



2016 Herbicide Evaluation Trials

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

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HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
2,4-D AMINE		
2,4-D ESTER		
AATREX	ATRAZINE	SYNGENTA
ABUNDIT EXTRA	GLYPHOSATE	DUPONT
ABUNDIT S	GLYPHOSATE	DUPONT
ACURON	S-METOLACHLOR + ATRAZINE + MESOTRIONE + BICYCLOPYRONE	SYNGENTA
ACURON FLEXI	BICYCLOPYRONE + MESOTRIONE + S-METOLACHLOR	SYNGENTA
ACTIVATOR 90	NON-IONIC SURFACTANT	LOVELAND
AMS	AMMONIUM SULFATE	CLEAN CROP
ANTHEM	PYROXASULFONE + FLUTHIACET-METHYL	FMC
ANTHEM MAXX	PYROXASULFON + FLUTHIACET-METHYL	FMC
ARMEZON	TOPRAMEZONE	BASF
ARMEZON PRO	TOPRAMEZONE + DIMETHANIMID-P	BASF
AUTHORITY ELITE	SULFENTRAZONE + S-METOLACHLOR	FMC
AUTHORITY FIRST	SULFENTRAZONE + CLORANSULAM-METHYL	FMC
AUTHORITY MAXX	SULFENTRAZONE + CHLORIMURON-ETHYL	FMC
AUTHORITY MTZ	SULFENTRAZONE + METRIBUZIN	FMC
AUTHORITY XL	SULFENTRAZONE	FMC
BALANCE FLEXX	ISOXAFLUTOLE	BAYER
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE	SYNGENTA
BOUNDARY	S-METOLACHLOR + METRIBUZIN	SYNGENTA
BROADAXE XC	SULFENTRAZONE + S-METOLACHLOR	SYNGENTA
CADET	FLUTHIACET-METHYL	FMC
CALLISTO	MESOTRIONE	SYNGENTA
CANOPY	METRIBUZIN + CHLORIMURON ETHYL	DUPONT
CANOPY BLEND	METRIBUZIN + CHLORIMURON ETHYL	DUPONT
CAPRENO	THIENCARBOZONE + TEMBOTRIONE	BAYER
CINCH	S-METOLACHLOR	DUPONT
CINCH ATZ	S-METOLACHLOR + ATRAZINE	DUPONT
CLARITY	DICAMBA	BASF
CLASS ACT NG	AMMONIUM SULFATE + CORN SYRUP + ALKYL POLYGLUCOSIDE	WINFIELD
CLASSIC	CHLORIMURON ETHYL	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>
DEGREE XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
DIFLEXX	DICAMBA	BAYER
DILIGENT	FLUMIOXAZIN + RIMSULFURON + CHLORIMURON	DUPONT
DUAL MAGNUM	S-METOLACHLOR	SYNGENTA
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA
DURANGO DMA	GLYPHOSATE	DOW AGROSCIENCE
ENDIGO	LAMBDA-CYHALOTHRIN + THIAMETHOXAM	SYNGENTA
ENVIVE	FLUMIOXAZIN + THIFENSULFURON	DUPONT
EXTREME	IMAZETHAPYR + GLYPHOSATE	DUPONT
FIERCE	FLUMIOXAZIN + PYROXASULFONE	VALENT
FIERCE XLT	FLUMIOXAZIN + PYROXASULFONE + CHLORIMURON	VALENT
FIRSTRATE	CLORANSULAM	DOW AGROSCIENCE
FLEXSTAR	FOMESAFEN	SYNGENTA
FLEXSTAR GT	FOMESAFEN + GLYPHOSATE	SYNGENTA
FULTIME NXT	ACETOCHLOR + ATRAZINE	DOW AGROSCIENCE
GRAMOXONE	PARAQUAT	SYNGENTA
HALEX GT	GLYPHOSATE (PS) + MESOTRIONE + S-METOLACHLOR	SYNGENTA
HARNESS XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
HEADLINE	PYRACLOSTROBIN	BASF
IMPACT	TOPRAMEZONE	AMVAC
INTERLINE	GLUFOSINATE	UNITED PHOSPHORUS INC
INSTIGATE	RIMSULFURON + MESOTRIONE	DUPONT
KFD-195-02		UNITED PHOSPHORUS INC
KFD-277-01		UNITED PHOSPHORUS INC
LAUDIS	TEMBOTRIONE	BAYER
LEADOFF	RIMSULFURON + THIFENSULFURON	DUPONT
LEXAR EZ	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIBERTY 280	GLUFOSINATE AMMONIUM	BAYER
LUMAX EZ	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MARVEL	FLUTHIACET METHYL + FOMESAFEN	FMC
MON 10		MONSANTO
MSO	METHYLATED SEED OIL	LOVELAND
NIS	NON-IONIC SURFACTANT	
NPAK AMS LIQUID	AMMONIUM SULFATE	WINFIELD
OPTILL	SAFLUFENACIL + IMAZETHAPYR	BASF
ORO 009	ALCOHOL ETHOXYLATE	ORO AGRI
ORO 079	ALCOHOL ETHOXYLATE	ORO AGRI
OUTLOOK	DIMETHENAMID-P	BASF
PREFIX	S-METOLACHLOR + BENOXACOR	SYNGENTA

HERBICIDES IN REPORT (CONTINUED)

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
QUADRIS TOP	AZOXYSTROBIN + DIFENOCONAZOLE	SYNGENTA
QUILT XCEL	PROPICONAZOLE + AZOXYSTROBIN	SYNGENTA
REALM Q	RIMSULFURON + MESOTRIONE + SAFENER	DUPONT
RESICORE	ACETOCHLOR + CLOPYRALID + MESOTRIONE	DOW AGROSCIENCE
RESOLVE Q	RIMSULFURON + SAFENER	DUPONT
ROUNDUP POWERMAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROWEL	FLUMIOXAZIN	MONSANTO
ROWEL FX	FLUMIOXAZIN + CHLORIMURON	MONSANTO
SATELLITE HYDROCAP	PENDIMETHALIN	UNITED PHOSPHORUS INC
SCEPTER	IMAZAQUIN	BASF
SELECT MAX	CLETHODIM	VALENT
SENCOR	METRIBUZIN	BAYER
SEQUENCE	GLYPHOSATE + S-METOLACHLOR	SYNGENTA
SHARPEN	SAFLUFENACIL	BASF
SOLSTICE	MESOTRIONE + FLUTHIACET-METHYL	FMC
SONIC	SULFENTRAZONE + CLORANSULAM-METHYL	DOW AGROSCIENCE
STATUS	DIFLUFENZOPYR + DICAMBA	BASF
STEADFAST Q	NICOSULFURON + RIMSULFURON	DUPONT
STINGER	CLOPYRALID	DOW AGROSCIENCE
SURESTART	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SURESTART II	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SURPASS NXT	ACETOCHLOR	DOW AGROSCIENCE
SURVEIL	FLUMIOXAZIN + CLORANSULAM-METHLY	DOW AGROSCIENCE
SYNCHRONY XP	THIFENSULFURON + CHLORIMURON ETHYL	DUPONT
TOPYRALATE		ISK BIOSCIENCES
TRICOR	METRIBUZIN	UNITED PHOSPHORUS INC
TRIPLEFLEX	ACETOCHLOR + CLOPYRALID + FLUMETSULAM	MONSANTO
TRIVAPRO	SOLATENOL + AZOXYSTROBIN + PROPICONAZOLE	SYNGENTA
TRIVENCE	CHLORIMURON + METRIBUZIN + FLUMIOXAZIN	DUPONT
UAN	28% UREA AMMONIUM NITRATE FERTILIZER	
ULTRA BLAZER	ACIFLUORFEN	UNITED PHOSPHORUS INC
VALOR SX	FLUMIOXAZIN	VALENT
VALOR XLT	FLUMIOXAZIN + CHLORIMURON	VALENT
VERDICT	SAFLUFENACIL + DIMETHENAMID-P	BASF
WARRANT	ACETOCHLOR	MONSANTO
WARRANT ULTRA	ACETOCHLOR + FOMESAFEN	MONSANTO
XTENDIMAX WITH VAPORGRIP	DICAMBA + VAPROGRIP TECHNOLOGY	MONSANTO
ZIDUA	PYROXASULFONE	BASF
ZIDUA PRO	PYROXASULFONE + SAFLUFENACIL + IMAZETHAPYR	BASF

DEFINITIONS FOR METHODS OF APPLICATION

PREEMERGENCE

PRE	PREEMERGENCE
INFURROW	IN FURROW

POSTEMERGENCE

EP	EARLY POSTEMERGENCE, WEEDS 0-2"
MP	MID-POSTEMERGENCE, WEEDS 2-4"
+MP	MID-POSTEMERGENCE FOLLOWING A PREEMERGENT
+3"W	3 INCH WEEDS
4"W	4 INCH WEEDS
+4"W	4 INCH WEEDS FOLLOWING A PREEMERGENT
LP	LATE POSTEMERGENCE, WEEDS 4-6"
LLP	LATE LATE POSTEMERGENCE, WEEDS 6-8"
8"W	8 INCH WEEDS
V2	2 COLLAR CORN
V3	THIRD TRIFOLIATE (SOYBEAN), 3 COLLAR CORN
V4	FOURTH TRIFOLIATE (SOYBEAN), 4 COLLAR CORN
12C	12 INCH CORN
12C-MP	12 INCH CORN WITH MID-POSTEMERGENCE WEEDS
MP-V5	MID-POSTEMERGENCE WEEDS WITH V5 CORN
V5	5 UNFOLDED TRIFOLIATES (SOYBEAN), 5 COLLARS (CORN)
14 DAE	14 DAYS AFTER EMERGENCE
28 DAP	28 DAYS AFTER PLANTING
R3	BEGINNING POD ON SOYBEAN

ABBREVIATIONS

Crop and Weed Species

<u>ABBR</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>
AMACH	Smooth Pigweed	<i>Amaranthus hybridus</i>
AMBTR	Giant Ragweed	<i>Ambrosia trifida</i>
CHEAL	Common Lambsquarters	<i>Chenopodium album</i>
ERICA	Marestail	<i>Conyza canadensis</i>
GLXMA	Soybean	<i>Glycine max</i>
IPOSS	Morningglory	<i>Ipomoea sp.</i>
LAMPU	Purple deadnettle	<i>Lamium purpureum</i>
SETFA	Giant Foxtail	<i>Setaria faberi</i>
STEME	Common chickweed	<i>Stellaria media</i>
VIORA	Field pansy	<i>Viola bicolor</i>
ZEAMX	Corn	<i>Zea mays</i>

APRIL CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
04-01-2016	64	47	55	0.01	92	32	56	54	56	55	
04-02-2016	55	35	45		81	30	54	50	55	52	
04-03-2016	60	27	43		78	35	51	47	52	49	
04-04-2016	68	39	53		70	42	53	50	53	51	
04-05-2016	49	33	41		79	37	52	49	52	50	
04-06-2016	65	34	49	0.36	93	38	50	48	51	48	
04-07-2016	49	41	45		89	63	50	48	51	50	
04-08-2016	48	29	38	0.12	94	62	48	46	50	48	
04-09-2016	43	29	36	0.01	87	38	46	44	48	47	
04-10-2016	63	28	45	0.09	77	35	47	44	48	45	
04-11-2016	70	46	58	1.10	97	46	50	47	51	48	
04-12-2016	55	37	46		94	37	52	48	51	50	
04-13-2016	64	35	49		78	34	52	48	51	49	
04-14-2016	70	41	55		68	33	53	49	52	50	
04-15-2016	77	46	61		65	39	56	50	53	50	
04-16-2016	75	51	63		62	31	57	52	54	52	
04-17-2016	81	45	63		76	25	57	52	54	52	
04-18-2016	85	48	66		76	23	58	53	55	52	
04-19-2016	85	52	68		78	29	59	55	56	53	
04-20-2016	85	54	69		82	30	60	56	57	55	
04-21-2016	75	59	67	0.24	94	46	59	58	57	56	
04-22-2016	69	54	61	0.19	95	60	61	58	57	57	
04-23-2016	70	51	60		93	53	62	58	57	56	
04-24-2016	76	42	59		86	36	63	56	57	54	
04-25-2016	82	56	69		76	37	64	58	58	56	
04-26-2016	83	61	72	0.26	98	51	65	60	60	58	
04-27-2016	73	60	66	0.61	98	74	64	62	61	60	
04-28-2016	78	57	67	0.70	98	47	66	62	62	60	
04-29-2016	71	53	62		92	50	65	61	61	59	
04-30-2016	64	57	60	0.28	96	80	64	62	60	60	

Summary for the period 4-1-2016 through 4-30-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	68	45	57	3.97	85	42	56	53	55	53	
(Deviation from normal)	+3	-0	+1	+0.09							

MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
05-01-2016	78	62	70	0.50	97	65	65	61	62	60	
05-02-2016	73	57	65	0.04	93	57	65	63	62	61	
05-03-2016	62	53	57		91	61	64	62	61	60	
05-04-2016	62	44	53	0.37	92	54	62	60	60	59	
05-05-2016	57	41	49	0.03	93	60	60	58	58	57	
05-06-2016	70	44	57		97	38	62	57	59	56	
05-07-2016	79	51	65	0.49	93	47	63	58	60	57	
05-08-2016	69	52	60	0.07	95	47	62	61	60	59	
05-09-2016	74	55	64	0.05	96	62	63	60	61	59	
05-10-2016	78	60	69	2.26	97	59	66	62	64	61	
05-11-2016	84	59	71	0.32	97	58	69	63	67	62	
05-12-2016	81	61	71	0.92	96	58	70	66	68	64	
05-13-2016	70	55	62		96	49	69	66	68	64	
05-14-2016	59	45	52	0.06	94	60	67	63	66	62	
05-15-2016	62	43	52		81	41	64	60	63	59	
05-16-2016	61	37	49	0.01	83	37	62	59	61	58	
05-17-2016	53	48	50	0.77	97	84	61	59	60	58	
05-18-2016	65	50	57	0.30	97	61	60	58	60	58	
05-19-2016	71	46	58		95	43	62	58	63	58	
05-20-2016	66	52	59	1.38	97	68	61	59	61	59	
05-21-2016	65	54	59	0.10	98	76	62	60	62	61	
05-22-2016	77	48	62		98	36	64	59	65	59	
05-23-2016	76	47	61		96	42	65	60	67	60	
05-24-2016	83	54	68		87	31	67	61	68	62	
05-25-2016	83	60	71		82	49	67	64	68	64	
05-26-2016	81	64	72	1.49	96	70	68	66	69	66	
05-27-2016	87	62	74	0.01	98	52	70	66	72	66	
05-28-2016	86	67	76		90	45	71	68	73	68	
05-29-2016	87	68	77		90	46	72	69	74	69	
05-30-2016	86	66	76		95	46	72	69	74	69	
05-31-2016	86	62	74		95	41	72	68	73	69	

Summary for the period 5-1-2016 through 5-31-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	73	54	64	9.17	94	53	65	62	65	61	
(Deviation from normal)	-3	-1	-2	+4.70							

JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
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06-01-2016	89	64	76	0.55	96	44	76	68	74	69	
06-02-2016	83	66	74	0.80	97	57	75	72	74	71	
06-03-2016	85	64	74	0.01	98	56	76	71	74	70	
06-04-2016	86	68	77	1.34	96	59	76	72	74	71	
06-05-2016	81	66	73	0.03	97	51	76	73	74	71	
06-06-2016	84	61	72		92	47	77	71	74	70	
06-07-2016	78	59	68	0.02	91	39	75	72	73	70	
06-08-2016	76	53	64		92	34	74	69	71	68	
06-09-2016	82	53	67		89	30	74	68	71	66	
06-10-2016	88	59	73		90	37	74	69	72	67	
06-11-2016	91	67	79		84	38	77	70	74	69	
06-12-2016	92	70	81		89	46	77	72	74	70	
06-13-2016	87	63	75		79	32	77	72	74	71	
06-14-2016	91	63	77	0.15	95	33	76	71	74	70	
06-15-2016	90	66	78	0.25	95	59	77	73	75	72	
06-16-2016	94	64	79		96	38	78	72	75	72	
06-17-2016	81	65	73		90	60	76	73	74	72	
06-18-2016	86	66	76		89	36	76	71	75	71	
06-19-2016	89	65	77		79	41	78	71	75	71	
06-20-2016	91	73	82		75	45	79	73	76	72	
06-21-2016	89	70	79	0.88	86	49	78	75	76	73	
06-22-2016	85	71	78	0.76	95	66	76	74	74	73	
06-23-2016	92	72	82	0.23	95	62	79	74	76	74	
06-24-2016	88	70	79		97	49	78	75	76	74	
06-25-2016	92	66	79		97	41	79	74	77	73	
06-26-2016	94	69	81		92	44	80	74	77	73	
06-27-2016	88	73	80	0.07	88	54	79	76	77	75	
06-28-2016	88	68	78		86	40	79	74	77	74	
06-29-2016	81	59	70		87	41	76	73	76	72	
06-30-2016	84	57	70		95	35	75	70	75	71	

Summary for the period 6-1-2016 through 6-30-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
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	87	65	76	5.09	91	45	77	72	75	71	
(Deviation from normal)+	4	+3	+3	+1.43							

JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
07-01-2016	83	65	74	0.05	89	55	74	71	75	72	
07-02-2016	84	60	72		80	37	75	70	75	71	
07-03-2016	74	68	71	0.62	96	76	73	71	74	72	
07-04-2016	78	69	73	1.28	97	87	72	71	73	72	
07-05-2016	87	73	80	0.18	96	64	75	72	77	72	
07-06-2016	89	73	81		95	56	77	74	78	75	
07-07-2016	85	70	77	0.07	96	63	76	74	77	74	
07-08-2016	82	73	77	0.36	93	76	75	74	76	75	
07-09-2016	83	70	76		90	52	76	74	77	74	
07-10-2016	86	64	75		97	43	76	72	78	73	
07-11-2016	90	67	78		95	42	76	73	78	74	
07-12-2016	81	72	76	0.43	95	74	75	74	77	75	
07-13-2016	90	74	82	0.08	92	55	77	73	79	74	
07-14-2016	88	73	80		95	60	77	74	79	76	
07-15-2016	90	69	79	0.12	95	44	78	74	80	75	
07-16-2016	87	69	78	0.01	96	50	78	74	79	75	
07-17-2016	91	65	78		97	48	78	74	80	75	
07-18-2016	89	73	81		85	48	77	75	78	76	
07-19-2016	93	69	81		94	49	79	74	80	75	
07-20-2016	93	70	81	0.80	94	42	79	75	80	76	
07-21-2016	94	69	81		96	43	80	74	80	75	
07-22-2016	90	75	82		88	60	79	76	80	77	
07-23-2016	93	71	82		96	49	81	75	81	76	
07-24-2016	96	76	86		91	45	81	77	82	78	
07-25-2016	93	75	84	1.15	93	57	80	78	80	78	
07-26-2016	93	73	83		97	57	81	77	81	78	
07-27-2016	91	72	81		96	59	81	77	81	78	
07-28-2016	81	71	76	2.07	97	80	80	77	80	78	
07-29-2016	86	72	79	0.01	95	60	79	76	80	77	
07-30-2016	87	70	78	0.20	96	58	78	76	79	77	
07-31-2016	88	69	78		97	51	78	76	79	77	

Summary for the period 7-1-2016 through 7-31-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
	88	70	79	7.43	94	56	77	74	78	75	
(Deviation from normal)+2	+2	+6	+4	+2.43							

AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
08-01-2016	86	69	77	0.27	96	63	78	76	78	77	
08-02-2016	88	73	80		96	59	79	76	79	77	
08-03-2016	92	69	80		97	46	79	76	80	77	
08-04-2016	91	72	81	0.20	95	55	79	77	80	78	
08-05-2016	91	70	80		98	53	79	76	80	77	
08-06-2016	86	72	79	0.25	95	55	79	77	79	78	
08-07-2016	87	65	76		94	45	78	75	78	76	
08-08-2016	88	65	76		91	50	77	74	78	75	
08-09-2016	90	71	80	0.05	96	59	77	75	78	76	
08-10-2016	92	74	83		96	52	78	76	79	77	
08-11-2016	91	76	83		90	56	78	76	79	77	
08-12-2016	93	78	85		85	53	79	77	79	78	
08-13-2016	88	78	83		88	60	78	77	79	78	
08-14-2016	88	73	80	0.25	93	58	78	76	78	77	
08-15-2016	91	73	82	0.04	94	50	78	76	79	77	
08-16-2016	86	74	80	0.38	94	65	77	76	78	77	
08-17-2016	80	73	76	0.85	97	82	76	76	77	77	
08-18-2016	82	72	77	0.02	97	72	76	75	78	76	
08-19-2016	87	72	79		97	55	77	75	78	76	
08-20-2016	82	70	76	0.84	97	76	76	75	78	76	
08-21-2016	81	64	72	0.08	96	42	76	74	77	76	
08-22-2016	82	58	70		97	44	75	72	76	73	
08-23-2016	86	58	72		94	36	74	71	76	72	
08-24-2016	90	67	78		87	54	75	72	77	74	
08-25-2016	90	72	81		93	49	80	76			
08-26-2016	97	67	82		87	37	78	72	80	74	
08-27-2016	96	72	84		92	45	77	74	80	77	
08-28-2016	95	71	83	0.74	96	55	77	75	79	77	
08-29-2016	91	69	80		97	59	77	74	79	76	
08-30-2016	93	70	81		95	46	78	74	80	77	
08-31-2016	89	67	78	0.40	97	58	76	74	78	76	

Summary for the period 8-1-2016 through 8-31-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	89	70	79	4.37	94	54	77	75	78	76	
(Deviation from normal)	+5	+8	+6	+0.44							

SEPTEMBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
09-01-2016	81	63	72	0.01	98	51	75	74	77	76	
09-02-2016	80	60	70		93	41	73	71	75	73	
09-03-2016	82	58	70		93	39	73	70	75	72	
09-04-2016	89	56	72		94	35	73	69	75	71	
09-05-2016	93	64	78		82	35	74	70	76	72	
09-06-2016	93	69	81		84	35	75	71	77	73	
09-07-2016	94	70	82		87	40	76	72	77	74	
09-08-2016	92	74	83		79	46	75	73	77	75	
09-09-2016	87	73	80		87	61	75	73	77	75	
09-10-2016	92	68	80	0.21	96	41	75	73	77	74	
09-11-2016	81	58	69	0.01	98	35	74	71	76	72	
09-12-2016	87	54	70		91	28	73	69	75	70	
09-13-2016	90	56	73		95	32	73	69	75	70	
09-14-2016	91	60	75		90	34	74	69	75	71	
09-15-2016	90	68	79		96	42	75	72	76	73	
09-16-2016	95	65	80	0.30	96	35	75	72	76	73	
09-17-2016	81	70	75	0.45	96	60	74	72	75	74	
09-18-2016	85	71	78		96	55	75	72	77	74	
09-19-2016	88	64	76		98	38	76	72	76	74	
09-20-2016	89	59	74		97	34	74	70	75	72	
09-21-2016	91	59	75		93	30	74	70	74	71	
09-22-2016	94	61	77		87	30	74	70	75	71	
09-23-2016	93	63	78		92	34	74	70	75	71	
09-24-2016	92	65	78		94	38	74	71	75	72	
09-25-2016	90	65	77		94	43	74	71	75	72	
09-26-2016	72	53	62	0.31	94	67	73	69	74	70	
09-27-2016	77	51	64		97	26	69	66	70	67	
09-28-2016	75	53	64	0.80	97	39	67	65	68	66	
09-29-2016	66	50	58	0.08	98	58	66	63	67	65	
09-30-2016	67	54	60	0.01	97	56	66	64	68	66	

