAMX
BBCH Scale			BCOR			BCOR
Crop Scientific Name			Zea mays			Zea mays
Crop Name			Corn			Corn
Rating Date	4/30/2008	4/30/2008	5/14/2008	5/14/2008	5/14/2008	5/28/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT PLANTING	AT PLANTING	+ 2 WEEK	+ 2 WEEK	+ 2 WEEK	+ 4 WEEK
Days After First/Last Applic.	49 49	49 49	63 63	63 63	63 63	77 77
Trt-Eval Interval	49 DA-A	49 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1
Days After Emergence	-5 DE-	-5 DE-	9 DE-1	9 DE-1	9 DE-1	23 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	7	8	9	10	11	12	13
No.	Name	Rate	Unit Code							
1	ROUNDUP WeatherMAX	0.78	lb ai/a A	0	0	0	0	0	0	0
2	KIH 485	0.148	lb ai/a A	99	79	0	96	70	0	96
	ROUNDUP WeatherMAX	0.78	lb ai/a A							
3	KIH 485	0.186	lb ai/a A	99	85	0	99	80	0	99
	ROUNDUP WeatherMAX	0.78	lb ai/a A							
4	KIH 485	0.22	lb ai/a A	99	87	0	99	83	0	99
	ROUNDUP WeatherMAX	0.78	lb ai/a A							
5	KIH 485	0.373	lb ai/a A	99	99	0	99	96	0	99
	ROUNDUP WeatherMAX	0.78	lb ai/a A							
6	DUAL II MAGNUM	1.59	lb ai/a A	99	83	0	98	75	0	98
	ROUNDUP WeatherMAX	0.78	lb ai/a A							
7	HARNESS	2.43	lb ai/a A	99	95	0	99	90	0	99
	ROUNDUP WeatherMAX	0.78	lb ai/a A							
LSD (P=.05)				0.0	7.5	0.0	3.6	8.3	0.0	3.6
Standard Deviation				0.0	4.2	0.0	2.0	4.7	0.0	2.0
CV				0.0	5.55	0.0	2.39	6.62	0.0	2.39
Bartlett's X2				0.0	2.38	0.0	1.151	3.398	0.0	1.151
P(Bartlett's X2)				.	0.666	.	0.283	0.334	.	0.283
Replicate F				0.000	3.589	0.000	1.988	2.610	0.000	1.988
Replicate Prob(F)				1.0000	0.0600	1.0000	0.1796	0.1145	1.0000	0.1796
Treatment F				0.000	196.827	0.000	1023.612	143.595	0.000	1023.612
Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	
Pest Code	CHEAL	SETFA	
Pest Scientific Name	Chenopodium al>	Setaria faberi	
Pest Name	Common lambsqu>	Giant foxtail	
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Scientific Name		Zea mays	
Crop Name		Corn	
Rating Date	5/28/2008	6/27/2008	6/27/2008
Rating Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	+ 4 WEEK	+ 8 WEEK	+ 8 WEEK
Days After First/Last Applic.	77 77	107 107	107 107
Trt-Eval Interval	63 DA-A	107 DA-A	107 DA-A
Plant-Eval Interval	28 DP-1	58 DP-1	58 DP-1
Days After Emergence	23 DE-	53 DE-	53 DE-
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	14	15	16
1	ROUNDUP WeatherMAX	0.78	lb ai/a	A	0	0	0
2	KIH 485	0.148	lb ai/a	A	65	0	73
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
3	KIH 485	0.186	lb ai/a	A	80	0	85
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
4	KIH 485	0.22	lb ai/a	A	83	0	89
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
5	KIH 485	0.373	lb ai/a	A	95	0	95
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
6	DUAL II MAGNUM	1.59	lb ai/a	A	72	0	95
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
7	HARNESS	2.43	lb ai/a	A	90	0	86
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
LSD (P=.05)					10.1	0.0	13.1
Standard Deviation					5.7	0.0	7.4
CV					8.23	0.0	9.89
Bartlett's X2					3.414	0.0	14.902
P(Bartlett's X2)					0.181	.	0.002*
Replicate F					1.427	0.000	1.904
Replicate Prob(F)					0.2780	1.0000	0.1913
Treatment F					95.683	0.000	62.745
Treatment Prob(F)					0.0001	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C8008 Protocol ID: KIHCORNEPP
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US

LAMAM, Lamium amplexicaule, = US

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

-35 DP-1 = 1 4/30/2008

-21 DP-1 = 1 4/30/2008

0 DP-1 = 1 4/30/2008

14 DP-1 = 1 4/30/2008

28 DP-1 = 1 4/30/2008

58 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C8008 Protocol ID: KIHCORNEPP
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 3/12/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 53 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008

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:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 4 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

Plant and Soil Science, U of KY

Weed Science Research

A

Application Date: 3/12/2008
Time of Day: 3 PM
Application Method: SPRAY
Application Timing: 45 DBP
Application Placement: BROSOI
Applied By: C H SLACK
Air Temperature, Unit: 54 F
% Relative Humidity: 51
Wind Velocity, Unit: 2 MPH
Wind Direction: SW
Soil Temperature, Unit: 40 F
Soil Moisture: EXCESSIVE
% 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, Type, Scale: STEME W
Height, Unit: 2 IN
Pest 2 Code, Type, Scale: LAMAM W
Height, Unit: 2 IN
Pest 3 Code, Type, Scale: SETFA W
Pest 4 Code, Type, 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 CORN EARLY PREPLANT II

Trial ID: C8009 Protocol ID: US 004-08-01
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMAM	STEME	LAMAM	SETFA
Pest Scientific Name	Stellaria media	Lamium amplexi>	Stellaria media	Lamium amplexi>	Setaria faberi
Pest Name	Common chickwe>	Henbit	Common chickwe>	Henbit	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date	4/15/2008	4/15/2008	4/30/2008	4/30/2008	5/14/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
SE Description					AFTER PLANTING
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	+ 2 WEEK
Days After First/Last Applic.	13 13	13 13	28 15	28 15	42 14
Plant-Eval Interval	-15 DP-1	-15 DP-1	0 DP-1	0 DP-1	14 DP-1
Days After Emergence	-20 DE	-20 DE	-5 DE-	-5 DE-	9 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	PREQUEL	0.83	oz/a	A	99	99	99	99	3	98
	AATREX	1	lb ai/a	A						
	COC	1	% v/v	A						
	WEEDONE LV4	1	pt/a	A						
2	PREQUEL	1.66	oz/a	A	99	99	99	99	2	99
	AATREX	1	lb ai/a	A						
	COC	1	% v/v	A						
	WEEDONE LV4	1	pt/a	A						
3	PREQUEL	2.5	oz/a	A	99	99	99	99	8	95
	AATREX	1	lb ai/a	A						
	COC	1	% v/v	A						
	WEEDONE LV4	1	pt/a	A						
4	PREQUEL	0.83	oz/a	A	99	99	99	99	0	95
	AATREX	1	lb ai/a	A						
	ROUNDUP POWERMAX	22	oz/a	A						
	WEEDONE LV4	1	pt/a	A						
5	PREQUEL	1.66	oz/a	A	99	99	99	99	2	99
	AATREX	1	lb ai/a	A						
	ROUNDUP POWERMAX	22	oz/a	A						
	WEEDONE LV4	1	pt/a	A						
6	PREQUEL	2.5	oz/a	A	99	99	99	99	3	95
	AATREX	1	lb ai/a	A						
	ROUNDUP POWERMAX	22	oz/a	A						
	WEEDONE LV4	1	pt/a	A						
7	PREQUEL	0.83	oz/a	B	99	99	99	99	0	99
	AATREX	1	lb ai/a	B						
	COC	1	% v/v	B						
	WEEDONE LV4	1	pt/a	B						
8	PREQUEL	1.66	oz/a	B	99	99	99	99	5	99
	AATREX	1	lb ai/a	B						
	COC	1	% v/v	B						
	WEEDONE LV4	1	pt/a	B						
9	PREQUEL	0.83	oz/a	B	99	99	99	99	8	99
	AATREX	1	lb ai/a	B						
	COC	1	% v/v	B						
	WEEDONE LV4	1	pt/a	B						
10	PREQUEL	1.66	oz/a	B	99	99	99	99	2	95
	AATREX	1	lb ai/a	B						
	ROUNDUP POWERMAX	22	oz/a	B						
	WEEDONE LV4	1	pt/a	B						
11	PREQUEL	2.5	oz/a	B	99	99	99	99	0	98
	AATREX	1	lb ai/a	B						
	ROUNDUP POWERMAX	22	oz/a	B						
	WEEDONE LV4	1	pt/a	B						

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMACH	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Amaranthus hyb>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Smooth pigweed	Giant foxtail	Giant ragweed
Crop Code			ZEAMX	
BCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	5/14/2008	5/14/2008	5/28/2008	5/28/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING
Rating Timing	+ 2 WEEK	+ 2 WEEK	+ 4 WEEK	+ 4 WEEK
Days After First/Last Applic.	42 14	42 14	56 28	56 28
Plant-Eval Interval	14 DP-1	14 DP-1	28 DP-1	28 DP-1
Days After Emergence	9 DE-1	9 DE-1	23 DE-	23 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11
1	PREQUEL	0.83	oz/a	A	93	91	3	93	91
	AATREX	1	lb ai/a	A					
	COC	1	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
2	PREQUEL	1.66	oz/a	A	96	91	2	96	95
	AATREX	1	lb ai/a	A					
	COC	1	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
3	PREQUEL	2.5	oz/a	A	99	96	8	91	98
	AATREX	1	lb ai/a	A					
	COC	1	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
4	PREQUEL	0.83	oz/a	A	96	96	3	87	90
	AATREX	1	lb ai/a	A					
	ROUNDUP POWERMAX	22	oz/a	A					
	WEEDONE LV4	1	pt/a	A					
5	PREQUEL	1.66	oz/a	A	94	78	3	87	91
	AATREX	1	lb ai/a	A					
	ROUNDUP POWERMAX	22	oz/a	A					
	WEEDONE LV4	1	pt/a	A					
6	PREQUEL	2.5	oz/a	A	94	87	5	93	94
	AATREX	1	lb ai/a	A					
	ROUNDUP POWERMAX	22	oz/a	A					
	WEEDONE LV4	1	pt/a	A					
7	PREQUEL	0.83	oz/a	B	91	90	0	98	87
	AATREX	1	lb ai/a	B					
	COC	1	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
8	PREQUEL	1.66	oz/a	B	99	96	5	96	95
	AATREX	1	lb ai/a	B					
	COC	1	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
9	PREQUEL	0.83	oz/a	B	98	96	10	98	98
	AATREX	1	lb ai/a	B					
	COC	1	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
10	PREQUEL	1.66	oz/a	B	91	85	3	93	89
	AATREX	1	lb ai/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	WEEDONE LV4	1	pt/a	B					
11	PREQUEL	2.5	oz/a	B	95	88	2	98	93
	AATREX	1	lb ai/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	WEEDONE LV4	1	pt/a	B					

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMACH	SETFA	AMBTR	AMACH
Pest Scientific Name	Amaranthus hyb>	Setaria faberi	Ambrosia trifi>	Amaranthus hyb>
Pest Name	Smooth pigweed	Giant foxtail	Giant ragweed	Smooth pigweed
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Scientific Name		Zea mays		
Crop Name		Corn		
Rating Date	5/28/2008	6/18/2008	6/18/2008	6/18/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING
Rating Timing	+ 4 WEEK	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK
Days After First/Last Applic.	56 28	77 49	77 49	77 49
Plant-Eval Interval	28 DP-1	49 DP-1	49 DP-1	49 DP-1
Days After Emergence	23 DE-	44 DE-	44 DE-	44 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	12	13	14	15	16
1	PREQUEL	0.83	oz/a	A	88	2	79	91	78
	AATREX	1	lb ai/a	A					
	COC	1	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
2	PREQUEL	1.66	oz/a	A	84	0	91	95	78
	AATREX	1	lb ai/a	A					
	COC	1	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
3	PREQUEL	2.5	oz/a	A	86	7	82	98	77
	AATREX	1	lb ai/a	A					
	COC	1	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
4	PREQUEL	0.83	oz/a	A	88	2	72	85	73
	AATREX	1	lb ai/a	A					
	ROUNDUP POWERMAX	22	oz/a	A					
	WEEDONE LV4	1	pt/a	A					
5	PREQUEL	1.66	oz/a	A	78	2	78	91	58
	AATREX	1	lb ai/a	A					
	ROUNDUP POWERMAX	22	oz/a	A					
	WEEDONE LV4	1	pt/a	A					
6	PREQUEL	2.5	oz/a	A	83	2	84	94	77
	AATREX	1	lb ai/a	A					
	ROUNDUP POWERMAX	22	oz/a	A					
	WEEDONE LV4	1	pt/a	A					
7	PREQUEL	0.83	oz/a	B	78	0	91	86	68
	AATREX	1	lb ai/a	B					
	COC	1	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
8	PREQUEL	1.66	oz/a	B	90	2	89	95	77
	AATREX	1	lb ai/a	B					
	COC	1	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
9	PREQUEL	0.83	oz/a	B	86	3	93	98	77
	AATREX	1	lb ai/a	B					
	COC	1	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
10	PREQUEL	1.66	oz/a	B	79	0	84	88	72
	AATREX	1	lb ai/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	WEEDONE LV4	1	pt/a	B					
11	PREQUEL	2.5	oz/a	B	87	2	95	94	77
	AATREX	1	lb ai/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	WEEDONE LV4	1	pt/a	B					

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	STEME	LAMAM	STEME	LAMAM	SETFA	
Pest Scientific Name	Stellaria media	Lamium amplexi>	Stellaria media	Lamium amplexi>	Setaria faberi	
Pest Name	Common chickwe>	Henbit	Common chickwe>	Henbit	Giant foxtail	
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Scientific Name					Zea mays	
Crop Name					Corn	
Rating Date	4/15/2008	4/15/2008	4/30/2008	4/30/2008	5/14/2008	5/14/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description					AFTER PLANTING	AFTER PLANTING
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	+ 2 WEEK	+ 2 WEEK
Days After First/Last Applic.	13 13	13 13	28 15	28 15	42 14	42 14
Plant-Eval Interval	-15 DP-1	-15 DP-1	0 DP-1	0 DP-1	14 DP-1	14 DP-1
Days After Emergence	-20 DE	-20 DE	-5 DE-	-5 DE-	9 DE-1	9 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
12	PREQUEL	2.5	oz/a	B	99	99	99	99	8	96
	AATREX	1	lb ai/a	B						
	ROUNDUP POWERMAX	22	oz/a	B						
	WEEDONE LV4	1	pt/a	B						
13	PREQUEL	0.83	oz/a	C	99	99	99	99	7	99
	AATREX	1	lb ai/a	C						
	COC	1	% v/v	C						
	WEEDONE LV4	1	pt/a	C						
14	PREQUEL	1.66	oz/a	C	99	99	99	99	27	99
	AATREX	1	lb ai/a	C						
	COC	1	% v/v	C						
	WEEDONE LV4	1	pt/a	C						
15	PREQUEL	2.5	oz/a	C	99	99	99	99	33	99
	AATREX	1	lb ai/a	C						
	COC	1	% v/v	C						
	WEEDONE LV4	1	pt/a	C						
16	PREQUEL	0.83	oz/a	C	99	99	99	99	7	99
	AATREX	1	lb ai/a	C						
	ROUNDUP POWERMAX	22	oz/a	C						
	WEEDONE LV4	1	pt/a	C						
17	PREQUEL	1.66	oz/a	C	99	99	99	99	20	99
	AATREX	1	lb ai/a	C						
	ROUNDUP POWERMAX	22	oz/a	C						
	WEEDONE LV4	1	pt/a	C						
18	PREQUEL	2.5	oz/a	C	99	99	99	99	27	99
	AATREX	1	lb ai/a	C						
	ROUNDUP POWERMAX	22	oz/a	C						
	WEEDONE LV4	1	pt/a	C						
19	ROUNDUP POWERMAX	22	oz/a	A	99	99	99	99	0	10
	AMS	3.7	% v/v	A						
	WEEDONE LV4	1	pt/a	A						
20	ROUNDUP POWERMAX	22	oz/a	B	99	99	99	99	0	80
	AMS	3.7	% v/v	B						
	WEEDONE LV4	1	pt/a	B						
21	ROUNDUP POWERMAX	22	oz/a	C	99	99	99	99	0	90
	AMS	3.7	% v/v	C						
	WEEDONE LV4	1	pt/a	C						
22	CHECK UNTREATED				0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	0.0	5.9	4.4
Standard Deviation					0.0	0.0	0.0	0.0	3.6	2.7
CV					0.0	0.0	0.0	0.0	49.04	3.01
Bartlett's X2					0.0	0.0	0.0	0.0	10.519	3.694
P(Bartlett's X2)					.	.	.	.	0.571	0.718
Replicate F					0.000	0.000	0.000	0.000	0.817	4.329
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	0.4488	0.0195
Treatment F					0.000	0.000	0.000	0.000	23.079	317.013
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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMACH	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Amaranthus hyb>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Smooth pigweed	Giant foxtail	Giant ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	5/14/2008	5/14/2008	5/28/2008	5/28/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING
Rating Timing	+ 2 WEEK	+ 2 WEEK	+ 4 WEEK	+ 4 WEEK
Days After First/Last Applic.	42 14	42 14	56 28	56 28
Plant-Eval Interval	14 DP-1	14 DP-1	28 DP-1	28 DP-1
Days After Emergence	9 DE-1	9 DE-1	23 DE-	23 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	7	8	9	10	11
12	PREQUEL	2.5	oz/a	B	95	88	8	96	95
	AATREX	1	lb ai/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	WEEDONE LV4	1	pt/a	B					
13	PREQUEL	0.83	oz/a	C	99	92	7	99	99
	AATREX	1	lb ai/a	C					
	COC	1	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
14	PREQUEL	1.66	oz/a	C	99	98	30	99	99
	AATREX	1	lb ai/a	C					
	COC	1	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
15	PREQUEL	2.5	oz/a	C	99	99	37	99	99
	AATREX	1	lb ai/a	C					
	COC	1	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
16	PREQUEL	0.83	oz/a	C	98	90	7	99	98
	AATREX	1	lb ai/a	C					
	ROUNDUP POWERMAX	22	oz/a	C					
	WEEDONE LV4	1	pt/a	C					
17	PREQUEL	1.66	oz/a	C	99	99	23	99	99
	AATREX	1	lb ai/a	C					
	ROUNDUP POWERMAX	22	oz/a	C					
	WEEDONE LV4	1	pt/a	C					
18	PREQUEL	2.5	oz/a	C	99	99	33	98	98
	AATREX	1	lb ai/a	C					
	ROUNDUP POWERMAX	22	oz/a	C					
	WEEDONE LV4	1	pt/a	C					
19	ROUNDUP POWERMAX	22	oz/a	A	10	10	0	0	0
	AMS	3.7	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
20	ROUNDUP POWERMAX	22	oz/a	B	77	80	0	63	53
	AMS	3.7	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
21	ROUNDUP POWERMAX	22	oz/a	C	95	95	0	80	70
	AMS	3.7	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
22	CHECK UNTREATED				0	0	0	0	0
LSD (P=.05)					6.5	11.7	7.8	7.4	6.8
Standard Deviation					3.9	7.1	4.7	4.5	4.1
CV					4.53	8.44	54.96	5.32	4.97
Bartlett's X2					6.756	23.551	14.365	14.749	11.643
P(Bartlett's X2)					0.818	0.052	0.498	0.396	0.706
Replicate F					3.217	2.774	4.893	0.900	6.366
Replicate Prob(F)					0.0501	0.0739	0.0123	0.4142	0.0038
Treatment F					141.327	41.176	17.038	121.273	146.735
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMACH	SETFA	AMBTR	AMACH
Pest Scientific Name	Amaranthus hyb>	Setaria faberi	Ambrosia trifi>	Amaranthus hyb>
Pest Name	Smooth pigweed	Giant foxtail	Giant ragweed	Smooth pigweed
Crop Code		ZEAMX		
BBCH Scale		BCOR		
Crop Scientific Name		Zea mays		
Crop Name		Corn		
Rating Date	5/28/2008	6/18/2008	6/18/2008	6/18/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING	AFTER PLANTING
Rating Timing	+ 4 WEEK	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK
Days After First/Last Applic.	56 28	77 49	77 49	77 49
Plant-Eval Interval	28 DP-1	49 DP-1	49 DP-1	49 DP-1
Days After Emergence	23 DE-	44 DE-	44 DE-	44 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	12	13	14	15	16
12	PREQUEL	2.5	oz/a	B	80	7	96	95	60
	AATREX	1	lb ai/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	WEEDONE LV4	1	pt/a	B					
13	PREQUEL	0.83	oz/a	C	85	0	95	99	75
	AATREX	1	lb ai/a	C					
	COC	1	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
14	PREQUEL	1.66	oz/a	C	93	20	96	99	83
	AATREX	1	lb ai/a	C					
	COC	1	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
15	PREQUEL	2.5	oz/a	C	92	37	99	99	79
	AATREX	1	lb ai/a	C					
	COC	1	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
16	PREQUEL	0.83	oz/a	C	88	3	98	98	67
	AATREX	1	lb ai/a	C					
	ROUNDUP POWERMAX	22	oz/a	C					
	WEEDONE LV4	1	pt/a	C					
17	PREQUEL	1.66	oz/a	C	91	13	96	99	78
	AATREX	1	lb ai/a	C					
	ROUNDUP POWERMAX	22	oz/a	C					
	WEEDONE LV4	1	pt/a	C					
18	PREQUEL	2.5	oz/a	C	98	27	98	98	86
	AATREX	1	lb ai/a	C					
	ROUNDUP POWERMAX	22	oz/a	C					
	WEEDONE LV4	1	pt/a	C					
19	ROUNDUP POWERMAX	22	oz/a	A	0	0	0	0	0
	AMS	3.7	% v/v	A					
	WEEDONE LV4	1	pt/a	A					
20	ROUNDUP POWERMAX	22	oz/a	B	63	0	0	0	0
	AMS	3.7	% v/v	B					
	WEEDONE LV4	1	pt/a	B					
21	ROUNDUP POWERMAX	22	oz/a	C	82	0	0	0	0
	AMS	3.7	% v/v	C					
	WEEDONE LV4	1	pt/a	C					
22	CHECK UNTREATED				0	0	0	0	0
LSD (P=.05)					11.4	6.8	7.9	7.9	15.1
Standard Deviation					6.9	4.1	4.8	4.8	9.2
CV					8.93	71.25	6.53	6.21	15.03
Bartlett's X2					30.756	17.734	16.175	13.123	18.057
P(Bartlett's X2)					0.031*	0.168	0.371	0.438	0.385
Replicate F					2.708	9.206	0.477	5.745	1.366
Replicate Prob(F)					0.0783	0.0005	0.6242	0.0062	0.2661
Treatment F					42.463	17.248	170.721	183.338	32.409
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPLANT II

Trial ID: C8009 Protocol ID: US 004-08-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US

LAMAM, Lamium amplexicaule, = US

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

AMACH, Amaranthus hybridus, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

-15 DP-1 = 1 4/30/2008

0 DP-1 = 1 4/30/2008

14 DP-1 = 1 4/30/2008

28 DP-1 = 1 4/30/2008

49 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPLANT II

Trial ID: C8009 Protocol ID: US 004-08-01
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/2/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 53 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008

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:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** SPLBLO Split-Block

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL

Plant and Soil Science, U of KY

Weed Science Research

Closest Weather Station: SPINDLETOP

Distance, Unit: 1.5 MI

Application Description

	A	B	C
Application Date:	4/2/2008	4/15/2008	4/30/2008
Time of Day:	11 AM	2 PM	5 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	30 DBP	14 DBP	PRE
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	47 F	53 F	63 F
% Relative Humidity:	56	34	45
Wind Velocity, Unit:	8 MPH	5 MPH	6 MPH
Wind Direction:	NE	NW	SSE
Soil Temperature, Unit:	49 F	50 F	53 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	0	50

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	4 IN	6 IN	6 IN
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	4 IN	6 IN	6 IN
Pest 3 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:			2 IN
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:			2 IN
Pest 5 Code, Type, Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:			1 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	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed
Pest Code	AMBTR	IPOSS
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant ragweed	Morning glory
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7/31/2008	7/31/2008
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Number of Subsamples	1	1
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	111 55	111 55
Plant-Eval Interval	92 DP-1	92 DP-1
Days After Emergence	86 DE-	86 DE-
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	17	18
1	DURANGO DMA	24 fl oz/a	A		95	90
	AMS	3.7 % v/v	A			
	SURESTART	3 pt/a	A			
	DURANGO DMA	24 fl oz/a	D			
2	AMS	3.7 % v/v	D		95	93
	DURANGO DMA	24 fl oz/a	A			
	AMS	3.7 % v/v	A			
	SURESTART	3 pt/a	A			
	AATREX	1 qt/a	A			
	DURANGO DMA	24 fl oz/a	D			
3	AMS	3.7 % v/v	B		90	88
	DURANGO DMA	24 fl oz/a	B			
	AMS	3.7 % v/v	B			
	SURESTART	1.75 pt/a	B			
4	DURANGO DMA	24 fl oz/a	D		95	92
	AMS	3.7 % v/v	D			
	SURESTART	2 pt/a	B			
	DURANGO DMA	24 fl oz/a	B			
5	AMS	3.7 % v/v	B		93	89
	DURANGO DMA	24 fl oz/a	B			
	AMS	3.7 % v/v	B			
	SURESTART	2 pt/a	B			
	AATREX	1 qt/a	B			
	DURANGO DMA	24 fl oz/a	D			
6	AMS	3.7 % v/v	D		96	96
	DURANGO DMA	24 fl oz/a	B			
	AMS	3.7 % v/v	B			
	SURESTART	1.75 pt/a	C			
	DURANGO DMA	24 fl oz/a	C			
	AMS	3.7 % v/v	C			

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMPU	STEME		SETFA	AMBTR	IPOSS					
Pest Scientific Name	Lamium purpure>	Stellaria media		Setaria faberi	Ambrosia trifi>	Ipomoea sp.					
Pest Name	Purple deadnet>	Common chickwe>		Giant foxtail	Giant ragweed	Morning glory					
Crop Code			ZEAMX				ZEAMX				
BBCH Scale			BCOR				BCOR				
Crop Scientific Name			Zea mays				Zea mays				
Crop Name			Corn				Corn				
Rating Date	4/25/2008	4/25/2008	5/27/2008	5/27/2008	5/27/2008	5/27/2008	6/20/2008				
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1	1	1				
Rating Timing	2 WEEK	2 WEEK	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK				
Days After First/Last Applic.	14 14	14 14	46 26	46 26	46 26	46 26	70 14				
Plant-Eval Interval	-5 DP-1	-5 DP-1	27 DP-1	27 DP-1	27 DP-1	27 DP-1	51 DP-1				
Days After Emergence	-11 DE	-11 DE	21 DE-	21 DE-	21 DE-	21 DE-	45 DE-				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
7	ROUNDUP POWERMAX	22	fl oz/a	B	99	99	0	85	78	78	0
	AMS	3.7	% v/v	B							
	LEXAR	1.75	qt/a	B							
	HALEX GT	3.6	pt/a	D							
	INDUCE	0.25	% v/v	D							
	LSD (P=.05)	0.0			0.0	0.0	0.0	29.1	38.7	36.5	0.0
	Standard Deviation	0.0			0.0	0.0	0.0	16.4	21.8	20.5	0.0
	CV	0.0			0.0	0.0	0.0	24.0	37.99	36.72	0.0
	Bartlett's X2	0.0			0.0	0.0	0.0	6.018	5.703	5.901	0.0
	P(Bartlett's X2)	0.421	0.457	0.434	.
	Replicate F	0.000			0.000	0.000	0.000	1.570	2.085	2.375	0.000
	Replicate Prob(F)	1.0000			1.0000	1.0000	1.0000	0.2480	0.1671	0.1352	1.0000
	Treatment F	0.000			0.000	0.000	0.000	3.869	2.109	2.418	0.000
	Treatment Prob(F)	1.0000			1.0000	1.0000	1.0000	0.0220	0.1278	0.0910	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	IPOSS		SETFA	AMBTR	IPOSS				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.				
Pest Name	Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory				
Crop Code				ZEAMX				ZEAMX			
BBCH Scale				BCOR				BCOR			
Crop Scientific Name				Zea mays				Zea mays			
Crop Name				Corn				Corn			
Rating Date	6/20/2008	6/20/2008	6/20/2008	7/3/2008	7/3/2008	7/3/2008	7/3/2008	7/31/2008			
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1	1	1	1			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK			
Days After First/Last Applic.	70 14	70 14	70 14	83 27	83 27	83 27	83 27	111 55			
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	92 DP-1			
Days After Emergence	45 DE-	45 DE-	45 DE-	58 DE-	58 DE-	58 DE-	58 DE-	86 DE-			
ARM Action Codes	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	8	9	10	11	12	13	14	15
7	ROUNDUP POWERMAX	22 fl oz/a	B	95	95	93	0	95	95	93	0
	AMS	3.7 % v/v	B								
	LEXAR	1.75 qt/a	B								
	HALEX GT	3.6 pt/a	D								
	INDUCE	0.25 % v/v	D								
	LSD (P=.05)			3.5	6.6	7.3	0.0	2.8	6.6	6.7	0.0
	Standard Deviation			1.9	3.7	4.1	0.0	1.6	3.7	3.8	0.0
	CV			2.06	3.97	4.47	0.0	1.65	3.97	4.1	0.0
	Bartlett's X2			0.534	3.072	2.546	0.0	0.118	3.072	6.778	0.0
	P(Bartlett's X2)			0.766	0.215	0.863	.	0.943	0.215	0.238	.
	Replicate F			3.794	0.932	0.291	0.000	3.059	0.932	0.346	0.000
	Replicate Prob(F)			0.0529	0.4204	0.7526	1.0000	0.0844	0.4204	0.7145	1.0000
	Treatment F			0.496	0.971	1.066	0.000	1.392	0.971	1.643	0.000
	Treatment Prob(F)			0.7999	0.4843	0.4331	1.0000	0.2940	0.4843	0.2184	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Giant ragweed	Morning glory
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	7/31/2008	7/31/2008	7/31/2008
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	111 55	111 55	111 55
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1
Days After Emergence	86 DE-	86 DE-	86 DE-
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	16	17	18
7	ROUNDUP POWERMAX	22 fl oz/a	B		95	95	93
	AMS	3.7 % v/v	B				
	LEXAR	1.75 qt/a	B				
	HALEX GT	3.6 pt/a	D				
	INDUCE	0.25 % v/v	D				
	LSD (P=.05)				2.8	6.6	6.7
	Standard Deviation				1.6	3.7	3.8
	CV				1.65	3.97	4.1
	Bartlett's X2				0.118	3.072	6.778
	P(Bartlett's X2)				0.943	0.215	0.238
	Replicate F				3.059	0.932	0.346
	Replicate Prob(F)				0.0844	0.4204	0.7145
	Treatment F				1.392	0.971	1.643
	Treatment Prob(F)				0.2940	0.4843	0.2184

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPLANT III

Trial ID: C8010 Protocol ID: CORNEPP DOW
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, *Lamium purpureum*, = US

STEME, *Stellaria media*, = US

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

-5 DP-1 = 1 4/30/2008

27 DP-1 = 1 4/30/2008

51 DP-1 = 1 4/30/2008

64 DP-1 = 1 4/30/2008

92 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPLANT III

Trial ID: C8010 Protocol ID: CORNEPP DOW
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/11/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 58 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/6/2008

Pest Description

Pest 1 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettle

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 3 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 4 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 5 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL

Plant and Soil Science, U of KY

Weed Science Research

Closest Weather Station: SPINDLETOP

Distance, Unit: 1.5 MI

Application Description

	A	B	C	D
Application Date:	4/11/2008	5/1/2008	5/27/2008	6/6/2008
Time of Day:	2 PM	7 PM	4 PM	3 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	21DBP	PRE	EP	LP
Application Placement:	BROFOL	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	72 F	79 F	92 F
% Relative Humidity:	40	40	65	46
Wind Velocity, Unit:	4 MPH	10 MPH	6 MPH	8 MPH
Wind Direction:	SW	SSW	SW	SSW
Soil Temperature, Unit:	59 F	56 F	67 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	0	80	30	0

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:			V2	
Height, Unit:			6 IN	8 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W	LAMPU W
Height, Unit:	6 IN	6 IN		
Pest 2 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W
Height, Unit:	4 IN	6 IN		
Pest 3 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:			1 IN	4 IN
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:			2 IN	6 IN
Pest 5 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:			1 IN	3 IN

Application Equipment

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

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed
Pest Code	ERICA	IPOSS
Pest Scientific Name	Conyza canadens	Ipomoea sp.
Pest Name	Mare's tail	Morning glory
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7/16/2008	7/16/2008
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Number of Subsamples	1	1
Rating Timing	+ 8 WEEK	+ WEEK
Days After First/Last Applic.	83 55	83 55
Plant-Eval Interval	76 DP-1	76 DP-1
Days After Emergence	69 DE-	69 DE-
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	23	24
1	CHECK UNTREATED				0	0
2	ROUNDUP POWERMAX	22 fl oz/a	A		95	78
	AMS	3.7 % v/v	A			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
3	ROUNDUP POWERMAX	22 fl oz/a	A		93	82
	AATREX	1 qt/a	A			
	AMS	3.7 % v/v	A			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
4	ROUNDUP POWERMAX	22 fl oz/a	A		96	85
	VALOR SX	2 oz/a	A			
	AMS	3.7 % v/v	A			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
5	ROUNDUP POWERMAX	22 fl oz/a	A		96	85
	VALOR SX	2 oz/a	A			
	AATREX	1 qt/a	A			
	AMS	3.7 % v/v	A			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
6	ROUNDUP POWERMAX	22 fl oz/a	B		99	85
	BICEP II MAGNUM	1.5 qt/a	B			
	AMS	3.7 % v/v	B			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
7	ROUNDUP POWERMAX	22 fl oz/a	B		98	89
	LEXAR	1.5 qt/a	B			
	AMS	3.7 % v/v	B			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
8	ROUNDUP POWERMAX	22 fl oz/a	A		91	87
	VALOR SX	1.75 oz/a	A			
	SENCOR	4 oz/a	A			
	AMS	3.7 % v/v	A			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AMS	3.7 % v/v	C			
9	ROUNDUP POWERMAX	22 fl oz/a	A		96	91
	VALOR SX	2 oz/a	A			
	AMS	3.7 % v/v	A			
	ROUNDUP POWERMAX	22 fl oz/a	C			
	AATREX	1 qt/a	C			
	AMS	3.7 % v/v	C			