Summary for the period 9-1-2016 through 9-30-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	86	62	74	2.18	93	41	73	70	75	72	
(Deviation from normal)+9	+9	+6	+8	-1.02							

OCTOBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
10-01-2016	70	55	62	0.08	96	66	66	64	67	66	
10-02-2016	73	60	66		97	63	67	65	69	66	
10-03-2016	80	54	67		98	41	68	64	69	66	
10-04-2016	83	57	70		94	49	68	64	69	66	
10-05-2016	86	61	73		86	36	69	66	70	67	
10-06-2016	86	60	73		79	37	70	66	70	67	
10-07-2016	84	52	68		93	35	69	65	70	66	
10-08-2016	73	52	62		88	25	67	65	68	66	
10-09-2016	73	42	57		92	35	65	62	66	63	
10-10-2016	73	45	59		89	37	65	61	65	62	
10-11-2016	80	47	63		85	28	64	61	65	62	
10-12-2016	81	55	68		73	29	64	61	66	62	
10-13-2016	70	47	58		89	52	64	62	66	64	
10-14-2016	68	44	56		94	58	62	60	64	61	
10-15-2016	82	61	71		87	42	65	62	66	63	
10-16-2016	84	61	72		83	42	66	62	67	64	
10-17-2016	85	63	74		85	42	67	63	68	65	
10-18-2016	86	67	76		74	41	67	65	69	66	
10-19-2016	88	67	77		86	43	69	66	70	68	
10-20-2016	71	55	63	0.21	97	83	67	66	69	67	
10-21-2016	58	46	52	0.03	96	60	66	61	67	63	
10-22-2016	60	41	50	0.02	95	40	61	59	63	60	
10-23-2016	74	45	59	0.01	72	37	60	56	62	58	
10-24-2016	70	47	58		76	35	61	58	63	60	
10-25-2016	67	38	52		95	32	60	56	61	58	
10-26-2016	78	43	60		82	36	60	56	61	58	
10-27-2016	68	45	56	0.02	96	54	60	59	62	61	
10-28-2016	74	40	57		98	37	60	56	61	58	
10-29-2016	82	57	69		71	36	61	57	63	59	
10-30-2016	82	57	69		83	39	63	59	64	61	
10-31-2016	74	54	64		86	58	63	61	65	62	

Summary for the period 10-1-2016 through 10-31-2016:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	76	52	64	0.37	88	43	65	62	66	63	
(Deviation from normal)	+9	+7	+8	-2.20							

APRIL-OCTOBER SUMMARY

----- AIR TEMPERATURE -----											-- SOD --	
YEAR	MONTH	AVERAGE			EXTREME		AVG DEPART FROM NORM	NO. OF DAYS		4" TEMP AVERAGE		
		MAX	MIN	AVG	MAX	MIN		MAX	MIN	MAX	MIN	
2016	Apr	68	45	57	85	27	+2	0	4	56	53	
2016	May	73	54	64	87	37	-0	0	0	65	62	
2016	Jun	87	65	76	94	53	+4	9	0	77	72	
2016	Jul	88	70	79	96	60	+3	13	0	77	74	
2016	Aug	89	70	79	97	58	+4	15	0	77	75	
2016	Sep	86	62	74	95	50	+6	14	0	73	70	
2016	Oct	76	53	65	88	38	+8	0	0	65	62	

----- PRECIPITATION -----										
YEAR	MONTH	DEPARTURE		CUMULATIVE		GREATEST		% RAIN DAYS	NO. DAYS >=.01	
		TOTAL	FROM NORMAL	TOTAL	DEPARTURE	24 HOUR TOTAL				
2016	Apr	3.97	+0.09	3.97	+0.09	1.10	40	12		
2016	May	9.17	+4.70	13.14	+4.79	2.26	58	18		
2016	Jun	5.09	+1.43	18.23	+6.22	1.34	40	12		
2016	Jul	7.43	+2.43	25.66	+8.65	2.07	48	15		
2016	Aug	4.37	+0.44	30.03	+9.09	0.85	42	13		
2016	Sep	2.18	-1.02	32.21	+8.07	0.80	30	9		
2016	Oct	0.35	-2.22	32.56	+5.85	0.21	16	5		

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NO-TILL CORN

Trial ID: C16001
 Protocol ID: SYN-CORN1-NT
 Project ID:

Location: LEXINGTON, KY Trial Year: 2016
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/22/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK
Days After First/Last Applic.	29 29	29 0	29 0	29 0	43 14
Trt-Eval Interval	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5
		Rate Unit						
1	GRAMOXONE	3 PT/A	PRE	0	99	87	89	0
	ACURON	2.5 QT/A	PRE					
	AATREX	1.5 PT/A	PRE					
2	GRAMOXONE	3 PT/A	PRE	0	99	89	89	0
	ACURON	2.5 QT/A	PRE					
3	GRAMOXONE	3 PT/A	PRE	0	99	95	95	0
	ACURON	1.5 QT/A	PRE					
	HALEX GT	3.6 PT/A	12C					
	AATREX	1.5 PT/A	12C					
	NIS	0.25 % V/V	12C					
4	GRAMOXONE	3 PT/A	PRE	0	99	88	90	0
	ACURON	1.25 QT/A	PRE					
	ACURON	1.25 QT/A	12C					
5	GRAMOXONE	3 PT/A	PRE	0	90	88	88	0
	ACURON	1.25 QT/A	PRE					
	ACURON	1.25 QT/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	GRAMOXONE	3 PT/A	PRE	0	95	95	95	0
	LEADOFF		PRE					
	AATREX	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
7	GRAMOXONE	3 PT/A	PRE	0	70	70	70	0
	CINCH ATZ	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					

Could not calculate LSD (% mean diff) for columns 1,2,5,6,9,10,13,14 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/22/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK
Days After First/Last Applic.	29 29	29 0	29 0	29 0	43 14
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5
8	GRAMOXONE	3 PT/A		PRE	0	99	90	90	0
	SURESTART II	2.5 PT/A		PRE					
	AATREX	1 QT/A		PRE					
	DURANGO DMA	1 QT/A		12C					
	AMS	2.5 % V/V		12C					
9	GRAMOXONE	3 PT/A		PRE	0	99	95	95	0
	RESICORE	2.5 QT/A		PRE					
	AATREX	1 QT/A		PRE					
	DURANGO DMA	1 QT/A		12C					
	AMS	2.5 % V/V		12C					
10	GRAMOXONE	3 PT/A		PRE	0	99	99	99	0
	CORVUS	5.6 OZ/A		PRE					
	AATREX	2 LB AI/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		12C					
	AMS	2.5 % V/V		12C					
11	GRAMOXONE	3 PT/A		PRE	0	99	90	90	0
	CORVUS	3 OZ/A		PRE					
	ATRAZINE	1.5 LB AI/A		PRE					
	CAPRENO HERBICIDE	3 OZ/A		12C					
	AATREX	1 LB AI/A		12C					
	ROUNDUP POWERMAX	32 FL OZ/A		12C					
	AMS	2.5 % V/V		12C					
12	GRAMOXONE	3 PT/A		PRE	0	99	85	85	0
	ZIDUA	5 OZ/A		PRE					
	SHARPEN	2 OZ/A		PRE					
	MSO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	STATUS	5 OZ/A		12C					
	ATRAZINE	32 FL OZ/A		12C					
	NIS	0.25 % V/V		12C					
	AMS	8.5 LB AI/100 GAL		12C					
13	GRAMOXONE	3 PT/A		PRE	0	99	95	95	0
	VERDICT	18 FL OZ/A		PRE					
	MSO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	STATUS	5 OZ/A		12C					
	ZIDUA	5 OZ/A		12C					
	NIS	0.25 % V/V		12C					
	AMS	8.5 LB AI/100 GAL		12C					

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/22/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK
Days After First/Last Applic.	29 29	29 0	29 0	29 0	43 14
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5
14	GRAMOXONE	3 PT/A		PRE	0	99	95	95	0
	HARNESS XTRA	3.9 LB AI/A		PRE					
	ROUNDUP POWERMAX	1.13 LB AE/A		12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C					
15	GRAMOXONE	3 PT/A		PRE	0	99	60	60	0
	DEGREE XTRA	3 LB AI/A		PRE					
	ROUNDUP POWERMAX	1.13 LB AE/A		12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C					
16	GRAMOXONE	3 PT/A		PRE	0	99	90	90	0
	ANTHEM MAXX	3 OZ/A		PRE					
	SOLSTICE	2.5 OZ AI/A		12C					
	ATRAZINE	1 LB AI/A		12C					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	COC	1 % V/V		12C					
17	GRAMOXONE	3 PT/A		PRE	0	95	80	80	0
	ANTHEM MAXX	2.5 OZ/A		PRE					
	ATRAZINE	1 LB AI/A		PRE					
	SOLSTICE	2.5 OZ/A		12C					
	ATRAZINE	1 LB AI/A		12C					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	COC	1 % V/V		12C					
18	GRAMOXONE	3 PT/A		PRE	0	99	90	90	0
	HARNESS XTRA	3.6 PT/A		PRE					
	IMPACT	0.75 FL OZ/A		12C					
	ATRAZINE	1 PT/A		12C					
	MSO	1 % V/V		12C					
	UAN-28%	2.5 % V/V		12C					
19	GRAMOXONE	3 PT/A		PRE	0	99	95	95	0
	HARNESS XTRA	3.6 PT/A		PRE					
	IMPACT	0.75 FL OZ/A		12C					
	STATUS	3 OZ/A		12C					
	ATRAZINE	1 PT/A		12C					
	MSO	1 % V/V		12C					
	UAN-28%	2.5 % V/V		12C					
20	GRAMOXONE	3 PT/A		PRE	0	99	80	80	0
	LEXAR EZ	1.5 QT/A		PRE					
	LEXAR EZ	1.5 QT/A		12C					
	AATREX	1 LB AI/A		12C					
	COC	1 % V/V		12C					

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/22/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK
Days After First/Last Applic.	29 29	29 0	29 0	29 0	43 14
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	1	2	3	4	5
21 CHECK			0	0	0	0	0
LSD P=.05			.	.	0.8	0.6	.
Standard Deviation			0.0	0.0	0.5	0.4	0.0
CV			0.0	0.0	0.55	0.42	0.0
Replicate F			0.000	0.000	0.526	1.538	0.000
Replicate Prob(F)			1.0000	1.0000	0.5948	0.2271	1.0000
Treatment F			0.000	0.000	6410.828	10973.463	0.000
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	6/22/2016	6/22/2016	6/22/2016	7/6/2016
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	43 14	43 14	43 14	57 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Growth Stage	6	7	8	9	10
1	GRAMOXONE	3 PT/A	PRE	99	87	89	0	99
	ACURON	2.5 QT/A	PRE					
	AATREX	1.5 PT/A	PRE					
2	GRAMOXONE	3 PT/A	PRE	99	89	89	0	99
	ACURON	2.5 QT/A	PRE					
3	GRAMOXONE	3 PT/A	PRE	99	95	95	0	99
	ACURON	1.5 QT/A	PRE					
	HALEX GT	3.6 PT/A	12C					
	AATREX	1.5 PT/A	12C					
	NIS	0.25 % V/V	12C					
4	GRAMOXONE	3 PT/A	PRE	99	88	90	0	99
	ACURON	1.25 QT/A	PRE					
	ACURON	1.25 QT/A	12C					
5	GRAMOXONE	3 PT/A	PRE	90	88	88	0	90
	ACURON	1.25 QT/A	PRE					
	ACURON	1.25 QT/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	GRAMOXONE	3 PT/A	PRE	95	95	95	0	95
	LEADOFF		PRE					
	AATREX	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
7	GRAMOXONE	3 PT/A	PRE	70	70	70	0	70
	CINCH ATZ	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	6/22/2016	6/22/2016	6/22/2016	7/6/2016
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	43 14	43 14	43 14	57 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
8	GRAMOXONE	3	PT/A	PRE	99	90	90	0	99
	SURESTART II	2.5	PT/A	PRE					
	AATREX	1	QT/A	PRE					
	DURANGO DMA	1	QT/A	12C					
	AMS	2.5	% V/V	12C					
9	GRAMOXONE	3	PT/A	PRE	99	95	95	0	99
	RESICORE	2.5	QT/A	PRE					
	AATREX	1	QT/A	PRE					
	DURANGO DMA	1	QT/A	12C					
	AMS	2.5	% V/V	12C					
10	GRAMOXONE	3	PT/A	PRE	99	99	99	0	99
	CORVUS	5.6	OZ/A	PRE					
	AATREX	2	LB AI/A	PRE					
	ROUNDUP POWERMAX	32	FL OZ/A	12C					
	AMS	2.5	% V/V	12C					
11	GRAMOXONE	3	PT/A	PRE	99	90	90	0	99
	CORVUS	3	OZ/A	PRE					
	ATRAZINE	1.5	LB AI/A	PRE					
	CAPRENO HERBICIDE	3	OZ/A	12C					
	AATREX	1	LB AI/A	12C					
	ROUNDUP POWERMAX	32	FL OZ/A	12C					
	AMS	2.5	% V/V	12C					
12	GRAMOXONE	3	PT/A	PRE	99	85	85	0	99
	ZIDUA	5	OZ/A	PRE					
	SHARPEN	2	OZ/A	PRE					
	MSO	1	% V/V	PRE					
	AMS	8.5	LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22	FL OZ/A	12C					
	STATUS	5	OZ/A	12C					
	ATRAZINE	32	FL OZ/A	12C					
	NIS	0.25	% V/V	12C					
	AMS	8.5	LB AI/100 GAL	12C					
13	GRAMOXONE	3	PT/A	PRE	99	95	95	0	99
	VERDICT	18	FL OZ/A	PRE					
	MSO	1	% V/V	PRE					
	AMS	8.5	LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22	FL OZ/A	12C					
	STATUS	5	OZ/A	12C					
	ZIDUA	5	OZ/A	12C					
	NIS	0.25	% V/V	12C					
	AMS	8.5	LB AI/100 GAL	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	6/22/2016	6/22/2016	6/22/2016	7/6/2016
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	43 14	43 14	43 14	57 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Growth Stage	6	7	8	9	10
14	GRAMOXONE	3 PT/A	PRE	99	95	95	0	99
	HARNESS XTRA	3.9 LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
15	GRAMOXONE	3 PT/A	PRE	99	60	60	0	99
	DEGREE XTRA	3 LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
16	GRAMOXONE	3 PT/A	PRE	99	90	90	0	99
	ANTHEM MAXX	3 OZ/A	PRE					
	SOLSTICE	2.5 OZ AI/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
17	GRAMOXONE	3 PT/A	PRE	95	80	80	0	95
	ANTHEM MAXX	2.5 OZ/A	PRE					
	ATRAZINE	1 LB AI/A	PRE					
	SOLSTICE	2.5 OZ/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
18	GRAMOXONE	3 PT/A	PRE	99	90	90	0	99
	HARNESS XTRA	3.6 PT/A	PRE					
	IMPACT	0.75 FL OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MISO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					
19	GRAMOXONE	3 PT/A	PRE	99	95	95	0	99
	HARNESS XTRA	3.6 PT/A	PRE					
	IMPACT	0.75 FL OZ/A	12C					
	STATUS	3 OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MISO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					
20	GRAMOXONE	3 PT/A	PRE	99	80	80	0	99
	LEXAR EZ	1.5 QT/A	PRE					
	LEXAR EZ	1.5 QT/A	12C					
	AATREX	1 LB AI/A	12C					
	COC	1 % V/V	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	6/22/2016	6/22/2016	6/22/2016	7/6/2016
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	43 14	43 14	43 14	57 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Growth	6	7	8	9	10
No. Name	Rate Unit	Stage					
21 CHECK			0	0	0	0	0
LSD P=.05			.	0.8	0.6	.	.
Standard Deviation			0.0	0.5	0.4	0.0	0.0
CV			0.0	0.55	0.42	0.0	0.0
Replicate F			0.000	0.526	1.538	0.000	0.000
Replicate Prob(F)			1.0000	0.5948	0.2271	1.0000	1.0000
Treatment F			0.000	6410.828	10973.463	0.000	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	SETFA	AMBTR
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed
Crop Code			ZEAMX	
Crop Name			Corn	
Rating Date	7/6/2016	7/6/2016	8/3/2016	8/3/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 28	57 28	85 56	85 56
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	50 DE-1	50 DE-1	78 DE-1	78 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15
1	GRAMOXONE	3 PT/A		PRE	87	89	0	99	87
	ACURON	2.5 QT/A		PRE					
	AATREX	1.5 PT/A		PRE					
2	GRAMOXONE	3 PT/A		PRE	89	89	0	99	89
	ACURON	2.5 QT/A		PRE					
3	GRAMOXONE	3 PT/A		PRE	95	95	0	99	95
	ACURON	1.5 QT/A		PRE					
	HALEX GT	3.6 PT/A		12C					
	AATREX	1.5 PT/A		12C					
	NIS	0.25 % V/V		12C					
4	GRAMOXONE	3 PT/A		PRE	88	90	0	99	88
	ACURON	1.25 QT/A		PRE					
	ACURON	1.25 QT/A		12C					
5	GRAMOXONE	3 PT/A		PRE	88	88	0	90	88
	ACURON	1.25 QT/A		PRE					
	ACURON	1.25 QT/A		12C					
	ROUNDUP POWERMAX	32 FL OZ/A		12C					
6	GRAMOXONE	3 PT/A		PRE	95	95	0	95	95
	LEADOFF			PRE					
	AATREX	1 QT/A		PRE					
	REALM Q			12C					
	ABUNDIT S	32 FL OZ/A		12C					
	ATRAZINE	1.5 QT/A		12C					
	NIS	0.25 % V/V		12C					
7	GRAMOXONE	3 PT/A		PRE	70	70	0	70	70
	CINCH ATZ	1 QT/A		PRE					
	REALM Q			12C					
	ABUNDIT S	32 FL OZ/A		12C					
	ATRAZINE	1.5 QT/A		12C					
	NIS	0.25 % V/V		12C					

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Pest Type	W Weed	W Weed		W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA	AMBTR
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed
Crop Code			ZEAMX		
Crop Name			Corn		
Rating Date	7/6/2016	7/6/2016	8/3/2016	8/3/2016	8/3/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 28	57 28	85 56	85 56	85 56
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	50 DE-1	50 DE-1	78 DE-1	78 DE-1	78 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Growth Stage	11	12	13	14	15
8	GRAMOXONE	3 PT/A	PRE	90	90	0	99	90
	SURESTART II	2.5 PT/A	PRE					
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
9	GRAMOXONE	3 PT/A	PRE	95	95	0	99	95
	RESICORE	2.5 QT/A	PRE					
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
10	GRAMOXONE	3 PT/A	PRE	99	99	0	99	99
	CORVUS	5.6 OZ/A	PRE					
	AATREX	2 LB AI/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					
11	GRAMOXONE	3 PT/A	PRE	90	90	0	99	90
	CORVUS	3 OZ/A	PRE					
	ATRAZINE	1.5 LB AI/A	PRE					
	CAPRENO HERBICIDE	3 OZ/A	12C					
	AATREX	1 LB AI/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					
12	GRAMOXONE	3 PT/A	PRE	85	85	0	99	85
	ZIDUA	5 OZ/A	PRE					
	SHARPEN	2 OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	STATUS	5 OZ/A	12C					
	ATRAZINE	32 FL OZ/A	12C					
	NIS	0.25 % V/V	12C					
	AMS	8.5 LB AI/100 GAL	12C					
13	GRAMOXONE	3 PT/A	PRE	95	95	0	99	95
	VERDICT	18 FL OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	STATUS	5 OZ/A	12C					
	ZIDUA	5 OZ/A	12C					
	NIS	0.25 % V/V	12C					
	AMS	8.5 LB AI/100 GAL	12C					

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Pest Type	W Weed	W Weed		W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA	AMBTR
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed
Crop Code			ZEAMX		
Crop Name			Corn		
Rating Date	7/6/2016	7/6/2016	8/3/2016	8/3/2016	8/3/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 28	57 28	85 56	85 56	85 56
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	50 DE-1	50 DE-1	78 DE-1	78 DE-1	78 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Growth Stage	11	12	13	14	15
14	GRAMOXONE	3 PT/A	PRE	95	95	0	99	95
	HARNESS XTRA	3.9 LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
15	GRAMOXONE	3 PT/A	PRE	60	60	0	99	60
	DEGREE XTRA	3 LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
16	GRAMOXONE	3 PT/A	PRE	90	90	0	99	90
	ANTHEM MAXX	3 OZ/A	PRE					
	SOLSTICE	2.5 OZ AI/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
17	GRAMOXONE	3 PT/A	PRE	80	80	0	95	80
	ANTHEM MAXX	2.5 OZ/A	PRE					
	ATRAZINE	1 LB AI/A	PRE					
	SOLSTICE	2.5 OZ/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
18	GRAMOXONE	3 PT/A	PRE	90	90	0	99	90
	HARNESS XTRA	3.6 PT/A	PRE					
	IMPACT	0.75 FL OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MISO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					
19	GRAMOXONE	3 PT/A	PRE	95	95	0	99	95
	HARNESS XTRA	3.6 PT/A	PRE					
	IMPACT	0.75 FL OZ/A	12C					
	STATUS	3 OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MISO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					
20	GRAMOXONE	3 PT/A	PRE	80	80	0	99	80
	LEXAR EZ	1.5 QT/A	PRE					
	LEXAR EZ	1.5 QT/A	12C					
	AATREX	1 LB AI/A	12C					
	COC	1 % V/V	12C					

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Pest Type	W Weed	W Weed		W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA	AMBTR
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed
Crop Code			ZEAMX		
Crop Name			Corn		
Rating Date	7/6/2016	7/6/2016	8/3/2016	8/3/2016	8/3/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 28	57 28	85 56	85 56	85 56
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	50 DE-1	50 DE-1	78 DE-1	78 DE-1	78 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	11	12	13	14	15
21 CHECK			0	0	0	0	0
LSD P=.05			0.8	0.6	.	.	0.8
Standard Deviation			0.5	0.4	0.0	0.0	0.5
CV			0.55	0.42	0.0	0.0	0.55
Replicate F			0.526	1.538	0.000	0.000	0.526
Replicate Prob(F)			0.5948	0.2271	1.0000	1.0000	0.5948
Treatment F			6410.828	10973.463	0.000	0.000	6410.828
Treatment Prob(F)			0.0001	0.0001	1.0000	1.0000	0.0001

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
Crop Name	Corn
Rating Date	8/3/2016
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Number of Subsamples	1 1
Rating Timing	8 WEEK
Days After First/Last Applic.	85 56
Trt-Eval Interval	AFTER POST
Days After Emergence	78 DE-1
ARM Action Codes	P TY1
Number of Decimals	0 0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	16	21
1	GRAMOXONE	3 PT/A		PRE	89	105
	ACURON	2.5 QT/A		PRE		
	AATREX	1.5 PT/A		PRE		
2	GRAMOXONE	3 PT/A		PRE	89	125
	ACURON	2.5 QT/A		PRE		
3	GRAMOXONE	3 PT/A		PRE	95	183
	ACURON	1.5 QT/A		PRE		
	HALEX GT	3.6 PT/A		12C		
	AATREX	1.5 PT/A		12C		
	NIS	0.25 % V/V		12C		
4	GRAMOXONE	3 PT/A		PRE	90	177
	ACURON	1.25 QT/A		PRE		
	ACURON	1.25 QT/A		12C		
5	GRAMOXONE	3 PT/A		PRE	88	180
	ACURON	1.25 QT/A		PRE		
	ACURON	1.25 QT/A		12C		
	ROUNDUP POWERMAX	32 FL OZ/A		12C		
6	GRAMOXONE	3 PT/A		PRE	95	151
	LEADOFF			PRE		
	AATREX	1 QT/A		PRE		
	REALM Q			12C		
	ABUNDIT S	32 FL OZ/A		12C		
	ATRAZINE	1.5 QT/A		12C		
	NIS	0.25 % V/V		12C		
7	GRAMOXONE	3 PT/A		PRE	70	191
	CINCH ATZ	1 QT/A		PRE		
	REALM Q			12C		
	ABUNDIT S	32 FL OZ/A		12C		
	ATRAZINE	1.5 QT/A		12C		
	NIS	0.25 % V/V		12C		

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
Crop Name	Corn
Rating Date	8/3/2016
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Number of Subsamples	1 1
Rating Timing	8 WEEK
Days After First/Last Applic.	85 56
Trt-Eval Interval	AFTER POST
Days After Emergence	78 DE-1
ARM Action Codes	P TY1
Number of Decimals	0 0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	16	21
8	GRAMOXONE	3	PT/A	PRE	90	167
	SURESTART II	2.5	PT/A	PRE		
	AATREX	1	QT/A	PRE		
	DURANGO DMA	1	QT/A	12C		
	AMS	2.5	% V/V	12C		
9	GRAMOXONE	3	PT/A	PRE	95	167
	RESICORE	2.5	QT/A	PRE		
	AATREX	1	QT/A	PRE		
	DURANGO DMA	1	QT/A	12C		
	AMS	2.5	% V/V	12C		
10	GRAMOXONE	3	PT/A	PRE	99	179
	CORVUS	5.6	OZ/A	PRE		
	AATREX	2	LB AI/A	PRE		
	ROUNDUP POWERMAX	32	FL OZ/A	12C		
	AMS	2.5	% V/V	12C		
11	GRAMOXONE	3	PT/A	PRE	90	187
	CORVUS	3	OZ/A	PRE		
	ATRAZINE	1.5	LB AI/A	PRE		
	CAPRENO HERBICIDE	3	OZ/A	12C		
	AATREX	1	LB AI/A	12C		
	ROUNDUP POWERMAX	32	FL OZ/A	12C		
	AMS	2.5	% V/V	12C		
12	GRAMOXONE	3	PT/A	PRE	85	183
	ZIDUA	5	OZ/A	PRE		
	SHARPEN	2	OZ/A	PRE		
	MSO	1	% V/V	PRE		
	AMS	8.5	LB AI/100 GAL	PRE		
	ROUNDUP POWERMAX	22	FL OZ/A	12C		
	STATUS	5	OZ/A	12C		
	ATRAZINE	32	FL OZ/A	12C		
	NIS	0.25	% V/V	12C		
	AMS	8.5	LB AI/100 GAL	12C		
13	GRAMOXONE	3	PT/A	PRE	95	178
	VERDICT	18	FL OZ/A	PRE		
	MSO	1	% V/V	PRE		
	AMS	8.5	LB AI/100 GAL	PRE		
	ROUNDUP POWERMAX	22	FL OZ/A	12C		
	STATUS	5	OZ/A	12C		
	ZIDUA	5	OZ/A	12C		
	NIS	0.25	% V/V	12C		
	AMS	8.5	LB AI/100 GAL	12C		

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
Crop Name	Corn
Rating Date	8/3/2016
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Number of Subsamples	1 1
Rating Timing	8 WEEK
Days After First/Last Applic.	85 56
Trt-Eval Interval	AFTER POST
Days After Emergence	78 DE-1
ARM Action Codes	P TY1
Number of Decimals	0 0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	16	21
14	GRAMOXONE	3 PT/A		PRE	95	176
	HARNESS XTRA	3.9 LB AI/A		PRE		
	ROUNDUP POWERMAX	1.13 LB AE/A		12C		
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C		
15	GRAMOXONE	3 PT/A		PRE	60	177
	DEGREE XTRA	3 LB AI/A		PRE		
	ROUNDUP POWERMAX	1.13 LB AE/A		12C		
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C		
16	GRAMOXONE	3 PT/A		PRE	90	194
	ANTHEM MAXX	3 OZ/A		PRE		
	SOLSTICE	2.5 OZ AI/A		12C		
	ATRAZINE	1 LB AI/A		12C		
	ROUNDUP POWERMAX	22 FL OZ/A		12C		
	COC	1 % V/V		12C		
17	GRAMOXONE	3 PT/A		PRE	80	182
	ANTHEM MAXX	2.5 OZ/A		PRE		
	ATRAZINE	1 LB AI/A		PRE		
	SOLSTICE	2.5 OZ/A		12C		
	ATRAZINE	1 LB AI/A		12C		
	ROUNDUP POWERMAX	22 FL OZ/A		12C		
	COC	1 % V/V		12C		
18	GRAMOXONE	3 PT/A		PRE	90	177
	HARNESS XTRA	3.6 PT/A		PRE		
	IMPACT	0.75 FL OZ/A		12C		
	ATRAZINE	1 PT/A		12C		
	MSO	1 % V/V		12C		
	UAN-28%	2.5 % V/V		12C		
19	GRAMOXONE	3 PT/A		PRE	95	181
	HARNESS XTRA	3.6 PT/A		PRE		
	IMPACT	0.75 FL OZ/A		12C		
	STATUS	3 OZ/A		12C		
	ATRAZINE	1 PT/A		12C		
	MSO	1 % V/V		12C		
	UAN-28%	2.5 % V/V		12C		
20	GRAMOXONE	3 PT/A		PRE	80	179
	LEXAR EZ	1.5 QT/A		PRE		
	LEXAR EZ	1.5 QT/A		12C		
	AATREX	1 LB AI/A		12C		
	COC	1 % V/V		12C		

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Pest Type	W	Weed
Pest Code	IPOSS	
Pest Name	Morning glory	
Crop Code	ZEAMX	
Crop Name	Corn	
Rating Date	8/3/2016	
Rating Type	CONTROL	YIELD
Rating Unit	PERCENT	BU
Number of Subsamples	1	1
Rating Timing	8 WEEK	
Days After First/Last Applic.	85	56
Trt-Eval Interval	AFTER	POST
Days After Emergence	78	DE-1
ARM Action Codes	P	TY1
Number of Decimals	0	0

Trt	Treatment	Rate	Growth		
No.	Name	Rate Unit	Stage	16	21
21	CHECK			0	89
	LSD P=.05			0.6	23.5
	Standard Deviation			0.4	14.3
	CV			0.42	8.49
	Replicate F			1.538	4.868
	Replicate Prob(F)			0.2271	0.0128
	Treatment F			10973.463	11.467
	Treatment Prob(F)			0.0001	0.0001

University of Kentucky

NO-TILL CORN

Trial ID: C16001	Location: LEXINGTON, KY	Trial Year: 2016
Protocol ID: SYN-CORN1-NT	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: SCOTT CULLY/SARAH GEHANT	

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 = $4.57563 * [C18] * (100 - [C19]) / 85$

University of Kentucky

NO-TILL CORN

Trial ID: C16001 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: SYN-CORN1-NT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/5/2016
Completion Date: 9/22/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC63-25RIB

Planting Date: 5/10/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/17/2016
Harvest Date: 9/22/2016

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 64 F
Soil Moisture: WET wet
Seed Bed: SMOOTH smooth

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 21
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B
Application Date:	5/10/2016	6/8/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	73 F
% Relative Humidity:	59	37
Wind Velocity, Unit:	8 MPH	5 MPH
Wind Direction:	SW	N
Soil Temperature, Unit:	64 F	72 F
Soil Moisture:	WET	NORMAL
% Cloud Cover:	10	0
Next Moisture Occurred On:	5/10/2016	6/14/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	12	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
Equipment Type:	ALTEVE	ALTEVE
Operation 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	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

Date By Notes

(C16001)

University of Kentucky

5/5/2016 SARA SPRAYED WITH GRAMOXONE FOR BURNDOWN

University of Kentucky

CORN POSTEMERGENCE

Trial ID: C16009 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-CORN-1 Investigator: Charles H Slack
 Project ID: Study Director: Daniel Waldstein
 Sponsor Contact: GREG STAPLETON

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	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/2/2016 6/16/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK 4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14 28 28

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK				0	0	0	0	0	0
2	ARMEZON PRO	16.0	FL OZ/A	V2	0	99	99	99	99	0
	ATRAZINE	16.0	FL OZ/A	V2						
	COC	1.0	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
3	ARMEZON PRO	16.0	FL OZ/A	V2	0	99	99	99	99	0
	ATRAZINE	16.0	FL OZ/A	V2						
	ROUNDUP POWERMAX	16.0	FL OZ/A	V2						
	COC	1.0	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
4	ARMEZON PRO	16.0	FL OZ/A	V2	0	99	99	99	99	0
	ATRAZINE	16.0	FL OZ/A	V2						
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	COC	1.0	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
5	ARMEZON PRO	16.0	FL OZ/A	V2	0	99	99	99	99	0
	CLARITY	6.0	FL OZ/A	V2						
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	NIS	0.25	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
6	ACURON	48.0	FL OZ/A	V2	0	99	99	99	99	0
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	COC	1.0	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
7	SURPASS	17.5	FL OZ/A	V2	0	99	99	99	99	0
	CALLISTO	3.0	FL OZ/A	V2						
	STINGER	2.5	FL OZ/A	V2						
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	NIS	0.25	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
8	SURESTART	32.0	FL OZ/A	V2	0	99	99	99	99	0
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	NIS	0.25	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,9,11,14 because error mean square = 0.

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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	lambsq>	Morning glory	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Scientific Name	Zea mays					Zea mays
Crop Name	Corn					Corn
Rating Date	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/16/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
9	HALEX GT	57.6	FL OZ/A	V2	0	99	99	99	99	0
	ATRAZINE	16.0	FL OZ/A	V2						
	ROUNDUP POWERMAX	5.3	FL OZ/A	V2						
	NIS	0.25	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
10	ARMEZON PRO	16.0	FL OZ/A	V2	0	99	99	99	99	0
	ATRAZINE	16.0	FL OZ/A	V2						
	STATUS	2.5	OZ WT/A	V2						
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	COC	1.0	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
LSD P=.05										
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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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					ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date	6/16/2016	6/16/2016	6/16/2016	6/16/2016	7/14/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 56
					56 56

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	CHECK			0	0	0	0	0	0
2	ARMEZON PRO	16.0 FL OZ/A	V2	99	87	99	85	0	99
	ATRAZINE	16.0 FL OZ/A	V2						
	COC	1.0 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
3	ARMEZON PRO	16.0 FL OZ/A	V2	96	93	99	89	0	96
	ATRAZINE	16.0 FL OZ/A	V2						
	ROUNDUP POWERMAX	16.0 FL OZ/A	V2						
	COC	1.0 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
4	ARMEZON PRO	16.0 FL OZ/A	V2	99	96	99	93	0	99
	ATRAZINE	16.0 FL OZ/A	V2						
	ROUNDUP POWERMAX	32.0 FL OZ/A	V2						
	COC	1.0 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
5	ARMEZON PRO	16.0 FL OZ/A	V2	99	93	99	95	0	99
	CLARITY	6.0 FL OZ/A	V2						
	ROUNDUP POWERMAX	32.0 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
6	ACURON	48.0 FL OZ/A	V2	99	95	99	95	0	99
	ROUNDUP POWERMAX	32.0 FL OZ/A	V2						
	COC	1.0 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
7	SURPASS	17.5 FL OZ/A	V2	96	99	99	99	0	96
	CALLISTO	3.0 FL OZ/A	V2						
	STINGER	2.5 FL OZ/A	V2						
	ROUNDUP POWERMAX	32.0 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
8	SURESTART	32.0 FL OZ/A	V2	96	92	99	90	0	96
	ROUNDUP POWERMAX	32.0 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	Setaria faberi	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	common lambsquarters	Morning glory	Giant foxtail	Giant foxtail
Crop Code					ZEAMX	
BBCH Scale					BCOR	
Crop Scientific Name					Zea mays	
Crop Name					Corn	
Rating Date	6/16/2016	6/16/2016	6/16/2016	6/16/2016	7/14/2016	7/14/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 56	56 56

Trt No.	Treatment Name	Rate	Unit	Growth Stage	7	8	9	10	11	12
9	HALEX GT	57.6	FL OZ/A	V2	99	96	99	99	0	99
	ATRAZINE	16.0	FL OZ/A	V2						
	ROUNDUP POWERMAX	5.3	FL OZ/A	V2						
	NIS	0.25	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
10	ARMEZON PRO	16.0	FL OZ/A	V2	95	96	99	94	0	95
	ATRAZINE	16.0	FL OZ/A	V2						
	STATUS	2.5	OZ WT/A	V2						
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2						
	COC	1.0	% V/V	V2						
	AMS	8.5	LB/100 GAL	V2						
	LSD P=.05				5.8	7.3	.	5.4	.	5.8
	Standard Deviation				3.4	4.2	0.0	3.2	0.0	3.4
	CV				3.85	5.01	0.0	3.76	0.0	3.85
	Replicate F				1.612	0.105	0.000	1.701	0.000	1.612
	Replicate Prob(F)				0.2269	0.9006	1.0000	0.2106	1.0000	0.2269
	Treatment F				250.569	149.404	0.000	267.887	0.000	250.569
	Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	
Pest Name	Giant ragweed	common lambsqu>	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	7/14/2016	7/14/2016	7/14/2016	9/21/2016
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 56	56 56	56 56	125 125

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	20
1	CHECK				0	0	0	5
2	ARMEZON PRO	16.0	FL OZ/A	V2	87	99	85	151
	ATRAZINE	16.0	FL OZ/A	V2				
	COC	1.0	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
3	ARMEZON PRO	16.0	FL OZ/A	V2	93	99	89	178
	ATRAZINE	16.0	FL OZ/A	V2				
	ROUNDUP POWERMAX	16.0	FL OZ/A	V2				
	COC	1.0	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
4	ARMEZON PRO	16.0	FL OZ/A	V2	96	99	93	190
	ATRAZINE	16.0	FL OZ/A	V2				
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2				
	COC	1.0	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
5	ARMEZON PRO	16.0	FL OZ/A	V2	93	99	95	187
	CLARITY	6.0	FL OZ/A	V2				
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2				
	NIS	0.25	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
6	ACURON	48.0	FL OZ/A	V2	95	99	95	198
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2				
	COC	1.0	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
7	SURPASS	17.5	FL OZ/A	V2	99	99	99	191
	CALLISTO	3.0	FL OZ/A	V2				
	STINGER	2.5	FL OZ/A	V2				
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2				
	NIS	0.25	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
8	SURESTART	32.0	FL OZ/A	V2	92	99	90	184
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2				
	NIS	0.25	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Ipomoea sp.	
Pest Name	Giant ragweed	common lambsqu>	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	7/14/2016	7/14/2016	7/14/2016	9/21/2016
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 56	56 56	56 56	125 125

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	20
9	HALEX GT	57.6	FL OZ/A	V2	96	99	99	201
	ATRAZINE	16.0	FL OZ/A	V2				
	ROUNDUP POWERMAX	5.3	FL OZ/A	V2				
	NIS	0.25	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
10	ARMEZON PRO	16.0	FL OZ/A	V2	96	99	94	151
	ATRAZINE	16.0	FL OZ/A	V2				
	STATUS	2.5	OZ WT/A	V2				
	ROUNDUP POWERMAX	32.0	FL OZ/A	V2				
	COC	1.0	% V/V	V2				
	AMS	8.5	LB/100 GAL	V2				
	LSD P=.05				7.3	.	5.4	28.3
	Standard Deviation				4.2	0.0	3.2	16.5
	CV				5.01	0.0	3.76	10.07
	Replicate F				0.105	0.000	1.701	2.415
	Replicate Prob(F)				0.9006	1.0000	0.2106	0.1177
	Treatment F				149.404	0.000	267.887	37.544
	Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001

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CORN POSTEMERGENCE

Trial ID: C16009
Protocol ID: BASF-CORN-1
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: Daniel Waldstein
Sponsor Contact: GREG STAPLETON

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

ARM Action Codes

TY1 = $4.57563 * [17] * (100 - [18]) / 85$

University of Kentucky

CORN POSTEMERGENCE

Trial ID: C16009 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-CORN-1 Investigator: Charles H Slack
 Project ID: Study Director: Daniel Waldstein
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT²
Replications: 4

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6
% Silt: 62
% Clay: 32

% OM: 2.6
pH: 6.4
CEC: 18

Texture: SIL silt loam
Soil Name: MAURY SILT LOAM
Fert. Level: E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP
Distance, Unit: 1.5 MI

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Application Description

A
Application Date: 5/19/2016
Application Method: SPRAY
Application Timing: V2
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 68 F
% Relative Humidity: 47
Wind Velocity, Unit: 8 MPH
Wind Direction: NE
Soil Temperature, Unit: 60 F
Soil Moisture: EXCELL
% Cloud Cover: 30
Next Moisture Occurred On: 5/20/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR
Height, Unit: 5 IN

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Height, Unit: 2 IN
Pest 2 Code, Type, Scale: AMBTR W
Height, Unit: 3 IN
Pest 3 Code, Type, Scale: CHEAL W
Height, Unit: 1.5 IN
Pest 4 Code, Type, Scale: IPOSS W
Height, Unit: 1 IN

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation 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: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 3 liters
Propellant: CO2

University of Kentucky

CORN POSTEMERGENCE II

Trial ID: C16010
Protocol ID: SYN-CORN1
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: SCOTT CULLY/SARAH GEHANT

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code		ZEAMX			
Crop Name		Corn			
Rating Date		5/12/2016	5/12/2016	5/12/2016	5/12/2016
Rating Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.		16 16	16 16	16 16	16 16
Trt-Eval Interval					

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
1	ACURON	2.5 QT/A	PRE	0	99	99	99	99
	AATREX	1.5 PT/A	PRE					
2	ACURON	2.5 QT/A	PRE	0	99	99	99	99
3	ACURON	1.5 QT/A	PRE	0	99	99	99	99
	HALEX GT	3.6 PT/A	12C					
	AATREX	1.5 PT/A	12C					
	NIS	0.25 % V/V	12C					
4	ACURON	1.25 QT/A	PRE	0	99	99	99	99
	ACURON	1.25 QT/A	12C					
5	ACURON	1.25 QT/A	PRE	0	99	96	99	99
	ACURON	1.25 QT/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	LEADOFF		PRE	0	99	95	99	99
	AATREX	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
7	CINCH ATZ	1 QT/A	PRE	0	99	85	99	99
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
8	SURESTART II	2.5 PT/A	PRE	0	99	99	99	99
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
9	RESICORE	2.5 QT/A	PRE	0	99	90	99	99
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
10	CORVUS	5.6 OZ/A	PRE	0	99	99	99	99
	AATREX	2 LB AI/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					

Could not calculate LSD (% mean diff) for columns 1,2,4,5,7,9 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5/12/2016	5/12/2016	5/12/2016	5/12/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	16 16	16 16	16 16	16 16
Trt-Eval Interval				

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5
11	CORVUS	3 OZ/A		PRE	0	99	99	99	99
	ATRAZINE	1.5 LB AI/A		PRE					
	CAPRENO HERBICIDE	3 OZ/A		12C					
	AATREX	1 LB AI/A		12C					
	ROUNDUP POWERMAX	32 FL OZ/A		12C					
	AMS	2.5 % V/V		12C					
12	ZIDUA	5 OZ/A		PRE	0	99	99	99	99
	SHARPEN	2 OZ/A		PRE					
	MISO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	STATUS	5 OZ/A		12C					
	ATRAZINE	32 FL OZ/A		12C					
	NIS	0.25 % V/V		12C					
	AMS	8.5 LB AI/100 GAL		12C					
13	VERDICT	18 FL OZ/A		PRE	0	99	99	99	99
	MISO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	STATUS	5 OZ/A		12C					
	ZIDUA	5 OZ/A		12C					
	NIS	0.25 % V/V		12C					
	AMS	8.5 LB AI/100 GAL		12C					
14	HARNESX XTRA	3.9 LB AI/A		PRE	0	99	99	99	99
	ROUNDUP POWERMAX	1.13 LB AE/A		12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C					
15	DEGREE XTRA	3 LB AI/A		PRE	0	99	95	99	99
	ROUNDUP POWERMAX	1.13 LB AE/A		12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C					
16	ANTHEM MAXX	3 OZ/A		PRE	0	99	95	99	99
	SOLSTICE	2.5 OZ AI/A		12C					
	ATRAZINE	1 LB AI/A		12C					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	COC	1 % V/V		12C					
17	ANTHEM MAXX	2.5 OZ/A		PRE	0	99	90	99	99
	ATRAZINE	1 LB AI/A		PRE					
	SOLSTICE	2.5 OZ/A		12C					
	ATRAZINE	1 LB AI/A		12C					
	ROUNDUP POWERMAX	22 FL OZ/A		12C					
	COC	1 % V/V		12C					
18	HARNESX XTRA	3.6 PT/A		PRE	0	99	90	99	99
	IMPACT	0.75 FL OZ/A		12C					
	ATRAZINE	1 PT/A		12C					
	MISO	1 % V/V		12C					
	UAN-28%	2.5 % V/V		12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5/12/2016	5/12/2016	5/12/2016	5/12/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	16 16	16 16	16 16	16 16
Trt-Eval Interval				

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
19	HARNESS XTRA	3.6 PT/A	PRE	0	99	80	99	99
	IMPACT	0.75 FL OZ/A	12C					
	STATUS	3 OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MSO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					
20	CHECK UNTREATED			0	0	0	0	0
	LSD P=.05			.	.	0.9	.	.
	Standard Deviation			0.0	0.0	0.5	0.0	0.0
	CV			0.0	0.0	0.57	0.0	0.0
	Replicate F			0.000	0.000	1.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	0.3774	1.0000	1.0000
	Treatment F			0.000	0.000	5416.642	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	1.0000