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	AMBTR	ERICA		SETFA	AMBTR
Pest Scientific Name	Lamium purpure>	Stellaria media	Ambrosia trifi>	Conyza canaden>		Setaria faberi	Ambrosia trifi>
Pest Name	Purple deadnet>	Common chickwe>	Giant ragweed	Mare's tail		Giant foxtail	Giant ragweed
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Scientific Name					Zea mays		
Crop Name					Corn		
Rating Date	5/15/2008	5/15/2008	5/15/2008	5/15/2008	5/22/2008	5/22/2008	5/22/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	AT POST	AT POST	AT POST
Days After First/Last Applic.	21 14	21 14	21 14	21 14	28 21	28 21	28 21
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	21 DP-1	21 DP-1	21 DP-1
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	14 DE-	14 DE-	14 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
10	ROUNDUP POWERMAX	22	fl oz/a	A	99	99	83	99	0	99	60
	VALOR SX	0.063	lb ai/a	A							
	AMS	3.7	% v/v	A							
	ROUNDUP POWERMAX	22	fl oz/a	C							
	AMS	3.7	% v/v	C							
LSD (P=.05)					0.0	0.0	5.2	0.0	0.0	1.3	10.0
Standard Deviation					0.0	0.0	3.1	0.0	0.0	0.7	5.8
CV					0.0	0.0	3.59	0.0	0.0	0.82	7.83
Bartlett's X2					0.0	0.0	1.603	0.0	0.0	0.0	10.906
P(Bartlett's X2)					.	.	0.808	.	.	.	0.143
Replicate F					0.000	0.000	4.645	0.000	0.000	1.000	0.330
Replicate Prob(F)					1.0000	1.0000	0.0236	1.0000	1.0000	0.3874	0.7232
Treatment F					0.000	0.000	295.104	0.000	0.000	5497.563	80.226
Treatment Prob(F)					1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	IPOSS	SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name	Conyza canadens>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Conyza canadens>	Ipomoea sp.
Pest Name	Mare's tail	Morning glory	Giant foxtail	Giant ragweed	Mare's tail	Morning glory
Crop Code			ZEAMX			
BBCH Scale			BCOR			
Crop Scientific Name			Zea mays			
Crop Name			Corn			
Rating Date	5/22/2008	5/22/2008	6/5/2008	6/5/2008	6/5/2008	6/5/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT POST	AT POST	+ 2 WEEK	+ 2 WEEK	+ 2 WEEK	+ 2 WEEK
Days After First/Last Applic.	28 21	28 21	42 14	42 14	42 14	42 14
Plant-Eval Interval	21 DP-1	21 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	14 DE-	14 DE-	28 DE-	28 DE-	28 DE-	28 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13	14
10	ROUNDUP POWERMAX	22	fl oz/a	A	87	99	0	99	99	98	99
	VALOR SX	0.063	lb ai/a	A							
	AMS	3.7	% v/v	A							
	ROUNDUP POWERMAX	22	fl oz/a	C							
	AMS	3.7	% v/v	C							
	LSD (P=.05)				9.9	3.0	0.0	1.3	1.3	2.2	1.3
	Standard Deviation				5.8	1.7	0.0	0.7	0.7	1.3	0.7
	CV				6.78	1.94	0.0	0.82	0.82	1.43	0.82
	Bartlett's X2				8.094	1.163	0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				0.151	0.281	.	.	.	.	.
	Replicate F				1.145	1.899	0.000	1.000	1.000	1.000	1.000
	Replicate Prob(F)				0.3402	0.1785	1.0000	0.3874	0.3874	0.3874	0.3874
	Treatment F				81.669	982.472	0.000	5497.563	5497.563	1821.966	5497.563
	Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	ERICA	IPOSS	SETFA	AMBTR						
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Conyza canaden>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>						
Pest Name	Giant foxtail	Giant ragweed	Mare's tail	Morning glory	Giant foxtail	Giant ragweed						
Crop Code	ZEAMX			ZEAMX								
BBCH Scale	BCOR			BCOR								
Crop Scientific Name	Zea mays			Zea mays								
Crop Name	Corn			Corn								
Rating Date	6/19/2008	6/19/2008	6/19/2008	6/19/2008	6/19/2008	7/16/2008	7/16/2008	7/16/2008				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1	1	1	1				
Rating Timing	+ 4 WEEK	+ 4 WEEK	+ 4 WEEK	+ 4 WEEK	+ 4 WEEK	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK				
Days After First/Last Applic.	56 28	56 28	56 28	56 28	56 28	83 55	83 55	83 55				
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	76 DP-1	76 DP-1	76 DP-1				
Days After Emergence	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	69 DE-	69 DE-	69 DE-				
ARM Action Codes	P	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19	20	21	22
10	ROUNDUP POWERMAX	22	fl oz/a	A	0	78	53	95	73	0	78	53
	VALOR SX	0.063	lb ai/a	A								
	AMS	3.7	% v/v	A								
	ROUNDUP POWERMAX	22	fl oz/a	C								
	AMS	3.7	% v/v	C								
LSD (P=.05)					0.0	19.5	23.0	5.1	10.7	0.0	19.5	19.0
Standard Deviation					0.0	11.3	13.4	3.0	6.3	0.0	11.3	11.1
CV					0.0	13.86	18.51	3.44	8.17	0.0	13.86	15.59
Bartlett's X2					0.0	24.598	20.46	6.751	6.397	0.0	24.598	26.352
P(Bartlett's X2)					.	0.001*	0.009*	0.24	0.38	.	0.001*	0.001*
Replicate F					0.000	0.241	0.296	5.649	0.171	0.000	0.241	1.774
Replicate Prob(F)					1.0000	0.7880	0.7474	0.0125	0.8438	1.0000	0.7880	0.1981
Treatment F					0.000	20.744	15.364	315.714	57.761	0.000	20.744	22.946
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed
Pest Code	ERICA	IPOSS
Pest Scientific Name	Conyza canadensis	Ipomoea sp.
Pest Name	Mare's tail	Morning glory
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7/16/2008	7/16/2008
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Number of Subsamples	1	1
Rating Timing	+ 8 WEEK	+ WEEK
Days After First/Last Applic.	83 55	83 55
Plant-Eval Interval	76 DP-1	76 DP-1
Days After Emergence	69 DE-	69 DE-
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	23	24
10	ROUNDUP POWERMAX	22	fl oz/a	A	95	67
	VALOR SX	0.063	lb ai/a	A		
	AMS	3.7	% v/v	A		
	ROUNDUP POWERMAX	22	fl oz/a	C		
	AMS	3.7	% v/v	C		
	LSD (P=.05)				5.1	8.8
	Standard Deviation				3.0	5.1
	CV				3.44	6.84
	Bartlett's X2				6.751	10.314
	P(Bartlett's X2)				0.24	0.112
	Replicate F				5.649	0.309
	Replicate Prob(F)				0.0125	0.7380
	Treatment F				315.714	84.624
	Treatment Prob(F)				0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPANT IV

Trial ID: C8011 Protocol ID: VAL CORNEPP
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, = US

STEME, Stellaria media, = US

AMBTR, Ambrosia trifida, = US

ERICA, Conyza canadensis, = US

SETFA, Setaria faberi, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

14 DP-1 = 1 5/1/2008

21 DP-1 = 1 5/1/2008

35 DP-1 = 1 5/1/2008

49 DP-1 = 1 5/1/2008

76 DP-1 = 1 5/1/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL CORN EARLY PREPANT IV

Trial ID: C8011 Protocol ID: VAL CORNEPP
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/24/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 5/1/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 56 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/8/2008

Pest Description

Pest 1 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 3 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 4 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Mare's tail

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL

Plant and Soil Science, U of KY

Weed Science Research

Closest Weather Station: SPINDLETOP

Distance, Unit: 1.5 MI

Application Description

	A	B	C
Application Date:	4/24/2008	5/1/2008	5/22/2008
Time of Day:	2 PM	7 PM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	7DBP	PRE	21D
Application Placement:	BROFOL	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	72 F	75 F
% Relative Humidity:	48	40	50
Wind Velocity, Unit:	4 MPH	8 MPH	6 MPH
Wind Direction:	WSW	SSW	SW
Soil Temperature, Unit:	59 F	56 F	59 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	30	80	20

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		V1	V2
Height, Unit:		4 IN	6 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W
Height, Unit:	6 IN	6 IN	
Pest 2 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	6 IN	6 IN	
Pest 3 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	2 IN	4 IN	6 IN
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	6 IN	8 IN
Pest 5 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:	4 IN	2 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:	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	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	7/23/2008	7/23/2008	7/23/2008	7/23/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	12 WEEK	12 WEEK	12 WEEK	12 WEEK
Days After First/Last Applic.	84 47	84 47	84 47	84 47
Trt-Eval Interval				
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	77 DE-	77 DE-	77 DE-	77 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Appl					
No.	Name	Rate	Unit	Code	17	18	19	20
1	PARALLEL	1.5	pt/a	A	0	99	99	91
	ROUNDUP WeatherMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
2	PARALLEL	1.5	pt/a	A	0	99	99	92
	LAUDIS	3	fl oz/a	B				
	AATREX	2	pt/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
3	PARALLEL	1.5	pt/a	A	0	99	98	88
	IMPACT	0.75	fl oz/a	B				
	AATREX	2	pt/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
4	PARALLEL	1.5	pt/a	A	0	99	99	98
	CALLISTO	3	fl oz/a	B				
	AATREX	2	pt/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
5	DUAL II MAGNUM	1.5	pt/a	A	0	99	99	86
	ROUNDUP WeatherMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
6	DUAL II MAGNUM	1.5	pt/a	A	0	99	99	93
	LAUDIS	3	fl oz/a	B				
	AATREX	2	pt/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
7	DUAL II MAGNUM	1.5	pt/a	A	0	99	99	94
	IMPACT	0.75	fl oz/a	B				
	AATREX	2	pt/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
8	DUAL II MAGNUM	1.5	pt/a	A	0	99	99	98
	CALLISTO	3	fl oz/a	B				
	AATREX	2	pt/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
9	PARALLEL PLUS	1.5	pt/a	A	0	99	99	91
	ROUNDUP WeatherMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
10	PARALLEL PLUS	1.5	pt/a	A	0	96	99	91
	LAUDIS	3	fl oz/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	SETFA				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi				
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail				
Crop Code	ZEAMX			ZEAMX							
BBCH Scale	BCOR			BCOR							
Crop Scientific Name	Zea mays			Zea mays							
Crop Name	Corn			Corn							
Rating Date	5/14/2008	5/14/2008	5/14/2008	5/14/2008	5/28/2008	5/28/2008	5/28/2008				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1	1	1				
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	28 28	28 28	28 28				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	34 DA-A	34 DA-A	34 DA-A				
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1	28 DP-1				
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	21 DE-	21 DE-	21 DE-				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7	8
11 PARALLEL PLUS	1.5	pt/a	A	0	99	99	99	0	99	77	77
IMPACT	0.75	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
12 PARALLEL PLUS	1.5	pt/a	A	0	99	99	99	0	99	86	88
CALLISTO	3	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
13 BICEP II MAGNUM	1.5	qt/a	A	0	99	99	99	0	99	90	92
ROUNDUP WeatherMAX	22	fl oz/a	B								
AMS	3.7	% v/v	B								
14 BICEP II MAGNUM	1.5	qt/a	A	0	99	99	99	0	99	89	92
LAUDIS	3	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
15 BICEP II MAGNUM	1.5	qt/a	A	0	99	99	99	0	99	81	83
IMPACT	0.75	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
16 BICEP II MAGNUM	1.5	qt/a	A	0	99	99	99	0	99	89	89
CALLISTO	3	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
17 ROUNDUP WeatherMAX	22	fl oz/a	B	0	0	0	0	0	0	0	0
AMS	3.7	% v/v	B								
18 CHECK UNTREATED				0	0	0	0	0	0	0	0
LSD (P=.05)				0.0	0.0	1.1	0.0	0.0	0.0	10.9	14.9
Standard Deviation				0.0	0.0	0.7	0.0	0.0	0.0	6.6	9.0
CV				0.0	0.0	0.89	0.0	0.0	0.0	10.13	13.59
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	9.632	11.123
P(Bartlett's X2)				.	.	.	.	.	.	0.789	0.676
Replicate F				0.000	0.000	1.000	0.000	0.000	0.000	1.502	0.034
Replicate Prob(F)				1.0000	1.0000	0.3784	1.0000	1.0000	1.0000	0.2371	0.9665
Treatment F				0.000	0.000	6303.069	0.000	0.000	0.000	50.721	27.511
Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	SETFA				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi				
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail				
Crop Code	ZEAMX			ZEAMX							
BBCH Scale	BCOR			BCOR							
Crop Scientific Name	Zea mays			Zea mays							
Crop Name	Corn			Corn							
Rating Date	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/25/2008	6/25/2008	6/25/2008				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1	1	1				
Rating Timing	6 WEEK	6 WEEK	6 WEEK	6 WEEK	8 WEEK	8 WEEK	8 WEEK				
Days After First/Last Applic.	42 5	42 5	42 5	42 5	56 19	56 19	56 19				
Trt-Eval Interval											
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	56 DP-1	56 DP-1	56 DP-1				
Days After Emergence	35 DE-	35 DE-	35 DE-	35 DE-	49 DE-	49 DE-	49 DE-				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt Treatment	Rate	Unit	Appl Code	9	10	11	12	13	14	15	16
11 PARALLEL PLUS	1.5	pt/a	A	0	98	98	92	0	98	98	88
IMPACT	0.75	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
12 PARALLEL PLUS	1.5	pt/a	A	0	98	99	95	0	98	99	94
CALLISTO	3	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
13 BICEP II MAGNUM	1.5	qt/a	A	0	99	92	86	0	99	92	84
ROUNDUP WeatherMAX	22	fl oz/a	B								
AMS	3.7	% v/v	B								
14 BICEP II MAGNUM	1.5	qt/a	A	0	99	95	88	0	99	95	85
LAUDIS	3	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
15 BICEP II MAGNUM	1.5	qt/a	A	0	98	98	90	0	98	98	88
IMPACT	0.75	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
16 BICEP II MAGNUM	1.5	qt/a	A	0	99	99	99	0	99	99	98
CALLISTO	3	fl oz/a	B								
COC	1	% v/v	B								
LIQUID N	1.5	% v/v	B								
17 ROUNDUP WeatherMAX	22	fl oz/a	B	0	99	99	94	0	98	99	92
AMS	3.7	% v/v	B								
18 CHECK UNTREATED				0	0	0	0	0	0	0	0
LSD (P=.05)				0.0	1.9	3.8	6.6	0.0	2.8	3.8	6.7
Standard Deviation				0.0	1.1	2.3	4.0	0.0	1.7	2.3	4.0
CV				0.0	1.19	2.45	4.52	0.0	1.81	2.45	4.69
Bartlett's X2				0.0	0.0	4.227	4.177	0.0	2.588	4.227	9.495
P(Bartlett's X2)				.	.	0.376	0.98	.	0.629	0.376	0.892
Replicate F				0.000	0.239	0.399	0.570	0.000	0.007	0.399	1.456
Replicate Prob(F)				1.0000	0.7884	0.6742	0.5710	1.0000	0.9935	0.6742	0.2473
Treatment F				0.000	1312.452	313.370	94.560	0.000	569.831	313.370	88.169
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	7/23/2008	7/23/2008	7/23/2008	7/23/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	12 WEEK	12 WEEK	12 WEEK	12 WEEK
Days After First/Last Applic.	84 47	84 47	84 47	84 47
Trt-Eval Interval				
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	77 DE-	77 DE-	77 DE-	77 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	17	18	19	20
11	PARALLEL PLUS	1.5	pt/a	A	0	98	98	88
	IMPACT	0.75	fl oz/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
12	PARALLEL PLUS	1.5	pt/a	A	0	98	99	94
	CALLISTO	3	fl oz/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
13	BICEP II MAGNUM	1.5	qt/a	A	0	99	92	84
	ROUNDUP WeatherMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
14	BICEP II MAGNUM	1.5	qt/a	A	0	99	95	85
	LAUDIS	3	fl oz/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
15	BICEP II MAGNUM	1.5	qt/a	A	0	98	98	88
	IMPACT	0.75	fl oz/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
16	BICEP II MAGNUM	1.5	qt/a	A	0	99	99	98
	CALLISTO	3	fl oz/a	B				
	COC	1	% v/v	B				
	LIQUID N	1.5	% v/v	B				
17	ROUNDUP WeatherMAX	22	fl oz/a	B	0	98	99	92
	AMS	3.7	% v/v	B				
18	CHECK UNTREATED				0	0	0	0
	LSD (P=.05)				0.0	2.8	3.8	6.7
	Standard Deviation				0.0	1.7	2.3	4.0
	CV				0.0	1.81	2.45	4.69
	Bartlett's X2				0.0	2.588	4.227	9.495
	P(Bartlett's X2)				.	0.629	0.376	0.892
	Replicate F				0.000	0.007	0.399	1.456
	Replicate Prob(F)				1.0000	0.9935	0.6742	0.2473
	Treatment F				0.000	569.831	313.370	88.169
	Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE

Trial ID: C8016 Protocol ID: MANA MEC-1
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

14 DP-1 = 1 4/30/2008

28 DP-1 = 1 4/30/2008

42 DP-1 = 1 4/30/2008

56 DP-1 = 1 4/30/2008

84 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE

Trial ID: C8016 Protocol ID: MANA MEC-1
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/7/2008

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: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4/30/2008	6/6/2008
Time of Day:	3 PM	9 AM
Application Method:	SPRAY	SPRAY

Plant and Soil Science, U of KY

Weed Science Research

Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	82 F
% Relative Humidity:	41	67
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	S	S
Soil Temperature, Unit:	56 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		2 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		4 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:		3 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	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

Weed Science Research

Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		
Pest Name	Giant foxtail	Giant ragweed	Morning glory		
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	8/7/2008	8/7/2008	8/7/2008	8/7/2008	9/18/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
SE Description	AFTER LP	AFTER LP	AFTER LP	AFTER LP	
Rating Timing	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK	
Days After First/Last Applic.	99 51	99 51	99 51	99 51	141 93
Plant-Eval Interval	99 DP-1	99 DP-1	99 DP-1	99 DP-1	141 DP-1
Days After Emergence	94 DE-	94 DE-	94 DE-	94 DE-	136 DE
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	17	18	19	20	24
1	SURESTART	1.75	pt/a	A	0	96	93	83	110.2
	DURANGO	24	fl oz/a	D					
	AMS	3.7	% v/v	D					
2	SURESTART	2	pt/a	A	0	98	98	86	102.4
	DURANGO	24	fl oz/a	D					
	AMS	3.7	% v/v	D					
3	SURESTART	2	pt/a	A	0	98	98	89	105.1
	AATREX	1	qt/a	A					
	DURANGO	24	fl oz/a	D					
	AMS	3.7	% v/v	D					
4	SURESTART	1.75	pt/a	B	0	98	95	77	108.6
	DURANGO	24	fl oz/a	B					
	AMS	3.7	% v/v	B					
5	CADET	0.4	fl oz/a	C	0	87	90	70	106.3
	ROUNDUP POWERMAX	16	fl oz/a	C					
	AMS	3.7	% v/v	C					
6	DUAL II MAGNUM	1.3	lb ai/a	A	0	96	63	63	76.1
	CADET	0.6	fl oz/a	C					
	COC	1	% v/v	C					
7	BICEP II MAGNUM	1.3	qt/a	A	0	99	99	92	103.1
	HALEX GT	3.6	pt/a	C					
	INDUCE	0.25	% v/v	C					
8	LEXAR	2.25	qt/a	A	0	99	99	98	110.5
	HALEX GT	3.6	pt/a	C					
	INDUCE	0.25	% v/v	C					
9	LAUDIS	3	fl oz/a	C	0	95	96	79	97.0
	ROUNDUP POWERMAX	22	fl oz/a	C					
	AMS	3.7	% v/v	C					
10	BAS 781	13	fl oz/a	A	0	98	96	89	95.2
	ROUNDUP POWERMAX	32	oz/a	C					
	INDUCE	0.25	% v/v	C					
	AMS	3.7	% v/v	C					
11	KIXOR	3	fl oz/a	A	0	98	87	85	77.3
	OUTLOOK	18	fl oz/a	A					
12	KIXOR	3	fl oz/a	A	0	99	99	95	91.3
	OUTLOOK	18	fl oz/a	A					
	ROUNDUP POWERMAX	22	fl oz/a	E					
	AMS	3.7	% v/v	E					
13	STALWART XTRA	2.1	qt/a	A	0	96	78	83	81.2
14	STALWART XTRA	2.1	qt/a	B	0	98	99	88	86.7
	ROUNDUP POWERMAX	22	fl oz/a	B					
15	HALOMAX 75	0.67	oz/a	C	0	20	67	43	88.0
	INDUCE	0.25	% v/v	C					
	AMS	3.7	% v/v	C					

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS		SETFA	AMBTR	IPOSS				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.				
Pest Name	Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory				
Crop Code	ZEAMX				ZEAMX				ZEAMX		
BBCH Scale	BCOR				BCOR				BCOR		
Crop Scientific Name	Zea mays				Zea mays				Zea mays		
Crop Name	Corn				Corn				Corn		
Rating Date	5/27/2008	5/27/2008	5/27/2008	5/27/2008	6/7/2008	6/7/2008	6/7/2008	6/7/2008	6/23/2008		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
SE Description	BEFORE EP	BEFORE EP	BEFORE EP	BEFORE EP	BEFORE LP	BEFORE LP	BEFORE LP	BEFORE LP	AFTER LP		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	BEFORE LP	BEFORE LP	BEFORE LP	BEFORE LP	+ 2 WEEK		
Days After First/Last Applic.	27 27	27 27	27 27	27 27	38 8	38 8	38 8	38 8	54 6		
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	27 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	54 DP-1		
Days After Emergence	22 DE-	22 DE-	22 DE-	22 DE-	33 DE-	33 DE-	33 DE-	33 DE-	49 DE-		
ARM Action Codes	P	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0		0	0	0	0		
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code	1	2	3	4	5	6	7	8	9
16 PERMIT	0.67 oz/a	C	0	0	0	0	0.0	10	73	37	0
INDUCE	0.25 % v/v	C									
AMS	3.7 % v/v	C									
LSD (P=.05)			0.0	2.5	7.7	7.1	0.00	2.9	8.2	13.3	0.0
Standard Deviation			0.0	1.5	4.6	4.3	0.00	1.7	4.9	7.9	0.0
CV			0.0	2.51	8.15	7.62	0.0	2.0	5.5	9.63	0.0
Bartlett's X2			0.0	0.0	8.682	8.194	0.0	0.0	12.966	24.604	0.0
P(Bartlett's X2)			.	1.00	0.276	0.224	.	1.00	0.296	0.017*	.
Replicate F			0.000	1.000	1.229	1.065	0.000	2.778	1.581	1.064	0.000
Replicate Prob(F)			1.0000	0.3798	0.3070	0.3575	1.0000	0.0782	0.2224	0.3578	1.0000
Treatment F			0.000	3058.722	295.434	336.068	0.000	893.895	12.175	22.150	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS		SETFA	AMBTR	IPOSS		SETFA		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi		
Pest Name	Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail		
Crop Code				ZEAMX				ZEAMX			
BBCH Scale				BCOR				BCOR			
Crop Scientific Name				Zea mays				Zea mays			
Crop Name				Corn				Corn			
Rating Date	6/23/2008	6/23/2008	6/23/2008	7/7/2008	7/7/2008	7/7/2008	7/7/2008	8/7/2008	8/7/2008		
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
SE Description	AFTER LP	AFTER LP	AFTER LP	AFTER LP	AFTER LP	AFTER LP	AFTER LP	AFTER LP	AFTER LP		
Rating Timing	+ 2 WEEK	+ 2 WEEK	+ 2 WEEK	+4 WEEK	+4 WEEK	+4 WEEK	+4 WEEK	+ 8 WEEK	+ 8 WEEK		
Days After First/Last Applic.	54 6	54 6	54 6	68 20	68 20	68 20	68 20	99 51	99 51		
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	68 DP-1	68 DP-1	68 DP-1	68 DP-1	99 DP-1	99 DP-1		
Days After Emergence	49 DE-	49 DE-	49 DE-	63 DE-	63 DE-	63 DE-	63 DE-	94 DE-	94 DE-		
ARM Action Codes	P	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0	0	0		
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code	10	11	12	13	14	15	16	17	18
16 PERMIT	0.67 oz/a	C	13	77	37	0	13	70	37	0	13
INDUCE	0.25 % v/v	C									
AMS	3.7 % v/v	C									
LSD (P=.05)			11.6	6.7	14.1	0.0	11.5	7.1	15.1	0.0	12.1
Standard Deviation			6.9	4.0	8.4	0.0	6.9	4.3	9.0	0.0	7.2
CV			7.89	4.31	10.34	0.0	7.91	4.74	11.34	0.0	8.34
Bartlett's X2			29.519	8.536	31.697	0.0	31.984	10.634	36.962	0.0	39.298
P(Bartlett's X2)			0.001*	0.288	0.004*	.	0.001*	0.155	0.001*	.	0.001*
Replicate F			1.003	0.004	0.766	0.000	1.245	0.059	1.032	0.000	1.449
Replicate Prob(F)			0.3788	0.9961	0.4739	1.0000	0.3024	0.9428	0.3686	1.0000	0.2507
Treatment F			48.379	17.971	19.978	0.000	48.273	20.358	10.948	0.000	43.414
Treatment Prob(F)			0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Scientific Name	Ambrosia trifid	Ipomoea sp.	
Pest Name	Giant ragweed	Morning glory	
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	8/7/2008	8/7/2008	9/18/2008
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1
SE Description	AFTER LP	AFTER LP	
Rating Timing	+ 8 WEEK	+ 8 WEEK	
Days After First/Last Applic.	99 51	99 51	141 93
Plant-Eval Interval	99 DP-1	99 DP-1	141 DP-1
Days After Emergence	94 DE-	94 DE-	136 DE
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1
Trt No.			
Treatment Name			
Rate			
Unit			
Appl Code			
	19	20	24
16 PERMIT	0.67 oz/a	C	
INDUCE	0.25 % v/v	C	
AMS	3.7 % v/v	C	
LSD (P=.05)	8.2	15.6	31.56
Standard Deviation	4.9	9.3	18.93
CV	5.54	11.86	19.76
Bartlett's X2	11.267	27.248	10.369
P(Bartlett's X2)	0.337	0.018*	0.796
Replicate F	0.784	2.059	11.499
Replicate Prob(F)	0.4656	0.1453	0.0002
Treatment F	19.322	10.535	1.113
Treatment Prob(F)	0.0001	0.0001	0.3870

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE II

Trial ID: C8017 Protocol ID: CORNPOST DOW
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

27 DP-1 = 1 4/30/2008

38 DP-1 = 1 4/30/2008

54 DP-1 = 1 4/30/2008

68 DP-1 = 1 4/30/2008

99 DP-1 = 1 4/30/2008

141 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 22 \cdot (100 - 23) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE II

Trial ID: C8017 Protocol ID: CORNPOST DOW
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC63-42		
BBCH Scale: BCOR		Planting Date: 4/30/2008
Planting Method: ROWS		Rate, Unit: 30000 S/A
Depth, Unit: 1.5	IN	
Row Spacing, Unit: 30	IN	
Seed Bed: MEDIUM	medium	Soil Temperature, Unit: 55
Soil Moisture: NORMAL	normal	Emergence Date: 5/5/2008
Harvest Date: 9/18/2008		Harvest Equipment: COMBINE
Harvested Width, Unit: 5	FT	Harvested Length, Unit: 37
% Standard Moisture: 15.5		FT

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: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B C D E

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	5/27/2008	5/30/2008	6/7/2008	6/17/2008
Time of Day:	3 PM	4 PM	9 AM	10 AM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP	REG, V8
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	SARA CARTER	SARA CARTER
Air Temperature, Unit:	63 F	79 F	70 F	81 F	81 F
% Relative Humidity:	41	65	78	66	60
Wind Velocity, Unit:	6 MPH	6 MPH	6 MPH	8 MPH	8 MPH
Wind Direction:	S	SW	SW	SW	SW
Soil Temperature, Unit:	56 F	70 F	69 F	75 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	30	50	80	20

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V2	V3	V5	V8	
Height, Unit:	6 IN	7 IN	12 IN	20 IN	

Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:	1 IN	1 IN	4 IN	5 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	4	6 IN	8 IN	
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	1 IN	4 IN	5 IN	

Application Equipment

	A	B	C	D	E
Appl. Equipment:	ATV	ATV	ATV	BACKPACK	BACKPACK
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE

Trial ID: C8018 Protocol ID: AMVAC CORNPOST
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Scientific Name	Zea mays					Zea mays
Crop Name	Corn					Corn
Rating Date	5/30/2008	5/30/2008	5/30/2008	5/30/2008	5/30/2008	6/18/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description						AFTER POST
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30	30 30	49 14
Plant-Eval Interval	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	49 DP-1
Days After Emergence	25 DE-	25 DE-	25 DE-	25 DE-	25 DE-	44 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	CHECK UNTREATED				0	0	0	0	0	0
2	BICEP II MAGNUM	1.05	qt/a	A	0	99	85	93	86	0
3	BICEP II MAGNUM	1.05	qt/a	A	0	99	98	99	93	0
	IMPACT	0.016	lb ai/a	B						
	AATREX	0.5	lb ai/a	B						
	MSO	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
4	BICEP II MAGNUM	1.05	qt/a	A	0	99	99	99	98	0
	CALLISTO	0.094	lb ai/a	B						
	AATREX	0.25	lb ai/a	B						
	COC	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
5	BICEP II MAGNUM	1.05	qt/a	A	0	95	99	99	92	0
	LAUDIS	0.082	lb ai/a	B						
	AATREX	0.5	lb ai/a	B						
	COC	1	% v/v	B						
	LIQUID N	1.5	% v/v	B						
6	IMPACT	0.016	lb ai/a	B	0	99	99	99	89	0
	AATREX	0.5	lb ai/a	B						
	MSO	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
7	LAUDIS	0.082	lb ai/a	B	0	99	98	99	93	0
	AATREX	0.5	lb ai/a	B						
	MSO	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
8	IMPACT	0.016	lb ai/a	B	0	93	99	98	88	0
	AATREX	1	lb ai/a	B						
	MSO	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
9	LAUDIS	0.082	lb ai/a	B	0	93	99	99	92	0
	AATREX	1	lb ai/a	B						
	MSO	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
10	IMPACT	0.022	lb ai/a	B	0	99	99	99	88	0
	AATREX	1	lb ai/a	B						
	MSO	1	% v/v	B						
	LIQUID N	2.5	% v/v	B						
11	BICEP II MAGNUM	1.05	qt/a	A	0	99	99	99	91	0
	IMPACT	0.011	lb ai/a	C						
	ROUNDUP POWERMAX	1	lb ai/a	C						
	AMS	3.7	% v/v	C						

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory		Giant foxtail	Giant ragweed
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Scientific Name					Zea mays		
Crop Name					Corn		
Rating Date	6/18/2008	6/18/2008	6/18/2008	6/18/2008	7/2/2008	7/2/2008	7/2/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	49 14	49 14	49 14	49 14	63 28	63 28	63 28
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	63 DP-1	63 DP-1	63 DP-1
Days After Emergence	44 DE-	44 DE-	44 DE-	44 DE-	58 DE-	58 DE-	58 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11	12	13
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	BICEP II MAGNUM	1.05	qt/a	A	96	85	96	83	0	96	82
3	BICEP II MAGNUM	1.05	qt/a	A	99	96	99	91	0	99	91
	IMPACT	0.016	lb ai/a	B							
	AATREX	0.5	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
4	BICEP II MAGNUM	1.05	qt/a	A	99	99	99	96	0	98	98
	CALLISTO	0.094	lb ai/a	B							
	AATREX	0.25	lb ai/a	B							
	COC	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
5	BICEP II MAGNUM	1.05	qt/a	A	95	99	99	88	0	93	99
	LAUDIS	0.082	lb ai/a	B							
	AATREX	0.5	lb ai/a	B							
	COC	1	% v/v	B							
	LIQUID N	1.5	% v/v	B							
6	IMPACT	0.016	lb ai/a	B	96	99	99	90	0	89	99
	AATREX	0.5	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
7	LAUDIS	0.082	lb ai/a	B	93	99	99	93	0	92	95
	AATREX	0.5	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
8	IMPACT	0.016	lb ai/a	B	90	99	99	89	0	85	93
	AATREX	1	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
9	LAUDIS	0.082	lb ai/a	B	88	99	99	93	0	88	99
	AATREX	1	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
10	IMPACT	0.022	lb ai/a	B	96	99	99	91	0	91	99
	AATREX	1	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
11	BICEP II MAGNUM	1.05	qt/a	A	99	99	99	88	0	99	95
	IMPACT	0.011	lb ai/a	C							
	ROUNDUP POWERMAX	1	lb ai/a	C							
	AMS	3.7	% v/v	C							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name	Chenopodium al>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	
Pest Name	Common lambsqu>	Morning glory	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory	
Crop Code			ZEAMX				
BBCH Scale			BCOR				
Crop Scientific Name			Zea mays				
Crop Name			Corn				
Rating Date	7/2/2008	7/2/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	63 28	63 28	91 56	91 56	91 56	91 56	91 56
Plant-Eval Interval	63 DP-1	63 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1
Days After Emergence	58 DE-	58 DE-	86 DE-	86 DE-	86 DE-	86 DE-	86 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	14	15	16	17	18	19	20
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	BICEP II MAGNUM	1.05	qt/a	A	95	73	0	96	82	95	73
3	BICEP II MAGNUM	1.05	qt/a	A	95	82	0	99	91	95	82
	IMPACT	0.016	lb ai/a	B							
	AATREX	0.5	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
4	BICEP II MAGNUM	1.05	qt/a	A	99	92	0	98	98	99	92
	CALLISTO	0.094	lb ai/a	B							
	AATREX	0.25	lb ai/a	B							
	COC	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
5	BICEP II MAGNUM	1.05	qt/a	A	99	80	0	93	99	99	80
	LAUDIS	0.082	lb ai/a	B							
	AATREX	0.5	lb ai/a	B							
	COC	1	% v/v	B							
	LIQUID N	1.5	% v/v	B							
6	IMPACT	0.016	lb ai/a	B	99	80	0	89	99	99	80
	AATREX	0.5	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
7	LAUDIS	0.082	lb ai/a	B	99	84	0	92	95	99	84
	AATREX	0.5	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
8	IMPACT	0.016	lb ai/a	B	99	80	0	85	93	99	80
	AATREX	1	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
9	LAUDIS	0.082	lb ai/a	B	99	82	0	88	99	99	82
	AATREX	1	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
10	IMPACT	0.022	lb ai/a	B	99	83	0	91	99	99	83
	AATREX	1	lb ai/a	B							
	MSO	1	% v/v	B							
	LIQUID N	2.5	% v/v	B							
11	BICEP II MAGNUM	1.05	qt/a	A	99	80	0	99	95	99	80
	IMPACT	0.011	lb ai/a	C							
	ROUNDUP POWERMAX	1	lb ai/a	C							
	AMS	3.7	% v/v	C							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 SE Description
 Rating Timing
 Days After First/Last Applic.
 Plant-Eval Interval
 Days After Emergence
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Unit	Appl Code	24
1	CHECK UNTREATED				42.6
2	BICEP II MAGNUM	1.05	qt/a	A	69.5
3	BICEP II MAGNUM	1.05	qt/a	A	102.7
	IMPACT	0.016	lb ai/a	B	
	AATREX	0.5	lb ai/a	B	
	MSO	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
4	BICEP II MAGNUM	1.05	qt/a	A	92.9
	CALLISTO	0.094	lb ai/a	B	
	AATREX	0.25	lb ai/a	B	
	COC	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
5	BICEP II MAGNUM	1.05	qt/a	A	111.6
	LAUDIS	0.082	lb ai/a	B	
	AATREX	0.5	lb ai/a	B	
	COC	1	% v/v	B	
	LIQUID N	1.5	% v/v	B	
6	IMPACT	0.016	lb ai/a	B	91.5
	AATREX	0.5	lb ai/a	B	
	MSO	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
7	LAUDIS	0.082	lb ai/a	B	104.9
	AATREX	0.5	lb ai/a	B	
	MSO	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
8	IMPACT	0.016	lb ai/a	B	97.4
	AATREX	1	lb ai/a	B	
	MSO	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
9	LAUDIS	0.082	lb ai/a	B	93.8
	AATREX	1	lb ai/a	B	
	MSO	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
10	IMPACT	0.022	lb ai/a	B	96.8
	AATREX	1	lb ai/a	B	
	MSO	1	% v/v	B	
	LIQUID N	2.5	% v/v	B	
11	BICEP II MAGNUM	1.05	qt/a	A	76.6
	IMPACT	0.011	lb ai/a	C	
	ROUNDUP POWERMAX	1	lb ai/a	C	
	AMS	3.7	% v/v	C	

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	CHEAL	IPOSS		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.		
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory		
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Scientific Name	Zea mays					Zea mays
Crop Name	Corn					Corn
Rating Date	5/30/2008	5/30/2008	5/30/2008	5/30/2008	5/30/2008	6/18/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description						AFTER POST
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30	30 30	49 14
Plant-Eval Interval	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	49 DP-1
Days After Emergence	25 DE-	25 DE-	25 DE-	25 DE-	25 DE-	44 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Rate	Appl			
No. Name	1	2	3	4	5	6
12 BICEP II MAGNUM	1.05 qt/a	A				
IMPACT	0.011 lb ai/a	C	0	99	99	99
ROUNDUP POWERMAX	1 lb ai/a	C				89
AATREX	0.5 lb ai/a	C				
AMS	3.7 % v/v	C				
13 BICEP II MAGNUM	1.05 qt/a	A	0	99	99	99
ROUNDUP POWERMAX	1 lb ai/a	C				92
AMS	3.7 % v/v	C				
14 CHECK UNTREATED			0	0	0	0
LSD (P=.05)	0.0	5.1	2.7	2.1	7.2	0.0
Standard Deviation	0.0	3.0	1.6	1.3	4.3	0.0
CV	0.0	3.6	1.92	1.5	5.51	0.0
Bartlett's X2	0.0	0.205	1.667	0.586	7.813	0.0
P(Bartlett's X2)	.	0.903	0.435	0.444	0.73	.
Replicate F	0.000	0.112	0.841	0.551	0.732	0.000
Replicate Prob(F)	1.0000	0.8940	0.4428	0.5830	0.4907	1.0000
Treatment F	0.000	416.530	1478.508	2399.131	178.466	0.000
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory	Giant foxtail	Giant ragweed
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Scientific Name					Zea mays	
Crop Name					Corn	
Rating Date	6/18/2008	6/18/2008	6/18/2008	6/18/2008	7/2/2008	7/2/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	49 14	49 14	49 14	49 14	63 28	63 28
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	63 DP-1	63 DP-1
Days After Emergence	44 DE-	44 DE-	44 DE-	44 DE-	58 DE-	58 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Appl Code	7	8	9	10	11	12	13
12 BICEP II MAGNUM	1.05	qt/a	A	99	99	99	91	0	99	98
IMPACT	0.011	lb ai/a	C							
ROUNDUP POWERMAX	1	lb ai/a	C							
AATREX	0.5	lb ai/a	C							
AMS	3.7	% v/v	C							
13 BICEP II MAGNUM	1.05	qt/a	A	99	99	99	89	0	96	98
ROUNDUP POWERMAX	1	lb ai/a	C							
AMS	3.7	% v/v	C							
14 CHECK UNTREATED				0	0	0	0	0	0	0
LSD (P=.05)				5.4	4.5	1.0	6.5	0.0	6.9	7.4
Standard Deviation				3.2	2.7	0.6	3.9	0.0	4.1	4.4
CV				3.94	3.17	0.73	5.02	0.0	5.09	5.38
Bartlett's X2				3.308	0.492	0.0	9.083	0.0	10.915	10.316
P(Bartlett's X2)				0.769	0.483	.	0.614	.	0.142	0.171
Replicate F				0.302	1.492	1.000	0.676	0.000	1.823	1.216
Replicate Prob(F)				0.7417	0.2436	0.3816	0.5173	1.0000	0.1816	0.3127
Treatment F				350.143	541.155	10136.271	215.572	0.000	211.198	189.440
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Date	
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
SE Description	
Rating Timing	
Days After First/Last Applic.	
Plant-Eval Interval	
Days After Emergence	
ARM Action Codes	TY1
Number of Decimals	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
12	BICEP II MAGNUM	1.05	qt/a	A	89.4
	IMPACT	0.011	lb ai/a	C	
	ROUNDUP POWERMAX	1	lb ai/a	C	
	AATREX	0.5	lb ai/a	C	
	AMS	3.7	% v/v	C	
13	BICEP II MAGNUM	1.05	qt/a	A	86.7
	ROUNDUP POWERMAX	1	lb ai/a	C	
	AMS	3.7	% v/v	C	
14	CHECK UNTREATED				37.4
	LSD (P=.05)				22.16
	Standard Deviation				13.20
	CV				15.48
	Bartlett's X2				9.772
	P(Bartlett's X2)				0.712
	Replicate F				3.166
	Replicate Prob(F)				0.0588
	Treatment F				8.327
	Treatment Prob(F)				0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE