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5/26/2016	5/26/2016	5/26/2016	5/26/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	6	7	8	9
1	ACURON	2.5 QT/A	PRE	0	99	95	99
	AATREX	1.5 PT/A	PRE				
2	ACURON	2.5 QT/A	PRE	0	99	95	99
3	ACURON	1.5 QT/A	PRE	0	99	91	99
	HALEX GT	3.6 PT/A	12C				
	AATREX	1.5 PT/A	12C				
	NIS	0.25 % V/V	12C				
4	ACURON	1.25 QT/A	PRE	0	99	90	99
	ACURON	1.25 QT/A	12C				
5	ACURON	1.25 QT/A	PRE	0	99	90	99
	ACURON	1.25 QT/A	12C				
	ROUNDUP POWERMAX	32 FL OZ/A	12C				
6	LEADOFF		PRE	7	99	89	99
	AATREX	1 QT/A	PRE				
	REALM Q		12C				
	ABUNDIT S	32 FL OZ/A	12C				
	ATRAZINE	1.5 QT/A	12C				
	NIS	0.25 % V/V	12C				
7	CINCH ATZ	1 QT/A	PRE	0	99	80	99
	REALM Q		12C				
	ABUNDIT S	32 FL OZ/A	12C				
	ATRAZINE	1.5 QT/A	12C				
	NIS	0.25 % V/V	12C				
8	SURESTART II	2.5 PT/A	PRE	0	99	91	99
	AATREX	1 QT/A	PRE				
	DURANGO DMA	1 QT/A	12C				
	AMS	2.5 % V/V	12C				
9	RESICORE	2.5 QT/A	PRE	0	99	90	99
	AATREX	1 QT/A	PRE				
	DURANGO DMA	1 QT/A	12C				
	AMS	2.5 % V/V	12C				
10	CORVUS	5.6 OZ/A	PRE	5	99	96	99
	AATREX	2 LB AI/A	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	12C				
	AMS	2.5 % V/V	12C				

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Name		Giant foxtail	Giant ragweed common	lambsqu>
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5/26/2016	5/26/2016	5/26/2016	5/26/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30
Trt-Eval Interval	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6	7	8	9
11	CORVUS	3 OZ/A		PRE	0	99	92	99
	ATRAZINE	1.5 LB AI/A		PRE				
	CAPRENO HERBICIDE	3 OZ/A		12C				
	AATREX	1 LB AI/A		12C				
	ROUNDUP POWERMAX	32 FL OZ/A		12C				
	AMS	2.5 % V/V		12C				
12	ZIDUA	5 OZ/A		PRE	3	99	92	99
	SHARPEN	2 OZ/A		PRE				
	MSO	1 % V/V		PRE				
	AMS	8.5 LB AI/100 GAL		PRE				
	ROUNDUP POWERMAX	22 FL OZ/A		12C				
	STATUS	5 OZ/A		12C				
	ATRAZINE	32 FL OZ/A		12C				
	NIS	0.25 % V/V		12C				
	AMS	8.5 LB AI/100 GAL		12C				
13	VERDICT	18 FL OZ/A		PRE	13	99	95	99
	MSO	1 % V/V		PRE				
	AMS	8.5 LB AI/100 GAL		PRE				
	ROUNDUP POWERMAX	22 FL OZ/A		12C				
	STATUS	5 OZ/A		12C				
	ZIDUA	5 OZ/A		12C				
	NIS	0.25 % V/V		12C				
	AMS	8.5 LB AI/100 GAL		12C				
14	HARNNESS XTRA	3.9 LB AI/A		PRE	0	99	89	99
	ROUNDUP POWERMAX	1.13 LB AE/A		12C				
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C				
15	DEGREE XTRA	3 LB AI/A		PRE	0	99	80	99
	ROUNDUP POWERMAX	1.13 LB AE/A		12C				
	CLASS ACT NEXT GENERATION	2.5 % V/V		12C				
16	ANTHEM MAXX	3 OZ/A		PRE	0	99	84	99
	SOLSTICE	2.5 OZ AI/A		12C				
	ATRAZINE	1 LB AI/A		12C				
	ROUNDUP POWERMAX	22 FL OZ/A		12C				
	COC	1 % V/V		12C				
17	ANTHEM MAXX	2.5 OZ/A		PRE	0	99	88	99
	ATRAZINE	1 LB AI/A		PRE				
	SOLSTICE	2.5 OZ/A		12C				
	ATRAZINE	1 LB AI/A		12C				
	ROUNDUP POWERMAX	22 FL OZ/A		12C				
	COC	1 % V/V		12C				
18	HARNNESS XTRA	3.6 PT/A		PRE	0	99	78	99
	IMPACT	0.75 FL OZ/A		12C				
	ATRAZINE	1 PT/A		12C				
	MSO	1 % V/V		12C				
	UAN-28%	2.5 % V/V		12C				

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Name		Giant foxtail	Giant ragweed common	lambsqu>
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5/26/2016	5/26/2016	5/26/2016	5/26/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6	7	8	9
19	HARNESS XTRA	3.6	PT/A	PRE	0	99	78	99
	IMPACT	0.75	FL OZ/A	12C				
	STATUS	3	OZ/A	12C				
	ATRAZINE	1	PT/A	12C				
	MSO	1	% V/V	12C				
	UAN-28%	2.5	% V/V	12C				
20	CHECK UNTREATED				0	0	0	0
	LSD P=.05				5.6	.	5.5	.
	Standard Deviation				3.4	0.0	3.3	0.0
	CV				239.29	0.0	3.95	0.0
	Replicate F				2.756	0.000	0.582	0.000
	Replicate Prob(F)				0.0763	1.0000	0.5637	1.0000
	Treatment F				2.998	0.000	114.831	0.000
	Treatment Prob(F)				0.0019	1.0000	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	CHEAL
Pest Name	Morning glory	Giant foxtail	Giant ragweed	common lambsqu>
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5/26/2016	6/15/2016	6/15/2016	6/15/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	30 30	50 14	50 14	50 14
Trt-Eval Interval	BEFORE POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	10	11	12	13	14
1	ACURON	2.5 QT/A	PRE	95	0	99	92	95
	AATREX	1.5 PT/A	PRE					
2	ACURON	2.5 QT/A	PRE	95	0	99	93	95
3	ACURON	1.5 QT/A	PRE	93	0	99	98	91
	HALEX GT	3.6 PT/A	12C					
	AATREX	1.5 PT/A	12C					
	NIS	0.25 % V/V	12C					
4	ACURON	1.25 QT/A	PRE	92	0	99	94	90
	ACURON	1.25 QT/A	12C					
5	ACURON	1.25 QT/A	PRE	91	0	99	94	90
	ACURON	1.25 QT/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	LEADOFF		PRE	90	3	98	96	89
	AATREX	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
7	CINCH ATZ	1 QT/A	PRE	81	0	99	94	87
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
8	SURESTART II	2.5 PT/A	PRE	91	0	95	95	91
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
9	RESICORE	2.5 QT/A	PRE	95	0	93	93	90
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
10	CORVUS	5.6 OZ/A	PRE	96	0	99	93	96
	AATREX	2 LB AI/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	CHEAL
Pest Name	Morning glory	Giant foxtail	Giant ragweed	common lambsqu>
Crop Code		ZEAMX		
Crop Name		Corn		
Rating Date	5/26/2016	6/15/2016	6/15/2016	6/15/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	30 30	50 14	50 14	50 14
Trt-Eval Interval	BEFORE POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	10	11	12	13	14
11	CORVUS	3 OZ/A	PRE	92	0	99	98	92
	ATRAZINE	1.5 LB AI/A	PRE					
	CAPRENO HERBICIDE	3 OZ/A	12C					
	AATREX	1 LB AI/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					
12	ZIDUA	5 OZ/A	PRE	92	0	99	98	92
	SHARPEN	2 OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	STATUS	5 OZ/A	12C					
	ATRAZINE	32 FL OZ/A	12C					
	NIS	0.25 % V/V	12C					
	AMS	8.5 LB AI/100 GAL	12C					
13	VERDICT	18 FL OZ/A	PRE	95	7	99	99	95
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	STATUS	5 OZ/A	12C					
	ZIDUA	5 OZ/A	12C					
	NIS	0.25 % V/V	12C					
	AMS	8.5 LB AI/100 GAL	12C					
14	HARNNESS XTRA	3.9 LB AI/A	PRE	90	0	92	85	89
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
15	DEGREE XTRA	3 LB AI/A	PRE	88	0	99	86	82
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
16	ANTHEM MAXX	3 OZ/A	PRE	86	0	98	99	84
	SOLSTICE	2.5 OZ AI/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
17	ANTHEM MAXX	2.5 OZ/A	PRE	89	0	99	99	88
	ATRAZINE	1 LB AI/A	PRE					
	SOLSTICE	2.5 OZ/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
18	HARNNESS XTRA	3.6 PT/A	PRE	83	0	99	88	78
	IMPACT	0.75 FL OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MSO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	CHEAL
Pest Name	Morning glory	Giant foxtail	Giant ragweed common	lambsqu>
Crop Code		ZEAMX		
Crop Name		Corn		
Rating Date	5/26/2016	6/15/2016	6/15/2016	6/15/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	30 30	50 14	50 14	50 14
Trt-Eval Interval	BEFORE POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14
19	HARNESS XTRA	3.6	PT/A	PRE	88	0	98	91	80
	IMPACT	0.75	FL OZ/A	12C					
	STATUS	3	OZ/A	12C					
	ATRAZINE	1	PT/A	12C					
	MSO	1	% V/V	12C					
	UAN-28%	2.5	% V/V	12C					
20	CHECK UNTREATED				0	0	0	0	0
	LSD P=.05				8.2	4.4	2.8	6.6	4.2
	Standard Deviation				5.0	2.6	1.7	4.0	2.5
	CV				5.76	528.98	1.79	4.49	2.98
	Replicate F				2.202	1.251	2.051	1.103	0.618
	Replicate Prob(F)				0.1245	0.2978	0.1426	0.3424	0.5442
	Treatment F				51.995	1.141	520.502	85.543	198.083
	Treatment Prob(F)				0.0001	0.3536	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	CHEAL
Pest Name	Morning glory	Giant foxtail	Giant ragweed	common lambsqu>
Crop Code		ZEAMX		
Crop Name		Corn		
Rating Date	6/15/2016	6/29/2016	6/29/2016	6/29/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	50 14	64 28	64 28	64 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	15	16	17	18	19
1	ACURON	2.5 QT/A	PRE	93	0	99	92	95
	AATREX	1.5 PT/A	PRE					
2	ACURON	2.5 QT/A	PRE	95	0	99	93	95
3	ACURON	1.5 QT/A	PRE	98	0	99	98	91
	HALEX GT	3.6 PT/A	12C					
	AATREX	1.5 PT/A	12C					
	NIS	0.25 % V/V	12C					
4	ACURON	1.25 QT/A	PRE	95	0	99	94	90
	ACURON	1.25 QT/A	12C					
5	ACURON	1.25 QT/A	PRE	95	0	99	95	95
	ACURON	1.25 QT/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	LEADOFF		PRE	96	3	98	96	89
	AATREX	1 QT/A	PRE					
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
7	CINCH ATZ	1 QT/A	PRE	96	0	96	94	87
	REALM Q		12C					
	ABUNDIT S	32 FL OZ/A	12C					
	ATRAZINE	1.5 QT/A	12C					
	NIS	0.25 % V/V	12C					
8	SURESTART II	2.5 PT/A	PRE	95	0	95	95	91
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
9	RESICORE	2.5 QT/A	PRE	93	0	93	93	90
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	12C					
	AMS	2.5 % V/V	12C					
10	CORVUS	5.6 OZ/A	PRE	93	0	99	93	96
	AATREX	2 LB AI/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	CHEAL
Pest Name	Morning glory	Giant foxtail	Giant ragweed	common lambsqu>
Crop Code		ZEAMX		
Crop Name		Corn		
Rating Date	6/15/2016	6/29/2016	6/29/2016	6/29/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	50 14	64 28	64 28	64 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	15	16	17	18	19
11	CORVUS	3 OZ/A	PRE	98	0	99	98	92
	ATRAZINE	1.5 LB AI/A	PRE					
	CAPRENO HERBICIDE	3 OZ/A	12C					
	AATREX	1 LB AI/A	12C					
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
	AMS	2.5 % V/V	12C					
12	ZIDUA	5 OZ/A	PRE	99	0	99	98	92
	SHARPEN	2 OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	STATUS	5 OZ/A	12C					
	ATRAZINE	32 FL OZ/A	12C					
	NIS	0.25 % V/V	12C					
	AMS	8.5 LB AI/100 GAL	12C					
13	VERDICT	18 FL OZ/A	PRE	99	7	99	99	95
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	STATUS	5 OZ/A	12C					
	ZIDUA	5 OZ/A	12C					
	NIS	0.25 % V/V	12C					
	AMS	8.5 LB AI/100 GAL	12C					
14	HARNESS XTRA	3.9 LB AI/A	PRE	88	0	92	85	89
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
15	DEGREE XTRA	3 LB AI/A	PRE	88	0	99	86	82
	ROUNDUP POWERMAX	1.13 LB AE/A	12C					
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C					
16	ANTHEM MAXX	3 OZ/A	PRE	99	0	98	99	84
	SOLSTICE	2.5 OZ AI/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
17	ANTHEM MAXX	2.5 OZ/A	PRE	99	0	99	99	88
	ATRAZINE	1 LB AI/A	PRE					
	SOLSTICE	2.5 OZ/A	12C					
	ATRAZINE	1 LB AI/A	12C					
	ROUNDUP POWERMAX	22 FL OZ/A	12C					
	COC	1 % V/V	12C					
18	HARNESS XTRA	3.6 PT/A	PRE	89	0	99	88	78
	IMPACT	0.75 FL OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MSO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	CHEAL
Pest Name	Morning glory	Giant foxtail	Giant ragweed	common lambsqu>
Crop Code		ZEAMX		
Crop Name		Corn		
Rating Date	6/15/2016	6/29/2016	6/29/2016	6/29/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	50 14	64 28	64 28	64 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	15	16	17	18	19
19	HARNESS XTRA	3.6 PT/A	PRE	95	0	98	91	80
	IMPACT	0.75 FL OZ/A	12C					
	STATUS	3 OZ/A	12C					
	ATRAZINE	1 PT/A	12C					
	MSO	1 % V/V	12C					
	UAN-28%	2.5 % V/V	12C					
20	CHECK UNTREATED			0	0	0	0	0
	LSD P=.05			5.1	4.4	3.3	6.8	4.0
	Standard Deviation			3.1	2.6	2.0	4.1	2.4
	CV			3.44	528.98	2.15	4.59	2.81
	Replicate F			0.583	1.251	2.403	0.814	2.121
	Replicate Prob(F)			0.5631	0.2978	0.1041	0.4507	0.1339
	Treatment F			144.050	1.141	361.326	82.081	223.440
	Treatment Prob(F)			0.0001	0.3536	0.0001	0.0001	0.0001

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
Crop Name	Corn
Rating Date	6/29/2016 9/21/2016
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Rating Timing	4 WEEK
Days After First/Last Applic.	64 28 148 112
Trt-Eval Interval	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	20	25
1	ACURON	2.5 QT/A	PRE	93	165
	AATREX	1.5 PT/A	PRE		
2	ACURON	2.5 QT/A	PRE	95	150
3	ACURON	1.5 QT/A	PRE	98	180
	HALEX GT	3.6 PT/A	12C		
	AATREX	1.5 PT/A	12C		
	NIS	0.25 % V/V	12C		
4	ACURON	1.25 QT/A	PRE	95	168
	ACURON	1.25 QT/A	12C		
5	ACURON	1.25 QT/A	PRE	95	169
	ACURON	1.25 QT/A	12C		
	ROUNDUP POWERMAX	32 FL OZ/A	12C		
6	LEADOFF		PRE	96	180
	AATREX	1 QT/A	PRE		
	REALM Q		12C		
	ABUNDIT S	32 FL OZ/A	12C		
	ATRAZINE	1.5 QT/A	12C		
	NIS	0.25 % V/V	12C		
7	CINCH ATZ	1 QT/A	PRE	96	178
	REALM Q		12C		
	ABUNDIT S	32 FL OZ/A	12C		
	ATRAZINE	1.5 QT/A	12C		
	NIS	0.25 % V/V	12C		
8	SURESTART II	2.5 PT/A	PRE	95	179
	AATREX	1 QT/A	PRE		
	DURANGO DMA	1 QT/A	12C		
	AMS	2.5 % V/V	12C		
9	RESICORE	2.5 QT/A	PRE	93	182
	AATREX	1 QT/A	PRE		
	DURANGO DMA	1 QT/A	12C		
	AMS	2.5 % V/V	12C		
10	CORVUS	5.6 OZ/A	PRE	93	184
	AATREX	2 LB AI/A	PRE		
	ROUNDUP POWERMAX	32 FL OZ/A	12C		
	AMS	2.5 % V/V	12C		

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
Crop Name	Corn
Rating Date	6/29/2016 9/21/2016
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Rating Timing	4 WEEK
Days After First/Last Applic.	64 28 148 112
Trt-Eval Interval	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	Yield	
				20	25
11	CORVUS	3 OZ/A	PRE	98	182
	ATRAZINE	1.5 LB AI/A	PRE		
	CAPRENO HERBICIDE	3 OZ/A	12C		
	AATREX	1 LB AI/A	12C		
	ROUNDUP POWERMAX	32 FL OZ/A	12C		
	AMS	2.5 % V/V	12C		
12	ZIDUA	5 OZ/A	PRE	99	170
	SHARPEN	2 OZ/A	PRE		
	MSO	1 % V/V	PRE		
	AMS	8.5 LB AI/100 GAL	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	12C		
	STATUS	5 OZ/A	12C		
	ATRAZINE	32 FL OZ/A	12C		
	NIS	0.25 % V/V	12C		
	AMS	8.5 LB AI/100 GAL	12C		
13	VERDICT	18 FL OZ/A	PRE	99	160
	MSO	1 % V/V	PRE		
	AMS	8.5 LB AI/100 GAL	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	12C		
	STATUS	5 OZ/A	12C		
	ZIDUA	5 OZ/A	12C		
	NIS	0.25 % V/V	12C		
	AMS	8.5 LB AI/100 GAL	12C		
14	HARNESX XTRA	3.9 LB AI/A	PRE	88	155
	ROUNDUP POWERMAX	1.13 LB AE/A	12C		
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C		
15	DEGREE XTRA	3 LB AI/A	PRE	88	168
	ROUNDUP POWERMAX	1.13 LB AE/A	12C		
	CLASS ACT NEXT GENERATION	2.5 % V/V	12C		
16	ANTHEM MAXX	3 OZ/A	PRE	99	161
	SOLSTICE	2.5 OZ AI/A	12C		
	ATRAZINE	1 LB AI/A	12C		
	ROUNDUP POWERMAX	22 FL OZ/A	12C		
	COC	1 % V/V	12C		
17	ANTHEM MAXX	2.5 OZ/A	PRE	99	168
	ATRAZINE	1 LB AI/A	PRE		
	SOLSTICE	2.5 OZ/A	12C		
	ATRAZINE	1 LB AI/A	12C		
	ROUNDUP POWERMAX	22 FL OZ/A	12C		
	COC	1 % V/V	12C		
18	HARNESX XTRA	3.6 PT/A	PRE	89	147
	IMPACT	0.75 FL OZ/A	12C		
	ATRAZINE	1 PT/A	12C		
	MSO	1 % V/V	12C		
	UAN-28%	2.5 % V/V	12C		

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	ZEAMX
Crop Name	Corn
Rating Date	6/29/2016 9/21/2016
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Rating Timing	4 WEEK
Days After First/Last Applic.	64 28 148 112
Trt-Eval Interval	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	20	25
19	HARNESS XTRA	3.6 PT/A	PRE	95	171
	IMPACT	0.75 FL OZ/A	12C		
	STATUS	3 OZ/A	12C		
	ATRAZINE	1 PT/A	12C		
	MSO	1 % V/V	12C		
	UAN-28%	2.5 % V/V	12C		
20	CHECK UNTREATED			0	1
	LSD P=.05			5.1	13.3
	Standard Deviation			3.1	8.1
	CV			3.44	5.01
	Replicate F			0.583	3.959
	Replicate Prob(F)			0.5631	0.0274
	Treatment F			144.050	70.529
	Treatment Prob(F)			0.0001	0.0001

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CORN POSTEMERGENCE II

Trial ID: C16010	Location: LEXINGTON, KY	Trial Year: 2016
Protocol ID: SYN-CORN1	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: SCOTT CULLY/SARAH GEHANT	

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

ARM Action Codes

TY1 = $4.57563 * [22] * (100 - [23]) / 85$

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CORN POSTEMERGENCE II

Trial ID: C16010 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: SYN-CORN1 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 20
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B
Application Date:	4/26/2016	6/1/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	87 F
% Relative Humidity:	30	46
Wind Velocity, Unit:	6 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	59 F	73 F
Soil Moisture:	DRY	GOOD
% Cloud Cover:	40	50
Next Moisture Occurred On:	4/26/2016	6/1/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	12	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:	5	IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2	IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

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CORN POSTEMERGENCE III

Trial ID: C16011
Protocol ID: SYN-CORN-PRE
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: SCOTT CULLY

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5/10/2016	5/10/2016	5/10/2016	5/10/2016	5/10/2016	6/2/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	37 1
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AT POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED CHECK			0	0	0	0	0	0
2	ACURON	1.5 QT/A	PRE	0	99	95	99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	NIS	0.25 % V/V	12C-MP						
	AATREX	1 QT/A	12C-MP						
	HALEX GT	3.6 PT/A	12C-MP						
3	ACURON FLEXI	1.25 QT/A	PRE	0	99	95	99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	NIS	0.25 % V/V	12C-MP						
	AATREX	1 QT/A	12C-MP						
	HALEX GT	3.6 PT/A	12C-MP						
4	ACURON	1.5 QT/A	PRE	0	99	95	99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON	1.5 QT/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						
5	ACURON FLEXI	1.25 QT/A	PRE	0	99	99	99	99	2
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON FLEXI	1.25 QT/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						
6	ACURON	1.5 QT/A	PRE	0	99	90	99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON	1.5 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
7	ACURON FLEXI	1.25 QT/A	PRE	0	99	99	99	99	2
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON FLEXI	1.25 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
8	CORVUS	3.3 FL OZ/A	PRE	0	99	95	99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	CAPRENO HERBICIDE	3 FL OZ/A	12C-MP						
	DIFLEXX	8 FL OZ/A	12C-MP						
	AATREX	1 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,7,9,14,19 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5/10/2016	5/10/2016	5/10/2016	5/10/2016	5/10/2016	6/2/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	37 1
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AT POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
9	RESICORE	1.5	QT/A	PRE	0	99	85	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	RESICORE	1.5	QT/A	12C-MP						
	NIS	0.25	% V/V	12C-MP						
10	RESICORE	1.5	QT/A	PRE	0	99	85	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	RESICORE	1.5	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
11	VERDICT	18	FL OZ/A	PRE	0	99	88	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	STATUS	5	OZ WT/A	12C-MP						
	ZIDUA	5	OZ WT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
12	RESICORE	1.5	QT/A	PRE	0	99	95	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	AATREX	1	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
13	SURESTART II	2	PT/A	PRE	0	99	90	99	90	0
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	WARRANT	1	QT/A	12C-MP						
	AATREX	1	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
14	INSTIGATE	5.5	OZ WT/A	PRE	0	99	99	99	99	2
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	REALM Q	4	OZ WT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
LSD P=.05					.	.	.	.	.	2.1
Standard Deviation					0.0	0.0	0.0	0.0	0.0	1.2
CV					0.0	0.0	0.0	0.0	0.0	344.18
Replicate F					0.000	0.000	0.000	0.000	0.000	3.545
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.0435
Treatment F					0.000	0.000	0.000	0.000	0.000	1.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.4786

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA				
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	Morning glory	Giant foxtail				
Crop Code					ZEAMX				
Crop Name					Corn				
Rating Date	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/16/2016				
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK				
Days After First/Last Applic.	37 1	37 1	37 1	37 1	51 15				
Trt-Eval Interval	AT POST	AT POST	AT POST	AFTER POST	AFTER POST				
Trt No.	Treatment Name	Rate Unit	Growth Stage	7	8	9	10	11	12
1	UNTREATED CHECK			0	0	0	0	0	0
2	ACURON	1.5 QT/A	PRE	99	80	99	86	0	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	NIS	0.25 % V/V	12C-MP						
	AATREX	1 QT/A	12C-MP						
	HALEX GT	3.6 PT/A	12C-MP						
3	ACURON FLEXI	1.25 QT/A	PRE	99	89	99	89	0	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	NIS	0.25 % V/V	12C-MP						
	AATREX	1 QT/A	12C-MP						
	HALEX GT	3.6 PT/A	12C-MP						
4	ACURON	1.5 QT/A	PRE	99	87	99	90	0	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON	1.5 QT/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						
5	ACURON FLEXI	1.25 QT/A	PRE	99	89	99	89	0	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON FLEXI	1.25 QT/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						
6	ACURON	1.5 QT/A	PRE	99	82	99	84	0	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON	1.5 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
7	ACURON FLEXI	1.25 QT/A	PRE	99	88	99	90	2	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON FLEXI	1.25 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
8	CORVUS	3.3 FL OZ/A	PRE	99	85	99	88	0	99
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	CAPRENO HERBICIDE	3 FL OZ/A	12C-MP						
	DIFLEXX	8 FL OZ/A	12C-MP						
	AATREX	1 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/16/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK
Days After First/Last Applic.	37 1	37 1	37 1	37 1	51 15
Trt-Eval Interval	AT POST	AT POST	AT POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	7	8	9	10	11	12
9	RESICORE	1.5	QT/A	PRE	99	83	99	88	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	RESICORE	1.5	QT/A	12C-MP						
	NIS	0.25	% V/V	12C-MP						
10	RESICORE	1.5	QT/A	PRE	99	83	99	87	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	RESICORE	1.5	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
11	VERDICT	18	FL OZ/A	PRE	99	80	99	82	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	STATUS	5	OZ WT/A	12C-MP						
	ZIDUA	5	OZ WT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
12	RESICORE	1.5	QT/A	PRE	99	82	99	86	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	AATREX	1	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
13	SURESTART II	2	PT/A	PRE	99	82	99	85	0	94
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	WARRANT	1	QT/A	12C-MP						
	AATREX	1	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
14	INSTIGATE	5.5	OZ WT/A	PRE	99	92	99	92	2	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	REALM Q	4	OZ WT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
LSD P=.05					.	3.4	.	4.0	1.8	3.6
Standard Deviation					0.0	2.0	0.0	2.4	1.0	2.2
CV					0.0	2.6	0.0	2.94	440.28	2.36
Replicate F					0.000	0.278	0.000	0.218	2.167	1.000
Replicate Prob(F)					1.0000	0.7593	1.0000	0.8054	0.1348	0.3816
Treatment F					0.000	376.624	0.000	291.717	1.000	447.782
Treatment Prob(F)					1.0000	0.0001	1.0000	0.0001	0.4786	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	CHEAL	IPOSS	SETFA	AMBTR				
Pest Name	Giant ragweed common lambsqu>		Morning glory	Giant foxtail	Giant ragweed				
Crop Code				ZEAMX					
Crop Name				Corn					
Rating Date	6/16/2016	6/16/2016	6/16/2016	7/18/2016	7/18/2016				
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK				
Days After First/Last Applic.	51 15	51 15	51 15	83 47	83 47				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Trt No.	Treatment	Rate	Growth Stage	13	14	15	16	17	18
1	UNTREATED CHECK			0	0	0	0	0	0
2	ACURON	1.5 QT/A	PRE	93	99	93	0	99	93
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	NIS	0.25 % V/V	12C-MP						
	AATREX	1 QT/A	12C-MP						
	HALEX GT	3.6 PT/A	12C-MP						
3	ACURON FLEXI	1.25 QT/A	PRE	96	99	96	0	99	96
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	NIS	0.25 % V/V	12C-MP						
	AATREX	1 QT/A	12C-MP						
	HALEX GT	3.6 PT/A	12C-MP						
4	ACURON	1.5 QT/A	PRE	98	99	96	0	99	98
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON	1.5 QT/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						
5	ACURON FLEXI	1.25 QT/A	PRE	95	99	95	0	99	98
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON FLEXI	1.25 QT/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						
6	ACURON	1.5 QT/A	PRE	98	99	96	2	99	95
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON	1.5 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
7	ACURON FLEXI	1.25 QT/A	PRE	90	99	90	0	99	95
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	ACURON FLEXI	1.25 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
8	CORVUS	3.3 FL OZ/A	PRE	98	99	98	0	99	98
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP						
	CAPRENO HERBICIDE	3 FL OZ/A	12C-MP						
	DIFLEXX	8 FL OZ/A	12C-MP						
	AATREX	1 QT/A	12C-MP						
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP						
	NIS	0.25 % V/V	12C-MP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Giant ragweed common lambsqu>	Morning glory		Giant foxtail	Giant ragweed
Crop Code				ZEAMX	
Crop Name				Corn	
Rating Date	6/16/2016	6/16/2016	6/16/2016	7/18/2016	7/18/2016
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	51 15	51 15	51 15	83 47	83 47
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	16	17	18
9	RESICORE	1.5	QT/A	PRE	94		99	95	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	RESICORE	1.5	QT/A	12C-MP						
	NIS	0.25	% V/V	12C-MP						
10	RESICORE	1.5	QT/A	PRE	96		99	96	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	RESICORE	1.5	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
11	VERDICT	18	FL OZ/A	PRE	95		99	90	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	STATUS	5	OZ WT/A	12C-MP						
	ZIDUA	5	OZ WT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
12	RESICORE	1.5	QT/A	PRE	92		99	88	0	94
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	AATREX	1	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
13	SURESTART II	2	PT/A	PRE	88		99	88	2	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	WARRANT	1	QT/A	12C-MP						
	AATREX	1	QT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
14	INSTIGATE	5.5	OZ WT/A	PRE	98		99	96	0	99
	N-PAK AMS LIQUID	2.5	% V/V	12C-MP						
	REALM Q	4	OZ WT/A	12C-MP						
	ROUNDUP POWERMAX	32	FL OZ/A	12C-MP						
	LSD P=.05				7.8	.	6.7	1.8	3.6	7.6
	Standard Deviation				4.6	0.0	4.0	1.0	2.2	4.5
	CV				5.28	0.0	4.59	440.28	2.36	5.16
	Replicate F				0.532	0.000	2.313	2.167	1.000	0.646
	Replicate Prob(F)				0.5937	1.0000	0.1190	0.1348	0.3816	0.5322
	Treatment F				90.373	0.000	120.033	1.000	447.782	94.508
	Treatment Prob(F)				0.0001	1.0000	0.0001	0.4786	0.0001	0.0001

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	common lambsqu>	Morning glory	
Crop Code			ZEAMX
Crop Name			Corn
Rating Date	7/18/2016	7/18/2016	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	4 WEEK	4 WEEK	
Days After First/Last Applic.	83 47	83 47	
Trt-Eval Interval	AFTER POST	AFTER POST	

Trt No.	Treatment Name	Rate Unit	Growth Stage	19	20	25
1	UNTREATED CHECK			0	0	3
2	ACURON	1.5 QT/A	PRE	99	92	171
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	NIS	0.25 % V/V	12C-MP			
	AATREX	1 QT/A	12C-MP			
	HALEX GT	3.6 PT/A	12C-MP			
3	ACURON FLEXI	1.25 QT/A	PRE	99	94	182
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	NIS	0.25 % V/V	12C-MP			
	AATREX	1 QT/A	12C-MP			
	HALEX GT	3.6 PT/A	12C-MP			
4	ACURON	1.5 QT/A	PRE	99	95	182
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	ACURON	1.5 QT/A	12C-MP			
	NIS	0.25 % V/V	12C-MP			
5	ACURON FLEXI	1.25 QT/A	PRE	99	98	166
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	ACURON FLEXI	1.25 QT/A	12C-MP			
	NIS	0.25 % V/V	12C-MP			
6	ACURON	1.5 QT/A	PRE	99	91	171
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	ACURON	1.5 QT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
7	ACURON FLEXI	1.25 QT/A	PRE	99	91	150
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	ACURON FLEXI	1.25 QT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
8	CORVUS	3.3 FL OZ/A	PRE	99	98	191
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	CAPRENO HERBICIDE	3 FL OZ/A	12C-MP			
	DIFLEXX	8 FL OZ/A	12C-MP			
	AATREX	1 QT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
	NIS	0.25 % V/V	12C-MP			

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	common lambsqu>	Morning glory	
Crop Code			ZEAMX
Crop Name			Corn
Rating Date	7/18/2016	7/18/2016	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	4 WEEK	4 WEEK	
Days After First/Last Applic.	83 47	83 47	
Trt-Eval Interval	AFTER POST	AFTER POST	

Trt No.	Treatment Name	Rate	Growth Stage	19	20	25
9	RESICORE	1.5 QT/A	PRE	99	94	170
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	RESICORE	1.5 QT/A	12C-MP			
	NIS	0.25 % V/V	12C-MP			
10	RESICORE	1.5 QT/A	PRE	99	93	184
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	RESICORE	1.5 QT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
11	VERDICT	18 FL OZ/A	PRE	99	96	173
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	STATUS	5 OZ WT/A	12C-MP			
	ZIDUA	5 OZ WT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
12	RESICORE	1.5 QT/A	PRE	99	90	180
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	AATREX	1 QT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
13	SURESTART II	2 PT/A	PRE	99	90	181
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	WARRANT	1 QT/A	12C-MP			
	AATREX	1 QT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
14	INSTIGATE	5.5 OZ WT/A	PRE	99	95	166
	N-PAK AMS LIQUID	2.5 % V/V	12C-MP			
	REALM Q	4 OZ WT/A	12C-MP			
	ROUNDUP POWERMAX	32 FL OZ/A	12C-MP			
LSD P=.05				.	8.3	14.0
Standard Deviation				0.0	4.9	8.4
CV				0.0	5.68	5.15
Replicate F				0.000	2.058	0.341
Replicate Prob(F)				1.0000	0.1480	0.7145
Treatment F				0.000	77.787	94.199
Treatment Prob(F)				1.0000	0.0001	0.0001

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CORN POSTEMERGENCE III

Trial ID: C16011	Location: LEXINGTON, KY	Trial Year: 2016
Protocol ID: SYN-CORN-PRE	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: SCOTT CULLY	

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

ARM Action Codes

TY1 = $4.57563 * [22] * (100 - [23]) / 85$

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 14
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL	silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM	
% Clay: 32	CEC: 18	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B
Application Date:	4/26/2016	6/1/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	87 F
% Relative Humidity:	30	46
Wind Velocity, Unit:	6 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	63 F	72 F
Soil Moisture:	DRY	GOOD
% Cloud Cover:	40	50
Next Moisture Occurred On:	4/26/2016	6/2/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	12	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:	5	IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2	IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

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CORN POSTEMERGENCE IV

Trial ID: C16012
Protocol ID: AMVAC-CORN-RR
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: RICHARD PORTER

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	6/29/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	50 14	50 14	50 14	50 14	50 14	64 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	UNTREATED CHECK			0	0	0	0	0	0
2	HARNESX XTRA	3.6 PT/A	PRE	0	99	99	99	99	0
	IMPACT	0.75 FL OZ/A	MP						
	AATREX	1 PT/A	MP						
	MSO	1 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
3	HARNESX XTRA	3.6 PT/A	PRE	0	99	99	99	99	0
	IMPACT	0.75 FL OZ/A	MP						
	STATUS	3 OZ/A	MP						
	AATREX	1 PT/A	MP						
	MSO	1 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
4	HARNESX XTRA	3.6 PT/A	PRE	0	98	99	99	99	0
	IMPACT	0.75 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AATREX	1 PT/A	MP						
	MSO	0.5 % V/V	MP						
	N-PAK AMS LIQUID	2.5 % V/V	MP						
5	HARNESX XTRA	3.2 PT/A	EP	0	99	93	99	99	0
	IMPACT	1 FL OZ/A	EP						
	MSO	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
6	HALEX GT	3.6 PT/A	EP	0	99	99	99	99	0
	AATREX	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
	LSD P=.05			.	1.7	3.9	.	.	.
	Standard Deviation			0.0	0.9	2.1	0.0	0.0	0.0
	CV			0.0	1.15	2.6	0.0	0.0	0.0
	Replicate F			0.000	1.000	1.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	0.4019	0.4019	1.0000	1.0000	1.0000
	Treatment F			0.000	5484.363	1066.600	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	0.0001	0.0001	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,4,5,6,9,10,11,14,15 because error mean square = 0.

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Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	UNTREATED CHECK			0	0	0	0	0	0
2	HARNESX XTRA	3.6 PT/A	PRE	99	93	99	95	0	99
	IMPACT	0.75 FL OZ/A	MP						
	AATREX	1 PT/A	MP						
	MSO	1 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
3	HARNESX XTRA	3.6 PT/A	PRE	99	87	99	90	0	99
	IMPACT	0.75 FL OZ/A	MP						
	STATUS	3 OZ/A	MP						
	AATREX	1 PT/A	MP						
	MSO	1 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
4	HARNESX XTRA	3.6 PT/A	PRE	98	95	99	95	0	98
	IMPACT	0.75 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AATREX	1 PT/A	MP						
	MSO	0.5 % V/V	MP						
	N-PAK AMS LIQUID	2.5 % V/V	MP						
5	HARNESX XTRA	3.2 PT/A	EP	99	92	99	95	0	99
	IMPACT	1 FL OZ/A	EP						
	MSO	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
6	HALEX GT	3.6 PT/A	EP	99	91	99	90	0	99
	AATREX	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
	LSD P=.05			1.7	3.4	.	.	.	1.7
	Standard Deviation			0.9	1.9	0.0	0.0	0.0	0.9
	CV			1.15	2.45	0.0	0.0	0.0	1.15
	Replicate F			1.000	1.019	0.000	0.000	0.000	1.000
	Replicate Prob(F)			0.4019	0.3955	1.0000	1.0000	1.0000	0.4019
	Treatment F			5484.363	1207.010	0.000	0.000	0.000	5484.363
	Treatment Prob(F)			0.0001	0.0001	1.0000	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsqu> Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7/27/2016	7/27/2016	7/27/2016	9/21/2016
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	92 56	92 56	92 56	148 112
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	20
1	UNTREATED CHECK			0	0	0	4
2	HARNESX XTRA	3.6 PT/A	PRE	93	99	95	176
	IMPACT	0.75 FL OZ/A	MP				
	AATREX	1 PT/A	MP				
	MSO	1 % V/V	MP				
	UAN-28%	2.5 % V/V	MP				
3	HARNESX XTRA	3.6 PT/A	PRE	87	99	90	169
	IMPACT	0.75 FL OZ/A	MP				
	STATUS	3 OZ/A	MP				
	AATREX	1 PT/A	MP				
	MSO	1 % V/V	MP				
	UAN-28%	2.5 % V/V	MP				
4	HARNESX XTRA	3.6 PT/A	PRE	95	99	95	168
	IMPACT	0.75 FL OZ/A	MP				
	ROUNDUP POWERMAX	32 FL OZ/A	MP				
	AATREX	1 PT/A	MP				
	MSO	0.5 % V/V	MP				
	N-PAK AMS LIQUID	2.5 % V/V	MP				
5	HARNESX XTRA	3.2 PT/A	EP	92	99	95	156
	IMPACT	1 FL OZ/A	EP				
	MSO	0.25 % V/V	EP				
	N-PAK AMS LIQUID	2.5 % V/V	EP				
6	HALEX GT	3.6 PT/A	EP	91	99	90	169
	AATREX	1 PT/A	EP				
	NIS	0.25 % V/V	EP				
	N-PAK AMS LIQUID	2.5 % V/V	EP				
	LSD P=.05			3.4	.	.	14.1
	Standard Deviation			1.9	0.0	0.0	7.8
	CV			2.45	0.0	0.0	5.55
	Replicate F			1.019	0.000	0.000	1.052
	Replicate Prob(F)			0.3955	1.0000	1.0000	0.3850
	Treatment F			1207.010	0.000	0.000	224.061
	Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001

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CORN POSTEMERGENCE IV

Trial ID: C16012
Protocol ID: AMVAC-CORN-RR
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: RICHARD PORTER

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

ARM Action Codes

TY1 = $4.57563 * [17] * (100 - [18]) / 85$

University of Kentucky

CORN POSTEMERGENCE IV

Trial ID: C16012 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: AMVAC-CORN-RR Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RICHARD PORTER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT²
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6
% Silt: 62
% Clay: 32

% OM: 2.6
pH: 6.4
CEC: 18

Texture: SIL silt loam
Soil Name: MAURY SILT LOAM
Fert. Level: E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP
Distance, Unit: 1.5 MI

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Application Description

	A	B	C
Application Date:	4/26/2016	5/19/2016	6/1/2016
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:	75 F	68 F	87 F
% Relative Humidity:	30	47	46
Wind Velocity, Unit:	6 MPH	8 MPH	6 MPH
Wind Direction:	SW	NE	SW
Soil Temperature, Unit:	59 F	60 F	72 F
Soil Moisture:	DRY	EXCELL	GOOD
% Cloud Cover:	40	30	50
Next Moisture Occurred On:	4/26/2016	5/20/2016	6/1/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
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:	2 IN	4 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	3 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
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

University of Kentucky

CORN POSTEMERGENCE V

Trial ID: C16014 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ISK-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DENNIS TONKS

Pest Type		W Weed	W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	CHEAL	IPOSS				
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Morning glory				
Crop Code	ZEAMX				ZEAMX				
Crop Name	Corn				Corn				
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/17/2016			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK			
Days After First/Last Applic.	38 15	38 15	38 15	38 15	38 15	52 29			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Trt No.	Treatment	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED CHECK			0	0	0	0	0	0
2	DUAL II MAGNUM	1.5 PT/A	PRE	0	99	50	99	50	0
3	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99	0
	ATRAZINE	1.75 PT/A	MP						
	MSO	0.5 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
4	TOLPYRALATE	1.37 FL OZ/A	MP	0	99	99	99	99	0
	ATRAZINE	1.75 PT/A	MP						
	MSO	0.5 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
5	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99	0
	ATRAZINE	1.75 PT/A	MP						
	DUAL II MAGNUM	2 PT/A	MP						
	MSO	0.5 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
6	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99	0
	ATRAZINE	1.75 PT/A	MP						
	SURPASS NXT	2.25 PT/A	MP						
	MSO	0.5 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
7	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99	0
	ATRAZINE	1.75 PT/A	MP						
	STATUS	5 OZ WT/A	MP						
	MSO	0.5 % V/V	MP						
	UAN-28%	2.5 % V/V	MP						
8	DUAL II MAGNUM	1.5 PT/A	PRE	0	99	99	99	99	0
	TOLPYRALATE	1 FL OZ/A	+MP						
	ATRAZINE	2 PT/A	+MP						
	MSO	0.5 % V/V	+MP						
	UAN-28%	2.5 % V/V	+MP						
9	DUAL II MAGNUM	1.5 PT/A	PRE	0	99	99	99	99	0
	TOLPYRALATE	1.37 FL OZ/A	+MP						
	ATRAZINE	2 PT/A	+MP						
	MSO	0.5 % V/V	+MP						
	UAN-28%	2.5 % V/V	+MP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,9,11,14 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail Giant ragweed common lambsqu> Morning glory				
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/17/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	38 15	38 15	38 15	38 15	38 15	52 29
Trt-Eval Interval		AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
10	DUAL II MAGNUM	1.5	PT/A	PRE	0	99	99	99	99	0
	TOLPYRALATE	1	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	DUAL II MAGNUM	2	PT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
11	DUAL II MAGNUM	1.5	PT/A	PRE	0	99	99	99	99	0
	TOLPYRALATE	1	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	SURPASS NXT	2.25	PT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
12	DUAL II MAGNUM	1.5	PT/A	PRE	0	99	99	99	99	0
	TOLPYRALATE	1.37	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	ROUNDUP POWERMAX	22	FL OZ/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
13	DUAL II MAGNUM	1.5	PT/A	PRE	0	99	99	99	99	0
	TOLPYRALATE	1.37	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	STEADFAST Q	1.5	OZ WT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
14	DUAL II MAGNUM	1.5	PT/A	PRE	0	99	99	99	99	0
	CALLISTO	3	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	COC	1	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
15	DUAL II MAGNUM	1.5	PT/A	PRE	0	99	99	99	99	0
	IMPACT	1	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
16	CHECK UNTREATED				0	0	0	0	0	0
	LSD P=.05				.	.	.	.	.	.
	Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F				0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA			
Pest Name	Giant foxtail	Giant ragweed common	lambsqu>	Morning glory	Giant foxtail			
Crop Code					ZEAMX			
Crop Name					Corn			
Rating Date	6/17/2016	6/17/2016	6/17/2016	6/17/2016	7/18/2016	7/18/2016		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	52 29	52 29	52 29	52 29	83 60	83 60		
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST		
Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
1 UNTREATED CHECK			0	0	0	0	0	0
2 DUAL II MAGNUM	1.5 PT/A	PRE	99	10	99	10	0	99
3 TOLPYRALATE	1 FL OZ/A	MP	96	70	99	88	0	96
ATRAZINE	1.75 PT/A	MP						
MSO	0.5 % V/V	MP						
UAN-28%	2.5 % V/V	MP						
4 TOLPYRALATE	1.37 FL OZ/A	MP	99	80	99	85	0	99
ATRAZINE	1.75 PT/A	MP						
MSO	0.5 % V/V	MP						
UAN-28%	2.5 % V/V	MP						
5 TOLPYRALATE	1 FL OZ/A	MP	99	80	99	85	0	99
ATRAZINE	1.75 PT/A	MP						
DUAL II MAGNUM	2 PT/A	MP						
MSO	0.5 % V/V	MP						
UAN-28%	2.5 % V/V	MP						
6 TOLPYRALATE	1 FL OZ/A	MP	99	80	99	80	0	99
ATRAZINE	1.75 PT/A	MP						
SURPASS NXT	2.25 PT/A	MP						
MSO	0.5 % V/V	MP						
UAN-28%	2.5 % V/V	MP						
7 TOLPYRALATE	1 FL OZ/A	MP	99	88	99	87	0	99
ATRAZINE	1.75 PT/A	MP						
STATUS	5 OZ WT/A	MP						
MSO	0.5 % V/V	MP						
UAN-28%	2.5 % V/V	MP						
8 DUAL II MAGNUM	1.5 PT/A	PRE	99	85	99	85	0	99
TOLPYRALATE	1 FL OZ/A	+MP						
ATRAZINE	2 PT/A	+MP						
MSO	0.5 % V/V	+MP						
UAN-28%	2.5 % V/V	+MP						
9 DUAL II MAGNUM	1.5 PT/A	PRE	99	85	99	88	0	99
TOLPYRALATE	1.37 FL OZ/A	+MP						
ATRAZINE	2 PT/A	+MP						
MSO	0.5 % V/V	+MP						
UAN-28%	2.5 % V/V	+MP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed common	lambsqu>	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6/17/2016	6/17/2016	6/17/2016	6/17/2016	7/18/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	52 29	52 29	52 29	52 29	83 60
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	7	8	9	10	11	12
10	DUAL II MAGNUM	1.5	PT/A	PRE	99	85	99	91	0	99
	TOLPYRALATE	1	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	DUAL II MAGNUM	2	PT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
11	DUAL II MAGNUM	1.5	PT/A	PRE	99	85	99	85	0	99
	TOLPYRALATE	1	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	SURPASS NXT	2.25	PT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
12	DUAL II MAGNUM	1.5	PT/A	PRE	99	87	99	88	0	99
	TOLPYRALATE	1.37	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	ROUNDUP POWERMAX	22	FL OZ/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
13	DUAL II MAGNUM	1.5	PT/A	PRE	99	95	99	95	0	99
	TOLPYRALATE	1.37	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	STEADFAST Q	1.5	OZ WT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
14	DUAL II MAGNUM	1.5	PT/A	PRE	99	90	99	99	0	99
	CALLISTO	3	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	COC	1	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
15	DUAL II MAGNUM	1.5	PT/A	PRE	99	90	99	89	0	99
	IMPACT	1	FL OZ/A	+MP						
	ATRAZINE	1.75	PT/A	+MP						
	MSO	0.5	% V/V	+MP						
	UAN-28%	2.5	% V/V	+MP						
16	CHECK UNTREATED				0	0	0	0	0	0
	LSD P=.05				2.2	0.7	.	3.2	.	2.2
	Standard Deviation				1.3	0.4	0.0	1.9	0.0	1.3
	CV				1.5	0.62	0.0	2.67	0.0	1.5
	Replicate F				1.000	1.000	0.000	0.808	0.000	1.000
	Replicate Prob(F)				0.3798	0.3798	1.0000	0.4550	1.0000	0.3798
	Treatment F				2025.000	17740.535	0.000	962.048	0.000	2025.000
	Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	1.0000	0.0001