Trial ID: C8018 Protocol ID: AMVAC CORNPOST
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

CHEAL, *Chenopodium album*, = US

IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

30 DP-1 = 1 4/30/2008

49 DP-1 = 1 4/30/2008

63 DP-1 = 1 4/30/2008

91 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 * 22 * (100 - 23) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE

Trial ID: C8018 Protocol ID: AMVAC CORNPOST
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC63-42		
BBCH Scale: BCOR		Planting Date: 4/30/2008
Planting Method: ROWS		Rate, Unit: 30000 S/A
Depth, Unit: 1.5	IN	
Row Spacing, Unit: 30	IN	
Seed Bed: MEDIUM	medium	Soil Temperature, Unit: 56
Soil Moisture: NORMAL	normal	Emergence Date: 5/5/2008
Harvest Date: 9/18/2008		Harvest Equipment: COMBINE
Harvested Width, Unit: 5	FT	Harvested Length, Unit: 37
% Standard Moisture: 15.5		FT

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: Common lambsquarters

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Plant and Soil Science, U of KY

Weed Science Research

Application Description

	A	B	C
Application Date:	4/30/2008	5/30/2008	6/4/2008
Time of Day:	3 PM	9 AM	6 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	70 F	81 F
% Relative Humidity:	41	78	58
Wind Velocity, Unit:	6 MPH	6 MPH	8 MPH
Wind Direction:	S		SW
Soil Temperature, Unit:	56 F	68 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	50	90

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		V2	V3
Height, Unit:		6 IN	10 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		1 IN	2 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		4 IN	6 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		2 IN	4 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	2 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	30 IN	30 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

Plant and Soil Science, U of KY Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C8019 Protocol ID: GOWAN D-YUK-08-03-3
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	IPOSS
Pest Type	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Ipomoea sp.
Pest Code	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Morning glory
Pest Scientific Name							
Pest Name							
Crop Code	ZEAMX			ZEAMX			
BBCH Scale	BCOR			BCOR			
Crop Scientific Name	Zea mays			Zea mays			
Crop Name	Corn			Corn			
Rating Date	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/27/2008	6/27/2008	6/27/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
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	28 28	28 28	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	44 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	39 DE-	39 DE-	39 DE-	39 DE-	53 DE-	53 DE-	53 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl	1	2	3	4	5	6	7	8
1	CHECK UNTREATED				0	0	0	0	0	0	0	0
2	STATUS	5 oz/a	A		0	99	96	93	0	98	99	88
	ROUNDUP WeatherMAX	0.75 lb ae/a	A									
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
3	YUKON	4 oz/a	A		0	99	98	89	0	96	99	87
	ROUNDUP WeatherMAX	0.75 lb ae/a	A									
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
4	YUKON	3 oz/a	A		0	99	98	87	0	98	99	87
	ROUNDUP WeatherMAX	0.75 lb ae/a	A									
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
5	PERMIT	0.67 oz/a	A		0	99	95	85	0	98	98	83
	ROUNDUP WeatherMAX	0.75 lb ae/a	A									
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
6	GWN-3041	0.67 oz/a	A		0	99	93	85	0	98	99	83
	GWN-3124	0.083 oz/a	A									
	ROUNDUP WeatherMAX	0.75 lb ae/a	A									
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
7	ROUNDUP WeatherMAX	0.75 lb ae/a	A		0	99	87	80	0	96	93	77
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
8	HALOSULFURON	0.37 oz/a	A		0	99	88	80	0	98	93	77
	ROUNDUP WeatherMAX	0.75 lb ae/a	A									
	INDUCE	0.125 % v/v	A									
	AMS	3 lb ai/a	A									
LSD (P=.05)					0.0	0.0	6.2	6.9	0.0	2.2	5.3	8.8
Standard Deviation					0.0	0.0	3.6	3.9	0.0	1.3	3.0	5.0
CV					0.0	0.0	4.36	5.24	0.0	1.49	3.59	6.93
Bartlett's X2					0.0	0.0	5.24	5.301	0.0	0.0	2.244	3.151
P(Bartlett's X2)					.	.	0.513	0.258	.	1.00	0.326	0.79
Replicate F					0.000	0.000	2.263	2.844	0.000	16.059	0.949	1.058
Replicate Prob(F)					1.0000	1.0000	0.1407	0.0919	1.0000	0.0002	0.4108	0.3732
Treatment F					0.000	0.000	262.135	181.872	0.000	2192.820	383.453	104.272
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed			W Weed			W Weed				
Pest Code	SETFA			AMBTR			IPOSS				
Pest Scientific Name	Setaria faberi			Ambrosia trifi>			Ipomoea sp.				
Pest Name	Giant foxtail			Giant ragweed			Morning glory				
Crop Code	ZEAMX			ZEAMX			ZEAMX				
BBCH Scale	BCOR			BCOR			BCOR				
Crop Scientific Name	Zea mays			Zea mays			Zea mays				
Crop Name	Corn			Corn			Corn				
Rating Date	7/28/2008	7/28/2008	7/28/2008	7/28/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	59 59	59 59	59 59	59 59	108 108	108 108	108 108	108 108	108 108		
Trt-Eval Interval	59 DA-A	59 DA-A	59 DA-A	59 DA-A	108 DA-A	108 DA-A	108 DA-A	108 DA-A	108 DA-A		
Plant-Eval Interval	89 DP-1	89 DP-1	89 DP-1	89 DP-1	138 DP-1	138 DP-1	138 DP-1	138 DP-1	138 DP-1		
Days After Emergence	84 DE-	84 DE-	84 DE-	84 DE-	133 DE	133 DE	133 DE	133 DE	133 DE		
ARM Action Codes	P	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0	0	0		
Trt Treatment	Rate	Unit	Appl Code	9	10	11	12	13	14	15	16
1 CHECK UNTREATED				0	0	0	0	0	0	0	0
2 STATUS	5 oz/a	A		0	92	99	88	0	92	99	88
ROUNDUP WeatherMAX	0.75 lb ae/a	A									
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
3 YUKON	4 oz/a	A		0	91	98	85	0	91	98	85
ROUNDUP WeatherMAX	0.75 lb ae/a	A									
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
4 YUKON	3 oz/a	A		0	89	98	86	0	89	98	86
ROUNDUP WeatherMAX	0.75 lb ae/a	A									
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
5 PERMIT	0.67 oz/a	A		0	91	98	83	0	91	98	83
ROUNDUP WeatherMAX	0.75 lb ae/a	A									
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
6 GWN-3041	0.67 oz/a	A		0	91	99	78	0	91	99	78
GWN-3124	0.083 oz/a	A									
ROUNDUP WeatherMAX	0.75 lb ae/a	A									
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
7 ROUNDUP WeatherMAX	0.75 lb ae/a	A		0	89	90	70	0	89	90	70
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
8 HALOSULFURON	0.37 oz/a	A		0	93	92	70	0	93	92	70
ROUNDUP WeatherMAX	0.75 lb ae/a	A									
INDUCE	0.125 % v/v	A									
AMS	3 lb ai/a	A									
LSD (P=.05)				0.0	5.2	5.0	6.6	0.0	5.2	5.0	6.6
Standard Deviation				0.0	3.0	2.9	3.8	0.0	3.0	2.9	3.8
CV				0.0	3.74	3.41	5.41	0.0	3.74	3.41	5.41
Bartlett's X2				0.0	5.423	3.179	0.933	0.0	5.423	3.179	0.933
P(Bartlett's X2)				.	0.491	0.528	0.92	.	0.491	0.528	0.92
Replicate F				0.000	1.717	2.043	5.914	0.000	1.717	2.043	5.914
Replicate Prob(F)				1.0000	0.2153	0.1666	0.0137	1.0000	0.2153	0.1666	0.0137
Treatment F				0.000	351.299	425.486	177.181	0.000	351.299	425.486	177.181
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Date	
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Rating Timing	
Days After First/Last Applic.	
Trt-Eval Interval	
Plant-Eval Interval	
Days After Emergence	
ARM Action Codes	TY1
Number of Decimals	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					20
1	CHECK UNTREATED				54.9
2	STATUS	5 oz/a	A		116.6
	ROUNDUP WeatherMAX	0.75 lb ae/a	A		
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
3	YUKON	4 oz/a	A		125.0
	ROUNDUP WeatherMAX	0.75 lb ae/a	A		
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
4	YUKON	3 oz/a	A		127.2
	ROUNDUP WeatherMAX	0.75 lb ae/a	A		
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
5	PERMIT	0.67 oz/a	A		97.8
	ROUNDUP WeatherMAX	0.75 lb ae/a	A		
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
6	GWN-3041	0.67 oz/a	A		126.1
	GWN-3124	0.083 oz/a	A		
	ROUNDUP WeatherMAX	0.75 lb ae/a	A		
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
7	ROUNDUP WeatherMAX	0.75 lb ae/a	A		123.1
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
8	HALOSULFURON	0.37 oz/a	A		141.6
	ROUNDUP WeatherMAX	0.75 lb ae/a	A		
	INDUCE	0.125 % v/v	A		
	AMS	3 lb ai/a	A		
	LSD (P=.05)				21.72
	Standard Deviation				12.40
	CV				10.88
	Bartlett's X2				5.376
	P(Bartlett's X2)				0.614
	Replicate F				0.191
	Replicate Prob(F)				0.8284
	Treatment F				14.053
	Treatment Prob(F)				0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C8019 Protocol ID: GOWAN D-YUK-08-03-3
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

44 DP-1 = 1 4/30/2008

58 DP-1 = 1 4/30/2008

89 DP-1 = 1 4/30/2008

138 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 18^{(100-19)/84.5}$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C8019 Protocol ID: GOWAN D-YUK-08-03-3
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC63-42		
BBCH Scale: BCOR		Planting Date: 4/30/2008
Planting Method: ROWS		Rate, Unit: 30000 S/A
Depth, Unit: 1.5	IN	
Row Spacing, Unit: 30	IN	
Seed Bed: MEDIUM	medium	Soil Temperature, Unit: 56
Soil Moisture: NORMAL	normal	Emergence Date: 5/5/2008
Harvest Date: 9/18/2008		Harvest Equipment: COMBINE
Harvested Width, Unit: 5	FT	Harvested Length, Unit: 37
% Standard Moisture: 15.5		FT

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: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A

Plant and Soil Science, U of KY

Weed Science Research

Application Date: 5/30/2008
Time of Day: 9 AM
Application Method: SPRAY
Application Timing: LMP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 70 F
% Relative Humidity: 78
Wind Velocity, Unit: 6 MPH
Soil Temperature, Unit: 68 F
Soil Moisture: ADEQUATE
% Cloud Cover: 50

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, Type, Scale: SETFA W
Height, Unit: 1 IN
Pest 2 Code, Type, Scale: AMBTR W
Height, Unit: 4 IN
Pest 3 Code, Type, Scale: IPOSS W
Height, Unit: 1 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: 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

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	7/24/2008	7/24/2008	7/24/2008	7/24/2008	
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	85 58	85 58	85 58	85 58	
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1	85 DP-1	
Days After Emergence	80 DE-	80 DE-	80 DE-	80 DE-	
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Unit	Code	9	10	11	12	16
1	STEADFAST Q	1.5 oz/a	B		0	93	98	92	124.6
	AATREX	2 lb ai/a	B						
	COC	1 % v/v	B						
	AMS	2 lb ai/a	B						
2	CINCH ATZ	1 qt/a	A		0	99	99	88	118.1
	STEADFAST Q	1.5 oz/a	B						
	AATREX	1.5 lb ai/a	B						
	COC	1 % v/v	B						
	AMS	2 lb ai/a	B						
3	RESOLVE Q	1.25 oz/a	B		0	92	96	88	122.9
	AATREX	2 lb ai/a	B						
	ROUNDUP POWERMAX	22 fl oz/a	B						
	AMS	2 lb ai/a	B						
4	CINCH ATZ	1 qt/a	A		0	96	96	86	113.4
	RESOLVE Q	1.25 oz/a	B						
	AATREX	1.5 lb ai/a	B						
	ROUNDUP POWERMAX	22 fl oz/a	B						
	AMS	2 lb ai/a	B						
5	REQUIRE Q	4 oz/a	B		0	92	96	91	111.7
	AATREX	2 lb ai/a	B						
	ROUNDUP POWERMAX	22 fl oz/a	B						
	AMS	2 lb ai/a	B						
6	CINCH ATZ	1 qt/a	A		0	99	98	92	138.2
	REQUIRE Q	4 oz/a	B						
	AATREX	2 lb ai/a	B						
	ROUNDUP POWERMAX	22 fl oz/a	B						
	AMS	2 lb ai/a	B						
7	ROUNDUP POWERMAX	22 fl oz/a	B		0	90	96	90	123.9
	AATREX	2 lb ai/a	B						
	AMS	2 lb ai/a	B						
8	CINCH ATZ	1 qt/a	A		0	99	92	88	99.4
	ROUNDUP POWERMAX	22 fl oz/a	B						
	AATREX	1.5 lb ai/a	B						
	AMS	2 lb ai/a	B						
9	ROUNDUP POWERMAX	22 fl oz/a	B		0	95	85	78	88.6
	AMS	2 lb ai/a	B						

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory		
Crop Code	ZEAMX			ZEAMX			ZEAMX				
BBCH Scale	BCOR			BCOR			BCOR				
Crop Scientific Name	Zea mays			Zea mays			Zea mays				
Crop Name	Corn			Corn			Corn				
Rating Date	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/24/2008	6/24/2008	6/24/2008	6/24/2008	7/24/2008		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK		
Days After First/Last Applic.	41 14	41 14	41 14	41 14	55 28	55 28	55 28	55 28	85 58		
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	85 DP-1		
Days After Emergence	36 DE-	36 DE-	36 DE-	36 DE-	50 DE-	50 DE-	50 DE-	50 DE-	80 DE-		
ARM Action Codes	P	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0	0	0		
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit Code	1	2	3	4	5	6	7	8	9
10 CHECK UNTREATED	0		0	0	0	0	0.0	0	0	0	0
LSD (P=.05)	0.0		2.8	6.2	4.5	0.00	3.5	6.6	7.0	0.0	0.0
Standard Deviation	0.0		1.6	3.6	2.6	0.00	2.0	3.9	4.1	0.0	0.0
CV	0.0		1.85	4.13	3.01	0.0	2.31	4.52	5.0	0.0	0.0
Bartlett's X2	0.0		0.0	2.442	1.722	0.0	2.225	2.709	6.342	0.0	0.0
P(Bartlett's X2)	.		.	0.486	0.423	.	0.527	0.844	0.50	.	.
Replicate F	0.000		1.000	0.611	1.699	0.000	1.357	1.054	3.133	0.000	0.000
Replicate Prob(F)	1.0000		0.3874	0.5539	0.2109	1.0000	0.2826	0.3690	0.0680	1.0000	1.0000
Treatment F	0.000		1082.667	219.851	417.143	0.000	695.964	184.601	151.466	0.000	0.000
Treatment Prob(F)	1.0000		0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR	IPOSS	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	7/24/2008	7/24/2008	7/24/2008	
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	85 58	85 58	85 58	
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1	
Days After Emergence	80 DE-	80 DE-	80 DE-	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	10	11	12 16
10 CHECK UNTREATED		0	0	0 48.7
LSD (P=.05)		4.1	6.6	6.8 20.03
Standard Deviation		2.4	3.9	3.9 11.68
CV		2.8	4.52	4.98 10.72
Bartlett's X2		1.419	3.741	8.611 5.453
P(Bartlett's X2)		0.841	0.809	0.376 0.793
Replicate F		0.645	1.451	7.218 4.463
Replicate Prob(F)		0.5364	0.2606	0.0050 0.0267
Treatment F		477.731	184.579	152.236 14.080
Treatment Prob(F)		0.0001	0.0001	0.0001 0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE III

Trial ID: C8020 Protocol ID: USA-08-116
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

41 DP-1 = 1 4/30/2008

55 DP-1 = 1 4/30/2008

85 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 14 \cdot (100 - 15) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE III

Trial ID: C8020 Protocol ID: USA-08-116
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 56 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008
Harvest Date: 9/18/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 37 FT
% Standard Moisture: 15.5

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:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	5/27/2008
Time of Day:	3 PM	4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V2
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	79 F
% Relative Humidity:	41	65
Wind Velocity, Unit:	6 MPH	6 MPH
Wind Direction:	S	SW
Soil Temperature, Unit:	56 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	30

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	1 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	6 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1 IN	3 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	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 Weed Science Research

CORN PREEMERGENCE IV

Trial ID: C8021 Protocol ID: HP08NARJJA BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory
Crop Code	ZEAMX				ZEAMX			
BBCH Scale	BCOR				BCOR			
Crop Scientific Name	Zea mays				Zea mays			
Crop Name	Corn				Corn			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6	7	8
1	CORVUS HERBICIDE	4.5	oz/a	A	13	99	95	95	13	96	93	93
	AATREX	1.5	qt/a	A								
2	CORVUS HERBICIDE	5.6	oz/a	A	13	98	99	95	20	96	99	92
	AATREX	1.5	qt/a	A								
3	BALANCE FLEXX HERBICIDE	5	oz/a	A	2	99	99	89	2	94	95	88
	AATREX	1.5	qt/a	A								
4	BALANCE FLEXX HERBICIDE	6	oz/a	A	0	98	96	92	0	94	93	91
	AATREX	1.5	qt/a	A								
5	LUMAX	3	qt/a	A	0	99	99	98	0	99	99	93
6	CORVUS HERBICIDE	4.5	oz/a	B	2	96	99	99	2	96	99	95
	AATREX	1.5	qt/a	B								
7	CORVUS HERBICIDE	5.6	oz/a	B	0	99	99	99	0	96	99	96
	AATREX	1.5	qt/a	B								
8	BALANCE FLEXX HERBICIDE	5	oz/a	B	0	92	98	96	0	92	98	93
	AATREX	1.5	qt/a	B								
9	BALANCE FLEXX HERBICIDE	6	oz/a	B	2	96	99	99	2	96	99	98
	AATREX	1.5	qt/a	B								
10	LUMAX	3	qt/a	B	0	95	99	99	0	93	99	96
LSD (P=.05)					5.4	6.1	3.9	3.9	4.3	8.0	4.7	5.5
Standard Deviation					3.2	3.5	2.3	2.3	2.5	4.6	2.8	3.2
CV					100.32	3.63	2.31	2.35	65.94	4.87	2.84	3.44
Bartlett's X2					2.166	3.095	1.176	4.944	1.604	1.664	2.344	2.568
P(Bartlett's X2)					0.705	0.685	0.555	0.176	0.658	0.99	0.504	0.979
Replicate F					0.083	2.193	1.275	0.059	0.130	1.513	1.570	3.307
Replicate Prob(F)					0.9211	0.1405	0.3036	0.9432	0.8785	0.2469	0.2352	0.0598
Treatment F					8.706	1.161	1.434	7.039	22.913	0.555	2.417	2.522
Treatment Prob(F)					0.0001	0.3745	0.2459	0.0002	0.0001	0.8156	0.0531	0.0453

Plant and Soil Science, U of KY Weed Science Research

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Plant-Eval Interval	83 DP-1	83 DP-1	83 DP-1	83 DP-1	
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Unit	Code	9	10	11	12	16
1	CORVUS HERBICIDE	4.5	oz/a	A	0	93	93	91	105.1
	AATREX	1.5	qt/a	A					
2	CORVUS HERBICIDE	5.6	oz/a	A	0	91	99	89	100.2
	AATREX	1.5	qt/a	A					
3	BALANCE FLEXX HERBICIDE	5	oz/a	A	0	91	95	84	106.5
	AATREX	1.5	qt/a	A					
4	BALANCE FLEXX HERBICIDE	6	oz/a	A	0	92	92	85	104.4
	AATREX	1.5	qt/a	A					
5	LUMAX	3	qt/a	A	0	99	99	89	117.1
6	CORVUS HERBICIDE	4.5	oz/a	B	0	95	99	92	99.5
	AATREX	1.5	qt/a	B					
7	CORVUS HERBICIDE	5.6	oz/a	B	0	96	99	93	97.5
	AATREX	1.5	qt/a	B					
8	BALANCE FLEXX HERBICIDE	5	oz/a	B	0	91	98	91	92.2
	AATREX	1.5	qt/a	B					
9	BALANCE FLEXX HERBICIDE	6	oz/a	B	0	96	99	93	108.2
	AATREX	1.5	qt/a	B					
10	LUMAX	3	qt/a	B	0	93	99	89	88.5
LSD (P=.05)					0.0	7.9	4.2	6.5	27.33
Standard Deviation					0.0	4.6	2.4	3.8	15.93
CV					0.0	4.93	2.5	4.25	15.63
Bartlett's X2					0.0	2.147	2.585	6.454	20.515
P(Bartlett's X2)					.	0.976	0.46	0.694	0.015*
Replicate F					0.000	0.826	1.539	0.393	6.096
Replicate Prob(F)					1.0000	0.4535	0.2416	0.6809	0.0095
Treatment F					0.000	0.982	3.872	1.850	0.801
Treatment Prob(F)					1.0000	0.4866	0.0070	0.1275	0.6205

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE IV

Trial ID: C8021 Protocol ID: HP08NARJJA BAYER
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.093985 \times 14 \times (100 - 15) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN PREEMERGENCE IV

Trial ID: C8021 Protocol ID: HP08NARJJA BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC63-42		
BBCH Scale: BCOR		Planting Date: 4/30/2008
Planting Method: ROWS		Rate, Unit: 30000 S/A
Depth, Unit: 1.5	IN	
Row Spacing, Unit: 30	IN	
Seed Bed: MEDIUM	medium	Soil Temperature, Unit: 56 F
Soil Moisture: NORMAL	normal	Emergence Date: 5/5/2008
Harvest Date: 9/18/2008		Harvest Equipment: COMBINE
Harvested Width, Unit: 5	FT	Harvested Length, Unit: 38 FT
% Standard Moisture: 15.5		

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:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.7	Texture: SIL	silt loam
% Silt: 64	pH: 6.5	Soil Name: MAURY SILT LOAM	
% Clay: 30	CEC: 17	Fert. Level: E	excellent
	Soil Drainage: E		excellent

Moisture and Weather Conditions

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

Application Description

A B

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	5/27/2008
Time of Day:	3 PM	4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V2
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	79 F
% Relative Humidity:	41	65
Wind Velocity, Unit:	6 MPH	6 MPH
Wind Direction:	S	SW
Soil Temperature, Unit:	56 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	30

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	1 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	6 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1 IN	3 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	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 Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C8022 Protocol ID: HP08NARDLL BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed
Crop Code	ZEAMX			ZEAMX	
BCH Scale	BCOR			BCOR	
Crop Scientific Name	Zea mays			Zea mays	
Crop Name	Corn			Corn	
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	57 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	BALANCE FLEXX HERBICIDE	3 oz/a		A	0	99	90	89	5	99	99
	AATREX	1 qt/a		A							
	CAPRENO HERBICIDE	3 oz/a		C							
	AATREX	1 pt/a		C							
	COC	1 % v/v		C							
	LIQUID N	1.5 qt/a		C							
3	BALANCE FLEXX HERBICIDE	3 oz/a		A	0	94	89	90	5	96	96
	AATREX	1 qt/a		A							
	CAPRENO HERBICIDE	3 oz/a		C							
	MSO	1 % v/v		C							
	LIQUID N	1.5 qt/a		C							
4	LUMAX	1.5 qt/a		A	0	99	96	93	0	99	99
	LUMAX	1.5 qt/a		C							
	INDUCE	0.25 % v/v		C							
5	CAPRENO HERBICIDE	3 oz/a		B	0	99	98	96	0	99	98
	AMS	8.5 lb ai/100 gal		B							
	ROUNDUP POWERMAX	22 oz/a		B							
6	CAPRENO HERBICIDE	3 oz/a		B	2	99	99	98	2	98	99
	AATREX	1 qt/a		B							
	AMS	8.5 lb ai/100 gal		B							
	ROUNDUP POWERMAX	11 oz/a		B							
7	CAPRENO HERBICIDE	3 oz/a		B	2	99	99	98	2	99	99
	AATREX	1 pt/a		B							
	COC	1 % v/v		B							
	LIQUID N	1.5 qt/a		B							
8	IMPACT	0.75 oz/a		B	0	99	96	89	0	96	96
	AATREX	1 pt/a		B							
	COC	1 % v/v		B							
	LIQUID N	1.5 qt/a		B							
9	CAPRENO HERBICIDE	3 oz/a		B	5	99	99	98	5	98	99
	AATREX	1 pt/a		B							
	MSO	1 % v/v		B							
	LIQUID N	1.5 qt/a		B							
10	HARNESS XTRA	1.5 qt/a		A	0	99	96	93	0	99	95
	AMS	8.5 lb ai/100 gal		B							
	ROUNDUP POWERMAX	22 oz/a		B							
11	HALEX GT	3.6 pt/a		B	0	98	99	98	0	98	99
	INDUCE	0.25 % v/v		B							
	AMS	8.5 lb ai/100 gal		B							

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	IPOSS	SETFA	AMBTR	IPOSS	
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Plant-Eval Interval	43 DP-1	72 DP-1	72 DP-1	72 DP-1	72 DP-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
					YIELD
					BU
					TY1
					1

Trt	Treatment	Rate	Appl	8	9	10	11	12	16
No.	Name	Rate Unit	Code						
1	CHECK UNTREATED			0	0	0	0	0	31.9
2	BALANCE FLEXX HERBICIDE	3 oz/a	A	94	0	99	99	94	114.6
	AATREX	1 qt/a	A						
	CAPRENO HERBICIDE	3 oz/a	C						
	AATREX	1 pt/a	C						
	COC	1 % v/v	C						
	LIQUID N	1.5 qt/a	C						
3	BALANCE FLEXX HERBICIDE	3 oz/a	A	95	0	96	96	88	102.4
	AATREX	1 qt/a	A						
	CAPRENO HERBICIDE	3 oz/a	C						
	MSO	1 % v/v	C						
	LIQUID N	1.5 qt/a	C						
4	LUMAX	1.5 qt/a	A	99	0	99	99	99	91.0
	LUMAX	1.5 qt/a	C						
	INDUCE	0.25 % v/v	C						
5	CAPRENO HERBICIDE	3 oz/a	B	96	0	98	95	89	121.0
	AMS	8.5 lb ai/100 gal	B						
	ROUNDUP POWERMAX	22 oz/a	B						
6	CAPRENO HERBICIDE	3 oz/a	B	96	0	96	99	90	100.4
	AATREX	1 qt/a	B						
	AMS	8.5 lb ai/100 gal	B						
	ROUNDUP POWERMAX	11 oz/a	B						
7	CAPRENO HERBICIDE	3 oz/a	B	95	0	99	99	91	98.0
	AATREX	1 pt/a	B						
	COC	1 % v/v	B						
	LIQUID N	1.5 qt/a	B						
8	IMPACT	0.75 oz/a	B	88	0	93	96	82	99.9
	AATREX	1 pt/a	B						
	COC	1 % v/v	B						
	LIQUID N	1.5 qt/a	B						
9	CAPRENO HERBICIDE	3 oz/a	B	98	0	95	99	93	96.0
	AATREX	1 pt/a	B						
	MSO	1 % v/v	B						
	LIQUID N	1.5 qt/a	B						
10	HARNESX XTRA	1.5 qt/a	A	87	0	99	92	82	84.3
	AMS	8.5 lb ai/100 gal	B						
	ROUNDUP POWERMAX	22 oz/a	B						
11	HALEX GT	3.6 pt/a	B	92	0	98	99	87	89.1
	INDUCE	0.25 % v/v	B						
	AMS	8.5 lb ai/100 gal	B						

Plant and Soil Science, U of KY

Weed Science Research

	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	IPOSS				
	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Ipomoea sp.				
	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Morning glory				
Pest Type											
Pest Code											
Pest Scientific Name											
Pest Name											
Crop Code	ZEAMX			ZEAMX							
BBCH Scale	BCOR			BCOR							
Crop Scientific Name	Zea mays			Zea mays							
Crop Name	Corn			Corn							
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1	1	1				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK				
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	57 DP-1	57 DP-1	43 DP-1				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt Treatment											
No. Name	Rate	Unit	Appl	1	2	3	4	5	6	7	8
12 ROUNDUP POWERMAX	22 oz/a	B		0	99	96	90	0	98	96	89
AMS	3.7 % v/v	B									
ROUNDUP POWERMAX	22 oz/a	D									
AMS	3.7 % v/v	D									
LSD (P=.05)				3.1	2.9	5.1	5.3	6.4	2.9	3.8	5.5
Standard Deviation				1.8	1.7	3.0	3.2	3.8	1.7	2.2	3.2
CV				263.4	1.87	3.42	3.67	247.79	1.88	2.48	3.78
Bartlett's X2				0.837	1.354	9.376	8.748	4.007	0.0	2.559	8.977
P(Bartlett's X2)				0.658	0.245	0.154	0.556	0.405	1.00	0.634	0.254
Replicate F				1.453	1.767	1.682	5.454	2.374	0.155	1.822	0.960
Replicate Prob(F)				0.2555	0.1943	0.2091	0.0119	0.1165	0.8574	0.1853	0.3985
Treatment F				2.019	853.189	258.554	224.309	1.000	838.531	484.824	212.235
Treatment Prob(F)				0.0774	0.0001	0.0001	0.0001	0.4767	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY Weed Science Research

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifida	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	9	10	11	12	16
12	ROUNDUP POWERMAX	22	oz/a	B	0	98	96	86	90.8
	AMS	3.7	% v/v	B					
	ROUNDUP POWERMAX	22	oz/a	D					
	AMS	3.7	% v/v	D					
	LSD (P=.05)				0.0	3.5	4.6	6.0	14.66
	Standard Deviation				0.0	2.1	2.7	3.5	8.66
	CV				0.0	2.32	3.08	4.33	9.28
	Bartlett's X2				0.0	1.771	3.342	5.19	15.778
	P(Bartlett's X2)				.	0.94	0.502	0.817	0.15
	Replicate F				0.000	1.889	0.469	0.186	15.967
	Replicate Prob(F)				1.0000	0.1749	0.6320	0.8312	0.0001
	Treatment F				0.000	552.995	316.086	164.780	19.330
	Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C8022 Protocol ID: HP08NARDLL BAYER
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 14 \cdot (100 - 15) / 84.5$

Plant and Soil Science, U of KY Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C8022 Protocol ID: HP08NARDLL BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 56 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008
Harvest Date: 9/18/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 37 FT
% Standard Moisture: 15.5

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:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B C D

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	5/29/2008	6/17/2008	6/23/2008
Time of Day:	3 PM	3 PM	11 AM	4 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	++ MP	REG
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	SARA CARTER
Air Temperature, Unit:	63 F	75 F	70 F	78 F
% Relative Humidity:	41	34	43	43
Wind Velocity, Unit:	6 MPH	2 MPH	4 MPH	5 MPH
Wind Direction:	S	SW	WNW	W
Soil Temperature, Unit:	556 F	67 F	74 F	73 F
Soil Moisture:	ADEQUATE	FAIR	ADEQUATE	ADEQUATE
% Cloud Cover:	20	0	0	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:	V2	V2	V8	V8
Height, Unit:	6 IN	30 IN	30 IN	30 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN	4 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	6 IN	7 IN	7 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	3 IN	4 IN	4 IN

Application Equipment

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

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VI

Trial ID: C8023 Protocol ID: HP08NARDLA BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	6/5/2008	6/5/2008	6/5/2008	6/5/2008	6/12/2008	6/12/2008	6/12/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
SE Description					AFTER POST	AFTER POST	AFTER POST
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	+2 WEEK	+2 WEEK	+2 WEEK
Days After First/Last Applic.	36 7	36 7	36 7	36 7	43 14	43 14	43 14
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	31 DE-	31 DE-	31 DE-	31 DE-	38 DE-	38 DE-	38 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	CORVUS HERBICIDE	2.5	oz/a	A	2	99	99	98	2	98	99
	AATREX	1	qt/a	A							
	LAUDIS	3	oz/a	C							
	AATREX	1	pt/a	C							
	COC	1	% v/v	C							
	LIQUID N	1.5	qt/a	C							
3	CORVUS HERBICIDE	2.5	oz/a	A	2	99	99	99	2	99	98
	AATREX	1	qt/a	A							
	LAUDIS	3	oz/a	C							
	AATREX	2	pt/a	C							
	MSO	1	% v/v	C							
	LIQUID N	1.5	qt/a	C							
4	LEXAR	1.5	qt/a	A	0	99	99	99	3	99	99
	LEXAR	1.5	qt/a	C							
5	HARNESS XTRA	2.1	qt/a	A	0	99	99	99	0	99	99
	LAUDIS	3	oz/a	C							
	AATREX	1	pt/a	C							
	COC	1	% v/v	C							
	LIQUID N	1.5	qt/a	C							
6	LAUDIS	2	oz/a	C	0	99	99	99	0	99	99
	IGNITE 280	22.9	oz/a	C							
	AATREX	1	pt/a	C							
	AMS	8.5	lb ai/100 gal	C							
7	LAUDIS	3	oz/a	C	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	22	oz/a	C							
	AATREX	1	pt/a	C							
	AMS	8.5	lb ai/100 gal	C							
8	LAUDIS	3	oz/a	C	0	99	96	98	0	98	99
	AATREX	2	pt/a	C							
	AMS	8.5	lb ai/100 gal	C							
	ROUNDUP POWERMAX	11	oz/a	C							
9	LAUDIS	3	oz/a	B	0	99	90	98	0	98	92
	AATREX	1	pt/a	B							
	MSO	1	% v/v	B							
	LIQUID N	1.5	qt/a	B							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS	SETFA	SETFA
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Setaria faberi
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	6/12/2008	6/26/2008	6/26/2008	6/26/2008	6/26/2008	7/17/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing	+2 WEEK	+ 4 WEEK	+ 4 WEEK	+ 4 WEEK	+ 4 WEEK	+ 8 WEEK
Days After First/Last Applic.	43 14	57 28	57 28	57 28	57 28	78 49
Plant-Eval Interval	43 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1	78 DP-1
Days After Emergence	38 DE-	52 DE-	52 DE-	52 DE-	52 DE-	73 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	8	9	10	11	12	13	14
No.	Name	Rate Unit	Code							
1	CHECK UNTREATED			0	0	0	0	0	0	0
2	CORVUS HERBICIDE	2.5 oz/a	A	90	0	98	99	88	0	98
	AATREX	1 qt/a	A							
	LAUDIS	3 oz/a	C							
	AATREX	1 pt/a	C							
	COC	1 % v/v	C							
	LIQUID N	1.5 qt/a	C							
3	CORVUS HERBICIDE	2.5 oz/a	A	92	0	99	98	89	0	99
	AATREX	1 qt/a	A							
	LAUDIS	3 oz/a	C							
	AATREX	2 pt/a	C							
	MSO	1 % v/v	C							
	LIQUID N	1.5 qt/a	C							
4	LEXAR	1.5 qt/a	A	95	0	99	99	90	0	99
	LEXAR	1.5 qt/a	C							
5	HARNESS XTRA	2.1 qt/a	A	91	0	99	99	85	0	99
	LAUDIS	3 oz/a	C							
	AATREX	1 pt/a	C							
	COC	1 % v/v	C							
	LIQUID N	1.5 qt/a	C							
6	LAUDIS	2 oz/a	C	89	0	98	99	85	0	98
	IGNITE 280	22.9 oz/a	C							
	AATREX	1 pt/a	C							
	AMS	8.5 lb ai/100 gal	C							
7	LAUDIS	3 oz/a	C	87	0	95	99	83	0	95
	ROUNDUP POWERMAX	22 oz/a	C							
	AATREX	1 pt/a	C							
	AMS	8.5 lb ai/100 gal	C							
8	LAUDIS	3 oz/a	C	95	0	93	98	88	0	93
	AATREX	2 pt/a	C							
	AMS	8.5 lb ai/100 gal	C							
	ROUNDUP POWERMAX	11 oz/a	C							
9	LAUDIS	3 oz/a	B	93	0	96	92	88	0	96
	AATREX	1 pt/a	B							
	MSO	1 % v/v	B							
	LIQUID N	1.5 qt/a	B							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Giant ragweed	Morning glory	
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	7/17/2008	7/17/2008	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1
SE Description	AFTER POST	AFTER POST	
Rating Timing	+ 8 WEEK	+ 8 WEEK	
Days After First/Last Applic.	78 49	78 49	
Plant-Eval Interval	78 DP-1	78 DP-1	
Days After Emergence	73 DE-	73 DE-	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	20
1	CHECK UNTREATED				0	0	18.5
2	CORVUS HERBICIDE	2.5	oz/a	A	99	88	87.4
	AATREX	1	qt/a	A			
	LAUDIS	3	oz/a	C			
	AATREX	1	pt/a	C			
	COC	1	% v/v	C			
	LIQUID N	1.5	qt/a	C			
3	CORVUS HERBICIDE	2.5	oz/a	A	98	89	69.7
	AATREX	1	qt/a	A			
	LAUDIS	3	oz/a	C			
	AATREX	2	pt/a	C			
	MSO	1	% v/v	C			
	LIQUID N	1.5	qt/a	C			
4	LEXAR	1.5	qt/a	A	99	90	68.2
	LEXAR	1.5	qt/a	C			
5	HARNESS XTRA	2.1	qt/a	A	99	85	77.7
	LAUDIS	3	oz/a	C			
	AATREX	1	pt/a	C			
	COC	1	% v/v	C			
	LIQUID N	1.5	qt/a	C			
6	LAUDIS	2	oz/a	C	99	85	39.4
	IGNITE 280	22.9	oz/a	C			
	AATREX	1	pt/a	C			
	AMS	8.5	lb ai/100 gal	C			
7	LAUDIS	3	oz/a	C	99	83	41.2
	ROUNDUP POWERMAX	22	oz/a	C			
	AATREX	1	pt/a	C			
	AMS	8.5	lb ai/100 gal	C			
8	LAUDIS	3	oz/a	C	98	88	51.5
	AATREX	2	pt/a	C			
	AMS	8.5	lb ai/100 gal	C			
	ROUNDUP POWERMAX	11	oz/a	C			
9	LAUDIS	3	oz/a	B	92	88	49.8
	AATREX	1	pt/a	B			
	MSO	1	% v/v	B			
	LIQUID N	1.5	qt/a	B			