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Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	20
1	UNTREATED CHECK				0	0	0	1
2	DUAL II MAGNUM	1.5	PT/A	PRE	10	99	10	1
3	TOLPYRALATE	1	FL OZ/A	MP	70	99	88	148
	ATRAZINE	1.75	PT/A	MP				
	MSO	0.5	% V/V	MP				
	UAN-28%	2.5	% V/V	MP				
4	TOLPYRALATE	1.37	FL OZ/A	MP	80	99	85	161
	ATRAZINE	1.75	PT/A	MP				
	MSO	0.5	% V/V	MP				
	UAN-28%	2.5	% V/V	MP				
5	TOLPYRALATE	1	FL OZ/A	MP	80	99	85	134
	ATRAZINE	1.75	PT/A	MP				
	DUAL II MAGNUM	2	PT/A	MP				
	MSO	0.5	% V/V	MP				
	UAN-28%	2.5	% V/V	MP				
6	TOLPYRALATE	1	FL OZ/A	MP	80	99	80	156
	ATRAZINE	1.75	PT/A	MP				
	SURPASS NXT	2.25	PT/A	MP				
	MSO	0.5	% V/V	MP				
	UAN-28%	2.5	% V/V	MP				
7	TOLPYRALATE	1	FL OZ/A	MP	88	99	87	148
	ATRAZINE	1.75	PT/A	MP				
	STATUS	5	OZ WT/A	MP				
	MSO	0.5	% V/V	MP				
	UAN-28%	2.5	% V/V	MP				
8	DUAL II MAGNUM	1.5	PT/A	PRE	85	99	85	132
	TOLPYRALATE	1	FL OZ/A	+MP				
	ATRAZINE	2	PT/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
9	DUAL II MAGNUM	1.5	PT/A	PRE	85	99	88	162
	TOLPYRALATE	1.37	FL OZ/A	+MP				
	ATRAZINE	2	PT/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsqu> Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7/18/2016	7/18/2016	7/18/2016	9/21/2016
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	83 60	83 60	83 60	148 125
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	20
10	DUAL II MAGNUM	1.5	PT/A	PRE	83		99	91
	TOLPYRALATE	1	FL OZ/A	+MP				137
	ATRAZINE	1.75	PT/A	+MP				
	DUAL II MAGNUM	2	PT/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
11	DUAL II MAGNUM	1.5	PT/A	PRE	83		99	85
	TOLPYRALATE	1	FL OZ/A	+MP				146
	ATRAZINE	1.75	PT/A	+MP				
	SURPASS NXT	2.25	PT/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
12	DUAL II MAGNUM	1.5	PT/A	PRE	88		99	89
	TOLPYRALATE	1.37	FL OZ/A	+MP				163
	ATRAZINE	1.75	PT/A	+MP				
	ROUNDUP POWERMAX	22	FL OZ/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
13	DUAL II MAGNUM	1.5	PT/A	PRE	93		99	93
	TOLPYRALATE	1.37	FL OZ/A	+MP				152
	ATRAZINE	1.75	PT/A	+MP				
	STEADFAST Q	1.5	OZ WT/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
14	DUAL II MAGNUM	1.5	PT/A	PRE	93		99	99
	CALLISTO	3	FL OZ/A	+MP				182
	ATRAZINE	1.75	PT/A	+MP				
	COC	1	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
15	DUAL II MAGNUM	1.5	PT/A	PRE	88		99	88
	IMPACT	1	FL OZ/A	+MP				143
	ATRAZINE	1.75	PT/A	+MP				
	MSO	0.5	% V/V	+MP				
	UAN-28%	2.5	% V/V	+MP				
16	CHECK UNTREATED				0		0	0
LSD P=.05					3.5			3.5
Standard Deviation					2.1		0.0	2.1
CV					3.02		0.0	2.93
Replicate F					0.301		0.000	1.418
Replicate Prob(F)					0.7421		1.0000	0.2580
Treatment F					759.278		0.000	794.542
Treatment Prob(F)					0.0001		1.0000	0.0001

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CORN POSTEMERGENCE V

Trial ID: C16014 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ISK-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DENNIS TONKS

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

ARM Action Codes

TY1 = $4.57563 \cdot [17] \cdot (100 - [18]) / 85$

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CORN POSTEMERGENCE V

Trial ID: C16014 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ISK-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DENNIS TONKS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
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Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 16
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL	silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM	
% Clay: 32	CEC: 18	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B	C
Application Date:	4/26/2016	5/19/2016	5/19/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	68 F	68 F
% Relative Humidity:	30	47	47
Wind Velocity, Unit:	6 MPH	8 MPH	8 MPH
Wind Direction:	SW	NE	NE
Soil Temperature, Unit:	58 F	61 F	61 F
Soil Moisture:	DRY	EXCELL	EXCELL
% Cloud Cover:	40	30	30
Next Moisture Occurred On:	4/26/2016	5/20/2016	5/20/2016

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

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CORN POSTEMERGENCE VI

Trial ID: C16015 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-24-15 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	5/17/2016	5/17/2016	5/17/2016	5/17/2016	5/17/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval					

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	HARNESX XTRA	3.9 LB	AI/A	PRE	0	99	80	99	85
	ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
2	DEGREE XTRA	3 LB	AI/A	PRE	0	99	70	99	70
	ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
3	TRIPLEFLEX	1.6 LB	AI/A	PRE	0	99	70	99	70
	AATREX	1 LB	AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
4	HARNESX XTRA	3 LB	AI/A	PRE	0	99	88	99	90
	BALANCE FLEXX	0.047 LB	AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
5	DEGREE XTRA	2.32 LB	AI/A	PRE	0	99	85	99	85
	BALANCE FLEXX	0.047 LB	AI/A	PRE					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
6	CORVUS	0.082 LB	AI/A	PRE	0	99	90	99	90
	AATREX	1 LB	AI/A	PRE					
7	LUMAX EZ	2.76 LB	AI/A	PRE	0	99	90	99	90
8	HALEX GT	2.2 LB	AI/A	4"W	0	99	70	99	70
	CLASS ACT NEXT GENERATION	2.5 %	V/V	4"W					
9	AATREX	1 LB	AI/A	PRE	0	99	80	99	80
	HALEX GT	5.5 %	V/V	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
10	REALM Q	0.097 LB	AI/A	PRE	0	99	95	99	95
	CINCH ATZ	3.58 LB	AI/A	PRE					
	ABUNDIT EXTRA	1.1 LB	AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
11	DEGREE XTRA	2.53 LB	AI/A	PRE	0	99	85	99	80
	ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W					
	IMPACT	0.0164 LB	AI/A	4"W					
	WARRANT	1.13 LB	AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,11,12,14,16,17,19 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed common	lambsqu>	Morning glory
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	5/17/2016	5/17/2016	5/17/2016	5/17/2016	5/17/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval					

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
12	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	80	99	85
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	IMPACT	0.0164	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
13	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	80	99	80
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	STATUS	0.115	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
14	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	80	99	85
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	TRIPLEFLEX	1.6	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
	LSD P=.05				.	.	.	.	.
	Standard Deviation				0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0
	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

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/3/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	38 11	38 11	38 11	38 11	38 11
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
1	HARNESX XTRA	3.9	LB AI/A	PRE	0	99	96	99	96
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
2	DEGREE XTRA	3	LB AI/A	PRE	0	99	95	99	95
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
3	TRIPLEFLEX	1.6	LB AI/A	PRE	0	99	95	99	98
	AATREX	1	LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
4	HARNESX XTRA	3	LB AI/A	PRE	0	99	93	99	93
	BALANCE FLEXX	0.047	LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
5	DEGREE XTRA	2.32	LB AI/A	PRE	0	99	96	99	95
	BALANCE FLEXX	0.047	LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
6	CORVUS	0.082	LB AI/A	PRE	0	99	90	99	90
	AATREX	1	LB AI/A	PRE					
7	LUMAX EZ	2.76	LB AI/A	PRE	0	99	90	99	90
8	HALEX GT	2.2	LB AI/A	4"W	0	99	99	99	99
	CLASS ACT NEXT GENERATION	2.5	% V/V	4"W					
9	AATREX	1	LB AI/A	PRE	0	99	99	99	99
	HALEX GT	5.5	% V/V	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
10	REALM Q	0.097	LB AI/A	PRE	0	99	99	99	99
	CINCH ATZ	3.58	LB AI/A	PRE					
	ABUNDIT EXTRA	1.1	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
11	DEGREE XTRA	2.53	LB AI/A	PRE	0	99	99	99	99
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	IMPACT	0.0164	LB AI/A	4"W					
	WARRANT	1.13	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/3/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	38 11	38 11	38 11	38 11	38 11
Trt-Eval Interval		AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
12	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	99	99	99
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	IMPACT	0.0164	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
13	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	99	99	99
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	STATUS	0.115	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
14	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	99	99	99
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	TRIPLEFLEX	1.6	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
	LSD P=.05				.	.	3.4	.	1.9
	Standard Deviation				0.0	0.0	2.0	0.0	1.1
	CV				0.0	0.0	2.12	0.0	1.14
	Replicate F				0.000	0.000	2.086	0.000	2.600
	Replicate Prob(F)				1.0000	1.0000	0.1444	1.0000	0.0935
	Treatment F				0.000	0.000	8.037	0.000	27.310
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	0.0001

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	6/20/2016	6/20/2016	6/20/2016	6/20/2016	6/20/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	55 28	55 28	55 28	55 28	55 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
1	HARNESX XTRA	3.9	LB AI/A	PRE	0	95	85	99	89
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
2	DEGREE XTRA	3	LB AI/A	PRE	0	99	85	99	88
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
3	TRIPLEFLEX	1.6	LB AI/A	PRE	0	99	82	99	82
	AATREX	1	LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
4	HARNESX XTRA	3	LB AI/A	PRE	0	99	85	99	88
	BALANCE FLEXX	0.047	LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
5	DEGREE XTRA	2.32	LB AI/A	PRE	0	99	87	99	88
	BALANCE FLEXX	0.047	LB AI/A	PRE					
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
6	CORVUS	0.082	LB AI/A	PRE	0	99	80	99	85
	AATREX	1	LB AI/A	PRE					
7	LUMAX EZ	2.76	LB AI/A	PRE	0	99	80	99	90
8	HALEX GT	2.2	LB AI/A	4"W	0	99	89	99	90
	CLASS ACT NEXT GENERATION	2.5	% V/V	4"W					
9	AATREX	1	LB AI/A	PRE	0	99	95	99	95
	HALEX GT	5.5	% V/V	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
10	REALM Q	0.097	LB AI/A	PRE	0	99	95	99	95
	CINCH ATZ	3.58	LB AI/A	PRE					
	ABUNDIT EXTRA	1.1	LB AE/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					
11	DEGREE XTRA	2.53	LB AI/A	PRE	0	99	90	99	92
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	IMPACT	0.0164	LB AI/A	4"W					
	WARRANT	1.13	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5	% V/V	+4"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	6/20/2016	6/20/2016	6/20/2016	6/20/2016	6/20/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	55 28	55 28	55 28	55 28	55 28
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
12	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	89	99	90
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	IMPACT	0.0164	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
13	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	90	99	90
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	STATUS	0.115	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
14	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	87	99	88
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W					
	TRIPLEFLEX	1.6	LB AI/A	+4"W					
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W					
	LSD P=.05				.	.	1.9	.	1.9
	Standard Deviation				0.0	0.0	1.1	0.0	1.2
	CV				0.0	0.0	1.3	0.0	1.3
	Replicate F				0.000	0.000	0.241	0.000	0.335
	Replicate Prob(F)				1.0000	1.0000	0.7875	1.0000	0.7183
	Treatment F				0.000	0.000	53.061	0.000	26.677
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	0.0001

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Pest Type		W Weed	W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	CHEAL	IPOSS				
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory				
Crop Code	ZEAMX					ZEAMX			
Crop Name	Corn					Corn			
Rating Date	7/18/2016	7/18/2016	7/18/2016	7/18/2016	7/18/2016				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Rating Timing	8 WEEK	8 WEEK	4 WEEK	8 WEEK	8 WEEK				
Days After First/Last Applic.	83 56	83 56	83 56	83 56	83 56				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Trt Treatment	Rate	Rate	Growth						
No. Name	Rate	Unit	Stage	16	17	18	19	20	25
1 HARNESS XTRA	3.9 LB	AI/A	PRE	0	95	85	99	89	132
ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
2 DEGREE XTRA	3 LB	AI/A	PRE	0	99	85	99	88	137
ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
3 TRIPLEFLEX	1.6 LB	AI/A	PRE	0	99	83	99	83	150
AATREX	1 LB	AI/A	PRE						
ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
4 HARNESS XTRA	3 LB	AI/A	PRE	0	99	85	99	88	150
BALANCE FLEXX	0.047 LB	AI/A	PRE						
ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
5 DEGREE XTRA	2.32 LB	AI/A	PRE	0	99	87	99	88	160
BALANCE FLEXX	0.047 LB	AI/A	PRE						
ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
6 CORVUS	0.082 LB	AI/A	PRE	0	99	80	99	85	116
AATREX	1 LB	AI/A	PRE						
7 LUMAX EZ	2.76 LB	AI/A	PRE	0	99	80	99	90	73
8 HALEX GT	2.2 LB	AI/A	4"W	0	99	89	99	90	161
CLASS ACT NEXT GENERATION	2.5 %	V/V	4"W						
9 AATREX	1 LB	AI/A	PRE	0	99	95	99	95	168
HALEX GT	5.5 %	V/V	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
10 REALM Q	0.097 LB	AI/A	PRE	0	99	95	99	95	178
CINCH ATZ	3.58 LB	AI/A	PRE						
ABUNDIT EXTRA	1.1 LB	AE/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
11 DEGREE XTRA	2.53 LB	AI/A	PRE	0	99	90	99	92	152
ROUNDUP POWERMAX	1.13 LB	AE/A	+4"W						
IMPACT	0.0164 LB	AI/A	4"W						
WARRANT	1.13 LB	AI/A	+4"W						
CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						

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Pest Type		W Weed	W Weed	W Weed	W Weed					
Pest Code		SETFA	AMBTR	CHEAL	IPOSS					
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory					
Crop Code	ZEAMX					ZEAMX				
Crop Name	Corn					Corn				
Rating Date	7/18/2016	7/18/2016	7/18/2016	7/18/2016	7/18/2016					
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU				
Rating Timing	8 WEEK	8 WEEK	4 WEEK	8 WEEK	8 WEEK					
Days After First/Last Applic.	83 56	83 56	83 56	83 56	83 56					
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST					
Trt No.	Treatment Name	Rate	Unit	Growth Stage	16	17	18	19	20	25
12	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	89	99	90	155
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W						
	IMPACT	0.0164	LB AI/A	+4"W						
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
13	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	90	99	90	155
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W						
	STATUS	0.115	LB AI/A	+4"W						
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
14	DEGREE XTRA	3.03	LB AI/A	PRE	0	99	87	99	88	150
	ROUNDUP POWERMAX	1.13	LB AE/A	+4"W						
	TRIPLEFLEX	1.6	LB AI/A	+4"W						
	CLASS ACT NEXT GENERATION	2.5 %	V/V	+4"W						
	LSD P=.05				.	.	1.9	.	2.0	10.2
	Standard Deviation				0.0	0.0	1.1	0.0	1.2	6.1
	CV				0.0	0.0	1.28	0.0	1.31	4.18
	Replicate F				0.000	0.000	0.710	0.000	0.069	0.957
	Replicate Prob(F)				1.0000	1.0000	0.5007	1.0000	0.9334	0.3970
	Treatment F				0.000	0.000	51.606	0.000	22.335	54.640
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	0.0001	0.0001

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CORN POSTEMERGENCE VI

Trial ID: C16015 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: MON-24-15 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: DAN CHILDS

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

ARM Action Codes

TY1 = $4.57563 * [22] * (100 - [23]) / 85$

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CORN POSTEMERGENCE VI

Trial ID: C16015 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-24-15 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016 **Planned Completion Date:** 10/1/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016

Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 14
Replications: 3
Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B	C
Application Date:	4/26/2016	5/23/2016	5/23/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	4"W	+4"W
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	75 F	75 F
% Relative Humidity:	30	50	50
Wind Velocity, Unit:	6 MPH	7 MPH	7 MPH
Wind Direction:	SW	ENE3	ENE3
Soil Temperature, Unit:	59 F	64 F	64 F
Soil Moisture:	DRY	EXCELL	EXCELL
% Cloud Cover:	40	0	0
Next Moisture Occurred On:	4/26/2016	5/26/2016	5/26/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	10 IN	10 IN	10 IN

Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8003 DG	8003 DG	8003 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Mix Size, Unit:	2 liters	2 liters	2 liters
Propellant:	CO2	CO2	CO2

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CORN POSTEMERGENCE VII

Trial ID: C16016 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DOW-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

				W Weed	W Weed	W Weed	W Weed		
				SETFA	AMBTR	CHEAL	IPOSS		
				Giant foxtail	Giant ragweed common lambsqu>	Morning glory			
Pest Type									
Pest Code									
Pest Name									
Crop Code	ZEAMX						ZEAMX		
Crop Name	Corn						Corn		
Rating Type	INJURY			CONTROL	CONTROL	CONTROL	CONTROL	INJURY	
Rating Unit	PERCENT			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Timing	BEFORE POST			BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK	
Trt-Eval Interval							AFTER POST		
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	
1 FULTIME NXT	3 QT/A	PRE	0	99	80	99	80	0	
DURANGO DMA	1 QT/A	MP							
AMS	2.5 % V/V	MP							
2 SURESTART II	2 PT/A	PRE	0	99	99	95	95	0	
AATREX	1 QT/A	PRE							
DURANGO DMA	1 QT/A	MP							
AMS	2.5 % V/V	MP							
3 SURESTART II	2 PT/A	EP	0	99	80	99	80	0	
DURANGO DMA	1 QT/A	EP							
AATREX	1 QT/A	EP							
AMS	2.5 % V/V	EP							
4 RESICORE	2.5 QT/A	PRE	0	99	95	99	95	0	
AATREX	1 QT/A	PRE							
DURANGO DMA	1 QT/A	MP							
AMS	2.5 % V/V	MP							
5 RESICORE	1.5 QT/A	PRE	10	99	99	99	99	10	
AATREX	1 QT/A	PRE							
RESICORE	1.25 QT/A	MP							
AATREX	1 QT/A	MP							
DURANGO DMA	1 QT/A	MP							
AMS	2.5 % V/V	MP							
6 CHECK UNTREATED			0	0	0	0	0	0	
LSD P=.05			.	.	.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	
CV			0.0	0.0	0.0	0.0	0.0	0.0	
Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,14,16,17,19 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code		AMBTR	CHEAL	IPOSS		SETFA	AMBTR		
Pest Name		Giant ragweed common lambsqu> Morning glory				Giant foxtail Giant ragweed			
Crop Code							ZEAMX		
Crop Name							Corn		
Rating Type		CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK		
Trt-Eval Interval		AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST		
Trt No.	Treatment Name	Rate	Growth	13	14	15	16	17	18
		Rate Unit	Stage						
1	FULTIME NXT	3 QT/A	PRE	88	99	88	0	99	88
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
2	SURESTART II	2 PT/A	PRE	95	95	95	0	99	95
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
3	SURESTART II	2 PT/A	EP	87	99	88	0	99	87
	DURANGO DMA	1 QT/A	EP						
	AATREX	1 QT/A	EP						
	AMS	2.5 % V/V	EP						
4	RESICORE	2.5 QT/A	PRE	85	99	87	0	99	85
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
5	RESICORE	1.5 QT/A	PRE	85	99	88	0	99	85
	AATREX	1 QT/A	PRE						
	RESICORE	1.25 QT/A	MP						
	AATREX	1 QT/A	MP						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
6	CHECK UNTREATED			0	0	0	0	0	0
	LSD P=.05			1.3	.	1.3	.	.	1.3
	Standard Deviation			0.7	0.0	0.7	0.0	0.0	0.7
	CV			0.96	0.0	0.95	0.0	0.0	0.96
	Replicate F			1.000	0.000	1.000	0.000	0.000	1.000
	Replicate Prob(F)			0.4019	1.0000	0.4019	1.0000	1.0000	0.4019
	Treatment F			7825.601	0.000	8008.001	0.000	0.000	7825.601
	Treatment Prob(F)			0.0001	1.0000	0.0001	1.0000	1.0000	0.0001