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed			W Weed			W Weed																							
Pest Code	SETFA			AMBTR			IPOSS																							
Pest Scientific Name	Setaria faberi			Ambrosia trifi>			Ipomoea sp.																							
Pest Name	Giant foxtail			Giant ragweed			Morning glory																							
Crop Code	ZEAMX				ZEAMX				ZEAMX																					
BBCH Scale	BCOR				BCOR				BCOR																					
Crop Scientific Name	Zea mays				Zea mays				Zea mays																					
Crop Name	Corn				Corn				Corn																					
Rating Date	6/5/2008	6/5/2008	6/5/2008	6/5/2008	6/12/2008	6/12/2008	6/12/2008	6/12/2008	6/26/2008																					
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY																					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT																					
Number of Subsamples	1	1	1	1	1	1	1	1	1																					
SE Description					AFTER POST				AFTER POST																					
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	+2 WEEK	+2 WEEK	+2 WEEK	+2 WEEK	+ 4 WEEK																					
Days After First/Last Applic.	36 7	36 7	36 7	36 7	43 14	43 14	43 14	43 14	57 28																					
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	57 DP-1																					
Days After Emergence	31 DE-	31 DE-	31 DE-	31 DE-	38 DE-	38 DE-	38 DE-	38 DE-	52 DE-																					
ARM Action Codes	P	P	P	P	P	P	P	P	P																					
Number of Decimals	0	0	0	0	0	0	0	0	0																					
Trt	Treatment	Rate	Appl	1			2			3			4			5			6			7			8			9		
10	IMPACT	0.75 oz/a	B	0	99	93	93	93	2	93	93	89	89	2																
	AATREX	1 pt/a	B																											
	COC	1 % v/v	B																											
	LIQUID N	1.5 qt/a	B																											
LSD (P=.05)				2.3	0.0	2.6	3.4	3.3	2.8	2.9	5.8	1.6																		
Standard Deviation				1.3	0.0	1.5	2.0	1.9	1.6	1.7	3.4	0.9																		
CV				397.91	0.0	1.76	2.24	228.04	1.85	1.94	4.14	547.72																		
Bartlett's X2				0.0	0.0	0.582	2.225	0.0	0.151	0.613	2.769	0.0																		
P(Bartlett's X2)				.	.	0.446	0.527	.	0.985	0.736	0.837	.																		
Replicate F				0.474	0.000	0.126	2.026	0.231	0.163	1.345	0.150	1.000																		
Replicate Prob(F)				0.6302	1.0000	0.8821	0.1609	0.7962	0.8507	0.2855	0.8617	0.3874																		
Treatment F				0.842	0.000	1201.917	739.678	1.154	1086.728	988.169	218.006	1.000																		
Treatment Prob(F)				0.5887	1.0000	0.0001	0.0001	0.3784	0.0001	0.0001	0.0001	0.4742																		

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR	IPOSS		SETFA	AMBTR	IPOSS	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory	
Crop Code				ZEAMX				
BBCH Scale				BCOR				
Crop Scientific Name				Zea mays				
Crop Name				Corn				
Rating Date	6/26/2008	6/26/2008	6/26/2008	7/17/2008	7/17/2008	7/17/2008	7/17/2008	
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Rating Timing	+ 4 WEEK	+ 4 WEEK	+ 4 WEEK	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK	
Days After First/Last Applic.	57 28	57 28	57 28	78 49	78 49	78 49	78 49	
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	78 DP-1	78 DP-1	78 DP-1	78 DP-1	
Days After Emergence	52 DE-	52 DE-	52 DE-	73 DE-	73 DE-	73 DE-	73 DE-	
ARM Action Codes	P	P	P	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0	0	0	1

Trt	Treatment	Rate	Appl									
No.	Name	Rate	Unit	Code	10	11	12	13	14	15	16	20
10	IMPACT	0.75	oz/a	B	90	92	82	2	90	92	82	25.6
	AATREX	1	pt/a	B								
	COC	1	% v/v	B								
	LIQUID N	1.5	qt/a	B								
LSD (P=.05)					4.2	4.0	9.9	1.6	4.2	4.0	9.9	35.72
Standard Deviation					2.4	2.3	5.8	0.9	2.4	2.3	5.8	20.82
CV					2.8	2.68	7.42	547.72	2.8	2.68	7.42	39.36
Bartlett's X2					2.527	2.467	3.213	0.0	2.527	2.467	3.213	16.08
P(Bartlett's X2)					0.64	0.481	0.865	.	0.64	0.481	0.865	0.065
Replicate F					1.734	0.554	0.343	1.000	1.734	0.554	0.343	3.827
Replicate Prob(F)					0.2047	0.5843	0.7138	0.3874	0.2047	0.5843	0.7138	0.0412
Treatment F					475.599	520.817	67.911	1.000	475.599	520.817	67.911	3.518
Treatment Prob(F)					0.0001	0.0001	0.0001	0.4742	0.0001	0.0001	0.0001	0.0111

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VI

Trial ID: C8023 Protocol ID: HP08NARDLA BAYER
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

36 DP-1 = 1 4/30/2008

43 DP-1 = 1 4/30/2008

57 DP-1 = 1 4/30/2008

78 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 18^{(100-19)/84.5}$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VI

Trial ID: C8023 Protocol ID: HP08NARDLA BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: 33M57 RR/LL
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 56 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008
Harvest Date: 9/18/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 37 FT
% Standard Moisture: 15.5

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:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B C

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	5/22/2008	5/29/2008
Time of Day:	3 PM	2 PM	3 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	72 F	75 F
% Relative Humidity:	41	38	34
Wind Velocity, Unit:	6 MPH	4 MPH	2 MPH
Wind Direction:	S	NW	SW
Soil Temperature, Unit:	56 F	61 F	67 F
Soil Moisture:	ADEQUATE	ADEQUATE	FAIR
% Cloud Cover:	20	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	V2
Height, Unit:		4 IN	6 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		1 IN	1 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		2 IN	4 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	1 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	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C8024 Protocol ID: HP08NARJJB BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	IPOSS
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Ipomoea sp.
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Morning glory
Crop Code	ZEAMX			ZEAMX			
BBCH Scale	BCOR			BCOR			
Crop Scientific Name	Zea mays			Zea mays			
Crop Name	Corn			Corn			
Rating Date	5/14/2008	5/14/2008	5/14/2008	5/14/2008	6/19/2008	6/19/2008	6/19/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
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	50 14	50 14	50 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	50 DP-1	50 DP-1	50 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	45 DE-	45 DE-	45 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	1	2	3	4	5	6	7	8
No.	Name	Rate Unit	Code								
1	CORVUS HERBICIDE	2.2 oz/a	A	0	0	0	0	2	96	98	92
	IGNITE 280	22 oz/a	B								
	LAUDIS	2 oz/a	B								
	AMS	1.5 lb ai/a	B								
2	CORVUS HERBICIDE	3 oz/a	A	0	98	92	92	0	99	96	91
	IGNITE 280	22 oz/a	B								
	LAUDIS	2 oz/a	B								
	AMS	1.5 lb ai/a	B								
3	CORVUS HERBICIDE	2.2 oz/a	A	0	98	92	89	0	99	96	91
	ROUNDUP POWERMAX	22 oz/a	B								
	LAUDIS	3 oz/a	B								
	AMS	1.5 lb ai/a	B								
4	CORVUS HERBICIDE	3 oz/a	A	0	96	90	92	0	99	98	92
	ROUNDUP POWERMAX	22 oz/a	B								
	LAUDIS	3 oz/a	B								
	AMS	1.5 lb ai/a	B								
5	BALANCE FLEXX HERBICIDE	3 oz/a	A	0	99	93	83	0	99	96	84
	AATREX	1 qt/a	A								
	IGNITE 280	22 oz/a	B								
	LAUDIS	2 oz/a	B								
	AMS	1.5 lb ai/a	B								
6	BALANCE FLEXX HERBICIDE	4 oz/a	A	0	99	88	78	0	99	96	91
	AATREX	1 qt/a	A								
	IGNITE 280	22 oz/a	B								
	LAUDIS	2 oz/a	B								
	AMS	1.5 lb ai/a	B								
7	CORVUS HERBICIDE	5.6 oz/a	A	5	99	95	95	5	99	99	93
	AATREX	1.5 qt/a	A								
8	BALANCE FLEXX HERBICIDE	6 oz/a	A	0	99	90	95	0	99	99	86
	AATREX	1.5 qt/a	A								
9	BALANCE FLEXX HERBICIDE	4 oz/a	A	2	99	91	90	2	99	98	87
	HARNESS XTRA	1.5 qt/a	A								
10	LEXAR	3 qt/a	A	2	99	95	90	2	99	99	93
LSD (P=.05)				2.3	3.4	3.8	7.3	2.7	1.3	2.6	8.1
Standard Deviation				1.3	2.0	2.2	4.3	1.6	0.7	1.5	4.7
CV				159.16	2.23	2.71	5.32	158.11	0.74	1.56	5.24
Bartlett's X2				0.0	1.813	0.159	9.617	0.0	0.0	0.0	13.812
P(Bartlett's X2)				.	0.404	0.997	0.047*	.	.	1.00	0.129
Replicate F				0.474	0.622	0.260	2.434	1.000	1.000	7.154	2.836
Replicate Prob(F)				0.6302	0.5482	0.7740	0.1160	0.3874	0.3874	0.0052	0.0850
Treatment F				4.474	742.312	507.814	134.906	3.111	4.000	1.769	1.285
Treatment Prob(F)				0.0033	0.0001	0.0001	0.0001	0.0193	0.0060	0.1448	0.3098

Plant and Soil Science, U of KY Weed Science Research

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	7/17/2008	7/17/2008	7/17/2008	7/17/2008	
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	78 42	78 42	78 42	78 42	
Plant-Eval Interval	78 DP-1	78 DP-1	78 DP-1	78 DP-1	
Days After Emergence	73 DE-	73 DE-	73 DE-	73 DE-	
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Unit	Code	9	10	11	12	16
1	CORVUS HERBICIDE	2.2 oz/a	A		2	96	98	88	55.7
	IGNITE 280	22 oz/a	B						
	LAUDIS	2 oz/a	B						
	AMS	1.5 lb ai/a	B						
2	CORVUS HERBICIDE	3 oz/a	A		0	99	96	83	62.8
	IGNITE 280	22 oz/a	B						
	LAUDIS	2 oz/a	B						
	AMS	1.5 lb ai/a	B						
3	CORVUS HERBICIDE	2.2 oz/a	A		0	99	96	86	61.7
	ROUNDUP POWERMAX	22 oz/a	B						
	LAUDIS	3 oz/a	B						
	AMS	1.5 lb ai/a	B						
4	CORVUS HERBICIDE	3 oz/a	A		0	98	98	88	115.4
	ROUNDUP POWERMAX	22 oz/a	B						
	LAUDIS	3 oz/a	B						
	AMS	1.5 lb ai/a	B						
5	BALANCE FLEXX HERBICIDE	3 oz/a	A		0	99	96	78	106.8
	AATREX	1 qt/a	A						
	IGNITE 280	22 oz/a	B						
	LAUDIS	2 oz/a	B						
	AMS	1.5 lb ai/a	B						
6	BALANCE FLEXX HERBICIDE	4 oz/a	A		0	98	96	85	81.2
	AATREX	1 qt/a	A						
	IGNITE 280	22 oz/a	B						
	LAUDIS	2 oz/a	B						
	AMS	1.5 lb ai/a	B						
7	CORVUS HERBICIDE	5.6 oz/a	A		2	98	99	91	65.6
	AATREX	1.5 qt/a	A						
8	BALANCE FLEXX HERBICIDE	6 oz/a	A		0	99	96	83	82.1
	AATREX	1.5 qt/a	A						
9	BALANCE FLEXX HERBICIDE	4 oz/a	A		2	99	98	82	58.6
	HARNESS XTRA	1.5 qt/a	A						
10	LEXAR	3 qt/a	A		0	99	99	89	63.4
LSD (P=.05)					2.7	2.4	3.5	8.7	20.99
Standard Deviation					1.6	1.4	2.0	5.1	12.24
CV					316.23	1.42	2.08	5.96	16.24
Bartlett's X2					0.0	0.0	2.941	9.662	3.425
P(Bartlett's X2)					.	.	0.89	0.29	0.945
Replicate F					1.000	1.909	6.777	0.777	5.352
Replicate Prob(F)					0.3874	0.1770	0.0064	0.4747	0.0150
Treatment F					0.778	1.364	0.946	1.641	8.730
Treatment Prob(F)					0.6390	0.2743	0.5120	0.1772	0.0001

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C8024 Protocol ID: HP08NARJJB BAYER
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

14 DP-1 = 1 4/30/2008

50 DP-1 = 1 4/30/2008

78 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 * 14 * (100 - 15) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE LIBERTY

Trial ID: C8024 Protocol ID: HP08NARJJB BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: 33M57 RR/LL
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 56 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008
Harvest Date: 9/18/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 37 FT
% Standard Moisture: 15.5

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:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	6/5/2008
Time of Day:	3 PM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	80 F
% Relative Humidity:	41	71
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	S	SSW
Soil Temperature, Unit:	56 F	74 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	0

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	3 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	6 IN	
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2 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	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

Weed Science Research

CORN POSTEMERGENCE LIBERTY II

Trial ID: C8025 Protocol ID: HP08NARMRF BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H.SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	
Crop Code	ZEAMX			ZEAMX		
BBCH Scale	BCOR			BCOR		
Crop Scientific Name	Zea mays			Zea mays		
Crop Name	Corn			Corn		
Rating Date	5/14/2008	5/14/2008	5/14/2008	5/14/2008	6/19/2008	6/19/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description				AFTER POST		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	+ 2 WEEK	+ 2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	50 14	50 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	50 DP-1	50 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	45 DE-	45 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	BALANCE FLEXX HERBICIDE	3 oz/a		A	0	98	92	87	0	99	98
	IGNITE 280	22 oz/a		B							
	AATREX	2 pt/a		B							
	AMS	17 lb ai/100 gal		B							
3	BALANCE FLEXX HERBICIDE	3 oz/a		A	0	99	99	98	0	99	99
	AATREX	2 pt/a		A							
	IGNITE 280	22 oz/a		B							
	AATREX	1 pt/a		B							
	AMS	17 lb ai/100 gal		B							
4	CORVUS HERBICIDE	3 oz/a		A	0	99	95	96	2	98	96
	IGNITE 280	22 oz/a		B							
	AATREX	2 pt/a		B							
	AMS	17 lb ai/100 gal		B							
5	CORVUS HERBICIDE	3 oz/a		A	0	99	99	99	2	99	99
	AATREX	2 pt/a		A							
	IGNITE 280	22 oz/a		B							
	AMS	17 lb ai/100 gal		B							
6	BALANCE PRO	1.5 oz/a		A	0	98	67	67	0	99	96
	IGNITE 280	22 fl oz/a		B							
	LAUDIS	2 oz/a		B							
	AMS	17 lb ai/100 gal		B							
7	BALANCE FLEXX HERBICIDE	1.5 fl oz/a		A	0	99	84	85	2	96	96
	IGNITE 280	22 oz/a		B							
	CAPRENO HERBICIDE	2 fl oz/a		B							
	AMS	17 lb ai/100 gal		B							
8	BALANCE FLEXX HERBICIDE	1.5 fl oz/a		A	0	99	82	82	2	98	96
	CAPRENO HERBICIDE	2 fl oz/a		B							
	AATREX	1 pt/a		B							
	COC	1 % v/v		B							
	AMS	17 lb ai/100 gal		B							
9	HARNESS XTRA	1.3 qt/a		A	0	99	86	88	0	99	96
	IGNITE 280	22 fl oz/a		B							
	AMS	17 lb ai/100 gal		B							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS	SETFA	SETFA
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Setaria faberi
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant foxtail
Crop Code		ZEAMX			ZEAMX	
BBCH Scale		BCOR			BCOR	
Crop Scientific Name		Zea mays			Zea mays	
Crop Name		Corn			Corn	
Rating Date	6/19/2008	7/3/2008	7/3/2008	7/3/2008	7/3/2008	7/31/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing	+ 2 WEEK	+4 WEEK	+4 WEEK	+4 WEEK	+4 WEEK	+8 WEEK
Days After First/Last Applic.	50 14	64 28	64 28	64 28	64 28	92 56
Plant-Eval Interval	50 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	92 DP-1
Days After Emergence	45 DE-	59 DE-	59 DE-	59 DE-	59 DE-	87 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	8	9	10	11	12	13	14
No.	Name	Rate Unit	Code							
1	CHECK UNTREATED			0	0	0	0	0	0	0
2	BALANCE FLEXX HERBICIDE	3 oz/a	A	95	0	99	98	91	0	99
	IGNITE 280	22 oz/a	B							
	AATREX	2 pt/a	B							
	AMS	17 lb ai/100 gal	B							
3	BALANCE FLEXX HERBICIDE	3 oz/a	A	93	0	99	99	88	0	99
	AATREX	2 pt/a	A							
	IGNITE 280	22 oz/a	B							
	AATREX	1 pt/a	B							
	AMS	17 lb ai/100 gal	B							
4	CORVUS HERBICIDE	3 oz/a	A	92	0	95	95	91	0	95
	IGNITE 280	22 oz/a	B							
	AATREX	2 pt/a	B							
	AMS	17 lb ai/100 gal	B							
5	CORVUS HERBICIDE	3 oz/a	A	89	2	95	99	85	2	95
	AATREX	2 pt/a	A							
	IGNITE 280	22 oz/a	B							
	AMS	17 lb ai/100 gal	B							
6	BALANCE PRO	1.5 oz/a	A	88	0	99	96	81	0	99
	IGNITE 280	22 fl oz/a	B							
	LAUDIS	2 oz/a	B							
	AMS	17 lb ai/100 gal	B							
7	BALANCE FLEXX HERBICIDE	1.5 fl oz/a	A	89	2	96	96	85	2	96
	IGNITE 280	22 oz/a	B							
	CAPRENO HERBICIDE	2 fl oz/a	B							
	AMS	17 lb ai/100 gal	B							
8	BALANCE FLEXX HERBICIDE	1.5 fl oz/a	A	92	2	96	96	90	2	96
	CAPRENO HERBICIDE	2 fl oz/a	B							
	AATREX	1 pt/a	B							
	COC	1 % v/v	B							
	AMS	17 lb ai/100 gal	B							
9	HARNESX XTRA	1.3 qt/a	A	88	0	99	93	82	0	99
	IGNITE 280	22 fl oz/a	B							
	AMS	17 lb ai/100 gal	B							

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Scientific Name	Ambrosia trifida	Ipomoea sp.	
Pest Name	Giant ragweed	Morning glory	
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	7/31/2008	7/24/2008	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1
SE Description	AFTER POST	AFTER POST	
Rating Timing	+8 WEEK	+8 WEEK	
Days After First/Last Applic.	92 56	85 49	
Plant-Eval Interval	92 DP-1	85 DP-1	
Days After Emergence	87 DE-	80 DE-	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	20
1	CHECK UNTREATED				0	0	14.6
2	BALANCE FLEXX HERBICIDE	3 oz/a		A	98	91	84.3
	IGNITE 280	22 oz/a		B			
	AATREX	2 pt/a		B			
	AMS	17 lb ai/100 gal		B			
3	BALANCE FLEXX HERBICIDE	3 oz/a		A	99	88	81.5
	AATREX	2 pt/a		A			
	IGNITE 280	22 oz/a		B			
	AATREX	1 pt/a		B			
	AMS	17 lb ai/100 gal		B			
4	CORVUS HERBICIDE	3 oz/a		A	95	91	78.3
	IGNITE 280	22 oz/a		B			
	AATREX	2 pt/a		B			
	AMS	17 lb ai/100 gal		B			
5	CORVUS HERBICIDE	3 oz/a		A	99	85	80.0
	AATREX	2 pt/a		A			
	IGNITE 280	22 oz/a		B			
	AMS	17 lb ai/100 gal		B			
6	BALANCE PRO	1.5 oz/a		A	96	81	63.0
	IGNITE 280	22 fl oz/a		B			
	LAUDIS	2 oz/a		B			
	AMS	17 lb ai/100 gal		B			
7	BALANCE FLEXX HERBICIDE	1.5 fl oz/a		A	96	85	79.0
	IGNITE 280	22 oz/a		B			
	CAPRENO HERBICIDE	2 fl oz/a		B			
	AMS	17 lb ai/100 gal		B			
8	BALANCE FLEXX HERBICIDE	1.5 fl oz/a		A	96	90	57.5
	CAPRENO HERBICIDE	2 fl oz/a		B			
	AATREX	1 pt/a		B			
	COC	1 % v/v		B			
	AMS	17 lb ai/100 gal		B			
9	HARNESX XTRA	1.3 qt/a		A	93	82	77.4
	IGNITE 280	22 fl oz/a		B			
	AMS	17 lb ai/100 gal		B			

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS		SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed
Crop Code	ZEAMX				ZEAMX	
BBCH Scale	BCOR				BCOR	
Crop Scientific Name	Zea mays				Zea mays	
Crop Name	Corn				Corn	
Rating Date	5/14/2008	5/14/2008	5/14/2008	5/14/2008	6/19/2008	6/19/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description					AFTER POST	AFTER POST
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	+ 2 WEEK	+ 2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	50 14	50 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	50 DP-1	50 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	45 DE-	45 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Unit	Code	1	2	3	4
10 HARNESS XTRA	1.3 qt/a	A	0	98	90	88
ROUNDUP POWERMAX	22 fl oz/a	B				0
AMS	17 lb ai/100 gal	B				
LSD (P=.05)			0.0	2.3	8.1	8.3
Standard Deviation			0.0	1.3	4.7	4.8
CV			0.0	1.5	5.92	6.14
Bartlett's X2			0.0	0.0	2.844	7.188
P(Bartlett's X2)			.	.	0.724	0.41
Replicate F			0.000	0.000	0.503	1.743
Replicate Prob(F)			1.0000	1.0000	0.6129	0.2033
Treatment F			0.000	1639.769	117.950	109.528
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001
						1.909
						0.1770
						0.727
						0.6793
						0.310
						0.7370
						1691.985
						0.0001
						1.328
						0.2898
						785.436
						0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS	SETFA	SETFA
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Setaria faberi
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	6/19/2008	7/3/2008	7/3/2008	7/3/2008	7/3/2008	7/31/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing	+ 2 WEEK	+4 WEEK	+4 WEEK	+4 WEEK	+4 WEEK	+8 WEEK
Days After First/Last Applic.	50 14	64 28	64 28	64 28	64 28	92 56
Plant-Eval Interval	50 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	92 DP-1
Days After Emergence	45 DE-	59 DE-	59 DE-	59 DE-	59 DE-	87 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Unit	Code	8	9	10	11
10 HARNESS XTRA	1.3 qt/a	A	89	0	96	94
ROUNDUP POWERMAX	22 fl oz/a	B				83
AMS	17 lb ai/100 gal	B				0
LSD (P=.05)			4.3	2.7	4.8	5.0
Standard Deviation			2.5	1.6	2.8	2.9
CV			3.11	316.23	3.17	3.37
Bartlett's X2			8.939	0.0	2.017	3.37
P(Bartlett's X2)			0.177	.	0.733	0.761
Replicate F			2.750	1.000	1.183	0.484
Replicate Prob(F)			0.0907	0.3874	0.3291	0.6241
Treatment F			386.045	0.778	369.021	327.017
Treatment Prob(F)			0.0001	0.6390	0.0001	0.0001
						107.791
						0.778
						0.6390
						0.0001
						369.021
						0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed				
Pest Code	AMBTR	IPOSS				
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.				
Pest Name	Giant ragweed	Morning glory				
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/31/2008	7/24/2008				
Rating Type	CONTROL	CONTROL			YIELD	
Rating Unit	PERCENT	PERCENT			BU	
Number of Subsamples	1	1			1	
SE Description	AFTER POST	AFTER POST				
Rating Timing	+8 WEEK	+8 WEEK				
Days After First/Last Applic.	92 56	85 49				
Plant-Eval Interval	92 DP-1	85 DP-1				
Days After Emergence	87 DE-	80 DE-				
ARM Action Codes	P	P			TY1	
Number of Decimals	0	0			1	
Trt No.	Treatment	Rate	Appl Code	15	16	20
10	HARNESXTRA	1.3 qt/a	A	94	83	74.2
	ROUNDUP POWERMAX	22 fl oz/a	B			
	AMS	17 lb ai/100 gal	B			
LSD (P=.05)				5.0	7.9	28.05
Standard Deviation				2.9	4.6	16.35
CV				3.37	5.92	23.7
Bartlett's X2				3.37	3.291	13.97
P(Bartlett's X2)				0.761	0.857	0.123
Replicate F				0.484	3.744	1.642
Replicate Prob(F)				0.6241	0.0437	0.2213
Treatment F				327.017	107.791	4.889
Treatment Prob(F)				0.0001	0.0001	0.0021

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE LIBERTY II

Trial ID: C8025 Protocol ID: HP08NARMRF BAYER
Location: LEXINGTON, KY Study Director: CHARLES H.SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

14 DP-1 = 1 4/30/2008

50 DP-1 = 1 4/30/2008

64 DP-1 = 1 4/30/2008

92 DP-1 = 1 4/30/2008

85 DP-1 = 1 4/30/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 18 \cdot (100 - 19) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE LIBERTY II

Trial ID: C8025 Protocol ID: HP08NARMRF BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/30/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: 33M57 RR/LL
BBCH Scale: BCOR **Planting Date:** 4/30/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 56 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/5/2008
Harvest Date: 9/18/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 37 FT
% Standard Moisture: 15.5

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:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	4/30/2008	6/5/2008
Time of Day:	3 PM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	80 F
% Relative Humidity:	41	71
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	S	SSW
Soil Temperature, Unit:	56 F	74 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	0

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		6 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:		3 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	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

Weed Science Research

CORN POSTEMERGENCE VII

Trial ID: C8026 Protocol ID: GOWAN D-YUK-08-03-3-2
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMACH	CHEAL	AMACH
Pest Scientific Name	Chenopodium al>	Amaranthus hyb>	Chenopodium al>	Amaranthus hyb>
Pest Name	Common lambsqu>	Smooth pigweed	Common lambsqu>	Smooth pigweed
Crop Code	ZEAMX		ZEAMX	ZEAMX
BBCH Scale	BCOR		BCOR	BCOR
Crop Scientific Name	Zea mays		Zea mays	Zea mays
Crop Name	Corn		Corn	Corn
Rating Date	6/18/2008	6/18/2008	7/2/2008	7/2/2008
Rating Type	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	28 28	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	43 DP-1	43 DP-1	57 DP-1	57 DP-1
Days After Emergence	37 DE-	37 DE-	51 DE-	51 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1 CHECK UNTREATED				0	0	0	0	0	0	0
2 STATUS	5 oz/a	A		0	99	99	0	98	99	0
ROUNDUP WeatherMAX	0.75 lb ae/a	A								
INDUCE	0.125 % v/v	A								
AMS	3 lb ai/a	A								
3 YUKON	4 oz/a	A		0	99	99	0	99	99	0
ROUNDUP WeatherMAX	0.75 lb ae/a	A								
INDUCE	0.125 % v/v	A								
AMS	3 lb ai/a	A								
4 YUKON	3 oz/a	A		0	99	99	0	99	99	0
ROUNDUP WeatherMAX	0.75 lb ae/a	A								
INDUCE	0.125 % v/v	A								
AMS	3 lb ai/a	A								
5 PERMIT	0.67 oz/a	A		0	99	99	0	99	99	0
ROUNDUP WeatherMAX	0.75 lb ae/a	A								
INDUCE	0.125 % v/v	A								
AMS	3 lb ai/a	A								
6 GWN-3041	0.67 oz/a	A		0	99	99	0	99	99	0
GWN-3124	0.083 oz/a	A								
ROUNDUP WeatherMAX	0.75 lb ae/a	A								
INDUCE	0.125 % v/v	A								
AMS	3 lb ai/a	A								
7 ROUNDUP WeatherMAX	0.75 lb ae/a	A		0	99	98	0	99	98	0
INDUCE	0.125 % v/v	A								
AMS	3 lb ai/a	A								
LSD (P=.05)				0.0	0.0	1.6	0.0	1.6	1.6	0.0
Standard Deviation				0.0	0.0	0.9	0.0	0.9	0.9	0.0
CV				0.0	0.0	1.03	0.0	1.03	1.03	0.0
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)				.	.	.	.	.	.	.
Replicate F				0.000	0.000	1.000	0.000	1.000	1.000	0.000
Replicate Prob(F)				1.0000	1.0000	0.3966	1.0000	0.3966	0.3966	1.0000
Treatment F				0.000	0.000	5489.313	0.000	5489.313	5489.313	0.000
Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMACH	CHEAL	AMACH	CHEAL	AMACH			
Pest Scientific Name	Chenopodium al>	Amaranthus hyb>	Chenopodium al>	Amaranthus hyb>	Chenopodium al>	Amaranthus hyb>			
Pest Name	Common lambsqu>	Smooth pigweed	Common lambsqu>	Smooth pigweed	Common lambsqu>	Smooth pigweed			
Crop Code			ZEAMX			ZEAMX			
BBCH Scale			BCOR			BCOR			
Crop Scientific Name			Zea mays			Zea mays			
Crop Name			Corn			Corn			
Rating Date	7/30/2008	7/30/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008			
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Number of Subsamples	1	1	1	1	1	1			
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.	56 56	56 56	103 103	103 103	103 103	103 103			
Trt-Eval Interval	56 DA-A	56 DA-A	103 DA-A	103 DA-A	103 DA-A	103 DA-A			
Plant-Eval Interval	85 DP-1	85 DP-1	132 DP-1	132 DP-1	132 DP-1	132 DP-1			
Days After Emergence	79 DE-	79 DE-	126 DE	126 DE	126 DE	126 DE			
ARM Action Codes	P	P	P	P	P	TY1			
Number of Decimals	0	0	0	0	0	1			
Trt Treatment	Rate	Unit	Appl Code	8	9	10	11	12	16
1 CHECK UNTREATED				0	0	0	0	0	61.7
2 STATUS	5 oz/a	A		98	99	0	98	99	125.7
ROUNDUP WeatherMAX	0.75 lb ae/a	A							
INDUCE	0.125 % v/v	A							
AMS	3 lb ai/a	A							
3 YUKON	4 oz/a	A		99	99	0	99	99	132.5
ROUNDUP WeatherMAX	0.75 lb ae/a	A							
INDUCE	0.125 % v/v	A							
AMS	3 lb ai/a	A							
4 YUKON	3 oz/a	A		99	99	0	99	99	122.7
ROUNDUP WeatherMAX	0.75 lb ae/a	A							
INDUCE	0.125 % v/v	A							
AMS	3 lb ai/a	A							
5 PERMIT	0.67 oz/a	A		99	99	0	99	99	114.9
ROUNDUP WeatherMAX	0.75 lb ae/a	A							
INDUCE	0.125 % v/v	A							
AMS	3 lb ai/a	A							
6 GWN-3041	0.67 oz/a	A		99	99	0	99	99	130.5
GWN-3124	0.083 oz/a	A							
ROUNDUP WeatherMAX	0.75 lb ae/a	A							
INDUCE	0.125 % v/v	A							
AMS	3 lb ai/a	A							
7 ROUNDUP WeatherMAX	0.75 lb ae/a	A		99	98	0	99	98	113.8
INDUCE	0.125 % v/v	A							
AMS	3 lb ai/a	A							
LSD (P=.05)				1.6	1.6	0.0	1.6	1.6	23.05
Standard Deviation				0.9	0.9	0.0	0.9	0.9	12.96
CV				1.03	1.03	0.0	1.03	1.03	11.31
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	9.223
P(Bartlett's X2)				.	.	.	.	.	0.161
Replicate F				1.000	1.000	0.000	1.000	1.000	10.478
Replicate Prob(F)				0.3966	0.3966	1.0000	0.3966	0.3966	0.0023
Treatment F				5489.313	5489.313	0.000	5489.313	5489.313	10.608
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	0.0003

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VII

Trial ID: C8026 Protocol ID: GOWAN D-YUK-08-03-3-2
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

CHEAL, Chenopodium album, = US

AMACH, Amaranthus hybridus, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

43 DP-1 = 1 5/6/2008

57 DP-1 = 1 5/6/2008

85 DP-1 = 1 5/6/2008

132 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 * 14 * (100 - 15) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VII

Trial ID: C8026 Protocol ID: GOWAN D-YUK-08-03-3-2
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC 65-44		
BBCH Scale: BCOR		Planting Date: 5/6/2008
Planting Method: ROWS		Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN		
Row Spacing, Unit: 30 IN		
Seed Bed: MEDIUM	medium	Soil Temperature, Unit: 62 F
Soil Moisture: NORMAL	normal	Emergence Date: 5/12/2008
Harvest Date: 9/19/2008		Harvest Equipment: COMBINE
Harvested Width, Unit: 5 FT		Harvested Length, Unit: 37 FT
% Standard Moisture: 15.5		

Pest Description

Pest 1 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 2 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD	field
Plot Length, Unit: 44 FT		
Plot Area, Unit: 440 FT ²	Tillage Type: CONTIL	conventional-till
Replications: 3	Study Design: RACOB	Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SIL silt loam
% Silt: 64	pH: 6.5	Soil Name: MAURY SILT LOAM
% Clay: 30	CEC: 17	Fert. Level: E excellent
	Soil Drainage: E	excellent

Moisture and Weather Conditions

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

Application Description

	A
Application Date:	6/4/2008
Time of Day:	6 PM
Application Method:	SPRAY

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Weed Science Research

Application Timing: LMP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 81 F
% Relative Humidity: 58
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 72 F
Soil Moisture: ADEQUATE
% Cloud Cover: 90

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: V4
Height, Unit: 8 IN

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: CHEAL W
Height, Unit: 4 IN
Pest 2 Code, Type, Scale: AMACH W
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: 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

CORN POSTEMERGENCE VIII

Trial ID: C8027 Protocol ID: ACETO CORNPOST
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMACH	CHEAL	AMACH
Pest Scientific Name	Chenopodium al>	Amaranthus hyb>	Chenopodium al>	Amaranthus hyb>
Pest Name	Common lambsqu>	Smooth pigweed	Common lambsqu>	Smooth pigweed
Crop Code	ZEAMX		ZEAMX	ZEAMX
BBCH Scale	BCOR		BCOR	BCOR
Crop Scientific Name	Zea mays		Zea mays	Zea mays
Crop Name	Corn		Corn	Corn
Rating Date	6/18/2008	6/18/2008	7/2/2008	7/30/2008
Rating Type	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	14 12	14 12	28 26	56 54
Plant-Eval Interval	43 DP-1	43 DP-1	57 DP-1	85 DP-1
Days After Emergence	37 DE-	37 DE-	51 DE-	79 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6	7
1	HALOMAX 75	0.67	oz/a	A	0	47	99	0	47	99	0
2	PERMIT	0.67	oz/a	A	0	40	99	0	40	99	0
3	HALOMAX 75	0.67	oz/a	B	0	53	98	0	53	98	0
4	PERMIT	0.67	oz/a	B	0	47	98	0	47	98	0
5	ROUNDUP POWERMAX AMS	22 fl oz/a 3.7 % v/v	B		0	99	99	0	99	99	0
6	STATUS ROUNDUP POWERMAX AMS	5 oz/a 22 fl oz/a 3.7 % v/v	A		0	99	99	0	99	99	0
7	STATUS ROUNDUP POWERMAX AMS	5 oz/a 22 fl oz/a 3.7 % v/v	B		0	99	99	0	99	99	0
	LSD (P=.05)				0.0	31.5	2.3	0.0	31.5	2.3	0.0
	Standard Deviation				0.0	17.7	1.3	0.0	17.7	1.3	0.0
	CV				0.0	25.63	1.3	0.0	25.63	1.3	0.0
	Bartlett's X2				0.0	4.737	0.0	0.0	4.737	0.0	0.0
	P(Bartlett's X2)				.	0.192	.	.	0.192	.	.
	Replicate F				0.000	4.208	0.462	0.000	4.208	0.462	0.000
	Replicate Prob(F)				1.0000	0.0412	0.6410	1.0000	0.0412	0.6410	1.0000
	Treatment F				0.000	7.630	0.769	0.000	7.630	0.769	0.000
	Treatment Prob(F)				1.0000	0.0015	0.6084	1.0000	0.0015	0.6084	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type		W Weed	W Weed	
Pest Code		CHEAL	AMACH	
Pest Scientific Name		Chenopodium al>	Amaranthus hyb>	
Pest Name		Common lambsqu>	Smooth pigweed	
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date		7/30/2008	7/30/2008	
Rating Type		CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	BU
Number of Subsamples		1	1	1
Rating Timing		8 WEEK	8 WEEK	
Days After First/Last Applic.		56 54	56 54	
Plant-Eval Interval		85 DP-1	85 DP-1	
Days After Emergence		79 DE-	79 DE-	
ARM Action Codes		P	P	TY1
Number of Decimals		0	0	1
Trt No.	Treatment Name	Rate	Appl Code	
		Rate Unit		
				8 9 13
1	HALOMAX 75	0.67 oz/a	A	47 99 117.2
2	PERMIT	0.67 oz/a	A	40 99 105.0
3	HALOMAX 75	0.67 oz/a	B	53 98 124.3
4	PERMIT	0.67 oz/a	B	47 98 117.5
5	ROUNDUP POWERMAX	22 fl oz/a	B	99 99 130.2
	AMS	3.7 % v/v	B	
6	STATUS	5 oz/a	A	99 99 137.3
	ROUNDUP POWERMAX	22 fl oz/a	A	
	AMS	3.7 % v/v	A	
7	STATUS	5 oz/a	B	99 99 142.9
	ROUNDUP POWERMAX	22 fl oz/a	B	
	AMS	3.7 % v/v	B	
LSD (P=.05)				31.5 2.3 40.56
Standard Deviation				17.7 1.3 22.80
CV				25.63 1.3 18.25
Bartlett's X2				4.737 0.0 3.727
P(Bartlett's X2)				0.192 . 0.714
Replicate F				4.208 0.462 2.122
Replicate Prob(F)				0.0412 0.6410 0.1625
Treatment F				7.630 0.769 0.977
Treatment Prob(F)				0.0015 0.6084 0.4807

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VIII

Trial ID: C8027 Protocol ID: ACETO CORNPOST
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

CHEAL, Chenopodium album, = US

AMACH, Amaranthus hybridus, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

43 DP-1 = 1 5/6/2008

57 DP-1 = 1 5/6/2008

85 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $4.204633 \cdot 11 \cdot (100 - 12) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE VIII

Trial ID: C8027 Protocol ID: ACETO CORNPOST
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 65-44
BBCH Scale: BCOR **Planting Date:** 5/6/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008
Harvest Date: 9/18/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 37 FT
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 2 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	6/4/2008	6/6/2008
Time of Day:	6 PM	6 PM
Application Method:	SPRAY	SPRAY

Plant and Soil Science, U of KY

Weed Science Research

Application Timing:	MP	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	81 F	81 F
% Relative Humidity:	58	58
Wind Velocity, Unit:	8 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	72 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	90	20

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V4	V5
Height, Unit:	8 IN	10 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	4 IN	4 IN
Pest 2 Code, Type, Scale:	AMACH W	AMACH W
Height, Unit:	4 IN	4 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	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 Weed Science Research

CORN POSTEMERGENCE IX

Trial ID: C8040 Protocol ID: 2008-01-04-04
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed		W Weed	
Pest Code	CHEAL	AMACH	SETFA		CHEAL	
Pest Scientific Name	Chenopodium al>	Amaranthus hyb>	Setaria faberi		Chenopodium al>	
Pest Name	Common lambsqu>	Smooth pigweed	Giant foxtail		Common lambsqu>	
Crop Code				ZEAMX	ZEAMX	
BBCH Scale				BCOR	BCOR	
Crop Scientific Name				Zea mays	Zea mays	
Crop Name				Corn	Corn	
Rating Date	6/6/2008	6/6/2008	6/6/2008	6/13/2008	6/24/2008	8/14/2008
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
SE Description						
Days After First/Last Applic.	36 36	36 36	36 36	43 7	54 7	105 58
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	7 DA-B	11 DA-C	62 DA-C
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	43 DP-1	54 DP-1	105 DP-1
Days After Emergence		29 DE-		36 DE-	47 DE-	
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						
2	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	HARNESS	1.31	lb ai/a	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						
3	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	HARNESS	2.6	lb ai/a	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						
4	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	HARNESS	1.31	lb ai/a	C						
	ROUNDUP POWERMAX	0.75	lb ae/a	C						
	AMS	3.7	% v/v	C						
5	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	HARNESS	2.6	lb ai/a	C						
	ROUNDUP POWERMAX	0.75	lb ae/a	C						
	AMS	3.7	% v/v	C						
6	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	CALLISTO	0.094	lb ai/a	B						
	AMS	3.7	% v/v	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
7	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	STATUS	0.095	lb ai/a	B						
	AMS	3.7	% v/v	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
8	HARNESS XTRA	2.1	lb ai/a	A	99	99	99	0	0	99
	IMPACT	0.011	lb ai/a	B						
	AMS	3.7	% v/v	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
9	HARNESS XTRA	2.4	qt/a	A	99	99	99	0	0	99
10	LEXAR	3	qt/a	A	99	99	99	0	0	99
LSD (P=.05)					0.9	0.8	0.9	0.0	0.0	0.0
Standard Deviation					0.6	0.6	0.7	0.0	0.0	0.0
CV					0.65	0.56	0.66	0.0	0.0	0.0
Bartlett's X2					3.333	2.817	2.448	0.0	0.0	0.0
P(Bartlett's X2)					0.649	0.589	0.784	.	.	.
Replicate F					0.409	2.386	1.784	0.000	0.000	0.000
Replicate Prob(F)					0.7477	0.0912	0.1739	1.0000	1.0000	1.0000
Treatment F					0.545	0.687	0.582	0.000	0.000	0.000
Treatment Prob(F)					0.8282	0.7144	0.8002	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMACH	SETFA	IPHOE	
Pest Scientific Name	Amaranthus hyb>	Setaria faberi	Ipomoea hederata>	
Pest Name	Smooth pigweed	Giant foxtail	Ipyleaf mornin>	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	8/14/2008	8/14/2008	8/14/2008	
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	
SE Description				
Days After First/Last Applic.	105 58	105 58	105 58	
Trt-Eval Interval	62 DA-C	62 DA-C	62 DA-C	
Plant-Eval Interval	105 DP-1	105 DP-1	105 DP-1	
Days After Emergence				
ARM Action Codes	P	P	P	TY2
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	13
1	HARNESS XTRA	2.1	lb ai/a	A	99	99	86	123.3
	ROUNDUP POWERMAX	0.75	lb ae/a	B				
	AMS	3.7	% v/v	B				
2	HARNESS XTRA	2.1	lb ai/a	A	99	99	93	121.9
	HARNESS	1.31	lb ai/a	B				
	ROUNDUP POWERMAX	0.75	lb ae/a	B				
	AMS	3.7	% v/v	B				
3	HARNESS XTRA	2.1	lb ai/a	A	99	99	98	115.5
	HARNESS	2.6	lb ai/a	B				
	ROUNDUP POWERMAX	0.75	lb ae/a	B				
	AMS	3.7	% v/v	B				
4	HARNESS XTRA	2.1	lb ai/a	A	99	99	97	115.0
	HARNESS	1.31	lb ai/a	C				
	ROUNDUP POWERMAX	0.75	lb ae/a	C				
	AMS	3.7	% v/v	C				
5	HARNESS XTRA	2.1	lb ai/a	A	99	99	98	112.8
	HARNESS	2.6	lb ai/a	C				
	ROUNDUP POWERMAX	0.75	lb ae/a	C				
	AMS	3.7	% v/v	C				
6	HARNESS XTRA	2.1	lb ai/a	A	99	99	97	121.5
	CALLISTO	0.094	lb ai/a	B				
	AMS	3.7	% v/v	B				
	ROUNDUP POWERMAX	0.75	lb ae/a	B				
7	HARNESS XTRA	2.1	lb ai/a	A	99	99	80	119.8
	STATUS	0.095	lb ai/a	B				
	AMS	3.7	% v/v	B				
	ROUNDUP POWERMAX	0.75	lb ae/a	B				
8	HARNESS XTRA	2.1	lb ai/a	A	99	99	80	110.9
	IMPACT	0.011	lb ai/a	B				
	AMS	3.7	% v/v	B				
	ROUNDUP POWERMAX	0.75	lb ae/a	B				
9	HARNESS XTRA	2.4	qt/a	A	99	99	78	114.8
10	LEXAR	3	qt/a	A	99	99	90	116.7
LSD (P=.05)					0.0	0.0	13.5	15.32
Standard Deviation					0.0	0.0	9.3	10.56
CV					0.0	0.0	10.38	9.01
Bartlett's X2					0.0	0.0	30.536	10.156
P(Bartlett's X2)					.	.	0.001*	0.338
Replicate F					0.000	0.000	0.322	1.678
Replicate Prob(F)					1.0000	1.0000	0.8093	0.1952
Treatment F					0.000	0.000	3.070	0.629
Treatment Prob(F)					1.0000	1.0000	0.0115	0.7625

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE IX

Trial ID: C8040 Protocol ID: 2008-01-04-04
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

CHEAL, Chenopodium album, = US

AMACH, Amaranthus hybridus, = US

SETFA, Setaria faberi, = US

IPOHE, Ipomoea hederacea, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

36 DP-1 = 1 5/1/2008

43 DP-1 = 1 5/1/2008

54 DP-1 = 1 5/1/2008

105 DP-1 = 1 5/1/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY2 = $9.15126 * [C10] * (100 - [C11]) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE IX

Trial ID: C8040 Protocol ID: 2008-01-04-04
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: F one-year/final
Initiation Date: 5/1/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 63-42
BBCH Scale: BCOR **Planting Date:** 5/1/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 61 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/8/2008
Harvest Date: 9/17/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 26 FT
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 2 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Pest 3 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 4 Type: W **Code:** IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 28 FT
Plot Area, Unit: 280 FT² **Tillage Type:** MINTIL minimum-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Plant and Soil Science, U of KY

Weed Science Research

Application Description

	A	B	C
Application Date:	5/1/2008	6/6/2008	6/17/2008
Time of Day:	7 PM	11 AM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V6	V8 REG
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA CARTER
Air Temperature, Unit:	72 F	82 F	88 F
% Relative Humidity:	40	67	45
Wind Velocity, Unit:	10 MPH	8 MPH	4 MPH
Wind Direction:	SSW	S	WNW
Soil Temperature, Unit:	59 F	76 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	80		0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		V6	V8

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	1 IN	3 IN	4 IN
Pest 2 Code, Type, Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:	1 IN	3 IN	4 IN
Pest 3 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN	3 IN
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	COTY		
Height, Unit:		1 IN	2 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	BACKPACK
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	30 IN	30 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

Date By Notes

G P Murphy Severe drought from May thru August limited differences in weed control and made crop injury impossible to rate due to severe leaf rolling at rating time. Differences in IPOHE control did exist late season and were captured.

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE X

Trial ID: C8041 Protocol ID: 2008-01-04-03
 Location: LEXINGTON, KY Study Director: CHARLES H SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBEL	IPOHE	CHEAL	AMBEL	IPOHE
Pest Scientific Name	Chenopodium al>	Ambrosia artem>	Ipomoea heder>	Chenopodium al>	Ambrosia artem>	Ipomoea heder>
Pest Name	Common lambsqu>	Common ragweed	Ivyleaf mornin>	Common lambsqu>	Common ragweed	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	6/24/2008	6/24/2008	6/24/2008	8/14/2008	8/14/2008	8/14/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
SE Description						
Days After First/Last Applic.	54 18	54 18	54 18	105 51	105 51	105 51
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	69 DA-B	69 DA-B	69 DA-B
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	105 DP-1	105 DP-1	105 DP-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	DUAL II MAGNUM	1.2	lb ai/a	A	73	81	63	59	55	53
	IMPACT	0.011	lb ai/a	B						
	COC	1	% v/v	B						
	AMS	3.7	% v/v	B						
2	DUAL II MAGNUM	1.2	lb ai/a	A	98	95	90	96	96	87
	IMPACT	0.011	lb ai/a	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						
3	DUAL II MAGNUM	1.2	lb ai/a	A	63	76	55	36	51	58
	IMPACT	0.016	lb ai/a	B						
	COC	1	% v/v	B						
	AMS	3.7	% v/v	B						
4	DUAL II MAGNUM	1.2	lb ai/a	A	98	95	92	93	95	93
	IMPACT	0.016	lb ai/a	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						
5	DUAL II MAGNUM	1.2	lb ai/a	A	53	53	63	75	73	71
	STATUS	0.095	lb ai/a	B						
	COC	1	% v/v	B						
	AMS	3.7	% v/v	B						
6	DUAL II MAGNUM	1.2	lb ai/a	A	96	95	90	94	95	89
	STATUS	0.095	lb ai/a	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						
7	DUAL II MAGNUM	1.2	lb ai/a	A	88	85	86	90	90	79
	STATUS	0.19	lb ai/a	B						
	COC	1	% v/v	B						
	AMS	3.7	% v/v	B						
8	DUAL II MAGNUM	1.2	lb ai/a	A	99	99	94	97	97	95
	STATUS	0.19	lb ai/a	B						
	ROUNDUP POWERMAX	0.75	lb ae/a	B						
	AMS	3.7	% v/v	B						

Plant and Soil Science, U of KY

Weed Science Research

Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Assessed By
 SE Description
 Days After First/Last Applic.
 Trt-Eval Interval
 Plant-Eval Interval
 ARM Action Codes TY2
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					10
1	DUAL II MAGNUM	1.2	lb ai/a	A	94.4
	IMPACT	0.011	lb ai/a	B	
	COC	1	% v/v	B	
	AMS	3.7	% v/v	B	
2	DUAL II MAGNUM	1.2	lb ai/a	A	107.5
	IMPACT	0.011	lb ai/a	B	
	ROUNDUP POWERMAX	0.75	lb ae/a	B	
	AMS	3.7	% v/v	B	
3	DUAL II MAGNUM	1.2	lb ai/a	A	69.5
	IMPACT	0.016	lb ai/a	B	
	COC	1	% v/v	B	
	AMS	3.7	% v/v	B	
4	DUAL II MAGNUM	1.2	lb ai/a	A	118.8
	IMPACT	0.016	lb ai/a	B	
	ROUNDUP POWERMAX	0.75	lb ae/a	B	
	AMS	3.7	% v/v	B	
5	DUAL II MAGNUM	1.2	lb ai/a	A	60.6
	STATUS	0.095	lb ai/a	B	
	COC	1	% v/v	B	
	AMS	3.7	% v/v	B	
6	DUAL II MAGNUM	1.2	lb ai/a	A	99.0
	STATUS	0.095	lb ai/a	B	
	ROUNDUP POWERMAX	0.75	lb ae/a	B	
	AMS	3.7	% v/v	B	
7	DUAL II MAGNUM	1.2	lb ai/a	A	108.3
	STATUS	0.19	lb ai/a	B	
	COC	1	% v/v	B	
	AMS	3.7	% v/v	B	
8	DUAL II MAGNUM	1.2	lb ai/a	A	119.9
	STATUS	0.19	lb ai/a	B	
	ROUNDUP POWERMAX	0.75	lb ae/a	B	
	AMS	3.7	% v/v	B	

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Date	
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Assessed By	
SE Description	
Days After First/Last Applic.	
Trt-Eval Interval	
Plant-Eval Interval	
ARM Action Codes	TY2
Number of Decimals	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					10
9	DUAL II MAGNUM	1.2	lb ai/a	A	125.3
	ROUNDUP POWERMAX	0.75	lb ae/a	B	
	AMS	3.7	% v/v	B	
	ROUNDUP POWERMAX	0.75	lb ae/a	D	
	AMS	3.7	% v/v	D	
	LSD (P=.05)				25.86
	Standard Deviation				17.72
	CV				17.66
	Bartlett's X2				8.255
	P(Bartlett's X2)				0.409

Replicate F	4.167
Replicate Prob(F)	0.0165
Treatment F	6.409
Treatment Prob(F)	0.0002

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE X

Trial ID: C8041

Protocol ID: 2008-01-04-03

Location: LEXINGTON, KY

Study Director: CHARLES H SLACK

Project ID:

Investigator: Charles H Slack

Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

CHEAL, Chenopodium album, = US

AMBEL, Ambrosia artemisiifolia, = US

IPOHE, Ipomoea hederacea, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

54 DP-1 = 1 5/1/2008

105 DP-1 = 1 5/1/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY2 = $9.15126 * [C7] * (100 - [C8]) / 84.5$

Plant and Soil Science, U of KY

Weed Science Research

CORN POSTEMERGENCE X

Trial ID: C8041 Protocol ID: 2008-01-04-03
 Location: LEXINGTON, KY Study Director: CHARLES H SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: F one-year/final
Initiation Date: 5/1/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-42
BBCH Scale: BCOR **Planting Date:** 5/1/2008
Planting Method: ROWS **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 61 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/8/2008
Harvest Date: 9/19/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 24 F
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 2 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 3 Type: W **Code:** IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 28 FT
Plot Area, Unit: 280 FT² **Tillage Type:** MINTIL minimum-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B C

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	5/1/2008	6/6/2008	6/24/2008
Time of Day:	7 PM	11 AM	11 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA CARTER
Air Temperature, Unit:	72 F	82 F	78 F
% Relative Humidity:	40	67	43
Wind Velocity, Unit:	10 MPH	8 MPH	6 MPH
Wind Direction:	SSW	S	NW
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	80	0	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	1 IN	3 IN	3 IN
Pest 2 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Height, Unit:	1 IN	3 IN	
Pest 3 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Height, Unit:	1 IN	2 IN	2 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	BACKPACK
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	30 IN	30 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

Date By Notes

GP MURPHY Plots 302 and 402 had a missing row and data for these plots was removed.

Plant and Soil Science, U of KY Weed Science Research

SOYBEAN PREEMERGENCE

Trial ID: S8014 Protocol ID: SOY PRE DOW
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Type	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR	SETFA
Pest Code	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code	GLXMA		GLXMA		GLXMA		GLXMA
BBCH Scale	BSOY		BSOY		BSOY		BSOY
Crop Scientific Name	Glycine max		Glycine max		Glycine max		Glycine max
Crop Name	Soybean		Soybean		Soybean		Soybean
Description							AFTER POST
Rating Date	5/20/2008	5/20/2008	5/20/2008	6/3/2008	6/3/2008	6/3/2008	6/16/2008
Rating Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	AT POST	AT POST	AT POST	+ 2WEEKS
Days After First/Last Applic.	13 13	13 13	13 13	27 1	27 1	27 1	40 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1	28 DP-1	41 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	22 DE-	22 DE-	22 DE-	35 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7	8
1	SONIC	3 oz/a		A	0	86	98	0	79	98	0	99
	DURANGO DMA	24 fl oz/a		B								
	AMS	3.7 % v/v		B								
2	SONIC	4.5 oz/a		A	0	96	99	0	96	99	0	99
	DURANGO DMA	24 fl oz/a		B								
	AMS	3.7 % v/v		B								
3	FIRSTRATE	0.3 oz/a		A	0	86	98	0	86	98	0	99
	DURANGO DMA	24 fl oz/a		B								
	AMS	3.7 % v/v		B								
	DURANGO DMA	24 fl oz/a		C								
	AMS	3.7 % v/v		C								
4	BOUNDARY	1.5 pt/a		A	0	99	33	0	96	27	0	99
	TOUCHDOWN TOTAL	24 fl oz/a		C								
	AMS	3.7 % v/v		C								
5	INTRRO	2 qt/a		A	0	96	47	0	96	47	0	99
	ROUNDUP POWERMAX	22 fl oz/a		C								
	AMS	3.7 % v/v		C								
6	PREFIX	2 pt/a		A	0	99	99	0	99	99	0	99
	TOUCHDOWN TOTAL	24 fl oz/a		C								
	AMS	3.7 % v/v		C								
	LSD (P=.05)				0.0	20.4	32.6	0.0	27.4	32.3	0.0	0.0
	Standard Deviation				0.0	11.2	17.9	0.0	15.0	17.8	0.0	0.0
	CV				0.0	11.96	22.72	0.0	16.34	22.85	0.0	0.0
	Bartlett's X2				0.0	7.949	15.844	0.0	13.419	15.844	0.0	0.0
	P(Bartlett's X2)				.	0.047*	0.001*	.	0.009*	0.001*	.	.
	Replicate F				0.000	1.005	0.532	0.000	1.342	0.625	0.000	0.000
	Replicate Prob(F)				1.0000	0.4001	0.6032	1.0000	0.3047	0.5548	1.0000	1.0000
	Treatment F				0.000	0.919	8.642	0.000	0.797	10.012	0.000	0.000
	Treatment Prob(F)				1.0000	0.5069	0.0021	1.0000	0.5761	0.0012	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed
Crop Code		GLXMA	
BBCH Scale		BSOY	
Crop Scientific Name		Glycine max	
Crop Name		Soybean	
Description	AFTER POST	AFTER POST	AFTER POST
Rating Date	6/16/2008	6/30/2008	6/30/2008
Rating Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	+ 2WEEKS	+ 4 WEEKS	+ 4 WEEKS
Days After First/Last Applic.	40 14	54 5	54 5
Plant-Eval Interval	41 DP-1	55 DP-1	55 DP-1
Days After Emergence	35 DE-	49 DE-	49 DE-
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	9	10	11	12
1	SONIC	3 oz/a	A		99	0	99	92
	DURANGO DMA	24 fl oz/a	B					
	AMS	3.7 % v/v	B					
2	SONIC	4.5 oz/a	A		99	0	99	93
	DURANGO DMA	24 fl oz/a	B					
	AMS	3.7 % v/v	B					
3	FIRSTRATE	0.3 oz/a	A		99	0	99	99
	DURANGO DMA	24 fl oz/a	B					
	AMS	3.7 % v/v	B					
	DURANGO DMA	24 fl oz/a	C					
	AMS	3.7 % v/v	C					
4	BOUNDARY	1.5 pt/a	A		99	0	99	91
	TOUCHDOWN TOTAL	24 fl oz/a	C					
	AMS	3.7 % v/v	C					
5	INTRRO	2 qt/a	A		99	0	99	90
	ROUNDUP POWERMAX	22 fl oz/a	C					
	AMS	3.7 % v/v	C					
6	PREFIX	2 pt/a	A		99	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	C					
	AMS	3.7 % v/v	C					
	LSD (P=.05)				0.0	0.0	0.0	9.3
	Standard Deviation				0.0	0.0	0.0	5.1
	CV				0.0	0.0	0.0	5.43
	Bartlett's X2				0.0	0.0	0.0	0.271
	P(Bartlett's X2)				.	.	.	0.965
	Replicate F				0.000	0.000	0.000	3.263
	Replicate Prob(F)				1.0000	1.0000	1.0000	0.0811
	Treatment F				0.000	0.000	0.000	1.860
	Treatment Prob(F)				1.0000	1.0000	1.0000	0.1889

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN PREEMERGENCE

Trial ID: S8014 Protocol ID: SOY PRE DOW
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

14 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

41 DP-1 = 1 5/6/2008

55 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN PREEMERGENCE

Trial ID: S8014 Protocol ID: SOY PRE DOW
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.04 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	5/7/2008	6/2/2008	6/25/2008
Time of Day:	9 AM	7 PM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	LP	REG
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA CARTER

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Air Temperature, Unit:	73 F	79 F	88 F
% Relative Humidity:	41	49	50
Wind Velocity, Unit:	8 MPH	6 MPH	4 MPH
Wind Direction:	SW	SE	SW
Soil Temperature, Unit:	63 F	72 F	75 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	50	10	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:	6 IN	12 IN	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	3 IN	5 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	8 IN	

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	BACKPACK
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:	6.66 FT	6.66 FT	6.66 FT
Boom Height, Unit:	30 IN	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE

Trial ID: S8015 Protocol ID: VAL SOYPOST
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed		W Weed		W Weed		W Weed		W Weed					
Pest Code	SETFA		AMBTR		SETFA		AMBTR		SETFA					
Pest Scientific Name	Setaria faberi		Ambrosia trifi>		Setaria faberi		Ambrosia trifi>		Setaria faberi					
Pest Name	Giant foxtail		Giant ragweed		Giant foxtail		Giant ragweed		Giant foxtail					
Crop Code	GLXMA				GLXMA				GLXMA					
BCH Scale	BSOY				BSOY				BSOY					
Crop Scientific Name	Glycine max				Glycine max				Glycine max					
Crop Name	Soybean				Soybean				Soybean					
Description					AT POST				+ POST					
Rating Date	5/20/2008		5/20/2008		5/20/2008		6/3/2008		6/3/2008		6/16/2008		6/16/2008	
Rating Type	INJURY		CONTROL		CONTROL		INJURY		CONTROL		INJURY		CONTROL	
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Number of Subsamples	1		1		1		1		1		1		1	
SE Description														
Rating Timing	2 WEEK		2 WEEK		2 WEEK		4 WEEK		4 WEEK		4 WEEK + 2 WEEKS		+ 2 WEEKS	
Days After First/Last Applic.	13 13		13 13		13 13		27 1		27 1		40 14		40 14	
Plant-Eval Interval	14 DP-1		14 DP-1		14 DP-1		28 DP-1		28 DP-1		41 DP-1		41 DP-1	
Days After Emergence	8 DE-1		8 DE-1		8 DE-1		22 DE-		22 DE-		22 DE-		35 DE-	
ARM Action Codes	P		P		P		P		P		P		P	
Number of Decimals	0		0		0		0		0		0		0	

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7	8
1	CHECK UNTREATED				0	0	0	0	0	0	0	0
2	ROUNDUP POWERMAX AMS	22 fl oz/a	B		0	0	0	0	0	0	0	99
3	VALOR SX	2.5 oz/a	A		0	99	92	0	99	88	0	99
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
4	VALOR XLT	3 oz/a	A		0	99	88	0	99	86	0	99
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
5	VALOR XLT	3.5 oz/a	A		0	99	92	0	99	92	0	99
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
6	GANGSTER FR	0.4 oz/a	A		0	99	99	0	99	99	0	99
	GANGSTER V	2 oz/a	A									
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
7	GANGSTER FR	0.5 oz/a	A		0	99	99	0	99	99	0	99
	GANGSTER V	2.5 oz/a	A									
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
8	VALOR SX	2 oz/a	A		0	99	77	0	99	80	0	99
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
9	AUTHORITY	2.75 oz/a	A		0	99	83	0	99	83	0	99
	PURSUIT	0.6 oz/a	A									
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
10	VALOR SX	0.063 lb ai/a	A		0	99	81	0	99	81	0	99
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
	LSD (P=.05)				0.0	0.0	6.4	0.0	0.0	6.9	0.0	0.0
	Standard Deviation				0.0	0.0	3.7	0.0	0.0	4.0	0.0	0.0
	CV				0.0	0.0	5.27	0.0	0.0	5.69	0.0	0.0
	Bartlett's X2				0.0	0.0	4.634	0.0	0.0	5.787	0.0	0.0
	P(Bartlett's X2)				.	.	0.462	.	.	0.327	.	.
	Replicate F				0.000	0.000	0.479	0.000	0.000	1.515	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	0.6273	1.0000	1.0000	0.2466	1.0000	1.0000
	Treatment F				0.000	0.000	311.183	0.000	0.000	265.130	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed		W Weed		W Weed		W Weed		W Weed	
Pest Code	AMBTR		SETFA		AMBTR		SETFA		AMBTR	
Pest Scientific Name	Ambrosia trifi>		Setaria faberi		Ambrosia trifi>		Setaria faberi		Ambrosia trifi>	
Pest Name	Giant ragweed		Giant foxtail		Giant ragweed		Giant foxtail		Giant ragweed	
Crop Code	GLXMA				GLXMA					
BBCH Scale	BSOY				BSOY					
Crop Scientific Name	Glycine max				Glycine max					
Crop Name	Soybean				Soybean					
Description	+ POST		+ POST		+ POST		+ POST		+ POST	
Rating Date	6/16/2008		7/3/2008		7/3/2008		8/1/2008		8/1/2008	
Rating Type	CONTROL		INJURY		CONTROL		INJURY		CONTROL	
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Number of Subsamples	1		1		1		1		1	
SE Description										
Rating Timing	+ 2 WEEKS		+ 4 WEEKS		+ 4 WEEKS		+ 8 WEEKS		+ 8 WEEKS	
Days After First/Last Applic.	40 14		57 31		57 31		86 60		86 60	
Plant-Eval Interval	41 DP-1		58 DP-1		58 DP-1		87 DP-1		87 DP-1	
Days After Emergence	35 DE-		52 DE-		52 DE-		81 DE-		81 DE-	
ARM Action Codes	P		P		P		P		P	
Number of Decimals	0		0		0		0		0	

Trt No.	Treatment Name	Rate	Unit	Appl Code	9	10	11	12	13	14	15	17
1	CHECK UNTREATED				0	0	0	0	0	0	0	3.7
2	ROUNDUP POWERMAX AMS	22 fl oz/a	B		99	0	99	83	0	99	83	17.0
3	VALOR SX	2.5 oz/a	A		99	0	99	80	0	99	80	23.2
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
4	VALOR XLT	3 oz/a	A		99	0	99	92	0	99	92	27.0
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
5	VALOR XLT	3.5 oz/a	A		99	0	99	89	0	99	89	26.6
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
6	GANGSTER FR	0.4 oz/a	A		99	0	99	93	0	99	93	22.1
	GANGSTER V	2 oz/a	A									
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
7	GANGSTER FR	0.5 oz/a	A		99	0	99	93	0	99	93	27.3
	GANGSTER V	2.5 oz/a	A									
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
8	VALOR SX	2 oz/a	A		98	0	99	82	0	99	82	26.8
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
9	AUTHORITY	2.75 oz/a	A		99	0	99	84	0	99	84	23.1
	PURSUIT	0.6 oz/a	A									
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
10	VALOR SX	0.063 lb ai/a	A		99	0	99	86	0	99	86	25.1
	ROUNDUP POWERMAX AMS	22 fl oz/a	B									
	LSD (P=.05)				1.3	0.0	0.0	5.8	0.0	0.0	5.8	2.75
	Standard Deviation				0.7	0.0	0.0	3.4	0.0	0.0	3.4	1.60
	CV				0.82	0.0	0.0	4.3	0.0	0.0	4.3	7.22
	Bartlett's X2				0.0	0.0	0.0	5.725	0.0	0.0	5.725	4.963
	P(Bartlett's X2)				.	.	.	0.572	.	.	0.572	0.762
	Replicate F				1.000	0.000	0.000	1.102	0.000	0.000	1.102	5.729
	Replicate Prob(F)				0.3874	1.0000	1.0000	0.3537	1.0000	1.0000	0.3537	0.0119
	Treatment F				5497.563	0.000	0.000	206.007	0.000	0.000	206.007	60.670
	Treatment Prob(F)				0.0001	1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE

Trial ID: S8015 Protocol ID: VAL SOYPOST
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

Plant-Eval Interval

14 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

41 DP-1 = 1 5/6/2008

58 DP-1 = 1 5/6/2008

87 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = 3.733212*16

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE

Trial ID: S8015 Protocol ID: VAL SOYPOST
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008
Harvest Date: 10/2/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 13.0

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

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.04 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	5/7/2008	6/2/2008
Time of Day:	9 AM	7 PM
Application Method:	SPRAY	SPRAY

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Application Timing:	PRE	28 DAY
Application Placement:	BROS01	BROF0L
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	73 F	79 F
% Relative Humidity:	41	49
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	SW	SE
Soil Temperature, Unit:	63 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	50	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	8	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	4	IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
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:	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

Weed Science Research

SOYBEAN POSTEMERGENCE II

Trial ID: S8016 Protocol ID: HBRM12A4-2008US CONSYN
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory		Giant foxtail	Giant ragweed
Crop Code	GLXMA					GLXMA		
BBCH Scale	BSOY					BSOY		
Crop Scientific Name	Glycine max					Glycine max		
Crop Name	Soybean					Soybean		
Rating Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	6/12/2008	6/12/2008	6/12/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1
SE Description						AT C APPL	AT C APPL	AT C APPL
Rating Timing	2 WEEK	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	14 14	36 8	36 8	36 8
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	31 DE-	31 DE-	31 DE-
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	1	2	3	4	5	6	7	8
No.	Name	Unit	Code								
1	CHECK UNTREATED			0	0	0	0	0	0	0	0
2	PREFIX	2 pt/a	A	0	99	98	99	53	0	99	99
	AMS	3.7 % v/v	C								
	TOUCHDOWN TOTAL	24 fl oz/a	C								
3	PREFIX	2 pt/a	A	0	99	99	99	79	0	99	99
	AMS	3.7 % v/v	B								
	SEQUENCE	40 fl oz/a	B								
4	BOUNDARY	1.5 pt/a	A	0	99	67	99	49	0	99	86
	AMS	3.7 % v/v	C								
	TOUCHDOWN TOTAL	24 fl oz/a	C								
5	VALOR SX	2 oz/a	A	0	99	79	99	96	0	99	93
	AMS	3.7 % v/v	C								
	TOUCHDOWN TOTAL	24 fl oz/a	C								
6	ENVIVE	3.5 oz/a	A	0	96	99	99	98	0	96	99
	AMS	3.7 % v/v	C								
	TOUCHDOWN TOTAL	24 fl oz/a	C								
7	SONIC	3 oz/a	A	0	98	98	99	95	0	98	98
	AMS	3.7 % v/v	C								
	TOUCHDOWN TOTAL	24 fl oz/a	C								
8	AMS	3.7 % v/v	B	0	99	93	96	85	0	99	93
	TOUCHDOWN TOTAL	24 fl oz/a	B								
9	AMS	3.7 % v/v	B	0	99	99	99	98	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	B								
	AMS	3.7 % v/v	D								
	TOUCHDOWN TOTAL	24 fl oz/a	D								
10	AMS	3.7 % v/v	C	0	99	99	99	96	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	C								
11	AMS	3.7 % v/v	D	0	99	99	99	88	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	D								
	LSD (P=.05)			0.0	3.0	9.7	2.7	34.4	0.0	3.0	13.0
	Standard Deviation			0.0	1.7	5.7	1.6	20.2	0.0	1.7	7.6
	CV			0.0	1.95	6.76	1.75	26.56	0.0	1.95	8.72
	Bartlett's X2			0.0	1.166	6.993	0.0	28.813	0.0	1.166	6.563
	P(Bartlett's X2)			.	0.28	0.136	.	0.001*	.	0.28	0.087
	Replicate F			0.000	0.606	0.605	1.000	0.784	0.000	0.606	2.934
	Replicate Prob(F)			1.0000	0.5551	0.5556	0.3855	0.4702	1.0000	0.5551	0.0763
	Treatment F			0.000	870.046	82.374	1083.400	6.876	0.000	870.046	44.361
	Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

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Trt No.	Treatment Name	Rate	Unit	Appl Code	9	10	11	12	13	14
1	CHECK UNTREATED				0	0	0	0	0	0
2	PREFIX	2 pt/a	A		99	53	0	0	99	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
3	PREFIX	2 pt/a	A		99	79	0	0	99	99
	AMS	3.7 % v/v	B							
	SEQUENCE	40 fl oz/a	B							
4	BOUNDARY	1.5 pt/a	A		99	49	0	0	99	86
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
5	VALOR SX	2 oz/a	A		99	96	0	0	99	93
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
6	ENVIVE	3.5 oz/a	A		99	98	0	0	99	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
7	SONIC	3 oz/a	A		99	95	0	0	99	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
8	AMS	3.7 % v/v	B		96	85	0	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	B							
9	AMS	3.7 % v/v	B		99	98	0	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	B							
	AMS	3.7 % v/v	D							
	TOUCHDOWN TOTAL	24 fl oz/a	D							
10	AMS	3.7 % v/v	C		99	96	0	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	C							
11	AMS	3.7 % v/v	D		99	88	0	0	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	D							
	LSD (P=.05)				2.7	34.4	0.0	0.0	0.0	12.3
	Standard Deviation				1.6	20.2	0.0	0.0	0.0	7.2
	CV				1.75	26.56	0.0	0.0	0.0	8.21
	Bartlett's X2				0.0	28.813	0.0	0.0	0.0	0.935
	P(Bartlett's X2)				.	0.001*	.	.	.	0.334
	Replicate F				1.000	0.784	0.000	0.000	0.000	1.940
	Replicate Prob(F)				0.3855	0.4702	1.0000	1.0000	1.0000	0.1698
	Treatment F				1083.400	6.876	0.000	0.000	0.000	49.889
	Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	1.0000	0.0001