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Trt No.	Treatment Name	Rate	Growth Stage	19	20	25
	Pest Type			W Weed	W Weed	
	Pest Code			CHEAL	IPOSS	
	Pest Name			common lambsqu>	Morning glory	
	Crop Code					ZEAMX
	Crop Name					Corn
	Rating Type			CONTROL	CONTROL	YIELD
	Rating Unit			PERCENT	PERCENT	BU
	Rating Timing			8 WEEK	8 WEEK	
	Trt-Eval Interval			AFTER POST	AFTER POST	
1	FULTIME NXT	3 QT/A	PRE	99	88	160
	DURANGO DMA	1 QT/A	MP			
	AMS	2.5 % V/V	MP			
2	SURESTART II	2 PT/A	PRE	95	95	179
	AATREX	1 QT/A	PRE			
	DURANGO DMA	1 QT/A	MP			
	AMS	2.5 % V/V	MP			
3	SURESTART II	2 PT/A	EP	99	88	191
	DURANGO DMA	1 QT/A	EP			
	AATREX	1 QT/A	EP			
	AMS	2.5 % V/V	EP			
4	RESICORE	2.5 QT/A	PRE	99	87	164
	AATREX	1 QT/A	PRE			
	DURANGO DMA	1 QT/A	MP			
	AMS	2.5 % V/V	MP			
5	RESICORE	1.5 QT/A	PRE	99	88	176
	AATREX	1 QT/A	PRE			
	RESICORE	1.25 QT/A	MP			
	AATREX	1 QT/A	MP			
	DURANGO DMA	1 QT/A	MP			
	AMS	2.5 % V/V	MP			
6	CHECK UNTREATED			0	0	7
	LSD P=.05			.	1.3	12.4
	Standard Deviation			0.0	0.7	6.8
	CV			0.0	0.95	4.66
	Replicate F			0.000	1.000	0.161
	Replicate Prob(F)			1.0000	0.4019	0.8535
	Treatment F			0.000	8008.001	308.359
	Treatment Prob(F)			1.0000	0.0001	0.0001

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CORN POSTEMERGENCE VII

Trial ID: C16016 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: DOW-CORN Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: LAURA CAMPBELL

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

ARM Action Codes

TY1 = $4.57563 * [22] * (100 - [23]) / 85$

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CORN POSTEMERGENCE VII

Trial ID: C16016 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DOW-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

Pest Description

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

Pest 2 Type: W **Code:** AMBTR

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B	C
Application Date:	4/26/2016	5/19/2016	6/1/2016
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:	75 F	68 F	87 F
% Relative Humidity:	30	47	46
Wind Velocity, Unit:	6 MPH	8 MPH	6 MPH
Wind Direction:	SW	NE	SW
Soil Temperature, Unit:	59 F	60 F	71 F
Soil Moisture:	DRY	EXCELL	GOOD
% Cloud Cover:	40	30	50
Next Moisture Occurred On:	4/26/2016	5/20/2016	6/1/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
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:	2 IN	4 IN	
Pest 2 Code, Type, Scale:	W	W	W
Height, Unit:	4 IN	6 IN	
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	2 IN	3 IN	
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1.5 IN	2.5 IN	

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

University of Kentucky

CORN POSTEMERGENCE VIII

Trial ID: C16017
Protocol ID: FMC CORN PRE-POST
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: RUSTY MITCHELL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.				
Trt-Eval Interval				

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	CHECK				0	0	0	0	0
2	ANTHEM MAXX	2.5 OZ/A		PRE	0	99	70	99	70
	SOLSTICE	2.5 OZ/A		V4					
	ATRAZINE	1 LB A/A		V4					
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					
3	ANTHEM MAXX	3 OZ/A		PRE	0	99	75	99	75
	SOLSTICE	2.5 OZ/A		V4					
	ATRAZINE	1 LB A/A		V4					
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					
4	ANTHEM MAXX	2.5 OZ/A		PRE	0	99	88	99	88
	ATRAZINE	1 LB A/A		PRE					
	SOLSTICE	2.5 OZ/A		V4					
	ATRAZINE	1 LB A/A		V4					
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					
5	BICEP II MAGNUM	21 OZ/A		PRE	0	99	90	99	90
	SOLSTICE	2.5 OZ/A		V4					
	ATRAZINE	1 LB A/A		V4					
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					
6	ACURON	2.5 QT/A		PRE	0	99	95	99	95
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					
7	ANTHEM MAXX	3 OZ/A		V4	0	0	0	0	0
	ATRAZINE	1 LB A/A		V4					
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					
8	SOLSTICE	3.15 OZ/A		V4	0	0	0	0	0
	ANTHEM MAXX	2 OZ/A		V4					
	ROUNDUP POWERMAX	22 FL OZ/A		V4					
	COC	1 % V/V		V4					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.				
Trt-Eval Interval				

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5
		Rate Unit						
9	SOLSTICE	2.5 OZ/A	V4	0	0	0	0	0
	ATRAZINE	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
10	SOLSTICE	2.5 OZ/A	V4	0	0	0	0	0
	ANTHEM	2 OZ/A	V4					
	ATRAZINE	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
11	LEXAR	3 QT/A	V4	0	0	0	0	0
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
12	HALEX GT	3.6 PT/A	V4	0	0	0	0	0
	COC	1 % V/V	V4					
LSD P=.05				.	.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0
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

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/17/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After First/Last Applic.	38 11	38 11	38 11	38 11	38 11	52 25
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10	11
1	CHECK				0	0	0	0	0	0
2	ANTHEM MAXX	2.5 OZ/A		PRE	0	99	99	99	99	0
	SOLSTICE	2.5 OZ/A		V4						
	ATRAZINE	1 LB A/A		V4						
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						
3	ANTHEM MAXX	3 OZ/A		PRE	0	99	99	99	99	0
	SOLSTICE	2.5 OZ/A		V4						
	ATRAZINE	1 LB A/A		V4						
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						
4	ANTHEM MAXX	2.5 OZ/A		PRE	0	99	99	99	99	0
	ATRAZINE	1 LB A/A		PRE						
	SOLSTICE	2.5 OZ/A		V4						
	ATRAZINE	1 LB A/A		V4						
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						
5	BICEP II MAGNUM	21 OZ/A		PRE	0	99	99	99	99	0
	SOLSTICE	2.5 OZ/A		V4						
	ATRAZINE	1 LB A/A		V4						
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						
6	ACURON	2.5 QT/A		PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						
7	ANTHEM MAXX	3 OZ/A		V4	0	99	95	99	99	0
	ATRAZINE	1 LB A/A		V4						
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						
8	SOLSTICE	3.15 OZ/A		V4	0	99	99	99	99	0
	ANTHEM MAXX	2 OZ/A		V4						
	ROUNDUP POWERMAX	22 FL OZ/A		V4						
	COC	1 % V/V		V4						

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL	IPOSS					
Pest Name	Giant foxtail Giant ragweed common lambsqu>				Morning glory				
Crop Code	ZEAMX				ZEAMX				
Crop Name	Corn				Corn				
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/17/2016				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Days After First/Last Applic.	38 11	38 11	38 11	38 11	52 25				
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK				
Trt No.	Treatment Name	Rate	Growth Stage	6	7	8	9	10	11
9	SOLSTICE	2.5 OZ/A	V4	0	99	99	99	99	0
	ATRAZINE	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
10	SOLSTICE	2.5 OZ/A	V4	0	99	99	99	99	0
	ANTHEM	2 OZ/A	V4						
	ATRAZINE	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
11	LEXAR	3 QT/A	V4	0	99	99	99	99	0
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
12	HALEX GT	3.6 PT/A	V4	0	99	99	99	99	0
	COC	1 % V/V	V4						
LSD P=.05				.	.	.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA			
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	Morning glory	Giant foxtail			
Crop Code					ZEAMX			
Crop Name					Corn			
Rating Date	6/17/2016	6/17/2016	6/17/2016	6/17/2016	7/18/2016			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Days After First/Last Applic.	52 25	52 25	52 25	52 25	83 56			
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK			
Trt Treatment	Rate	Growth	12	13	14	15	16	17
No. Name	Rate Unit	Stage						
1 CHECK			0	0	0	0	0	0
2 ANTHEM MAXX	2.5 OZ/A	PRE	99	88	99	88	0	99
SOLSTICE	2.5 OZ/A	V4						
ATRAZINE	1 LB A/A	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						
3 ANTHEM MAXX	3 OZ/A	PRE	99	90	99	90	0	99
SOLSTICE	2.5 OZ/A	V4						
ATRAZINE	1 LB A/A	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						
4 ANTHEM MAXX	2.5 OZ/A	PRE	99	90	99	90	0	99
ATRAZINE	1 LB A/A	PRE						
SOLSTICE	2.5 OZ/A	V4						
ATRAZINE	1 LB A/A	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						
5 BICEP II MAGNUM	21 OZ/A	PRE	99	95	99	95	0	99
SOLSTICE	2.5 OZ/A	V4						
ATRAZINE	1 LB A/A	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						
6 ACURON	2.5 QT/A	PRE	99	90	99	90	0	99
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						
7 ANTHEM MAXX	3 OZ/A	V4	99	75	99	75	0	99
ATRAZINE	1 LB A/A	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						
8 SOLSTICE	3.15 OZ/A	V4	99	80	99	80	0	99
ANTHEM MAXX	2 OZ/A	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
COC	1 % V/V	V4						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA				
Pest Name	Giant foxtail	Giant ragweed common	lambsqu>	Morning glory	Giant foxtail				
Crop Code					ZEAMX				
Crop Name					Corn				
Rating Date	6/17/2016	6/17/2016	6/17/2016	6/17/2016	7/18/2016				
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Days After First/Last Applic.	52 25	52 25	52 25	52 25	83 56				
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK				
Trt No.	Treatment Name	Rate	Growth	12	13	14	15	16	17
		Rate Unit	Stage						
9	SOLSTICE	2.5 OZ/A	V4	99	85	99	85	0	99
	ATRAZINE	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
10	SOLSTICE	2.5 OZ/A	V4	99	85	99	85	0	99
	ANTHEM	2 OZ/A	V4						
	ATRAZINE	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
11	LEXAR	3 QT/A	V4	99	90	99	90	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
12	HALEX GT	3.6 PT/A	V4	99	88	99	90	0	99
	COC	1 % V/V	V4						
LSD P=.05									
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsqu> Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7/18/2016	7/18/2016	7/18/2016	
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	AFTER POST	AFTER POST	AFTER POST	
Days After First/Last Applic.	83 56	83 56	83 56	
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	

Trt No.	Treatment Name	Rate	Growth Stage	18	19	20	25
1	CHECK			0	0	0	4
2	ANTHEM MAXX	2.5 OZ/A	PRE	88	99	88	154
	SOLSTICE	2.5 OZ/A	V4				
	ATRAZINE	1 LB A/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
3	ANTHEM MAXX	3 OZ/A	PRE	90	99	92	155
	SOLSTICE	2.5 OZ/A	V4				
	ATRAZINE	1 LB A/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
4	ANTHEM MAXX	2.5 OZ/A	PRE	92	99	92	152
	ATRAZINE	1 LB A/A	PRE				
	SOLSTICE	2.5 OZ/A	V4				
	ATRAZINE	1 LB A/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
5	BICEP II MAGNUM	21 OZ/A	PRE	95	99	95	163
	SOLSTICE	2.5 OZ/A	V4				
	ATRAZINE	1 LB A/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
6	ACURON	2.5 QT/A	PRE	90	99	90	159
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
7	ANTHEM MAXX	3 OZ/A	V4	70	99	73	148
	ATRAZINE	1 LB A/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
8	SOLSTICE	3.15 OZ/A	V4	80	99	80	166
	ANTHEM MAXX	2 OZ/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsqu> Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7/18/2016	7/18/2016	7/18/2016	
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	AFTER POST	AFTER POST	AFTER POST	
Days After First/Last Applic.	83 56	83 56	83 56	
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	

Trt No.	Treatment Name	Rate	Growth Stage	18	19	20	25
9	SOLSTICE	2.5 OZ/A	V4	85	99	85	172
	ATRAZINE	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
10	SOLSTICE	2.5 OZ/A	V4	85	99	85	167
	ANTHEM	2 OZ/A	V4				
	ATRAZINE	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
11	LEXAR	3 QT/A	V4	90	99	92	167
	ROUNDUP POWERMAX	22 FL OZ/A	V4				
	COC	1 % V/V	V4				
12	HALEX GT	3.6 PT/A	V4	88	99	90	162
	COC	1 % V/V	V4				
	LSD P=.05			1.4	.	2.5	8.1
	Standard Deviation			0.8	0.0	1.5	4.8
	CV			1.05	0.0	1.86	3.24
	Replicate F			1.000	0.000	4.086	1.976
	Replicate Prob(F)			0.3840	1.0000	0.0310	0.1625
	Treatment F			2880.509	0.000	912.338	274.253
	Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001

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CORN POSTEMERGENCE VIII

Trial ID: C16017	Location: LEXINGTON, KY	Trial Year: 2016
Protocol ID: FMC CORN PRE-POST	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: RUSTY MITCHELL	

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

ARM Action Codes

TY1 = $4.57563 * [22] * (100 - [23]) / 85$

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CORN POSTEMERGENCE VIII

Trial ID: C16017 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: FMC CORN PRE-POST Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/2/2016

Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 12
Replications: 3

Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Application Description

	A	B
Application Date:	4/26/2016	5/23/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V4
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	75 F
% Relative Humidity:	30	50
Wind Velocity, Unit:	6 MPH	7 MPH
Wind Direction:	SW	ENE3
Soil Temperature, Unit:	I	
Soil Moisture:	DRY	EXCELL
% Cloud Cover:	30	0

Crop Stage At Each Application

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

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Application Equipment

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

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CORN POSTEMERGENCE IX

Trial ID: C16018 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DUP-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5/10/2016	5/10/2016	5/10/2016	5/10/2016	5/10/2016	6/6/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	41 14
Trt-Eval Interval						2 WEEK

Trt Treatment	Rate	Growth	1	2	3	4	5	6
No. Name	Rate Unit	Stage						
1 CHECK UNTREATED			0	0	0	0	0	0
2 LEADOFF			0	99	90	99	90	0
AATREX	1 QT/A	PRE						
REALM Q								
ABUNDIT S	32 FL OZ/A	MP-V5						
ATRAZINE	1.5 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
3 CINCH ATZ	1 QT/A	PRE	0	99	80	99	80	0
REALM Q								
ABUNDIT S	32 FL OZ/A	MP-V5						
ATRAZINE	1.5 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
4 CINCH ATZ	1 QT/A	PRE	0	99	80	99	80	0
RESOLVE Q								
ABUNDIT S	32 FL OZ/A	MP-V5						
ATRAZINE	1.5 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
5 BICEP II MAGNUM	1 QT/A	PRE	0	99	87	99	87	0
HALEX GT	3.6 PT/A	MP-V5						
ATRAZINE	1 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
6 UNTREATED CHECK			0	0	0	0	0	0
LSD P=.05					4.3		4.3	
Standard Deviation			0.0	0.0	2.4	0.0	2.4	0.0
CV			0.0	0.0	4.2	0.0	4.2	0.0
Replicate F			0.000	0.000	1.000	0.000	1.000	0.000
Replicate Prob(F)			1.0000	1.0000	0.4019	1.0000	0.4019	1.0000
Treatment F			0.000	0.000	1028.200	0.000	1028.200	0.000
Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	0.0001	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,4,6,7,8,9,10,11,12,13,14,16,17,18,19 because error mean square = 0.

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Trt No.	Treatment Name	Rate	Unit	Growth Stage	7	8	9	10	11	12
1	CHECK UNTREATED				0	0	0	0	0	0
2	LEADOFF				99	99	99	99	0	99
	AATREX	1 QT/A		PRE						
	REALM Q									
	ABUNDIT S	32 FL OZ/A		MP-V5						
	ATRAZINE	1.5 QT/A		MP-V5						
	NIS	0.25 % V/V		MP-V5						
3	CINCH ATZ	1 QT/A		PRE	99	99	99	99	0	99
	REALM Q									
	ABUNDIT S	32 FL OZ/A		MP-V5						
	ATRAZINE	1.5 QT/A		MP-V5						
	NIS	0.25 % V/V		MP-V5						
4	CINCH ATZ	1 QT/A		PRE	99	99	99	99	0	99
	RESOLVE Q									
	ABUNDIT S	32 FL OZ/A		MP-V5						
	ATRAZINE	1.5 QT/A		MP-V5						
	NIS	0.25 % V/V		MP-V5						
5	BICEP II MAGNUM	1 QT/A		PRE	99	99	99	99	0	99
	HALEX GT	3.6 PT/A		MP-V5						
	ATRAZINE	1 QT/A		MP-V5						
	NIS	0.25 % V/V		MP-V5						
6	UNTREATED CHECK				0	0	0	0	0	0
	LSD P=.05				.	.	.	.	.	.
	Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F				0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	IPOSS	SETFA	AMBTR			
Pest Name	Giant ragweed common lambsqu> Morning glory			Giant foxtail Giant ragweed				
Crop Code	ZEAMX							
Crop Name	Corn							
Rating Date	6/20/2016	6/20/2016	6/20/2016	7/18/2016	7/18/2016			
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Days After First/Last Applic.	55 28	55 28	55 28	83 56	83 56			
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK			
Trt Treatment	Rate	Growth	13	14	15	16	17	18
No. Name	Rate Unit	Stage						
1 CHECK UNTREATED			0	0	0	0	0	0
2 LEADOFF			90	99	90	0	99	90
AATREX	1 QT/A	PRE						
REALM Q								
ABUNDIT S	32 FL OZ/A	MP-V5						
ATRAZINE	1.5 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
3 CINCH ATZ	1 QT/A	PRE	85	99	90	0	99	85
REALM Q								
ABUNDIT S	32 FL OZ/A	MP-V5						
ATRAZINE	1.5 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
4 CINCH ATZ	1 QT/A	PRE	85	99	85	0	99	85
RESOLVE Q								
ABUNDIT S	32 FL OZ/A	MP-V5						
ATRAZINE	1.5 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
5 BICEP II MAGNUM	1 QT/A	PRE	90	99	90	0	99	90
HALEX GT	3.6 PT/A	MP-V5						
ATRAZINE	1 QT/A	MP-V5						
NIS	0.25 % V/V	MP-V5						
6 UNTREATED CHECK			0	0	0	0	0	0
LSD P=.05			.	.	6.0	.	.	.
Standard Deviation			0.0	0.0	3.3	0.0	0.0	0.0
CV			0.0	0.0	5.58	0.0	0.0	0.0
Replicate F			0.000	0.000	1.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	0.4019	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	578.592	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	1.0000	1.0000

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Pest Type		W Weed	W Weed			
Pest Code		CHEAL	IPOSS			
Pest Name		common lambsqu>	Morning glory			
Crop Code				ZEAMX		
Crop Name				Corn		
Rating Date		7/18/2016	7/18/2016			
Rating Type		CONTROL	CONTROL	YIELD		
Rating Unit		PERCENT	PERCENT	BU		
Rating Timing		AFTER POST	AFTER POST			
Days After First/Last Applic.		83 56	83 56			
Trt-Eval Interval		8 WEEK	8 WEEK			
Trt No.	Treatment Name	Rate Unit	Growth Stage	19	20	25
1	CHECK UNTREATED			0	0	1
2	LEADOFF			99	90	191
	AATREX	1 QT/A	PRE			
	REALM Q					
	ABUNDIT S	32 FL OZ/A	MP-V5			
	ATRAZINE	1.5 QT/A	MP-V5			
	NIS	0.25 % V/V	MP-V5			
3	CINCH ATZ	1 QT/A	PRE	99	90	195
	REALM Q					
	ABUNDIT S	32 FL OZ/A	MP-V5			
	ATRAZINE	1.5 QT/A	MP-V5			
	NIS	0.25 % V/V	MP-V5			
4	CINCH ATZ	1 QT/A	PRE	99	85	188
	RESOLVE Q					
	ABUNDIT S	32 FL OZ/A	MP-V5			
	ATRAZINE	1.5 QT/A	MP-V5			
	NIS	0.25 % V/V	MP-V5			
5	BICEP II MAGNUM	1 QT/A	PRE	99	90	170
	HALEX GT	3.6 PT/A	MP-V5			
	ATRAZINE	1 QT/A	MP-V5			
	NIS	0.25 % V/V	MP-V5			
6	UNTREATED CHECK			0	0	4
	LSD P=.05			.	6.0	12.6
	Standard Deviation			0.0	3.3	6.9
	CV			0.0	5.58	5.54
	Replicate F			0.000	1.000	1.182
	Replicate Prob(F)			1.0000	0.4019	0.3460
	Treatment F			0.000	578.592	565.736
	Treatment Prob(F)			1.0000	0.0001	0.0001

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CORN POSTEMERGENCE IX

Trial ID: C16018 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: DUP-CORN Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

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

ARM Action Codes

TY1 = $4.57563 * [22] * (100 - [23]) / 85$

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CORN POSTEMERGENCE IX

Trial ID: C16018 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DUP-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/25/2016 **Planned Completion Date:** 10/1/2016
Completion Date: 9/21/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-90RIB

Planting Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/1/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B
Application Date:	4/26/2016	5/23/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	75 F
% Relative Humidity:	30	50
Wind Velocity, Unit:	6 MPH	7 MPH
Wind Direction:	SW	ENE3
Soil Temperature, Unit:	59 F	64 F
Soil Moisture:	DRY	EXCELL
% Cloud Cover:	40	0
Next Moisture Occurred On:	4/26/2016	5/26/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	8	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:	4	IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2	IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

University of Kentucky

CORN POSTEMERGENCE X

Trial ID: C16019
Protocol ID: BAYER-LL-CORN
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOSHUA JONES

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5/18/2016	5/18/2016	5/18/2016	5/18/2016	5/18/2016	6/3/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST
Days After First/Last Applic.	22 22	22 22	22 22	22 22	22 22	38 11
Trt-Eval Interval						2 WEEK