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Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19	20
1	CHECK UNTREATED				0	0	0	0	0	0
2	PREFIX	2 pt/a	A		99	99	0	99	99	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
3	PREFIX	2 pt/a	A		99	99	0	99	99	99
	AMS	3.7 % v/v	B							
	SEQUENCE	40 fl oz/a	B							
4	BOUNDARY	1.5 pt/a	A		99	99	0	99	86	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
5	VALOR SX	2 oz/a	A		99	99	0	99	93	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
6	ENVIVE	3.5 oz/a	A		99	99	0	99	99	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
7	SONIC	3 oz/a	A		99	99	0	99	99	99
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
8	AMS	3.7 % v/v	B		99	99	0	99	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	B							
9	AMS	3.7 % v/v	B		99	99	0	99	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	B							
	AMS	3.7 % v/v	D							
	TOUCHDOWN TOTAL	24 fl oz/a	D							
10	AMS	3.7 % v/v	C		99	99	0	99	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	C							
11	AMS	3.7 % v/v	D		99	99	0	99	99	99
	TOUCHDOWN TOTAL	24 fl oz/a	D							
	LSD (P=.05)				0.0	0.0	0.0	0.0	12.3	0.0
	Standard Deviation				0.0	0.0	0.0	0.0	7.2	0.0
	CV				0.0	0.0	0.0	0.0	8.21	0.0
	Bartlett's X2				0.0	0.0	0.0	0.0	0.935	0.0
	P(Bartlett's X2)				.	.	.	.	0.334	.
	Replicate F				0.000	0.000	0.000	0.000	1.940	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	0.1698	1.0000
	Treatment F				0.000	0.000	0.000	0.000	49.889	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	0.0001	1.0000

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Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	IPOSS	SETFA	AMBTR	CHEAL	IPOSS				
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.				
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory				
Crop Code		GLXMA				GLXMA			
BBCH Scale		BSOY				BSOY			
Crop Scientific Name		Glycine max				Glycine max			
Crop Name		Soybean				Soybean			
Rating Date	7/10/2008	8/7/2008	8/7/2008	8/7/2008	8/7/2008				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU/A			
Number of Subsamples	1	1	1	1	1	1			
SE Description	AFTER D APPL					13%			
Rating Timing	4 WEEK AFT C	8 WEEK AFT C	8 WEEK AFT C	8 WEEK AFT C	8 WEEK AFT C	8 WEEK AFT C			
Days After First/Last Applic.	64 17	92 45	92 45	92 45	92 45	92 45			
Plant-Eval Interval	65 DP-1	93 DP-1	93 DP-1	93 DP-1	93 DP-1	93 DP-1			
Days After Emergence	59 DE-	87 DE-	87 DE-	87 DE-	87 DE-	87 DE-			
ARM Action Codes	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	21	22	23	24	25	26	30
1 CHECK UNTREATED			0	0	0	0	0	0	4.0
2 PREFIX	2 pt/a	A	99	0	99	99	99	99	36.8
AMS	3.7 % v/v	C							
TOUCHDOWN TOTAL	24 fl oz/a	C							
3 PREFIX	2 pt/a	A	99	0	99	99	99	99	34.4
AMS	3.7 % v/v	B							
SEQUENCE	40 fl oz/a	B							
4 BOUNDARY	1.5 pt/a	A	99	0	99	86	99	99	36.8
AMS	3.7 % v/v	C							
TOUCHDOWN TOTAL	24 fl oz/a	C							
5 VALOR SX	2 oz/a	A	99	0	99	93	99	99	35.2
AMS	3.7 % v/v	C							
TOUCHDOWN TOTAL	24 fl oz/a	C							
6 ENVIVE	3.5 oz/a	A	99	0	99	99	99	99	33.2
AMS	3.7 % v/v	C							
TOUCHDOWN TOTAL	24 fl oz/a	C							
7 SONIC	3 oz/a	A	99	0	99	99	99	99	33.8
AMS	3.7 % v/v	C							
TOUCHDOWN TOTAL	24 fl oz/a	C							
8 AMS	3.7 % v/v	B	99	0	99	99	99	99	32.2
TOUCHDOWN TOTAL	24 fl oz/a	B							
9 AMS	3.7 % v/v	B	99	0	99	99	99	99	30.7
TOUCHDOWN TOTAL	24 fl oz/a	B							
AMS	3.7 % v/v	D							
TOUCHDOWN TOTAL	24 fl oz/a	D							
10 AMS	3.7 % v/v	C	99	0	99	99	99	99	27.3
TOUCHDOWN TOTAL	24 fl oz/a	C							
11 AMS	3.7 % v/v	D	99	0	99	99	99	99	23.3
TOUCHDOWN TOTAL	24 fl oz/a	D							
LSD (P=.05)			0.0	0.0	0.0	12.3	0.0	0.0	4.69
Standard Deviation			0.0	0.0	0.0	7.2	0.0	0.0	2.75
CV			0.0	0.0	0.0	8.21	0.0	0.0	9.24
Bartlett's X2			0.0	0.0	0.0	0.935	0.0	0.0	3.617
P(Bartlett's X2)			.	.	.	0.334	.	.	0.935
Replicate F			0.000	0.000	0.000	1.940	0.000	0.000	28.908
Replicate Prob(F)			1.0000	1.0000	1.0000	0.1698	1.0000	1.0000	0.0001
Treatment F			0.000	0.000	0.000	49.889	0.000	0.000	35.380
Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001	1.0000	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE II

Trial ID: S8016 Protocol ID: HBRM12A4-2008US CONSYN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

IPOSS, Ipomoea sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 5/6/2008

37 DP-1 = 1 5/6/2008

44 DP-1 = 1 5/6/2008

51 DP-1 = 1 5/6/2008

65 DP-1 = 1 5/6/2008

93 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = 4.033333*28

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE II

Trial ID: S8016 Protocol ID: HBRM12A4-2008US CONSYN
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008
Harvest Date: 10/2/2008 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 13.0

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: Common lambsquarters

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

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.04 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Plant and Soil Science, U of KY

Weed Science Research

Application Description

	A	B	C	D
Application Date:	5/7/2008	6/4/2008	6/13/2008	6/23/2008
Time of Day:	9 AM	6 PM	10 AM	4 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2-3 TR	REG	REG B
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	73 F	81 F	84 F	80 F
% Relative Humidity:	41	58	46	40
Wind Velocity, Unit:	8 MPH	8 MPH	8 MPH	6 MPH
Wind Direction:	SW	SW	SSW	SW
Soil Temperature, Unit:	62 F	72 F	75 F	74 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	50	90	10	40

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:		2 TR	4 TR	6 TRI

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:		2 IN	3 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		4 IN	6 IN	7 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		3 IN	5 IN	6 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	2 IN	3 IN

Application Equipment

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

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN PREEMERGENCE II

Trial ID: S8017 Protocol ID: SOYPRE FMC
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	Setaria faberi
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Morning glory	Giant foxtail
Crop Code	GLXMA					GLXMA
BCH Scale	BSOY					BSOY
Crop Scientific Name	Glycine max					Glycine max
Crop Name	Soybean					Soybean
Description	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Rating Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	6/18/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
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	42 14
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	43 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	37 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	1	2	3	4	5	6	7
No.	Name	Rate Unit	Code							
1	AUTHORITY FIRST	3.2 oz/a	A	0	99	99	99	99	0	99
	ROUNDUP POWERMAX	22 fl oz/a	C							
	AMS	3.7 % v/v	C							
2	AUTHORITY MTZ	12 oz/a	A	0	99	93	98	99	0	99
	ROUNDUP POWERMAX	22 fl oz/a	C							
	AMS	3.7 % v/v	C							
3	AUTHORITY ASSIST	5 fl oz/a	A	0	99	96	98	99	0	99
	ROUNDUP POWERMAX	22 fl oz/a	C							
	AMS	3.7 % v/v	C							
4	ROUNDUP POWERMAX	22 fl oz/a	C	0	99	93	99	88	0	99
	AMS	3.7 % v/v	C							
5	CADET	0.4 fl oz/a	B	0	93	98	99	96	0	93
	ROUNDUP POWERMAX	16 fl oz/a	B							
	AMS	3.7 % v/v	B							
6	DUAL II MAGNUM	1.3 lb ai/a	A	0	99	83	96	94	0	99
	CADET	0.6 fl oz/a	B							
	COC	1 % v/v	B							
7	RESOURCE	8 fl oz/a	B	0	69	90	98	95	0	86
	COC	1 qt/a	B							
	LIQUID N	2 qt/a	B							
8	CHECK UNTREATED			0	0	0	0	0	0	0
LSD (P=.05)				0.0	17.2	9.4	2.7	4.4	0.0	14.6
Standard Deviation				0.0	9.8	5.4	1.5	2.5	0.0	8.3
CV				0.0	11.97	6.57	1.8	3.0	0.0	9.91
Bartlett's X2				0.0	1.303	5.389	0.0	1.655	0.0	0.927
P(Bartlett's X2)				.	0.254	0.37	.	0.437	.	0.336
Replicate F				0.000	1.290	0.438	1.960	0.046	0.000	2.014
Replicate Prob(F)				1.0000	0.3060	0.6539	0.1776	0.9552	1.0000	0.1703
Treatment F				0.000	37.467	116.024	1515.198	549.138	0.000	50.864
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Common lambsqu>	Morning glory		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code				GLXMA					
BBCB Scale				BSOY					
Crop Scientific Name				Glycine max					
Crop Name				Soybean					
Description									
Rating Date	6/18/2008	6/18/2008	6/18/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008		
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	42 14	42 14	42 14	70 42	70 42	70 42	70 42		
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	71 DP-1	71 DP-1	71 DP-1	71 DP-1		
Days After Emergence	37 DE-	37 DE-	37 DE-	65 DE-	65 DE-	65 DE-	65 DE-		
ARM Action Codes	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	8	9	10	11	12	13	14
1 AUTHORITY FIRST	3.2 oz/a	A	99	99	99	0	99	99	99
ROUNDUP POWERMAX	22 fl oz/a	C							
AMS	3.7 % v/v	C							
2 AUTHORITY MTZ	12 oz/a	A	99	99	99	0	99	99	99
ROUNDUP POWERMAX	22 fl oz/a	C							
AMS	3.7 % v/v	C							
3 AUTHORITY ASSIST	5 fl oz/a	A	99	99	99	0	99	99	99
ROUNDUP POWERMAX	22 fl oz/a	C							
AMS	3.7 % v/v	C							
4 ROUNDUP POWERMAX	22 fl oz/a	C	99	99	99	0	99	99	99
AMS	3.7 % v/v	C							
5 CADET	0.4 fl oz/a	B	99	99	99	0	93	99	99
ROUNDUP POWERMAX	16 fl oz/a	B							
AMS	3.7 % v/v	B							
6 DUAL II MAGNUM	1.3 lb ai/a	A	67	96	96	0	99	67	96
CADET	0.6 fl oz/a	B							
COC	1 % v/v	B							
7 RESOURCE	8 fl oz/a	B	83	99	95	0	86	83	99
COC	1 qt/a	B							
LIQUID N	2 qt/a	B							
8 CHECK UNTREATED			0	0	0	0	0	0	0
LSD (P=.05)			4.9	1.4	1.4	0.0	14.6	4.9	1.4
Standard Deviation			2.8	0.8	0.8	0.0	8.3	2.8	0.8
CV			3.45	0.95	0.95	0.0	9.91	3.45	0.95
Bartlett's X2			1.603	0.0	0.0	0.0	0.927	1.603	0.0
P(Bartlett's X2)			0.205	.	.	.	0.336	0.205	.
Replicate F			1.615	1.000	1.000	0.000	2.014	1.615	1.000
Replicate Prob(F)			0.2338	0.3927	0.3927	1.0000	0.1703	0.2338	0.3927
Treatment F			464.719	5474.634	5418.277	0.000	50.864	464.719	5474.634
Treatment Prob(F)			0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed
Pest Code	IPOSS
Pest Scientific Name	Ipomoea sp.
Pest Name	Morning glory
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Description	
Rating Date	7/16/2008
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	8 WEEK
Days After First/Last Applic.	70 42
Plant-Eval Interval	71 DP-1
Days After Emergence	65 DE-
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	
					15

1	AUTHORITY FIRST	3.2 oz/a	A	99
	ROUNDUP POWERMAX	22 fl oz/a	C	
	AMS	3.7 % v/v	C	
2	AUTHORITY MTZ	12 oz/a	A	99
	ROUNDUP POWERMAX	22 fl oz/a	C	
	AMS	3.7 % v/v	C	
3	AUTHORITY ASSIST	5 fl oz/a	A	99
	ROUNDUP POWERMAX	22 fl oz/a	C	
	AMS	3.7 % v/v	C	
4	ROUNDUP POWERMAX	22 fl oz/a	C	99
	AMS	3.7 % v/v	C	
5	CADET	0.4 fl oz/a	B	99
	ROUNDUP POWERMAX	16 fl oz/a	B	
	AMS	3.7 % v/v	B	
6	DUAL II MAGNUM	1.3 lb ai/a	A	96
	CADET	0.6 fl oz/a	B	
	COC	1 % v/v	B	
7	RESOURCE	8 fl oz/a	B	95
	COC	1 qt/a	B	
	LIQUID N	2 qt/a	B	
8	CHECK UNTREATED			0
LSD (P=.05)				1.4
Standard Deviation				0.8
CV				0.95
Bartlett's X2				0.0
P(Bartlett's X2)				.
Replicate F				1.000
Replicate Prob(F)				0.3927
Treatment F				5418.277
Treatment Prob(F)				0.0001

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN PREEMERGENCE II

Trial ID: S8017 Protocol ID: SOYPRE FMC
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

CHEAL, *Chenopodium album*, = US

IPOSS, *Ipomoea sp.*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 5/6/2008

43 DP-1 = 1 5/6/2008

71 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN PREEMERGENCE II

Trial ID: S8017 Protocol ID: SOYPRE FMC
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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: Common lambsquarters

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

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.04 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

Plant and Soil Science, U of KY

Weed Science Research

	A	B	C
Application Date:	5/7/2008	5/30/2008	6/4/2008
Time of Day:	9 AM	9 AM	6 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	73 F	70 F	81 F
% Relative Humidity:	41	78	58
Wind Velocity, Unit:	8 MPH	6 MPH	8 MPH
Wind Direction:	SW	SSW	SW
Soil Temperature, Unit:	62 F	68 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	50	50	90

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		UNI	2 TR
Height, Unit:		2 IN	4 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		1 IN	2 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		4 IN	5 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		3 IN	4 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	1.5 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:	6.66 FT	6.66 FT	6.66 FT
Boom Height, Unit:	30 IN	30 IN	30 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

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETFA	CHEAL	SETFA	CHEAL	CHEAL
Pest Scientific Name	Setaria faberi	Setaria faberi	Chenopodium al>	Setaria faberi	Chenopodium al>	Chenopodium al>
Pest Name	Giant foxtail	Giant foxtail	Common lambsqu>	Giant foxtail	Common lambsqu>	Common lambsqu>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	5/6/2008	5/20/2008	5/20/2008	5/20/2008	6/3/2008	6/3/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT PLANTING	+ 2 WEEK	+ 2 WEEK	+ 2 WEEK	+ 4 WEEK	+ 4 WEEK
Days After First/Last Applic.	41 41	55 55	55 55	55 55	69 69	69 69
Trt-Eval Interval	41 DA-A	55 DA-A	55 DA-A	55 DA-A	69 DA-A	69 DA-A
Plant-Eval Interval	0 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1
Days After Emergence	-6 DE-	8 DE-1	8 DE-1	8 DE-1	22 DE-	22 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Appl	7	8	9	10	11	12	13
No. Name	Unit	Code							
1 ROUNDUP WeatherMAX	0.78 lb ai/a	A	0	0	0	0	0	0	0
2 KIH 485	0.148 lb ai/a	A	99	0	99	99	0	93	93
ROUNDUP WeatherMAX	0.78 lb ai/a	A							
3 KIH 485	0.186 lb ai/a	A	99	0	99	99	0	93	92
ROUNDUP WeatherMAX	0.78 lb ai/a	A							
4 KIH 485	0.22 lb ai/a	A	99	0	99	99	0	99	93
ROUNDUP WeatherMAX	0.78 lb ai/a	A							
5 KIH 485	0.373 lb ai/a	A	99	0	99	99	0	99	99
ROUNDUP WeatherMAX	0.78 lb ai/a	A							
6 DUAL II MAGNUM	1.59 lb ai/a	A	99	0	99	90	0	99	90
ROUNDUP WeatherMAX	0.78 lb ai/a	A							
7 OUTLOOK	0.84 lb ai/a	A	99	0	99	99	0	99	83
ROUNDUP WeatherMAX	0.78 lb ai/a	A							
LSD (P=.05)			0.0	0.0	0.0	0.0	0.0	2.9	4.1
Standard Deviation			0.0	0.0	0.0	0.0	0.0	1.6	2.3
CV			0.0	0.0	0.0	0.0	0.0	1.93	2.94
Bartlett's X2			0.0	0.0	0.0	0.0	0.0	0.0	0.627
P(Bartlett's X2)			.	.	.	.	.	.	0.89
Replicate F			0.000	0.000	0.000	0.000	0.000	0.462	4.188
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.6410	0.0417
Treatment F			0.000	0.000	0.000	0.000	0.000	1575.225	686.830
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type		W Weed	W Weed
Pest Code		SETFA	CHEAL
Pest Scientific Name		Setaria faberi	Chenopodium al>
Pest Name		Giant foxtail	Common lambsqu>
Crop Code	GLXMA		
BBCH Scale	BSOY		
Crop Scientific Name	Glycine max		
Crop Name	Soybean		
Rating Date	7/3/2008	7/3/2008	7/3/2008
Rating Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	+ 8 WEEK	+ 8 WEEK	+ 8 WEEK
Days After First/Last Applic.	99 99	99 99	99 99
Trt-Eval Interval	69 DA-A	99 DA-A	99 DA-A
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	52 DE-	52 DE-	52 DE-
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	14	15	16
1	ROUNDUP WeatherMAX	0.78	lb ai/a	A	0	0	0
2	KIH 485	0.148	lb ai/a	A	0	87	84
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
3	KIH 485	0.186	lb ai/a	A	0	89	85
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
4	KIH 485	0.22	lb ai/a	A	0	96	87
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
5	KIH 485	0.373	lb ai/a	A	0	99	96
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
6	DUAL II MAGNUM	1.59	lb ai/a	A	0	95	79
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
7	OUTLOOK	0.84	lb ai/a	A	0	67	63
	ROUNDUP WeatherMAX	0.78	lb ai/a	A			
LSD (P=.05)					0.0	5.7	8.3
Standard Deviation					0.0	3.2	4.6
CV					0.0	4.2	6.57
Bartlett's X2					0.0	4.884	2.806
P(Bartlett's X2)					.	0.18	0.591
Replicate F					0.000	1.196	3.727
Replicate Prob(F)					1.0000	0.3359	0.0551
Treatment F					0.000	365.084	148.729
Treatment Prob(F)					1.0000	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S8018 Protocol ID: KIHSOYEPP
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US

LAMAM, Lamium amplexicaule, = US

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

-27 DP-1 = 1 5/6/2008

-13 DP-1 = 1 5/6/2008

0 DP-1 = 1 5/6/2008

14 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

58 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S8018 Protocol ID: KIHSOYEPP
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 3/26/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 4 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

Plant and Soil Science, U of KY

Weed Science Research

A

Application Date: 3/26/2008
Time of Day: 4:30 PM
Application Method: SPRAY
Application Timing: 45 DBP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 64 F
% Relative Humidity: 47
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 48 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, Type, Scale: STEME W
Height, Unit: 2 IN
Pest 2 Code, Type, Scale: LAMAM W
Height, Unit: 2 IN
Pest 3 Code, Type, Scale: SETFA W
Pest 4 Code, Type, 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

Trial ID: S8020 Protocol ID: NO TILL SOY
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Scientific Name	Glycine max			Glycine max	
Crop Name	Soybean			Soybean	
Rating Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	6/3/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
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	27 27
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	28 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	22 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	KIXOR	1 fl oz/a	A		0	99	90	95	0	99	90
	ROUNDUP ORIGINAL	32 fl oz/a	A								
	AGRIDEX	1 % v/v	A								
	AMS	3.7 % v/v	A								
	ROUNDUP ORIGINAL	32 fl oz/a	B								
	AGRIDEX	1 % v/v	B								
	AMS	3.7 % v/v	B								
3	BAS 804	2 oz/a	A		0	98	93	95	0	98	93
	ROUNDUP ORIGINAL	32 fl oz/a	A								
	AGRIDEX	1 % v/v	A								
	AMS	3.7 % v/v	A								
	ROUNDUP ORIGINAL	32 fl oz/a	B								
	AGRIDEX	1 % v/v	B								
	AMS	3.7 % v/v	B								
4	KIXOR	1 fl oz/a	A		0	99	98	98	0	99	98
	SCEPTER	2.8 oz wt/a	A								
	ROUNDUP ORIGINAL	32 fl oz/a	A								
	AGRIDEX	1 % v/v	A								
	AMS	3.7 % v/v	A								
	ROUNDUP ORIGINAL	32 fl oz/a	B								
	AGRIDEX	1 % v/v	B								
	AMS	3.7 % v/v	B								
5	AUTHORITY ASSIST	5 fl oz/a	A		0	98	86	95	0	98	86
	ROUNDUP ORIGINAL	32 fl oz/a	A								
	AGRIDEX	1 % v/v	A								
	AMS	3.7 % v/v	A								
	ROUNDUP ORIGINAL	32 fl oz/a	B								
	AGRIDEX	1 % v/v	B								
	AMS	3.7 % v/v	B								
	LSD (P=.05)				0.0	2.4	7.3	1.9	0.0	2.4	7.3
	Standard Deviation				0.0	1.3	3.9	1.0	0.0	1.3	3.9
	CV				0.0	1.61	5.32	1.35	0.0	1.61	5.32
	Bartlett's X2				0.0	0.0	1.104	0.0	0.0	0.0	1.104
	P(Bartlett's X2)				.	.	0.776	.	.	.	0.776
	Replicate F				0.000	2.667	0.333	1.000	0.000	2.667	0.333
	Replicate Prob(F)				1.0000	0.1296	0.7265	0.4096	1.0000	0.1296	0.7265
	Treatment F				0.000	3626.875	334.453	5151.813	0.000	3626.875	334.453
	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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL	SETFA	SETFA
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Setaria faberi
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail	Giant foxtail
Crop Code		GLXMA			GLXMA	GLXMA
BBCH Scale		BSOY			BSOY	BSOY
Crop Scientific Name		Glycine max			Glycine max	Glycine max
Crop Name		Soybean			Soybean	Soybean
Rating Date	6/3/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	7/7/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	+ 3 WEEK
Days After First/Last Applic.	27 27	42 42	42 42	42 42	42 42	61 19
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	28 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	62 DP-1
Days After Emergence	22 DE-	37 DE-	37 DE-	37 DE-	37 DE-	56 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl	Code	8	9	10	11	12	13	14
1	CHECK UNTREATED					0	0	0	0	0	0	0
2	KIXOR	1 fl oz/a	A			95	0	95	83	95	0	99
	ROUNDUP ORIGINAL	32 fl oz/a	A									
	AGRIDEX	1 % v/v	A									
	AMS	3.7 % v/v	A									
	ROUNDUP ORIGINAL	32 fl oz/a	B									
	AGRIDEX	1 % v/v	B									
	AMS	3.7 % v/v	B									
3	BAS 804	2 oz/a	A			95	0	98	77	95	0	99
	ROUNDUP ORIGINAL	32 fl oz/a	A									
	AGRIDEX	1 % v/v	A									
	AMS	3.7 % v/v	A									
	ROUNDUP ORIGINAL	32 fl oz/a	B									
	AGRIDEX	1 % v/v	B									
	AMS	3.7 % v/v	B									
4	KIXOR	1 fl oz/a	A			98	0	96	93	98	0	99
	SCEPTER	2.8 oz wt/a	A									
	ROUNDUP ORIGINAL	32 fl oz/a	A									
	AGRIDEX	1 % v/v	A									
	AMS	3.7 % v/v	A									
	ROUNDUP ORIGINAL	32 fl oz/a	B									
	AGRIDEX	1 % v/v	B									
	AMS	3.7 % v/v	B									
5	AUTHORITY ASSIST	5 fl oz/a	A			95	0	98	70	95	0	99
	ROUNDUP ORIGINAL	32 fl oz/a	A									
	AGRIDEX	1 % v/v	A									
	AMS	3.7 % v/v	A									
	ROUNDUP ORIGINAL	32 fl oz/a	B									
	AGRIDEX	1 % v/v	B									
	AMS	3.7 % v/v	B									
LSD (P=.05)						1.9	0.0	7.3	13.6	1.9	0.0	0.0
Standard Deviation						1.0	0.0	3.9	7.2	1.0	0.0	0.0
CV						1.35	0.0	5.01	11.2	1.35	0.0	0.0
Bartlett's X2						0.0	0.0	2.739	1.777	0.0	0.0	0.0
P(Bartlett's X2)						.	.	0.434	0.62	.	.	.
Replicate F						1.000	0.000	1.206	0.926	1.000	0.000	0.000
Replicate Prob(F)						0.4096	1.0000	0.3486	0.4346	0.4096	1.0000	1.0000
Treatment F						5151.813	0.000	374.405	78.898	5151.813	0.000	0.000
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed
Pest Code	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant ragweed	Common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7/7/2008	7/7/2008
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Number of Subsamples	1	1
Rating Timing	+ 3 WEEK	+ 3 WEEK
Days After First/Last Applic.	61 19	61 19
Trt-Eval Interval		
Plant-Eval Interval	62 DP-1	62 DP-1
Days After Emergence	56 DE-	56 DE-
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16
1	CHECK UNTREATED				0	0
2	KIXOR	1 fl oz/a	A		99	99
	ROUNDUP ORIGINAL	32 fl oz/a	A			
	AGRIDEX	1 % v/v	A			
	AMS	3.7 % v/v	A			
	ROUNDUP ORIGINAL	32 fl oz/a	B			
	AGRIDEX	1 % v/v	B			
	AMS	3.7 % v/v	B			
3	BAS 804	2 oz/a	A		99	99
	ROUNDUP ORIGINAL	32 fl oz/a	A			
	AGRIDEX	1 % v/v	A			
	AMS	3.7 % v/v	A			
	ROUNDUP ORIGINAL	32 fl oz/a	B			
	AGRIDEX	1 % v/v	B			
	AMS	3.7 % v/v	B			
4	KIXOR	1 fl oz/a	A		99	99
	SCEPTER	2.8 oz wt/a	A			
	ROUNDUP ORIGINAL	32 fl oz/a	A			
	AGRIDEX	1 % v/v	A			
	AMS	3.7 % v/v	A			
	ROUNDUP ORIGINAL	32 fl oz/a	B			
	AGRIDEX	1 % v/v	B			
	AMS	3.7 % v/v	B			
5	AUTHORITY ASSIST	5 fl oz/a	A		99	99
	ROUNDUP ORIGINAL	32 fl oz/a	A			
	AGRIDEX	1 % v/v	A			
	AMS	3.7 % v/v	A			
	ROUNDUP ORIGINAL	32 fl oz/a	B			
	AGRIDEX	1 % v/v	B			
	AMS	3.7 % v/v	B			
	LSD (P=.05)				0.0	0.0
	Standard Deviation				0.0	0.0
	CV				0.0	0.0
	Bartlett's X2				0.0	0.0
	P(Bartlett's X2)				.	.
	Replicate F				0.000	0.000
	Replicate Prob(F)				1.0000	1.0000
	Treatment F				0.000	0.000
	Treatment Prob(F)				1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN

Trial ID: S8020 Protocol ID: NO TILL SOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

43 DP-1 = 1 5/6/2008

62 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN

Trial ID: S8020 Protocol ID: NO TILL SOY
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: SMOOTH smooth **Soil Temperature, Unit:** 58 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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: Common lambsquarters

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	5/7/2008	6/18/2008
Time of Day:	1 PM	1 PM
Application Method:	SPRAY	SPRAY

Plant and Soil Science, U of KY

Weed Science Research

Application Timing:	PRE	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	75 F
% Relative Humidity:	48	36
Wind Velocity, Unit:	8 MPH	8 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	61 F	71 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	50	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		4 TR

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		6 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		4 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:	8.33 FT	8.33 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 Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S8021 Protocol ID: USA-08-121
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

	W Weed	W Weed	W Weed	W Weed	
Pest Type	STEME	LAMAM	STEME	LAMAM	
Pest Code	STEME	LAMAM	STEME	LAMAM	
Pest Scientific Name	Stellaria media	Lamium amplexi>	Stellaria media	Lamium amplexi>	
Pest Name	Common chickwe>	Henbit	Common chickwe>	Henbit	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	4/22/2008	4/22/2008	5/6/2008	5/6/2008	5/20/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
SE Description	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	28 28	28 28	42 42
Trt-Eval Interval	14 DA-A	14 DA-A	28 DA-A	28 DA-A	56 DA-A
Plant-Eval Interval	-14 DP-1	-14 DP-1	0 DP-1	0 DP-1	14 DP-1
Days After Emergence	-20 DE	-20 DE	-6 DE-	-6 DE-	8 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Appl						
No.	Name	Rate	Unit	Code	1	2	3	4	5
1	ENVIVE	3.5	oz/a	A	99	99	99	99	0
	ROUNDUP POWERMAX	22	fl oz/a	A					
	INDUCE	0.25	% v/v	A					
	WEEDONE LV4	2	pt/a	A					
	CLASSIC	0.375	oz/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
2	CANOPY EX	2	oz/a	A	99	99	99	99	0
	ROUNDUP POWERMAX	22	oz/a	A					
	INDUCE	0.25	% v/v	A					
	WEEDONE LV4	2	pt/a	A					
	CLASSIC	0.375	oz/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
3	CANOPY	4	oz/a	A	99	99	99	99	0
	ROUNDUP POWERMAX	22	oz/a	A					
	INDUCE	0.25	% v/v	A					
	WEEDONE LV4	2	pt/a	A					
	CLASSIC	0.375	oz/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
4	AUTHORITY FIRST	3.2	oz/a	A	99	99	99	99	0
	ROUNDUP POWERMAX	22	oz/a	A					
	ROUNDUP POWERMAX	22	oz/a	B					
	AMS	3.7	% v/v	B					
5	CHECK UNTREATED				0	0	0	0	0
	LSD (P=.05)				0.0	0.0	0.0	0.0	0.0
	Standard Deviation				0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0
	Bartlett's X2				0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.	.	.
	Replicate F				0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Trt No.	Treatment Name	Rate	Unit	Appl Code	6	7	8	9	10
	1 ENVIVE	3.5	oz/a	A	98	88	98	0	98
	ROUNDUP POWERMAX	22	fl oz/a	A					
	INDUCE	0.25	% v/v	A					
	WEEDONE LV4	2	pt/a	A					
	CLASSIC	0.375	oz/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	2 CANOPY EX	2	oz/a	A	96	95	98	0	96
	ROUNDUP POWERMAX	22	oz/a	A					
	INDUCE	0.25	% v/v	A					
	WEEDONE LV4	2	pt/a	A					
	CLASSIC	0.375	oz/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	3 CANOPY	4	oz/a	A	96	89	96	0	96
	ROUNDUP POWERMAX	22	oz/a	A					
	INDUCE	0.25	% v/v	A					
	WEEDONE LV4	2	pt/a	A					
	CLASSIC	0.375	oz/a	B					
	ROUNDUP POWERMAX	22	oz/a	B					
	4 AUTHORITY FIRST	3.2	oz/a	A	96	77	87	0	96
	ROUNDUP POWERMAX	22	oz/a	A					
	ROUNDUP POWERMAX	22	oz/a	B					
	AMS	3.7	% v/v	B					
	5 CHECK UNTREATED				0	0	0	0	0
	LSD (P=.05)				3.9	16.0	13.4	0.0	3.9
	Standard Deviation				2.1	8.5	7.1	0.0	2.1
	CV				2.67	12.17	9.39	0.0	2.67
	Bartlett's X2				0.0	3.195	10.216	0.0	0.0
	P(Bartlett's X2)				.	0.362	0.017*	.	.
	Replicate F				1.000	1.447	0.445	0.000	1.000
	Replicate Prob(F)				0.4096	0.2907	0.6557	1.0000	0.4096
	Treatment F				1314.297	65.063	107.619	0.000	1314.297
	Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Scientific Name			Glycine max	
Crop Name			Soybean	
Rating Date	6/3/2008	6/3/2008	6/18/2008	6/18/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
SE Description	AFTER PLANITNG	AFTER PLANITNG	+2 WK AFT POST	+2 WK AFT POST
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	56 56	56 56	71 14	71 14
Trt-Eval Interval	56 DA-A	56 DA-A	14 DA-B	14 DA-B
Plant-Eval Interval	28 DP-1	28 DP-1	43 DP-1	43 DP-1
Days After Emergence	22 DE-	22 DE-	37 DE-	37 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Unit	Appl Code	11	12	13	14	15
1 ENVIVE	3.5	oz/a	A	88	98	0	99	99
ROUNDUP POWERMAX	22	fl oz/a	A					
INDUCE	0.25	% v/v	A					
WEEDONE LV4	2	pt/a	A					
CLASSIC	0.375	oz/a	B					
ROUNDUP POWERMAX	22	oz/a	B					
2 CANOPY EX	2	oz/a	A	95	98	0	99	99
ROUNDUP POWERMAX	22	oz/a	A					
INDUCE	0.25	% v/v	A					
WEEDONE LV4	2	pt/a	A					
CLASSIC	0.375	oz/a	B					
ROUNDUP POWERMAX	22	oz/a	B					
3 CANOPY	4	oz/a	A	89	96	0	99	99
ROUNDUP POWERMAX	22	oz/a	A					
INDUCE	0.25	% v/v	A					
WEEDONE LV4	2	pt/a	A					
CLASSIC	0.375	oz/a	B					
ROUNDUP POWERMAX	22	oz/a	B					
4 AUTHORITY FIRST	3.2	oz/a	A	77	87	0	99	99
ROUNDUP POWERMAX	22	oz/a	A					
ROUNDUP POWERMAX	22	oz/a	B					
AMS	3.7	% v/v	B					
5 CHECK UNTREATED				0	0	0	0	0
LSD (P=.05)				16.0	13.4	0.0	0.0	0.0
Standard Deviation				8.5	7.1	0.0	0.0	0.0
CV				12.17	9.39	0.0	0.0	0.0
Bartlett's X2				3.195	10.216	0.0	0.0	0.0
P(Bartlett's X2)				0.362	0.017*	.	.	.
Replicate F				1.447	0.445	0.000	0.000	0.000
Replicate Prob(F)				0.2907	0.6557	1.0000	1.0000	1.0000
Treatment F				65.063	107.619	0.000	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type W Weed
 Pest Code CHEAL
 Pest Scientific Name Chenopodium al>
 Pest Name Common lambsqu>
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 6/18/2008
 Rating Type CONTROL
 Rating Unit PERCENT
 Number of Subsamples 1
 SE Description +2 WK AFT POST
 Rating Timing 8 WEEK
 Days After First/Last Applic. 71 14
 Trt-Eval Interval 14 DA-B
 Plant-Eval Interval 43 DP-1
 Days After Emergence 37 DE-
 ARM Action Codes P
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					16
1	ENVIVE	3.5	oz/a	A	99
	ROUNDUP POWERMAX	22	fl oz/a	A	
	INDUCE	0.25	% v/v	A	
	WEEDONE LV4	2	pt/a	A	
	CLASSIC	0.375	oz/a	B	
	ROUNDUP POWERMAX	22	oz/a	B	
2	CANOPY EX	2	oz/a	A	99
	ROUNDUP POWERMAX	22	oz/a	A	
	INDUCE	0.25	% v/v	A	
	WEEDONE LV4	2	pt/a	A	
	CLASSIC	0.375	oz/a	B	
	ROUNDUP POWERMAX	22	oz/a	B	
3	CANOPY	4	oz/a	A	99
	ROUNDUP POWERMAX	22	oz/a	A	
	INDUCE	0.25	% v/v	A	
	WEEDONE LV4	2	pt/a	A	
	CLASSIC	0.375	oz/a	B	
	ROUNDUP POWERMAX	22	oz/a	B	
4	AUTHORITY FIRST	3.2	oz/a	A	99
	ROUNDUP POWERMAX	22	oz/a	A	
	ROUNDUP POWERMAX	22	oz/a	B	
	AMS	3.7	% v/v	B	
5	CHECK UNTREATED				0
	LSD (P=.05)				0.0
	Standard Deviation				0.0
	CV				0.0
	Bartlett's X2				0.0
	P(Bartlett's X2)				.
	Replicate F				0.000
	Replicate Prob(F)				1.0000
	Treatment F				0.000
	Treatment Prob(F)				1.0000

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S8021 Protocol ID: USA-08-121
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

-14 DP-1 = 1 5/6/2008
0 DP-1 = 1 5/6/2008
14 DP-1 = 1 5/6/2008
28 DP-1 = 1 5/6/2008
43 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S8021 Protocol ID: USA-08-121
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/8/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL

Plant and Soil Science, U of KY

Weed Science Research

Closest Weather Station: SPINDLETOP

Distance, Unit: 1.5 MI

Application Description

	A	B
Application Date:	4/8/2008	6/4/2008
Time of Day:	11 AM	6 PM
Application Method:	SPRAY	SPRAY
Application Timing:	30 DBP	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	81 F
% Relative Humidity:	30	58
Wind Velocity, Unit:	4 MPH	8 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	55 F	70 F
Soil Moisture:	EXCESSIVE	ADEQUATE
% Cloud Cover:	20	90

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		2 TR
Height, Unit:		4 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Height, Unit:	4 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W
Height, Unit:	4 IN	
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		3 IN
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		5 IN
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		4 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:	8.33 FT	8.33 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 Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S8022 Protocol ID: 2008-01-30-04
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMAM	LAMAM	AMBTR	AMBTR				
Pest Scientific Name	Lamium amplexi>	Lamium amplexi>	Ambrosia trifi>	Ambrosia trifi>				
Pest Name	Henbit	Henbit	Giant ragweed	Giant ragweed				
Crop Code					GLXMA	GLXMA	GLXMA	
BBCH Scale					BSOY	BSOY	BSOY	
Crop Scientific Name					Glycine max	Glycine max	Glycine max	
Crop Name					Soybean	Soybean	Soybean	
Rating Date	5/16/2008	5/16/2008	5/16/2008	5/16/2008	5/30/2008	5/30/2008	5/30/2008	
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS	GR	NECROSIS	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples	1	1	1	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
Days After First/Last Applic.	11 11	11 11	11 11	11 11	25 25	25 25	25 25	25 25
Trt-Eval Interval	11 DA-A	11 DA-A	11 DA-A	11 DA-A	25 DA-A	25 DA-A	25 DA-A	25 DA-A
Plant-Eval Interval	4 DP-1	4 DP-1	4 DP-1	4 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Days After Emergence	-4 DE-	-4 DE-	-4 DE-	-4 DE-	10 DE-	10 DE-	10 DE-	10 DE-
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	94	94	95	87	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
2	GRAMOXONE INTEON	0.75	lb ai/a	A	96	96	91	87	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
3	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	88	88	92	90	0	0	3
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	FIRSTRATE	0.016	lb ai/a	A							
4	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	98	98	98	98	2	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	VALOR SX	0.064	lb ai/a	A							
5	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	94	94	94	94	2	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	VALOR SX	0.096	lb ai/a	A							
6	EXTREME	0.82	lb ai/a	A	93	93	90	92	0	0	3
	ACTIVATOR 90	0.125	% v/v	A							
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
7	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	90	90	88	92	0	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	INTRRO	2	lb ai/a	A							
8	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	99	99	99	90	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	INTRRO	1.5	lb ai/a	A							
	VALOR SX	0.064	lb ai/a	A							
9	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	90	90	92	92	3	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	PROWL H20	0.95	lb ai/a	A							
10	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95	95	86	87	2	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	CANOPY EX	0.324	oz ai/a	A							
11	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	93	93	96	96	2	0	3
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	SYNCHRONY XP	0.284	oz ai/a	A							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	AMBTR	AMACH	IPOHE		AMBTR	AMACH
Pest Scientific Name	Ambrosia trifi>	Amaranthus hyb>	Ipomoea hедера>		Ambrosia trifi>	Amaranthus hyb>
Pest Name	Giant ragweed	Smooth pigweed	lyleaf mornin>		Giant ragweed	Smooth pigweed
Crop Code				GLXMA		
BBCH Scale				BSOY		
Crop Scientific Name				Glycine max		
Crop Name				Soybean		
Rating Date	6/6/2008	6/6/2008	6/6/2008	6/6/2008	6/26/2008	6/26/2008
Rating Type	CONTROL	CONTROL	CONTROL	GR	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
Days After First/Last Applic.	32 32	32 32	32 32	32 32	52 52	52 52
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	52 DA-A	52 DA-A
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	45 DP-1	45 DP-1
Days After Emergence	17 DE-	17 DE-	17 DE-	17 DE-	37 DE-	37 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13
1	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	72	72	73	0	47	30
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
2	GRAMOXONE INTEON	0.75 lb	ai/a	A	77	60	60	0	20	17
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
3	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	96	98	93	2	75	73
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	FIRSTRATE	0.016 lb	ai/a	A						
4	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	83	95	93	0	52	53
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	VALOR SX	0.064 lb	ai/a	A						
5	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	88	95	95	0	69	75
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	VALOR SX	0.096 lb	ai/a	A						
6	EXTREME	0.82 lb	ai/a	A	95	98	98	0	76	78
	ACTIVATOR 90	0.125 %	v/v	A						
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
7	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	77	75	77	2	57	27
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	INTRRO	2 lb	ai/a	A						
8	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	88	88	92	2	65	77
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	INTRRO	1.5 lb	ai/a	A						
	VALOR SX	0.064 lb	ai/a	A						
9	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	73	92	90	0	47	67
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	PROWL H20	0.95 lb	ai/a	A						
10	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	99	99	99	5	92	85
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	CANOPY EX	0.324 oz	ai/a	A						
11	ROUNDUP ORIGINAL MAX	0.75 lb	ae/a	A	99	99	99	3	93	90
	AMS	3.7 %	v/v	A						
	WEEDONE LV4	0.5 lb	ai/a	A						
	SYNCHRONY XP	0.284 oz	ai/a	A						

Plant and Soil Science, U of KY Weed Science Research

Pest Type W Weed
 Pest Code CHEAL
 Pest Scientific Name Chenopodium al>
 Pest Name Common lambsqu>
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 6/26/2008
 Rating Type CONTROL
 Rating Unit PERCENT
 Number of Subsamples 1
 Assessed By GPMURPHY
 Days After First/Last Applic. 52 52
 Trt-Eval Interval 52 DA-A
 Plant-Eval Interval 45 DP-1
 Days After Emergence 37 DE-
 ARM Action Codes P
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					14
1	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
2	GRAMOXONE INTEON	0.75	lb ai/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
3	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	FIRSTRATE	0.016	lb ai/a	A	
4	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	VALOR SX	0.064	lb ai/a	A	
5	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	VALOR SX	0.096	lb ai/a	A	
6	EXTREME	0.82	lb ai/a	A	95
	ACTIVATOR 90	0.125	% v/v	A	
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
7	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	INTRRO	2	lb ai/a	A	
8	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	INTRRO	1.5	lb ai/a	A	
	VALOR SX	0.064	lb ai/a	A	
9	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	PROWL H20	0.95	lb ai/a	A	
10	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	CANOPY EX	0.324	oz ai/a	A	
11	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	SYNCHRONY XP	0.284	oz ai/a	A	

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMAM	LAMAM	AMBTR	AMBTR				
Pest Scientific Name	Lamium amplexi>	Lamium amplexi>	Ambrosia trifi>	Ambrosia trifi>				
Pest Name	Henbit	Henbit	Giant ragweed	Giant ragweed				
Crop Code					GLXMA	GLXMA	GLXMA	
BBCH Scale					BSOY	BSOY	BSOY	
Crop Scientific Name					Glycine max	Glycine max	Glycine max	
Crop Name					Soybean	Soybean	Soybean	
Rating Date	5/16/2008	5/16/2008	5/16/2008	5/16/2008	5/30/2008	5/30/2008	5/30/2008	
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS	GR	NECROSIS	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples	1	1	1	1	1	1	1	
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	
Days After First/Last Applic.	11 11	11 11	11 11	11 11	25 25	25 25	25 25	
Trt-Eval Interval	11 DA-A	11 DA-A	11 DA-A	11 DA-A	25 DA-A	25 DA-A	25 DA-A	
Plant-Eval Interval	4 DP-1	4 DP-1	4 DP-1	4 DP-1	18 DP-1	18 DP-1	18 DP-1	
Days After Emergence	-4 DE-	-4 DE-	-4 DE-	-4 DE-	10 DE-	10 DE-	10 DE-	
ARM Action Codes	P	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	0	

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
12	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	96	96	91	87	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	AUTHORITY FIRST	0.141	lb ai/a	A							
13	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	83	83	86	90	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	SENCOR	0.25	lb ai/a	A							
14	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	91	91	91	88	0	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	AUTHORITY MTZ	0.31	lb ai/a	A							
15	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	96	96	96	93	0	0	3
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	VALOR XLT	0.075	lb ai/a	A							
16	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	90	90	86	91	0	0	10
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	CLARITY	0.5	lb ai/a	A							
17	GRAMOXONE INTEON	0.75	lb ae/a	A	99	99	98	80	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	SENCOR	0.25	lb ai/a	A							
18	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	99	99	98	93	0	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	GANSTER COPAK	0.085	lb ai/a	A							
19	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	99	99	93	95	0	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	VALOR SX	0.064	lb ai/a	A							
	CLASSIC	0.32	oz ai/a	A							
	HARMONY GT XP	0.104	oz ai/a	A							
20	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	98	98	98	96	0	0	0
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	VALOR SX	0.064	lb ai/a	A							
	CLASSIC	0.08	oz ai/a	A							
	HARMONY GT XP	0.246	oz ai/a	A							
21	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	92	92	90	95	0	0	2
	AMS	3.7	% v/v	A							
	WEEDONE LV4	0.5	lb ai/a	A							
	CLARITY	0.25	lb ai/a	A							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMACH	IPOHE	AMBTR	AMACH
Pest Scientific Name	Ambrosia trifi>	Amaranthus hyb>	Ipomoea heder>	Ambrosia trifi>	Amaranthus hyb>
Pest Name	Giant ragweed	Smooth pigweed	lyleaf mornin>	Giant ragweed	Smooth pigweed
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	6/6/2008	6/6/2008	6/6/2008	6/6/2008	6/26/2008
Rating Type	CONTROL	CONTROL	CONTROL	GR	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
Days After First/Last Applic.	32 32	32 32	32 32	32 32	52 52
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	52 DA-A
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	45 DP-1
Days After Emergence	17 DE-	17 DE-	17 DE-	17 DE-	37 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	8	9	10	11	12	13
12	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	93	94	95	1	70	77
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	AUTHORITY FIRST	0.141	lb ai/a	A						
13	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	78	86	80	0	37	70
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	SENCOR	0.25	lb ai/a	A						
14	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	72	85	87	0	0	40
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	AUTHORITY MTZ	0.31	lb ai/a	A						
15	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	96	98	98	7	92	90
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	VALOR XLT	0.075	lb ai/a	A						
16	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	88	83	88	6	58	73
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	CLARITY	0.5	lb ai/a	A						
17	GRAMOXONE INTEON	0.75	lb ae/a	A	70	85	83	0	53	60
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	SENCOR	0.25	lb ai/a	A						
18	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	97	98	96	2	77	80
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	GANSTER COPAK	0.085	lb ai/a	A						
19	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95	96	96	3	89	88
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	VALOR SX	0.064	lb ai/a	A						
	CLASSIC	0.32	oz ai/a	A						
	HARMONY GT XP	0.104	oz ai/a	A						
20	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	86	87	87	3	78	75
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	VALOR SX	0.064	lb ai/a	A						
	CLASSIC	0.08	oz ai/a	A						
	HARMONY GT XP	0.246	oz ai/a	A						
21	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	87	90	86	2	54	47
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	CLARITY	0.25	lb ai/a	A						

Plant and Soil Science, U of KY Weed Science Research

Pest Type W Weed
 Pest Code CHEAL
 Pest Scientific Name Chenopodium al>
 Pest Name Common lambsqu>
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 6/26/2008
 Rating Type CONTROL
 Rating Unit PERCENT
 Number of Subsamples 1
 Assessed By GPMURPHY
 Days After First/Last Applic. 52 52
 Trt-Eval Interval 52 DA-A
 Plant-Eval Interval 45 DP-1
 Days After Emergence 37 DE-
 ARM Action Codes P
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					14
12	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	AUTHORITY FIRST	0.141	lb ai/a	A	
13	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	80
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	SENCOR	0.25	lb ai/a	A	
14	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	AUTHORITY MTZ	0.31	lb ai/a	A	
15	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	VALOR XLT	0.075	lb ai/a	A	
16	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	80
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	CLARITY	0.5	lb ai/a	A	
17	GRAMOXONE INTEON	0.75	lb ae/a	A	80
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	SENCOR	0.25	lb ai/a	A	
18	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	GANSTER COPAK	0.085	lb ai/a	A	
19	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	VALOR SX	0.064	lb ai/a	A	
	CLASSIC	0.32	oz ai/a	A	
	HARMONY GT XP	0.104	oz ai/a	A	
20	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	VALOR SX	0.064	lb ai/a	A	
	CLASSIC	0.08	oz ai/a	A	
	HARMONY GT XP	0.246	oz ai/a	A	
21	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	80
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	CLARITY	0.25	lb ai/a	A	

Plant and Soil Science, U of KY

Weed Science Research

	W Weed	W Weed	W Weed	W Weed						
Pest Type	LAMAM	LAMAM	AMBTR	AMBTR						
Pest Code	LAMAM	LAMAM	AMBTR	AMBTR						
Pest Scientific Name	Lamium amplexi>	Lamium amplexi>	Ambrosia trifi>	Ambrosia trifi>						
Pest Name	Henbit	Henbit	Giant ragweed	Giant ragweed						
Crop Code					GLXMA	GLXMA	GLXMA			
BBCH Scale					BSOY	BSOY	BSOY			
Crop Scientific Name					Glycine max	Glycine max	Glycine max			
Crop Name					Soybean	Soybean	Soybean			
Rating Date	5/16/2008	5/16/2008	5/16/2008	5/16/2008	5/30/2008	5/30/2008	5/30/2008			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS	GR	NECROSIS			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1	1	1			
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY			
Days After First/Last Applic.	11 11	11 11	11 11	11 11	25 25	25 25	25 25			
Trt-Eval Interval	11 DA-A	11 DA-A	11 DA-A	11 DA-A	25 DA-A	25 DA-A	25 DA-A			
Plant-Eval Interval	4 DP-1	4 DP-1	4 DP-1	4 DP-1	18 DP-1	18 DP-1	18 DP-1			
Days After Emergence	-4 DE-	-4 DE-	-4 DE-	-4 DE-	10 DE-	10 DE-	10 DE-			
ARM Action Codes	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0			
Trt Treatment										
No. Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
22 ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	93	93	95	93	0	0	20
AMS	3.7	% v/v	A							
WEEDONE LV4	0.5	lb ai/a	A							
CLARITY	1	lb ai/a	A							
LSD (P=.05)				9.8	9.8	10.6	9.2	2.9	0.0	5.1
Standard Deviation				6.0	6.0	6.4	5.6	1.8	0.0	3.1
CV				6.36	6.36	6.9	6.14	388.63	0.0	119.02
Bartlett's X2				9.276	9.276	18.24	12.461	1.86	0.0	7.991
P(Bartlett's X2)				0.931	0.931	0.572	0.926	0.762	.	0.786
Replicate F				3.619	3.619	5.229	0.297	0.364	0.000	0.282
Replicate Prob(F)				0.0355	0.0355	0.0094	0.7448	0.6970	1.0000	0.7556
Treatment F				1.450	1.450	1.160	1.647	0.809	0.000	6.395
Treatment Prob(F)				0.1505	0.1505	0.3321	0.0834	0.6937	1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBTR	AMACH	IPOHE	AMBTR	AMACH					
Pest Scientific Name	Ambrosia trifi>	Amaranthus hyb>	Ipomoea heder>	Ambrosia trifi>	Amaranthus hyb>					
Pest Name	Giant ragweed	Smooth pigweed	Ivyleaf mornin>	Giant ragweed	Smooth pigweed					
Crop Code				GLXMA						
BBCH Scale				BSOY						
Crop Scientific Name				Glycine max						
Crop Name				Soybean						
Rating Date	6/6/2008	6/6/2008	6/6/2008	6/6/2008	6/26/2008					
Rating Type	CONTROL	CONTROL	CONTROL	GR	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Number of Subsamples	1	1	1	1	1					
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY					
Days After First/Last Applic.	32 32	32 32	32 32	32 32	52 52					
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	52 DA-A					
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	45 DP-1					
Days After Emergence	17 DE-	17 DE-	17 DE-	17 DE-	37 DE-					
ARM Action Codes	P	P	P	P	P					
Number of Decimals	0	0	0	0	0					
Trt	Treatment	Rate	Unit	Appl						
No.	Name			Code	8	9	10	11	12	13
22	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	83	56	86	7	47	43
	AMS	3.7	% v/v	A						
	WEEDONE LV4	0.5	lb ai/a	A						
	CLARITY	1	lb ai/a	A						
LSD (P=.05)					13.5	19.7	11.9	5.0	30.8	35.5
Standard Deviation					8.2	11.9	7.2	3.0	18.6	21.5
CV					9.49	13.62	8.14	150.1	30.45	33.43
Bartlett's X2					27.009	43.3	25.584	5.719	41.116	25.663
P(Bartlett's X2)					0.104	0.001*	0.11	0.93	0.004*	0.108
Replicate F					5.478	2.908	3.774	4.151	1.459	5.006
Replicate Prob(F)					0.0077	0.0657	0.0311	0.0226	0.2441	0.0112
Treatment F					4.243	3.108	5.338	1.705	4.792	3.043
Treatment Prob(F)					0.0001	0.0009	0.0001	0.0699	0.0001	0.0011

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed
Pest Code	CHEAL
Pest Scientific Name	Chenopodium al>
Pest Name	Common lambsqu>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	6/26/2008
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Assessed By	GPMURPHY
Days After First/Last Applic.	52 52
Trt-Eval Interval	52 DA-A
Plant-Eval Interval	45 DP-1
Days After Emergence	37 DE-
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
22	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	80
	AMS	3.7	% v/v	A	
	WEEDONE LV4	0.5	lb ai/a	A	
	CLARITY	1	lb ai/a	A	

LSD (P=.05)	20.5
Standard Deviation	12.4
CV	13.59
Bartlett's X2	0.0
P(Bartlett's X2)	.

Replicate F	0.792
Replicate Prob(F)	0.4594
Treatment F	0.802
Treatment Prob(F)	0.7018

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S8022 Protocol ID: 2008-01-30-04
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMAM, Lamium amplexicaule, = US

AMBTR, Ambrosia trifida, = US

AMACH, Amaranthus hybridus, = US

IPOHE, Ipomoea hederacea, = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

4 DP-1 = 1 5/12/2008

18 DP-1 = 1 5/12/2008

25 DP-1 = 1 5/12/2008

45 DP-1 = 1 5/12/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S8022 Protocol ID: 2008-01-30-04
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/5/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
BBCH Scale: BSOY **Planting Date:** 5/12/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.25 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 61 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/20/2008

Pest Description

Pest 1 Type: W **Code:** LAMAM Lamium amplexicaule
Common Name: Henbit

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:** IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory

Pest 5 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Plant and Soil Science, U of KY

Weed Science Research

Application Description

A

Application Date: 5/5/2008
Time of Day: 10 AM
Application Method: SPRAY
Application Timing: 7DBP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 64 F
% Relative Humidity: 48
Wind Velocity, Unit: 2 MPH
Wind Direction: WNW
Soil Temperature, Unit: 57 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, Type, Scale: LAMAM W
Height, Unit: 3 IN
Pest 2 Code, Type, Scale: AMBTR W
Pest 3 Code, Type, Scale: AMACH W
Pest 4 Code, Type, Scale: IPOHE W
Pest 5 Code, Type, 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: 8.33 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 II

Trial ID: S8023 Protocol ID: NTSOY FMC
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Scientific Name	Glycine max			Glycine max	
Crop Name	Soybean			Soybean	
Rating Date	5/21/2008	5/21/2008	5/21/2008	5/14/2008	6/3/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	7 7	27 27
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	8 DP-1	28 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	2 DE-1	22 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Appl	1	2	3	4	5	6	7
No.	Name	Rate Unit	Code							
1	AUTHORITY FIRST	3.2 oz/a	A	0	96	99	99	0	96	99
	RAGE D-TECH	0.75 pt/a	A							
	ROUNDUP POWERMAX	1 pt/a	A							
	ROUNDUP POWERMAX	22 fl oz/a	B							
	AMS	3.7 % v/v	B							
2	AUTHORITY MTZ	12 oz/a	A	0	99	98	99	0	99	98
	RAGE D-TECH	0.75 pt/a	A							
	ROUNDUP POWERMAX	1 pt/a	A							
	ROUNDUP POWERMAX	22 fl oz/a	B							
	AMS	3.7 % v/v	B							
3	AUTHORITY ASSIST	5 fl oz/a	A	0	98	95	99	0	98	95
	RAGE D-TECH	0.75 pt/a	A							
	ROUNDUP POWERMAX	1 pt/a	A							
	ROUNDUP POWERMAX	22 fl oz/a	B							
	AMS	3.7 % v/v	B							
4	ROUNDUP POWERMAX	22 fl oz/a	A	0	94	73	93	0	94	73
	AMS	3.7 % v/v	A							
	ROUNDUP POWERMAX	22 fl oz/a	B							
	AMS	3.7 % v/v	B							
	LSD (P=.05)			0.0	6.7	6.9	2.9	0.0	6.7	6.9
	Standard Deviation			0.0	3.4	3.4	1.4	0.0	3.4	3.4
	CV			0.0	3.48	3.78	1.48	0.0	3.48	3.78
	Bartlett's X2			0.0	2.0	1.399	0.0	0.0	2.0	1.399
	P(Bartlett's X2)			.	0.368	0.237	.	.	0.368	0.237
	Replicate F			0.000	0.686	0.252	1.000	0.000	0.686	0.252
	Replicate Prob(F)			1.0000	0.5394	0.7848	0.4219	1.0000	0.5394	0.7848
	Treatment F			0.000	1.206	36.699	11.560	0.000	1.206	36.699
	Treatment Prob(F)			1.0000	0.3849	0.0003	0.0066	1.0000	0.3849	0.0003

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	SETFA	AMBTR	CHEAL				
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>				
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>				
Crop Code	GLXMA							
BBCH Scale	BSOY							
Crop Scientific Name	Glycine max							
Crop Name	Soybean							
Rating Date	6/3/2008	6/18/2008	6/18/2008	6/18/2008				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1				
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK				
Days After First/Last Applic.	27 27	42 14	42 14	42 14				
Trt-Eval Interval	27 DA-A							
Plant-Eval Interval	28 DP-1	43 DP-1	43 DP-1	43 DP-1				
Days After Emergence	22 DE-	37 DE-	37 DE-	37 DE-				
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0				
Trt	Treatment	Rate	Appl	8	9	10	11	12
No.	Name	Rate	Unit	Code				
1	AUTHORITY FIRST	3.2	oz/a	A	99	0	99	99
	RAGE D-TECH	0.75	pt/a	A				99
	ROUNDUP POWERMAX	1	pt/a	A				
	ROUNDUP POWERMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
2	AUTHORITY MTZ	12	oz/a	A	99	0	99	99
	RAGE D-TECH	0.75	pt/a	A				
	ROUNDUP POWERMAX	1	pt/a	A				
	ROUNDUP POWERMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
3	AUTHORITY ASSIST	5	fl oz/a	A	99	0	99	99
	RAGE D-TECH	0.75	pt/a	A				
	ROUNDUP POWERMAX	1	pt/a	A				
	ROUNDUP POWERMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
4	ROUNDUP POWERMAX	22	fl oz/a	A	93	0	99	99
	AMS	3.7	% v/v	A				
	ROUNDUP POWERMAX	22	fl oz/a	B				
	AMS	3.7	% v/v	B				
	LSD (P=.05)				2.9	0.0	0.0	0.0
	Standard Deviation				1.4	0.0	0.0	0.0
	CV				1.48	0.0	0.0	0.0
	Bartlett's X2				0.0	0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.	.
	Replicate F				1.000	0.000	0.000	0.000
	Replicate Prob(F)				0.4219	1.0000	1.0000	1.0000
	Treatment F				11.560	0.000	0.000	0.000
	Treatment Prob(F)				0.0066	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN II

Trial ID: S8023 Protocol ID: NTSOY FMC
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 5/6/2008

8 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

43 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN II

Trial ID: S8023 Protocol ID: NTSOY FMC
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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: Common lambsquarters

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	5/7/2008	6/4/2008
Time of Day:	1 PM	6 PM
Application Method:	SPRAY	SPRAY

Plant and Soil Science, U of KY

Weed Science Research

Application Timing:	PRE	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	81 F
% Relative Humidity:	48	58
Wind Velocity, Unit:	8 MPH	8 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	61 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	50	90

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		2 TR
Height, Unit:		4 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	2 IN	5 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	4 IN	8 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2 IN	4 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:	8.33 FT	8.33 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

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	6/3/2008	6/18/2008	6/18/2008	6/11/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	4 WEEK BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.	27 27	42 42	42 42	35 35
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	28 DP-1	43 DP-1	43 DP-1	36 DP-1
Days After Emergence	22 DE-	37 DE-	37 DE-	30 DE-
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12
1	DURANGO DMA	24 fl oz/a	A		99	0	99	88	99
	WEEDONE LV4	1 pt/a	A						
	AMS	3.7 % v/v	A						
	SONIC	3 oz/a	A						
2	DURANGO DMA	24 fl oz/a	B		99	0	99	90	99
	AMS	3.7 % v/v	B						
	AMS	3.7 % v/v	A						
	SONIC	4.5 oz/a	A						
3	DURANGO DMA	24 fl oz/a	B		99	0	99	89	99
	AMS	3.7 % v/v	B						
	AMS	3.7 % v/v	A						
	FIRSTRATE	0.3 oz/a	A						
	DURANGO DMA	24 fl oz/a	C						
	AMS	3.7 % v/v	C						
4	DURANGO DMA	24 fl oz/a	A		99	0	99	72	99
	WEEDONE LV4	1 pt/a	A						
	AMS	3.7 % v/v	A						
	BOUNDARY	1.5 pt/a	A						
	TOUCHDOWN TOTAL	24 oz/a	B						
5	DURANGO DMA	24 fl oz/a	A		91	0	99	73	91
	WEEDONE LV4	1 pt/a	A						
	AMS	3.7 % v/v	A						
	INTRRO	2 qt/a	A						
	ROUNDUP POWERMAX	22 fl oz/a	B						
AMS	3.7 % v/v	B							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	SETFA	AMBTR	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>	
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed	
Crop Code	GLXMA			GLXMA		
BBCH Scale	BSOY			BSOY		
Crop Scientific Name	Glycine max			Glycine max		
Crop Name	Soybean			Soybean		
Rating Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	6/3/2008	6/3/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	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	27 27	27 27
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	28 DP-1	28 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	22 DE-	22 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl	1	2	3	4	5	6	7
6	DURANGO DMA	24	fl oz/a	A	0	99	93	93	0	99	93
	WEEDONE LV4	1	pt/a	A							
	AMS	3.7	% v/v	A							
	PREFIX	2	pt/a	A							
	TOUCHDOWN TOTAL	24	oz/a	B							
	AMS	3.7	% v/v	B							
	LSD (P=.05)				0.0	0.0	4.2	3.3	0.0	0.0	4.2
	Standard Deviation				0.0	0.0	2.3	1.8	0.0	0.0	2.3
	CV				0.0	0.0	2.37	1.9	0.0	0.0	2.37
	Bartlett's X2				0.0	0.0	1.2	0.094	0.0	0.0	1.2
	P(Bartlett's X2)				.	.	0.753	0.759	.	.	0.753
	Replicate F				0.000	0.000	2.516	1.295	0.000	0.000	2.516
	Replicate Prob(F)				1.0000	1.0000	0.1303	0.3161	1.0000	1.0000	0.1303
	Treatment F				0.000	0.000	3.108	11.505	0.000	0.000	3.108
	Treatment Prob(F)				1.0000	1.0000	0.0598	0.0007	1.0000	1.0000	0.0598

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	CHEAL	SETFA	AMBTR	CHEAL	
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>	
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Scientific Name		Glycine max			
Crop Name		Soybean			
Rating Date	6/3/2008	6/18/2008	6/18/2008	6/18/2008	6/11/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.	27 27	42 42	42 42	42 42	35 35
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	28 DP-1	43 DP-1	43 DP-1	43 DP-1	36 DP-1
Days After Emergence	22 DE-	37 DE-	37 DE-	37 DE-	30 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Unit	Appl Code	8	9	10	11	12
6 DURANGO DMA	24	fl oz/a	A	93	0	99	80	93
WEEDONE LV4	1	pt/a	A					
AMS	3.7	% v/v	A					
PREFIX	2	pt/a	A					
TOUCHDOWN TOTAL	24	oz/a	B					
AMS	3.7	% v/v	B					
LSD (P=.05)				3.3	0.0	0.0	6.5	3.3
Standard Deviation				1.8	0.0	0.0	3.6	1.8
CV				1.9	0.0	0.0	4.34	1.9
Bartlett's X2				0.094	0.0	0.0	5.326	0.094
P(Bartlett's X2)				0.759	.	.	0.255	0.759
Replicate F				1.295	0.000	0.000	4.265	1.295
Replicate Prob(F)				0.3161	1.0000	1.0000	0.0458	0.3161
Treatment F				11.505	0.000	0.000	16.491	11.505
Treatment Prob(F)				0.0007	1.0000	1.0000	0.0002	0.0007

Plant and Soil Science, U of KY

Weed Science Research

NOTILL SOYBEAN III

Trial ID: S8024 Protocol ID: NTSOY DOW
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

43 DP-1 = 1 5/6/2008

36 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NOTILL SOYBEAN III

Trial ID: S8024 Protocol ID: NTSOY DOW
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/6/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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: Common lambsquarters

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	5/7/2008	6/18/2008
Time of Day:	1 PM	1 PM
Application Method:	SPRAY	SPRAY

Plant and Soil Science, U of KY

Weed Science Research

Application Timing:	PRE	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	75 F
% Relative Humidity:	48	36
Wind Velocity, Unit:	8 MPH	8 MPH
Wind Direction:	SW	W
Soil Temperature, Unit:	60 F	71 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	50	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	8 IN	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	2 IN	5 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	4 IN	8 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2 IN	4 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:	8.33 FT	8.33 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 Weed Science Research

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	GLXMA				GLXMA			
BBCH Scale	BSOY				BSOY			
Crop Scientific Name	Glycine max				Glycine max			
Crop Name	Soybean				Soybean			
Rating Date	6/3/2008	6/3/2008	6/3/2008	6/3/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1
Rating Timing	+2WK AFT B	+2WK AFT B	+2WK AFT B	+2WK AFT B	+4WK AFT B	+4WK AFT B	+4WK AFT B	+4WK AFT B
Days After First/Last Applic.	42 12	42 12	42 12	42 12	57 27	57 27	57 27	57 27
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	22 DE-	22 DE-	22 DE-	22 DE-	37 DE-	37 DE-	37 DE-	37 DE-
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt	Treatment	Rate	Appl	8	9	10	11	12	13	14	15	
No.	Name	Rate	Unit	Code								
1	TACKLE	1 lb ai/a	A		0	95	76	93	0	95	47	93
2	TACKLE	1 lb ai/a	A		0	95	76	93	0	95	27	93
	AMS	2.55 lb ai/a	A									
3	TACKLE	1 lb ai/a	A		0	95	78	93	0	95	35	93
	AMS	2.55 lb ai/a	A									
	NIS	0.125 % v/v	A									
4	EXTREME	0.81 lb ai/a	A		0	95	89	95	0	95	68	95
	AMS	2.55 lb ai/a	A									
	NIS	0.125 % v/v	A									
5	TACKLE	1 lb ai/a	A		0	96	96	96	0	96	96	96
	AMS	2.55 lb ai/a	A									
	TACKLE	1 lb ai/a	B									
	AMS	2.55 lb ai/a	B									
6	TACKLE	1 lb ai/a	B		0	95	81	93	0	95	91	93
7	TACKLE	1 lb ai/a	B		0	95	88	95	0	95	95	95
	AMS	2.55 lb ai/a	B									
8	TACKLE	1 lb ai/a	B		0	95	89	95	0	95	95	95
	AMS	2.55 lb ai/a	B									
	NIS	0.125 % v/v	B									
9	EXTREME	0.81 lb ai/a	B		0	95	87	95	0	95	91	95
	AMS	2.55 lb ai/a	B									
	NIS	0.125 % v/v	B									
10	UNTREATED				0	0	0	0	0	0	0	0
	LSD (P=.05)				0.0	1.3	16.0	3.1	0.0	1.3	31.1	3.1
	Standard Deviation				0.0	0.7	9.3	1.8	0.0	0.7	18.1	1.8
	CV				0.0	0.85	12.3	2.15	0.0	0.85	28.09	2.15
	Bartlett's X2				0.0	0.0	24.27	0.135	0.0	0.0	19.849	0.135
	P(Bartlett's X2)				.	.	0.002*	0.998	.	.	0.003*	0.998
	Replicate F				0.000	1.000	4.268	2.549	0.000	1.000	3.132	2.549
	Replicate Prob(F)				1.0000	0.3874	0.0304	0.1060	1.0000	0.3874	0.0680	0.1060
	Treatment F				0.000	5093.397	25.991	799.568	0.000	5093.397	11.248	799.568
	Treatment Prob(F)				1.0000	0.0001	0.0001	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 IV

Trial ID: S8025 Protocol ID: NTSOYEPP CHEM
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, = US

STEME, Stellaria media, = US

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

0 DP-1 = 1 5/6/2008

16 DP-1 = 1 5/6/2008

28 DP-1 = 1 5/6/2008

43 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT IV

Trial ID: S8025 Protocol ID: NTSOYEPP CHEM
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/22/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

Pest Description

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

Pest 2 Type: W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel

Pest 3 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL

Plant and Soil Science, U of KY

Weed Science Research

Closest Weather Station: SPINDLETOP

Distance, Unit: 1.5 MI

Application Description

	A	B
Application Date:	4/22/2008	5/22/2008
Time of Day:	11:30 AM	11:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	2 WBP	2 WAP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	69 F	68 F
% Relative Humidity:	55	39
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	SE	WNW
Soil Temperature, Unit:	56 F	58 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	0	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		UNIF

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Height, Unit:	6 IN	
Pest 2 Code, Type, Scale:	LAMPU W	LAMPU W
Height, Unit:	6 IN	
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		1 IN
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	8 IN	8 IN
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2 IN	5 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:	8.33 FT	8.33 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 Weed Science Research

NO-TILL SOYBEAN POSTEMERGENCE IV

Trial ID: S8026 Protocol ID: 2008-01-30-17
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	SETFA	AMBTR	CHEAL	SETFA	
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	
Pest Name	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail	
Crop Code							GLXMA
BCH Scale							BSOY
Crop Scientific Name							Glycine max
Crop Name							Soybean
Rating Date	5/23/2008	5/23/2008	5/23/2008	5/30/2008	5/30/2008	5/30/2008	5/30/2008
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CHLOROSIS
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
Days After First/Last Applic.	14 11	14 11	14 11	21 18	21 18	21 18	21 18
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	25 DA-A
Plant-Eval Interval	11 DP-1	11 DP-1	11 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	12 DE-	12 DE-	12 DE-	12 DE-
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	B	89	99	99	94	99	99	0
	AMS	3.7	% v/v	B							
2	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	92	99	99	94	99	99	0
	AMS	3.7	% v/v	A							
3	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	98	99	99	93	99	99	0
	AMS	3.7	% v/v	A							
	COBRA	0.152	lb ai/a	A							
4	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	99	99	99	98	99	99	0
	AMS	3.7	% v/v	A							
	FIRSTRATE	0.016	lb ai/a	A							
5	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	87	99	99	94	99	99	0
	AMS	3.7	% v/v	A							
	RAPTOR	0.031	lb ai/a	A							
6	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	99	99	99	97	99	99	0
	AMS	3.7	% v/v	A							
	FLEXSTAR	0.294	lb ai/a	A							
7	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	92	99	99	90	99	99	0
	AMS	3.7	% v/v	A							
	ULTRA BLAZER	0.156	lb ai/a	A							
8	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95	99	99	87	99	99	0
	AMS	3.7	% v/v	A							
	RESOURCE	0.054	lb ai/a	A							
9	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	96	99	99	98	99	99	0
	AMS	3.7	% v/v	A							
	CLASSIC	0.1875	oz ai/a	A							
10	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	95	99	99	93	99	99	0
	AMS	3.7	% v/v	A							
	HARMONY GT XP	0.083	oz ai/a	A							
11	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	77	99	99	70	99	99	0
	AMS	3.7	% v/v	A							
	BASAGRAN	1	lb ai/a	A							
12	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	87	99	99	93	99	99	0
	AMS	3.7	% v/v	A							
	2,4-DB AMINE	0.22	lb ai/a	A							
LSD (P=.05)					8.2	0.4	0.4	4.9	0.4	0.4	0.0
Standard Deviation					4.8	0.2	0.2	2.9	0.2	0.2	0.0
CV					5.25	0.24	0.24	3.15	0.24	0.23	0.0
Bartlett's X2					17.579	0.0	0.0	6.661	0.0	0.0	0.0
P(Bartlett's X2)					0.062	.	.	0.757	.	.	.
Replicate F					2.661	0.478	0.478	1.844	0.478	2.200	0.000
Replicate Prob(F)					0.0923	0.6262	0.6262	0.1818	0.6262	0.1346	1.0000
Treatment F					5.232	0.870	0.870	20.490	0.870	1.000	0.000
Treatment Prob(F)					0.0005	0.5803	0.5803	0.0001	0.5803	0.4767	1.0000

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Pest Type			W Weed	W Weed	W Weed
Pest Code			AMBTR	AMACH	CHEAL
Pest Scientific Name			Ambrosia trifi>	Amaranthus hyb>	Chenopodium al>
Pest Name			Giant ragweed	Smooth pigweed	Common lambsqu>
Crop Code	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max			
Crop Name	Soybean	Soybean			
Rating Date	5/30/2008	5/30/2008	6/6/2008	6/6/2008	6/6/2008
Rating Type	GR	NECROSIS	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Assessed By	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY	GPMURPHY
Days After First/Last Applic.	21 18	21 18	28 25	28 25	28 25
Trt-Eval Interval	25 DA-A	25 DA-A	32 DA-A	32 DA-A	32 DA-A
Plant-Eval Interval	18 DP-1	18 DP-1	25 DP-1	25 DP-1	25 DP-1
Days After Emergence	12 DE-	12 DE-	19 DE-	19 DE-	19 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	8	9	10	11	12
1	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	B	0	0	27	53	80
	AMS	3.7	% v/v	B					
2	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	30	47	95
	AMS	3.7	% v/v	A					
3	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	0	17	95
	AMS	3.7	% v/v	A					
	COBRA	0.152	lb ai/a	A					
4	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	73	83	80
	AMS	3.7	% v/v	A					
	FIRSTRATE	0.016	lb ai/a	A					
5	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	33	60	80
	AMS	3.7	% v/v	A					
	RAPTOR	0.031	lb ai/a	A					
6	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	80	88	80
	AMS	3.7	% v/v	A					
	FLEXSTAR	0.294	lb ai/a	A					
7	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	23	13	80
	AMS	3.7	% v/v	A					
	ULTRA BLAZER	0.156	lb ai/a	A					
8	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	13	47	95
	AMS	3.7	% v/v	A					
	RESOURCE	0.054	lb ai/a	A					
9	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	88	75	95
	AMS	3.7	% v/v	A					
	CLASSIC	0.1875	oz ai/a	A					
10	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	58	50	95
	AMS	3.7	% v/v	A					
	HARMONY GT XP	0.083	oz ai/a	A					
11	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	0	0	95
	AMS	3.7	% v/v	A					
	BASAGRAN	1	lb ai/a	A					
12	ROUNDUP ORIGINAL MAX	0.75	lb ae/a	A	0	0	45	17	80
	AMS	3.7	% v/v	A					
	2,4-DB AMINE	0.22	lb ai/a	A					
LSD (P=.05)					0.0	0.0	38.5	47.8	31.8
Standard Deviation					0.0	0.0	22.8	28.2	18.8
CV					0.0	0.0	57.98	61.67	21.47
Bartlett's X2					0.0	0.0	12.73	14.958	0.0
P(Bartlett's X2)					.	.	0.175	0.134	1.00
Replicate F					0.000	0.000	0.358	0.173	0.478
Replicate Prob(F)					1.0000	1.0000	0.7032	0.8421	0.6262
Treatment F					0.000	0.000	5.187	3.130	0.522
Treatment Prob(F)					1.0000	1.0000	0.0005	0.0109	0.8680

Plant and Soil Science, U of KY

Weed Science Research

NO-TILL SOYBEAN POSTEMERGENCE IV

Trial ID: S8026 Protocol ID: 2008-01-30-17
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

SETFA, Setaria faberi, = US

AMACH, Amaranthus hybridus, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

11 DP-1 = 1 5/12/2008

18 DP-1 = 1 5/12/2008

25 DP-1 = 1 5/12/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO-TILL SOYBEAN POSTEMERGENCE IV

Trial ID: S8026 Protocol ID: 2008-01-30-17
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/9/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
BBCH Scale: BSOY **Planting Date:** 5/12/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.25 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 60 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/18/2008

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

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

Pest 3 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 3 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 34 **CEC:** 25 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

A B

Plant and Soil Science, U of KY

Weed Science Research

Application Date:	5/9/2008	5/12/2008
Time of Day:	11 AM	11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	4"W	6"W
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	63 F	58 F
% Relative Humidity:	90	58
Wind Velocity, Unit:	4 MPH	8 MPH
Wind Direction:	WSW	NNW
Soil Temperature, Unit:	61 F	59 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	90	90

Crop Stage At Each Application

A B

Crop 1 Code, BBCH Scale: GLXMA BSOY GLXMA BSOY

Pest Stage At Each Application

A B

Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	4 IN	6 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	3 IN	4 IN
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Diameter, Unit:	2 IN	3 IN
Pest 4 Code, Type, Scale:	AMACH W	AMACH W
Height, Unit:	2 IN	3 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:	8.33 FT	8.33 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

Date By Notes

GP MURPHY soybeans had not emerged for 7 dat rating and were only taken at 14 dat with no apparent injury.

Plant and Soil Science, U of KY Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT V

Trial ID: S8027 Protocol ID: GOWAN D-PER-08-03-3
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMAM	STEME	LAMAM	ERICA
Pest Scientific Name	Stellaria media	Lamium amplexi>	Stellaria media	Lamium amplexi>	Conyza canaden>
Pest Name	Common chickwe>	Henbit	Common chickwe>	Henbit	Mare's tail
Crop Code			GLXMA		
BCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	5/8/2008	5/8/2008	5/20/2008	5/20/2008	5/20/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	AT PLANTING	AT PLANTING	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	26 26	26 26	26 26
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A
Plant-Eval Interval	2 DP-1	2 DP-1	14 DP-1	14 DP-1	14 DP-1
Days After Emergence	-4 DE-	-4 DE-	8 DE-1	8 DE-1	8 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl	1	2	3	4	5	6
No.	Name			Code						
1	CHECK UNTREATED				0	0	0.0	0	0	0
2	PERMIT	0.67	oz/a	A	99	99	0.0	99	99	96
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
3	PERMIT	0.67	oz/a	A	53	63	0.0	40	63	60
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
4	PERMIT	0.67	oz/a	A	99	99	0.0	99	99	94
	UNITY	0.083	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
5	PERMIT	0.67	oz/a	A	80	83	0.0	83	75	80
	UNITY	0.083	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
6	PERMIT	0.67	oz/a	A	99	99	0.0	99	99	98
	GWN-3124	0.33	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
7	PERMIT	0.67	oz/a	A	90	92	0.0	88	91	82
	GWN-3124	0.33	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
8	PERMIT	0.67	oz/a	A	99	99	0.0	99	99	96
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
9	PERMIT	0.67	oz/a	A	95	96	0.0	95	96	27
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
10	GWN-3124	0.33	oz/a	A	99	99	0.0	99	99	96
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
11	GWN-3124	0.33	oz/a	A	94	95	0.0	94	93	75
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed		W Weed		W Weed		W Weed	
Pest Code	AMBTR		ERICA		AMBTR		ERICA	
Pest Scientific Name	Ambrosia trifi>		Conyza canaden>		Ambrosia trifi>		Conyza canaden>	
Pest Name	Giant ragweed		Mare's tail		Giant ragweed		Mare's tail	
Crop Code	GLXMA				GLXMA			
BCH Scale	BSOY				BSOY			
Crop Scientific Name	Glycine max				Glycine max			
Crop Name	Soybean				Soybean			
Rating Date	6/12/2008	6/12/2008	6/12/2008	7/11/2008	7/11/2008	7/11/2008	7/11/2008	7/11/2008
Rating Type	INJURY		CONTROL		INJURY		CONTROL	
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT	
Number of Subsamples	1	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	49 49	49 49	49 49	78 78	78 78	78 78	78 78	78 78
Trt-Eval Interval	49 DA-A	26 DA-A	26 DA-A	78 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	66 DP-1	66 DP-1	66 DP-1	66 DP-1	66 DP-1
Days After Emergence	31 DE-	31 DE-	31 DE-	60 DE-	60 DE-	60 DE-	60 DE-	60 DE-
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11	12
1	CHECK UNTREATED				0	0	0	0	0	0
2	PERMIT	0.67	oz/a	A	0	92	96	0	92	93
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
3	PERMIT	0.67	oz/a	A	0	88	60	0	80	67
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
4	PERMIT	0.67	oz/a	A	0	82	94	0	80	93
	UNITY	0.083	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
5	PERMIT	0.67	oz/a	A	0	88	80	0	85	73
	UNITY	0.083	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
6	PERMIT	0.67	oz/a	A	0	83	98	0	81	98
	GWN-3124	0.33	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
7	PERMIT	0.67	oz/a	A	0	94	82	0	91	79
	GWN-3124	0.33	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
8	PERMIT	0.67	oz/a	A	0	65	96	0	65	96
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
9	PERMIT	0.67	oz/a	A	0	62	27	0	58	27
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
10	GWN-3124	0.33	oz/a	A	0	43	96	0	40	96
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
11	GWN-3124	0.33	oz/a	A	0	69	75	0	66	66
	GWN-3125	0.17	oz/a	A						
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMAM	STEME	LAMAM	ERICA
Pest Scientific Name	Stellaria media	Lamium amplexi>	Stellaria media	Lamium amplexi>	Conyza canaden>
Pest Name	Common chickwe>	Henbit	Common chickwe>	Henbit	Mare's tail
Crop Code			GLXMA		
BBCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	5/8/2008	5/8/2008	5/20/2008	5/20/2008	5/20/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	AT PLANTING	AT PLANTING	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	26 26	26 26	26 26
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A
Plant-Eval Interval	2 DP-1	2 DP-1	14 DP-1	14 DP-1	14 DP-1
Days After Emergence	-4 DE-	-4 DE-	8 DE-1	8 DE-1	8 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6
12 YUKON	4	oz/a	A	99	99	0.0	99	99	95
COC	1	% v/v	A						
ROUNDUP WeatherMAX	0.75	lb ae/a	A						
AMS	2.5	lb ai/a	A						
13 YUKON	4	oz/a	A	63	67	0.0	57	60	90
COC	1	% v/v	A						
AMS	2.5	lb ai/a	A						
14 CANOPY	2.25	oz/a	A	99	99	0.0	99	99	96
COC	1	% v/v	A						
ROUNDUP WeatherMAX	0.75	lb ae/a	A						
AMS	2.5	lb ai/a	A						
15 CANOPY	2.25	oz/a	A	84	83	0.0	84	83	75
COC	1	% v/v	A						
AMS	2.5	lb ai/a	A						
16 ROUNDUP WeatherMAX	0.75	lb ae/a	A	99	99	0.0	99	99	93
AMS	2.5	lb ai/a	A						
CHECK UNTREATED									
LSD (P=.05)				11.9	13.5	0.00	6.6	13.4	17.1
Standard Deviation				7.1	8.1	0.00	4.0	8.0	10.3
CV				8.43	9.41	0.0	4.74	9.51	13.13
Bartlett's X2				13.961	8.429	0.0	4.601	12.042	26.531
P(Bartlett's X2)				0.03*	0.208	.	0.466	0.061	0.014*
Replicate F				1.458	0.151	0.000	0.529	0.166	0.230
Replicate Prob(F)				0.2488	0.8609	1.0000	0.5944	0.8479	0.7958
Treatment F				41.367	30.306	0.000	150.580	31.499	22.148
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		AMBTR	ERICA	AMBTR	ERICA
Pest Scientific Name		Ambrosia trifi>	Conyza canaden>	Ambrosia trifi>	Conyza canaden>
Pest Name		Giant ragweed	Mare's tail	Giant ragweed	Mare's tail
Crop Code	GLXMA			GLXMA	
BBCH Scale	BSOY			BSOY	
Crop Scientific Name	Glycine max			Glycine max	
Crop Name	Soybean			Soybean	
Rating Date	6/12/2008	6/12/2008	6/12/2008	7/11/2008	7/11/2008
Rating Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	49 49	49 49	49 49	78 78	78 78
Trt-Eval Interval	49 DA-A	26 DA-A	26 DA-A	78 DA-A	26 DA-A
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	66 DP-1	66 DP-1
Days After Emergence	31 DE-	31 DE-	31 DE-	60 DE-	60 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11	12
12	YUKON	4	oz/a	A	0	85	95	0	81	95
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
13	YUKON	4	oz/a	A	0	90	90	0	90	90
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
14	CANOPY	2.25	oz/a	A	0	93	96	0	93	96
	COC	1	% v/v	A						
	ROUNDUP WeatherMAX	0.75	lb ae/a	A						
	AMS	2.5	lb ai/a	A						
15	CANOPY	2.25	oz/a	A	0	92	75	0	91	72
	COC	1	% v/v	A						
	AMS	2.5	lb ai/a	A						
16	ROUNDUP WeatherMAX	0.75	lb ae/a	A	0	85	93	0	86	91
	AMS	2.5	lb ai/a	A						
	CHECK UNTREATED									
	LSD (P=.05)				0.0	29.5	17.1	0.0	31.8	18.8
	Standard Deviation				0.0	17.7	10.3	0.0	19.1	11.3
	CV				0.0	23.33	13.13	0.0	25.89	14.6
	Bartlett's X2				0.0	31.901	26.531	0.0	30.271	32.593
	P(Bartlett's X2)				.	0.004*	0.014*	.	0.007*	0.002*
	Replicate F				0.000	0.887	0.230	0.000	0.919	0.535
	Replicate Prob(F)				1.0000	0.4225	0.7958	1.0000	0.4098	0.5914
	Treatment F				0.000	5.802	22.148	0.000	4.911	18.152
	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

NO TILL SOYBEAN EARLY PREPLANT V

Trial ID: S8027 Protocol ID: GOWAN D-PER-08-03-3
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US

LAMAM, Lamium amplexicaule, = US

ERICA, Conyza canadensis, = US

AMBTR, Ambrosia trifida, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

2 DP-1 = 1 5/6/2008

14 DP-1 = 1 5/6/2008

37 DP-1 = 1 5/6/2008

66 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT V

Trial ID: S8027 Protocol ID: GOWAN D-PER-08-03-3
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 4/24/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 62 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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:** ERICA *Conyza canadensis*
Common Name: Mare's tail

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Site and Design

Plot Width, Unit: 8.33 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 366.52 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
 Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

Plant and Soil Science, U of KY

Weed Science Research

A

Application Date: 4/24/2008
Time of Day: 5 PM
Application Method: SPRAY
Application Timing: 2 WBP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 78 F
% Relative Humidity: 48
Wind Velocity, Unit: 4 MPH
Wind Direction: SWS
Soil Temperature, Unit: 59 F
Soil Moisture: ADEQUATE
% Cloud Cover: 30

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: STEME W
Height, Unit: 10 IN
Pest 2 Code, Type, Scale: LAMAM W
Height, Unit: 10 IN
Pest 3 Code, Type, Scale: ERICA W
Height, Unit: 2 IN
Pest 4 Code, Type, 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: 8.33 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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Conyza canadens>	Ipomoea sp.
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Mare's tail	Morning glory
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Scientific Name		Glycine max			
Crop Name		Soybean			
Rating Date	7/1/2008	7/29/2008	7/29/2008	7/29/2008	7/29/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
SE Description	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	61 8	89 36	89 36	89 36	89 36
Plant-Eval Interval	56 DP-1	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	50 DE-	78 DE-	78 DE-	78 DE-	78 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	22	23	24	25	26	27
1	CHECK UNTREATED				0	0	0	0	0	0
2	PREFIX	2 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	GRAMOXONE INTEON	2.5 pt/a	A							
	COC	2 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
3	PREFIX	2 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
4	BOUNDARY	1.5 pt/a	A		99	0	98	98	99	99
	WEEDONE LV4	1 pt/a	A							
	GRAMOXONE INTEON	2.5 pt/a	A							
	COC	2 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
5	BOUNDARY	1.5 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
6	PREFIX	2 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	GRAMOXONE INTEON	2.5 pt/a	A							
	COC	2 % v/v	A							
	AMS	3.7 % v/v	C							
	SEQUENCE	40 fl oz/a	C							
7	AMS	2 % v/v	A		99	0	95	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	VALOR SX	2 oz/a	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
8	AMS	2 % v/v	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	ENVIVE	3.5 oz/a	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Conyza canadens>	Ipomoea sp.
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Mare's tail	Morning glory
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Scientific Name		Glycine max			
Crop Name		Soybean			
Rating Date	7/29/2008	8/26/2008	8/26/2008	8/29/2008	8/26/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
SE Description	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	89 36	117 64	117 64	117 64	120 67
Plant-Eval Interval	84 DP-1	112 DP-1	112 DP-1	112 DP-1	115 DP-1
Days After Emergence	78 DE-	106 DE	106 DE	106 DE	109 DE
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	28	29	30	31	32	33
1	CHECK UNTREATED				0	0	0	0	0	0
2	PREFIX	2 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	GRAMOXONE INTEON	2.5 pt/a	A							
	COC	2 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
3	PREFIX	2 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
4	BOUNDARY	1.5 pt/a	A		99	0	98	98	99	99
	WEEDONE LV4	1 pt/a	A							
	GRAMOXONE INTEON	2.5 pt/a	A							
	COC	2 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
5	BOUNDARY	1.5 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
6	PREFIX	2 pt/a	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	GRAMOXONE INTEON	2.5 pt/a	A							
	COC	2 % v/v	A							
	AMS	3.7 % v/v	C							
	SEQUENCE	40 fl oz/a	C							
7	AMS	2 % v/v	A		99	0	95	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	VALOR SX	2 oz/a	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
8	AMS	2 % v/v	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	ENVIVE	3.5 oz/a	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							

Plant and Soil Science, U of KY Weed Science Research

Pest Type	W Weed	
Pest Code	CHEAL	
Pest Scientific Name	Chenopodium al>	
Pest Name	Common lambsqu>	
Crop Code		GLXMA
BBCH Scale		BSOY
Crop Scientific Name		Glycine max
Crop Name		Soybean
Rating Date	8/26/2008	
Rating Type	CONTROL	YIELD
Rating Unit	PERCENT	BU/A
Number of Subsamples	1	1
SE Description	AFTER C APP.	13%
Rating Timing	8 WEEK	
Days After First/Last Applic.	117 64	
Plant-Eval Interval	112 DP-1	
Days After Emergence	106 DE	
ARM Action Codes	P	TY1
Number of Decimals	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	34	38
1	CHECK UNTREATED				0	4.5
2	PREFIX	2 pt/a	A		99	29.6
	WEEDONE LV4	1 pt/a	A			
	GRAMOXONE INTEON	2.5 pt/a	A			
	COC	2 % v/v	A			
	AMS	3.7 % v/v	C			
	TOUCHDOWN TOTAL	24 fl oz/a	C			
3	PREFIX	2 pt/a	A		99	29.5
	WEEDONE LV4	1 pt/a	A			
	TOUCHDOWN TOTAL	1.5 pt/a	A			
	AMS	3.7 % v/v	A			
	AMS	3.7 % v/v	C			
	TOUCHDOWN TOTAL	24 fl oz/a	C			
4	BOUNDARY	1.5 pt/a	A		99	27.4
	WEEDONE LV4	1 pt/a	A			
	GRAMOXONE INTEON	2.5 pt/a	A			
	COC	2 % v/v	A			
	AMS	3.7 % v/v	C			
	TOUCHDOWN TOTAL	24 fl oz/a	C			
5	BOUNDARY	1.5 pt/a	A		99	29.8
	WEEDONE LV4	1 pt/a	A			
	TOUCHDOWN TOTAL	1.5 pt/a	A			
	AMS	3.7 % v/v	A			
	AMS	3.7 % v/v	C			
	TOUCHDOWN TOTAL	24 fl oz/a	C			
6	PREFIX	2 pt/a	A		99	31.3
	WEEDONE LV4	1 pt/a	A			
	GRAMOXONE INTEON	2.5 pt/a	A			
	COC	2 % v/v	A			
	AMS	3.7 % v/v	C			
	SEQUENCE	40 fl oz/a	C			
7	AMS	2 % v/v	A		99	28.6
	WEEDONE LV4	1 pt/a	A			
	TOUCHDOWN TOTAL	1.5 pt/a	A			
	VALOR SX	2 oz/a	A			
	AMS	3.7 % v/v	C			
	TOUCHDOWN TOTAL	24 fl oz/a	C			
8	AMS	2 % v/v	A		99	30.6
	WEEDONE LV4	1 pt/a	A			
	TOUCHDOWN TOTAL	1.5 pt/a	A			
	ENVIVE	3.5 oz/a	A			
	AMS	3.7 % v/v	C			
	TOUCHDOWN TOTAL	24 fl oz/a	C			

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	AMBTR	ERICA	SETFA	AMBTR	ERICA
Pest Scientific Name	Stellaria media	Ambrosia trifi>	Conyza canaden>	Setaria faberi	Ambrosia trifi>	Conyza canaden>
Pest Name	Common chickwe>	Giant ragweed	Mare's tail	Giant foxtail	Giant ragweed	Mare's tail
Crop Code				GLXMA		
BBCH Scale				BSOY		
Crop Scientific Name				Glycine max		
Crop Name				Soybean		
Rating Date	5/29/2008	5/29/2008	5/29/2008	6/17/2008	6/17/2008	6/17/2008
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description				AT C APPL	AT C APPL	AT C APPL
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	47 12	47 12	47 12
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	17 DE-	17 DE-	17 DE-	36 DE-	36 DE-	36 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	8	9	10	11	12	13	14
9	AMS	2	% v/v	A	99	99	99	0	92	93	95
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	SONIC	3	oz/a	A							
	AMS	3.7	% v/v	C							
	TOUCHDOWN TOTAL	24	fl oz/a	C							
10	AMS	2	% v/v	A	99	99	99	0	99	98	96
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	B							
	TOUCHDOWN TOTAL	24	fl oz/a	B							
11	AMS	2	% v/v	A	99	99	99	0	99	99	98
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	B							
	TOUCHDOWN TOTAL	24	fl oz/a	B							
	AMS	3.7	% v/v	D							
	TOUCHDOWN TOTAL	24	fl oz/a	D							
12	AMS	2	% v/v	A	99	99	99	0	95	81	95
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	C							
	TOUCHDOWN TOTAL	24	fl oz/a	C							
13	AMS	2	% v/v	A	99	99	99	0	86	68	95
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	D							
	TOUCHDOWN TOTAL	24	fl oz/a	D							
LSD (P=.05)		0.0			0.0	0.0	0.0	0.0	8.7	18.1	6.6
Standard Deviation		0.0			0.0	0.0	0.0	0.0	5.2	10.8	3.9
CV		0.0			0.0	0.0	0.0	0.0	5.81	13.64	4.52
Bartlett's X2		0.0			0.0	0.0	0.0	0.0	9.022	17.197	8.845
P(Bartlett's X2)		.			.	.	.	.	0.172	0.07	0.356
Replicate F		0.000			0.000	0.000	0.000	0.000	1.827	0.407	0.916
Replicate Prob(F)		1.0000			1.0000	1.0000	1.0000	1.0000	0.1826	0.6704	0.4138
Treatment F		0.000			0.000	0.000	0.000	0.000	81.832	17.638	135.656
Treatment Prob(F)		1.0000			1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	CHEAL	SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name	Ipomoea sp.	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Conyza canadens>	Ipomoea sp.
Pest Name	Morning glory	Common lambsqu>	Giant foxtail	Giant ragweed	Mare's tail	Morning glory
Crop Code			GLXMA			
BBCH Scale			BSOY			
Crop Scientific Name			Glycine max			
Crop Name			Soybean			
Rating Date	6/17/2008	6/17/2008	7/1/2008	7/1/2008	7/1/2008	7/1/2008
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
SE Description	AT C APPL	AT C APPL	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.
Rating Timing	4 WEEK	4 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	47 12	47 12	61 8	61 8	61 8	61 8
Plant-Eval Interval	42 DP-1	42 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	36 DE-	36 DE-	50 DE-	50 DE-	50 DE-	50 DE-
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19	20	21
9	AMS	2	% v/v	A	95	96	0	99	99	99	99
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	SONIC	3	oz/a	A							
	AMS	3.7	% v/v	C							
	TOUCHDOWN TOTAL	24	fl oz/a	C							
10	AMS	2	% v/v	A	91	96	0	99	99	99	99
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	B							
	TOUCHDOWN TOTAL	24	fl oz/a	B							
11	AMS	2	% v/v	A	90	96	0	99	99	99	99
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	B							
	TOUCHDOWN TOTAL	24	fl oz/a	B							
	AMS	3.7	% v/v	D							
	TOUCHDOWN TOTAL	24	fl oz/a	D							
12	AMS	2	% v/v	A	88	95	0	95	99	99	99
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	C							
	TOUCHDOWN TOTAL	24	fl oz/a	C							
13	AMS	2	% v/v	A	75	93	0	86	99	99	99
	WEEDONE LV4	1	pt/a	A							
	TOUCHDOWN TOTAL	1.5	pt/a	A							
	AMS	3.7	% v/v	D							
	TOUCHDOWN TOTAL	24	fl oz/a	D							
LSD (P=.05)					10.6	10.0	0.0	8.0	1.1	0.0	0.0
Standard Deviation					6.3	5.9	0.0	4.7	0.6	0.0	0.0
CV					7.94	7.04	0.0	5.28	0.7	0.0	0.0
Bartlett's X2					4.444	12.634	0.0	5.515	0.0	0.0	0.0
P(Bartlett's X2)					0.925	0.18	.	0.138	.	.	.
Replicate F					2.751	1.517	0.000	1.665	1.000	0.000	0.000
Replicate Prob(F)					0.0840	0.2397	1.0000	0.2102	0.3827	1.0000	1.0000
Treatment F					46.230	56.891	0.000	98.992	5501.688	0.000	0.000
Treatment Prob(F)					0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Conyza canaden>	Ipomoea sp.
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Mare's tail	Morning glory
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Scientific Name		Glycine max			
Crop Name		Soybean			
Rating Date	7/1/2008	7/29/2008	7/29/2008	7/29/2008	7/29/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
SE Description	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	61 8	89 36	89 36	89 36	89 36
Plant-Eval Interval	56 DP-1	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	50 DE-	78 DE-	78 DE-	78 DE-	78 DE-
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Unit	Appl Code	22	23	24	25	26	27
9	AMS	2 % v/v	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	SONIC	3 oz/a	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
10	AMS	2 % v/v	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	B							
	TOUCHDOWN TOTAL	24 fl oz/a	B							
11	AMS	2 % v/v	A		99	0	99	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	B							
	TOUCHDOWN TOTAL	24 fl oz/a	B							
	AMS	3.7 % v/v	D							
	TOUCHDOWN TOTAL	24 fl oz/a	D							
12	AMS	2 % v/v	A		99	0	95	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	C							
	TOUCHDOWN TOTAL	24 fl oz/a	C							
13	AMS	2 % v/v	A		99	0	86	99	99	99
	WEEDONE LV4	1 pt/a	A							
	TOUCHDOWN TOTAL	1.5 pt/a	A							
	AMS	3.7 % v/v	D							
	TOUCHDOWN TOTAL	24 fl oz/a	D							
LSD (P=.05)					0.0	0.0	8.0	1.1	0.0	0.0
Standard Deviation					0.0	0.0	4.7	0.6	0.0	0.0
CV					0.0	0.0	5.28	0.7	0.0	0.0
Bartlett's X2					0.0	0.0	5.515	0.0	0.0	0.0
P(Bartlett's X2)					.	.	0.138	.	.	.
Replicate F					0.000	0.000	1.665	1.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	0.2102	0.3827	1.0000	1.0000
Treatment F					0.000	0.000	98.992	5501.688	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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Conyza canaden>	Ipomoea sp.
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Mare's tail	Morning glory
Crop Code		GLXMA			
BBCH Scale		BSOY			
Crop Scientific Name		Glycine max			
Crop Name		Soybean			
Rating Date	7/29/2008	8/26/2008	8/26/2008	8/26/2008	8/29/2008
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
SE Description	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.	AFTER C APP.
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	89 36	117 64	117 64	117 64	120 67
Plant-Eval Interval	84 DP-1	112 DP-1	112 DP-1	112 DP-1	115 DP-1
Days After Emergence	78 DE-	106 DE	106 DE	106 DE	109 DE
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	28	29	30	31	32	33
9	AMS	2	% v/v	A	99	0	99	99	99	99
	WEEDONE LV4	1	pt/a	A						
	TOUCHDOWN TOTAL	1.5	pt/a	A						
	SONIC	3	oz/a	A						
	AMS	3.7	% v/v	C						
	TOUCHDOWN TOTAL	24	fl oz/a	C						
10	AMS	2	% v/v	A	99	0	99	99	99	99
	WEEDONE LV4	1	pt/a	A						
	TOUCHDOWN TOTAL	1.5	pt/a	A						
	AMS	3.7	% v/v	B						
	TOUCHDOWN TOTAL	24	fl oz/a	B						
11	AMS	2	% v/v	A	99	0	99	99	99	99
	WEEDONE LV4	1	pt/a	A						
	TOUCHDOWN TOTAL	1.5	pt/a	A						
	AMS	3.7	% v/v	B						
	TOUCHDOWN TOTAL	24	fl oz/a	B						
	AMS	3.7	% v/v	D						
	TOUCHDOWN TOTAL	24	fl oz/a	D						
12	AMS	2	% v/v	A	99	0	95	99	99	99
	WEEDONE LV4	1	pt/a	A						
	TOUCHDOWN TOTAL	1.5	pt/a	A						
	AMS	3.7	% v/v	C						
	TOUCHDOWN TOTAL	24	fl oz/a	C						
13	AMS	2	% v/v	A	99	0	86	99	99	99
	WEEDONE LV4	1	pt/a	A						
	TOUCHDOWN TOTAL	1.5	pt/a	A						
	AMS	3.7	% v/v	D						
	TOUCHDOWN TOTAL	24	fl oz/a	D						
LSD (P=.05)		0.0			0.0	0.0	8.0	1.1	0.0	0.0
Standard Deviation		0.0			0.0	0.0	4.7	0.6	0.0	0.0
CV		0.0			0.0	0.0	5.28	0.7	0.0	0.0
Bartlett's X2		0.0			0.0	0.0	5.515	0.0	0.0	0.0
P(Bartlett's X2)		.			.	.	0.138	.	.	.
Replicate F		0.000			0.000	0.000	1.665	1.000	0.000	0.000
Replicate Prob(F)		1.0000			1.0000	1.0000	0.2102	0.3827	1.0000	1.0000
Treatment F		0.000			0.000	0.000	98.992	5501.688	0.000	0.000
Treatment Prob(F)		1.0000			1.0000	1.0000	0.0001	0.0001	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	
Pest Code	CHEAL	
Pest Scientific Name	Chenopodium al>	
Pest Name	Common lambsqu>	
Crop Code		GLXMA
BBCH Scale		BSOY
Crop Scientific Name		Glycine max
Crop Name		Soybean
Rating Date	8/26/2008	
Rating Type	CONTROL	YIELD
Rating Unit	PERCENT	BU/A
Number of Subsamples	1	1
SE Description	AFTER C APP.	13%
Rating Timing	8 WEEK	
Days After First/Last Applic.	117 64	
Plant-Eval Interval	112 DP-1	
Days After Emergence	106 DE	
ARM Action Codes	P	TY1
Number of Decimals	0	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	34	38
9	AMS	2	% v/v	A	99	32.1
	WEEDONE LV4	1	pt/a	A		
	TOUCHDOWN TOTAL	1.5	pt/a	A		
	SONIC	3	oz/a	A		
	AMS	3.7	% v/v	C		
	TOUCHDOWN TOTAL	24	fl oz/a	C		
10	AMS	2	% v/v	A	99	31.3
	WEEDONE LV4	1	pt/a	A		
	TOUCHDOWN TOTAL	1.5	pt/a	A		
	AMS	3.7	% v/v	B		
	TOUCHDOWN TOTAL	24	fl oz/a	B		
11	AMS	2	% v/v	A	99	30.0
	WEEDONE LV4	1	pt/a	A		
	TOUCHDOWN TOTAL	1.5	pt/a	A		
	AMS	3.7	% v/v	B		
	TOUCHDOWN TOTAL	24	fl oz/a	B		
	AMS	3.7	% v/v	D		
	TOUCHDOWN TOTAL	24	fl oz/a	D		
12	AMS	2	% v/v	A	99	31.4
	WEEDONE LV4	1	pt/a	A		
	TOUCHDOWN TOTAL	1.5	pt/a	A		
	AMS	3.7	% v/v	C		
	TOUCHDOWN TOTAL	24	fl oz/a	C		
13	AMS	2	% v/v	A	99	30.5
	WEEDONE LV4	1	pt/a	A		
	TOUCHDOWN TOTAL	1.5	pt/a	A		
	AMS	3.7	% v/v	D		
	TOUCHDOWN TOTAL	24	fl oz/a	D		
LSD (P=.05)					0.0	6.57
Standard Deviation					0.0	3.90
CV					0.0	13.84
Bartlett's X2					0.0	12.87
P(Bartlett's X2)					.	0.379
Replicate F					0.000	3.608
Replicate Prob(F)					1.0000	0.0427
Treatment F					0.000	10.295
Treatment Prob(F)					1.0000	0.0001

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S8028 Protocol ID: HBRM12X4-2008US NT SYN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, = US

STEME, Stellaria media, = US

AMBTR, Ambrosia trifida, = US

ERICA, Conyza canadensis, = US

SETFA, Setaria faberi, = US

IPOSS, Ipomoea sp., = US

CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

Plant-Eval Interval

9 DP-1 = 1 5/6/2008

23 DP-1 = 1 5/6/2008

42 DP-1 = 1 5/6/2008

56 DP-1 = 1 5/6/2008

84 DP-1 = 1 5/6/2008

112 DP-1 = 1 5/6/2008

115 DP-1 = 1 5/6/2008

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = 3.856189*[C36]

Plant and Soil Science, U of KY

Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT VI

Trial ID: S8028 Protocol ID: HBRM12X4-2008US NT SYN
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/1/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3803
BBCH Scale: BSOY **Planting Date:** 5/6/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 60 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008
Harvest Date: 10/2/2008
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 13.0

Pest Description

Pest 1 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettle

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 4 Type: W **Code:** ERICA Conyza canadensis
Common Name: Mare's tail

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

Pest 6 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT² **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Plant and Soil Science, U of KY

Weed Science Research

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C	D
Application Date:	5/1/2008	6/5/2008	6/17/2008	6/23/2008
Time of Day:	10 AM	1 PM	2 PM	4 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	7DBP	2 TR	+ MP	REG
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	89 F	70 F	78 F
% Relative Humidity:	55	52	45	43
Wind Velocity, Unit:	9 MPH	8 MPH	4 MPH	5 MPH
Wind Direction:	SSW	SSW	WNW	W
Soil Temperature, Unit:	55 F	72 F	73 F	71 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	0	0	20

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:	3 TR	5 TR	6 TRI	

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W	LAMPU W
Height, Unit:	6 IN			
Pest 2 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W
Height, Unit:	6 IN			
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	8 IN	10 IN	12 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W	ERICA W	ERICA W
Height, Unit:	2 IN	4 IN	6 IN	8 IN
Pest 5 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:	2 IN	4 IN	5 IN	6 IN
Pest 6 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	2 IN	3 IN	3 IN	4 IN
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	4 IN	6 IN	7 IN	8 IN

Application Equipment

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

Plant and Soil Science, U of KY

Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Description	BEFORE C	LAST RATING	LAST RATING	LAST RATING
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	4 WEEK	6 WEEK	6 WEEK	6 WEEK
Plant-Eval Interval				
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Appl	8	9	10	11	12
No.	Name	Rate Unit	Code					
1	CHECK UNTREATED			0	0	0	0	0
2	VALOR SX	2 oz/a	A	99	0	99	99	99
	IGNITE 280	22 oz/a	B					
	AMS	8.5 lb ai/100 gal	B					
	IGNITE 280	22 oz/a	C					
	AMS	8.5 lb ai/100 gal	C					
3	VALOR XLT	3 oz/a	A	99	0	99	99	99
	IGNITE 280	22 oz/a	B					
	AMS	8.5 lb ai/100 gal	B					
	IGNITE 280	22 oz/a	C					
	AMS	8.5 lb ai/100 gal	C					
4	GANGSTER FR	0.3 oz/a	A	99	0	99	99	99
	GANGSTER V	1.5 oz/a	A					
	IGNITE 280	22 oz/a	B					
	AMS	8.5 lb ai/100 gal	B					
	IGNITE 280	22 oz/a	C					
	AMS	8.5 lb ai/100 gal	C					
5	VALOR SX	2 oz/a	A	99	0	99	99	99
	SENCOR	4.6 oz/a	A					
	IGNITE 280	22 oz/a	B					
	AMS	8.5 lb ai/100 gal	B					
	IGNITE 280	22 oz/a	C					
	AMS	8.5 lb ai/100 gal	C					
6	AUTHORITY FIRST	3.2 oz/a	A	99	0	99	99	99
	IGNITE 280	22 oz/a	B					
	AMS	8.5 lb ai/100 gal	B					
	IGNITE 280	22 oz/a	C					
	AMS	8.5 lb ai/100 gal	C					
7	IGNITE 280	22 oz/a	B	99	0	99	99	99
	AMS	8.5 lb ai/100 gal	B					
	IGNITE 280	22 oz/a	C					
	AMS	8.5 lb ai/100 gal	C					
LSD (P=.05)				0.0	0.0	0.0	0.0	0.0
Standard Deviation				0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0
Bartlett's X2				0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)				.	.	.	.	.
Replicate F				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE LIBERTY LINK

Trial ID: S8029 Protocol ID: HP08NARMRC BAYER
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

CHEAL, *Chenopodium album*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY

Weed Science Research

SOYBEAN POSTEMERGENCE LIBERTY LINK

Trial ID: S8029 Protocol ID: HP08NARMRC BAYER
 Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
 Project ID: Investigator: Charles H Slack
 Sponsor Contact:

General Trial Information

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

Trial Status: C
Initiation Date: 5/7/2008

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter
Research Analyst	Ted Hicks

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SG4388LL
BBCH Scale: BSOY **Planting Date:** 5/7/2008
Planting Method: DRILLE drilled **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 61 F
Soil Moisture: NORMAL normal **Emergence Date:** 5/12/2008

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: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 33 FT
Plot Area, Unit: 330 FT² **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SIL silt loam
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY SILT LOAM
% Clay: 30 **CEC:** 17 **Fert. Level:** E excellent
 Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	5/7/2008	6/4/2008	6/25/2008
Time of Day:	6 PM	6 PM	3 PM
Application Method:	SPRAY	SPRAY	SPRAY

Plant and Soil Science, U of KY

Weed Science Research

Application Timing:	PRE	22 DAY	44 DAY
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	81 F	88 F
% Relative Humidity:	48	58	60
Wind Velocity, Unit:	8 MPH	8 MPH	4 MPH
Wind Direction:	SW	SW	SW
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	80	90	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		UNI	
Height, Unit:	2 IN	8 IN	8 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	2 IN	5 IN	7 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	8 IN	10 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	2 IN	4 IN	6 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	30 IN	30 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