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	BALANCE FLEXX	1.44 OZ/A	PRE	0	99	85	99	90	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	22 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
3	BALANCE FLEXX	3 OZ/A	PRE	0	99	90	99	90	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	29 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
4	BALANCE FLEXX	3 OZ/A	PRE	0	99	90	99	90	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	36 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
5	BALANCE FLEXX	3 OZ/A	PRE	0	99	90	99	90	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	22 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ATRAZINE	1 PT/A	EP						
6	BALANCE FLEXX	3 OZ/A	PRE	0	99	88	99	88	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	29 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ATRAZINE	1 PT/A	EP						
7	BALANCE FLEXX	3 OZ/A	PRE	0	99	90	99	90	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	36 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ATRAZINE	1 PT/A	EP						
8	BALANCE FLEXX	3 OZ/A	PRE	0	99	95	99	90	0
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	22 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	LAUDIS	3 OZ/A	EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,11,12,14,16,17,19 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	5/18/2016	5/18/2016	5/18/2016	5/18/2016	5/18/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.	22 22	22 22	22 22	22 22	22 22
Trt-Eval Interval					38 11 2 WEEK

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Replicates					
					1	2	3	4	5	6
9	BALANCE FLEXX	3 OZ/A		PRE	0	99	80	99	80	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	LAUDIS	3 OZ/A		EP						
10	BALANCE FLEXX	3 OZ/A		PRE	0	99	70	99	75	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	36 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	LAUDIS	3 OZ/A		EP						
11	BALANCE FLEXX	3 OZ/A		PRE	0	99	90	99	90	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
12	BALANCE FLEXX	3 OZ/A		PRE	0	99	95	99	95	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
13	BALANCE FLEXX	3 OZ/A		PRE	0	99	88	99	88	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	36 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
14	BALANCE FLEXX	3 OZ/A		PRE	0	99	88	99	88	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ATRAZINE	1 PT/A		EP						
	LIBERTY 280	29 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
15	BALANCE FLEXX	3 OZ/A		PRE	0	99	90	99	90	0
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ATRAZINE	1 PT/A		EP						
	LIBERTY 280	36 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
16	UNTREATED				0	0	0	0	0	0
LSD P=.05					.	.	.	.	.	.
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS		SETFA
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	Morning glory		Giant foxtail
Crop Code					ZEAMX	
Crop Name					Corn	
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/17/2016	6/17/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After First/Last Applic.	38 11	38 11	38 11	38 11	52 8	52 8
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK

Trt No.	Treatment Name	Rate Unit	Growth Stage	7	8	9	10	11	12
1	UNTREATED			0	0	0	0	0	0
2	BALANCE FLEXX	1.44 OZ/A	PRE	99	99	99	99	0	95
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	22 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
3	BALANCE FLEXX	3 OZ/A	PRE	99	99	99	99	0	95
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	29 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
4	BALANCE FLEXX	3 OZ/A	PRE	99	95	99	95	0	90
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	36 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
5	BALANCE FLEXX	3 OZ/A	PRE	99	96	99	95	0	95
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	22 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ATRAZINE	1 PT/A	EP						
6	BALANCE FLEXX	3 OZ/A	PRE	99	96	99	96	0	95
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	29 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ATRAZINE	1 PT/A	EP						
7	BALANCE FLEXX	3 OZ/A	PRE	99	98	99	96	0	95
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	36 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ATRAZINE	1 PT/A	EP						
8	BALANCE FLEXX	3 OZ/A	PRE	99	99	99	99	0	95
	ATRAZINE	1 PT/A	PRE						
	LIBERTY 280	22 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	LAUDIS	3 OZ/A	EP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	common lambsqu>	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6/3/2016	6/3/2016	6/3/2016	6/3/2016	6/17/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After First/Last Applic.	38 11	38 11	38 11	38 11	52 8
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12
9	BALANCE FLEXX	3 OZ/A		PRE	99	99	99	99	0	99
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	LAUDIS	3 OZ/A		EP						
10	BALANCE FLEXX	3 OZ/A		PRE	99	96	99	95	0	99
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	36 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	LAUDIS	3 OZ/A		EP						
11	BALANCE FLEXX	3 OZ/A		PRE	99	99	99	99	0	99
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
12	BALANCE FLEXX	3 OZ/A		PRE	99	99	99	99	0	95
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
13	BALANCE FLEXX	3 OZ/A		PRE	99	99	99	99	0	99
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	36 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
14	BALANCE FLEXX	3 OZ/A		PRE	99	96	99	96	0	95
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ATRAZINE	1 PT/A		EP						
	LIBERTY 280	29 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
15	BALANCE FLEXX	3 OZ/A		PRE	99	98	99	98	0	99
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ATRAZINE	1 PT/A		EP						
	LIBERTY 280	36 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
16	UNTREATED				0	0	0	0	0	0
LSD P=.05					.	2.3	.	2.6	.	.
Standard Deviation					0.0	1.4	0.0	1.6	0.0	0.0
CV					0.0	1.59	0.0	1.84	0.0	0.0
Replicate F					0.000	2.349	0.000	1.940	0.000	0.000
Replicate Prob(F)					1.0000	0.1127	1.0000	0.1614	1.0000	1.0000
Treatment F					0.000	1816.479	0.000	1354.629	0.000	0.000
Treatment Prob(F)					1.0000	0.0001	1.0000	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	CHEAL	IPOSS		SETFA	AMBTR				
Pest Name	Giant ragweed common lambsqu> Morning glory				Giant foxtail Giant ragweed					
Crop Code					ZEAMX					
Crop Name					Corn					
Rating Date	3/17/2016	6/17/2016	6/17/2016	7/1/2016	7/1/2016	7/1/2016				
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Days After First/Last Applic.	-40 -40	52 8	52 8	66 22	66 22	66 22				
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK				
Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	16	17	18
1	UNTREATED				0	0	0	0	0	0
2	BALANCE FLEXX	1.44	OZ/A	PRE	89	99	90	0	95	89
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	22	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
3	BALANCE FLEXX	3	OZ/A	PRE	85	99	85	0	95	85
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	29	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
4	BALANCE FLEXX	3	OZ/A	PRE	87	99	80	0	90	87
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	36	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
5	BALANCE FLEXX	3	OZ/A	PRE	85	99	80	0	95	85
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	22	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
	ATRAZINE	1	PT/A	EP						
6	BALANCE FLEXX	3	OZ/A	PRE	89	99	90	0	95	89
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	29	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
	ATRAZINE	1	PT/A	EP						
7	BALANCE FLEXX	3	OZ/A	PRE	90	99	90	0	95	90
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	36	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
	ATRAZINE	1	PT/A	EP						
8	BALANCE FLEXX	3	OZ/A	PRE	95	99	95	0	95	95
	ATRAZINE	1	PT/A	PRE						
	LIBERTY 280	22	OZ/A	EP						
	AMS	8.5	LB/100 GAL	EP						
	LAUDIS	3	OZ/A	EP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS	SETFA	AMBTR
Pest Name	Giant ragweed common lambsqu> Morning glory			Giant foxtail	Giant ragweed
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	3/17/2016	6/17/2016	6/17/2016	7/1/2016	7/1/2016
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After First/Last Applic.	-40 -40	52 8	52 8	66 22	66 22
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	16	17	18
9	BALANCE FLEXX	3 OZ/A		PRE	85	99	85	0	99	85
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	LAUDIS	3 OZ/A		EP						
10	BALANCE FLEXX	3 OZ/A		PRE	88	99	88	0	99	88
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	36 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	LAUDIS	3 OZ/A		EP						
11	BALANCE FLEXX	3 OZ/A		PRE	87	99	88	0	99	87
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
12	BALANCE FLEXX	3 OZ/A		PRE	90	99	90	0	95	90
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
13	BALANCE FLEXX	3 OZ/A		PRE	88	99	88	0	99	88
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	36 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	DIFLEXX	10 OZ/A		EP						
14	BALANCE FLEXX	3 OZ/A		PRE	95	99	95	0	95	95
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ATRAZINE	1 PT/A		EP						
	LIBERTY 280	29 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
15	BALANCE FLEXX	3 OZ/A		PRE	99	99	98	0	99	99
	ATRAZINE	1 PT/A		PRE						
	LIBERTY 280	22 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ATRAZINE	1 PT/A		EP						
	LIBERTY 280	36 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
16	UNTREATED				0	0	0	0	0	0
LSD P=.05					3.6	.	2.6	.	.	3.6
Standard Deviation					2.2	0.0	1.5	0.0	0.0	2.2
CV					2.78	0.0	1.98	0.0	0.0	2.78
Replicate F					0.215	0.000	1.376	0.000	0.000	0.215
Replicate Prob(F)					0.8080	1.0000	0.2680	1.0000	1.0000	0.8080
Treatment F					599.071	0.000	1195.988	0.000	0.000	599.071
Treatment Prob(F)					0.0001	1.0000	0.0001	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	common lambsqu	Morning glory	
Crop Code			ZEAMX
Crop Name			Corn
Rating Date	7/1/2016	7/1/2016	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	AFTER POST	AFTER POST	
Days After First/Last Applic.	66 22	66 22	
Trt-Eval Interval	8 WEEK	8 WEEK	

Trt No.	Treatment Name	Rate	Unit	Growth Stage	19	20	26
1	UNTREATED					0	0
2	BALANCE FLEXX	1.44	OZ/A	PRE	99	90	190
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	22	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
3	BALANCE FLEXX	3	OZ/A	PRE	99	85	167
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	29	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
4	BALANCE FLEXX	3	OZ/A	PRE	99	80	176
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	36	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
5	BALANCE FLEXX	3	OZ/A	PRE	99	80	182
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	22	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
	ATRAZINE	1	PT/A	EP			
6	BALANCE FLEXX	3	OZ/A	PRE	99	90	170
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	29	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
	ATRAZINE	1	PT/A	EP			
7	BALANCE FLEXX	3	OZ/A	PRE	99	90	185
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	36	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
	ATRAZINE	1	PT/A	EP			
8	BALANCE FLEXX	3	OZ/A	PRE	99	95	182
	ATRAZINE	1	PT/A	PRE			
	LIBERTY 280	22	OZ/A	EP			
	AMS	8.5	LB/100 GAL	EP			
	LAUDIS	3	OZ/A	EP			

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	common lambsqu	Morning glory	
Crop Code			ZEAMX
Crop Name			Corn
Rating Date	7/1/2016	7/1/2016	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	AFTER POST	AFTER POST	
Days After First/Last Applic.	66 22	66 22	
Trt-Eval Interval	8 WEEK	8 WEEK	

Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	19	20	26
9	BALANCE FLEXX	3 OZ/A	PRE	99	85	176
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	29 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	LAUDIS	3 OZ/A	EP			
10	BALANCE FLEXX	3 OZ/A	PRE	99	88	183
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	36 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	LAUDIS	3 OZ/A	EP			
11	BALANCE FLEXX	3 OZ/A	PRE	99	88	184
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	22 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	DIFLEXX	10 OZ/A	EP			
12	BALANCE FLEXX	3 OZ/A	PRE	99	90	172
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	29 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	DIFLEXX	10 OZ/A	EP			
13	BALANCE FLEXX	3 OZ/A	PRE	99	88	178
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	36 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	DIFLEXX	10 OZ/A	EP			
14	BALANCE FLEXX	3 OZ/A	PRE	99	95	190
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	22 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	ATRAZINE	1 PT/A	EP			
	LIBERTY 280	29 OZ/A	MP			
	AMS	8.5 LB/100 GAL	MP			
15	BALANCE FLEXX	3 OZ/A	PRE	99	98	196
	ATRAZINE	1 PT/A	PRE			
	LIBERTY 280	22 OZ/A	EP			
	AMS	8.5 LB/100 GAL	EP			
	ATRAZINE	1 PT/A	EP			
	LIBERTY 280	36 OZ/A	MP			
	AMS	8.5 LB/100 GAL	MP			
16	UNTREATED			0	0	7
LSD P=.05				.	2.6	12.6
Standard Deviation				0.0	1.5	7.5
CV				0.0	1.98	4.75
Replicate F				0.000	1.376	0.112
Replicate Prob(F)				1.0000	0.2680	0.8948
Treatment F				0.000	1195.988	195.837
Treatment Prob(F)				1.0000	0.0001	0.0001

University of Kentucky

CORN POSTEMERGENCE X

Trial ID: C16019
Protocol ID: BAYER-LL-CORN
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOSHUA JONES

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

ARM Action Codes

TY1 = $4.57563 * [23] * (100 - [24]) / 85$

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: BECKS 6365AM

Planting Rate, Unit: 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 4/25/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/3/2016
Harvest Date: 9/21/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 34 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Soil Temperature, Unit: 57 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 16
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL	silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM	
% Clay: 32	CEC: 18	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B	C
Application Date:	4/26/2016	5/23/2016	6/9/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA LAWSON
Air Temperature, Unit:	75 F	75 F	72 F
% Relative Humidity:	30	50	65
Wind Velocity, Unit:	6 MPH	7 MPH	4 MPH
Wind Direction:	SW	ENE3	NW
Soil Temperature, Unit:	59 F	64 F	69 F
Soil Moisture:	DRY	EXCELL	GOOD
% Cloud Cover:	40	0	5
Next Moisture Occurred On:	4/26/2016	5/26/2016	6/14/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH
Stage Majority, Percent:			V5 95
Height, Unit:		18 IN	22 IN

Pest Stage At Each Application

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

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Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation 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:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

University of Kentucky

CORN VARIETY

Trial ID: C16020
 Protocol ID: CORN-VAR-MON
 Project ID:

Location: LEXINGTON, KY Trial Year: 2016
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: GLEN MURPHY/MATT LIVESAY

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 112

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
					3

1	VERDICT	15 OZ/A	PRE	175
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 61-55			
2	VERDICT	15 OZ/A	PRE	174
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 61-55			
3	VERDICT	15 OZ/A	PRE	178
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 61-88			
4	VERDICT	15 OZ/A	PRE	174
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 61-88			
5	VERDICT	15 OZ/A	PRE	184
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-08			
6	VERDICT	15 OZ/A	PRE	181
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-08			
7	VERDICT	15 OZ/A	PRE	170
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-20			

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Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 112

Trt No.	Treatment Name	Rate	Growth Stage	Yield
8	VERDICT	15 OZ/A	PRE	170
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-20			
9	VERDICT	15 OZ/A	PRE	183
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-78			
10	VERDICT	15 OZ/A	PRE	187
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-78			
11	VERDICT	15 OZ/A	PRE	166
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 63-72			
12	VERDICT	15 OZ/A	PRE	164
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 63-72			
13	VERDICT	15 OZ/A	PRE	184
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 64-89			
14	VERDICT	15 OZ/A	PRE	189
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 64-89			
15	VERDICT	15 OZ/A	PRE	184
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	P 1197			
16	VERDICT	15 OZ/A	PRE	190
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	P 1197			

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 112

Trt No.	Treatment Name	Rate	Growth Unit	Stage	Yield
17	VERDICT	15 OZ/A	PRE		198
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 64-34				
18	VERDICT	15 OZ/A	PRE		201
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 64-34				
19	VERDICT	15 OZ/A	PRE		185
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	P 1479				
20	VERDICT	15 OZ/A	PRE		179
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	P 1479				
21	VERDICT	15 OZ/A	PRE		157
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 65-20				
22	VERDICT	15 OZ/A	PRE		165
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 65-20				
23	VERDICT	15 OZ/A	PRE		162
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 66-59				
24	VERDICT	15 OZ/A	PRE		163
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 66-59				
25	VERDICT	15 OZ/A	PRE		190
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 67-14				

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Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 112

Trt No.	Treatment Name	Rate	Growth Stage	Yield
		3		
26	VERDICT	15 OZ/A	PRE	186
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-14			
27	VERDICT	15 OZ/A	PRE	192
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-42			
28	VERDICT	15 OZ/A	PRE	192
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-42			
29	VERDICT	15 OZ/A	PRE	166
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-58			
30	VERDICT	15 OZ/A	PRE	169
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-58			
31	VERDICT	15 OZ/A	PRE	184
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-72			
32	VERDICT	15 OZ/A	PRE	180
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-72			
33	VERDICT	15 OZ/A	PRE	161
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 68-26			
34	VERDICT	15 OZ/A	PRE	161
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 68-26			

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Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 112

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	
				3
35	VERDICT	15 OZ/A	PRE	170
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 70-27			
36	VERDICT	15 OZ/A	PRE	174
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 70-27			

LSD P=.05 .
Standard Deviation .
CV .

Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
BU = bushel
ARM Action Codes
 $TY1 = 1.152381*[1]*(100-[2])/85$

University of Kentucky

CORN VARIETY

Trial ID: C16020 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: CORN-VAR-MON Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GLEN MURPHY/MATT LIVESAY

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: F fungicide
Trial Status: F one-year/final
Initiation Date: 5/25/2016
Completion Date: 9/27/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
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Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name **Role** **Other**
 SARA LAWSON RESEARCH ANALYST sara.lawson@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: see treatment list

Planting Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 5/24/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/30/2016
Harvest Date: 9/27/2016

Soil Temperature, Unit: 64 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Harvested Width, Unit: 5 FT
Harvested Length, Unit: 135 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 135 FT
Treated Plot Area: 1350 FT² **Treatments:** 36
Replications: 1

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1 MI

Application Description

	A	B
Application Date:	5/25/2016	6/7/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	75 F
% Relative Humidity:	60	70
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	SE	SW
Soil Temperature, Unit:	66 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	30	40
Next Moisture Occurred On:	5/26/2016	6/14/2016

University of Kentucky

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	4	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

University of Kentucky

CORN VARIETY II

Trial ID: C16021
 Protocol ID: SYN-CORN-VAR
 Project ID:

Location: LEXINGTON, KY Trial Year: 2016
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

Crop Code ZEAMX
 Crop Name Corn
 Rating Date 9/27/2016
 Rating Type YIELD
 Rating Unit BU
 Days After First/Last Applic. 125 105

Trt No.	Treatment Name	Rate	Growth Stage	4
1	ACURON	1.5 QT/A	PRE	124
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N49W-3000GT			
2	ACURON	1.5 QT/A	PRE	171
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N59B-3111A			
3	ACURON	1.5 QT/A	PRE	173
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N60F-3111			
4	ACURON	1.5 QT/A	PRE	180
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N66V-3000GT			
5	ACURON	1.5 QT/A	PRE	122
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N68K-3111A			
6	ACURON	1.5 QT/A	PRE	172
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N69D-3000GT			
7	ACURON	1.5 QT/A	PRE	174
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N70J-3220A			
8	ACURON	1.5 QT/A	PRE	177
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N74L-3010			

Could not calculate LSD (% mean diff) for columns 4 because error mean square = 0.

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 105

Trit No.	Treatment Name	Rate	Growth Stage	4
9	ACURON	1.5 QT/A	PRE	186
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N74R-3122 EZ			
10	ACURON	1.5 QT/A	PRE	134
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N75H-3010A			
11	ACURON	1.5 QT/A	PRE	194
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N76A-3000GT			
12	ACURON	1.5 QT/A	PRE	193
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	N83D-3000GT			
13	ACURON	1.5 QT/A	PRE	154
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	DKC65-71			
14	ACURON	1.5 QT/A	PRE	186
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	NIS	0.25 % V/V	V5	
	P1197AM			
15	ACURON	1.5 QT/A	PRE	151
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N49W-3000GT			
16	ACURON	1.5 QT/A	PRE	175
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N59B-3111A			
17	ACURON	1.5 QT/A	PRE	177
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N60F-3111			

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 105

Trt No.	Treatment Name	Rate	Growth Stage	4
18	ACURON	1.5 QT/A	PRE	169
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N66V-3000GT			
19	ACURON	1.5 QT/A	PRE	167
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N68K-3111A			
20	ACURON	1.5 QT/A	PRE	162
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N69D-3000GT			
21	ACURON	1.5 QT/A	PRE	156
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N70J-3220A			
22	ACURON	1.5 QT/A	PRE	172
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N74L-3010			
23	ACURON	1.5 QT/A	PRE	187
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N74R-3122 EZ			
24	ACURON	1.5 QT/A	PRE	150
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N75H-3010A			

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	9/27/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	125 105

Trt No.	Treatment Name	Rate	Growth Stage	Yield
25	ACURON	1.5 QT/A	PRE	193
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N76A-3000GT			
26	ACURON	1.5 QT/A	PRE	190
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N83D-3000GT			
27	ACURON	1.5 QT/A	PRE	174
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	DKC65-71			
28	ACURON	1.5 QT/A	PRE	201
	HALEX GT	3.5 PT/A	V5	
	AATREX	1 QT/A	V5	
	TRIVAPRO	14 OZ/A	V5	
	QUILT XCEL	10.5 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	P1197AM			
	LSD P=.05			.
	Standard Deviation			.
	CV			.

Crop Code
ZEAMX, BCOR, Zea mays, = US

Rating Type
YIELD = yield

Rating Unit
BU = bushel

ARM Action Codes
TY1 = 1.037143*[1]*(100-[2])/85

University of Kentucky

CORN VARIETY II

Trial ID: C16021 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: SYN-CORN-VAR Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: F fungicide
Trial Status: F one-year/final
Initiation Date: 5/23/2016
Completion Date: 9/27/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: ZEAMX Zea mays
Variety: SEE TREATMENT LIST

Corn

Planting Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 5/23/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Emergence Date: 6/1/2016
Harvest Date: 9/27/2016

Soil Temperature, Unit: 64 F
Soil Moisture: WET wet
Seed Bed: SMOOTH smooth

Harvested Width, Unit: 5 FT
Harvested Length, Unit: 150 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 150 FT
Treated Plot Area: 1500 FT² **Treatments:** 28
Replications: 1

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 3 MI

Application Description

	A	B
Application Date:	5/25/2016	6/14/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V5
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	91 F
% Relative Humidity:	65	37
Wind Velocity, Unit:	4 MPH	5 MPH
Wind Direction:	SW	NE
Soil Temperature, Unit:	65 F	73 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	30	10
Next Moisture Occurred On:	5/26/2016	6/14/2016

University of Kentucky

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5 95
Height, Unit:	8	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

University of Kentucky

NO-TILL SOYBEAN

Trial ID: S16020 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ORO-SB2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR		
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed		
Crop Code	GLXMA				GLXMA				
Crop Name	Soybean				Soybean				
Rating Date	7/14/2016	7/14/2016	7/14/2016	7/14/2016	7/28/2016	7/28/2016	7/28/2016		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK		
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28	28 28		
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5		
1 UNTREATED CHECK			0	100	100	100	0	100	100
2 COBRA	12.5 OZ/A LLP		15	100	100	100	0	100	100
ROUNDUP POWERMAX	22 OZ/A LLP								
AMS	2.5 % V/V LLP								
OR 009	0.25 % V/V LLP								
3 CADET	0.6 OZ/A LLP		5	100	100	100	0	100	100
ROUNDUP POWERMAX	22 OZ/A LLP								
AMS	2.5 % V/V LLP								
OR 009	0.25 % V/V LLP								
4 EXTREME	3 PT/A LLP		0	100	100	100	0	100	100
AMS	2.5 % V/V LLP								
OR 009	0.25 % V/V LLP								
5 FLEXSTAR GT	3.75 PT/A LLP		0	100	100	100	0	100	100
AMS	2.5 % V/V LLP								
OR 009	0.25 % V/V LLP								
6 COBRA	12.5 OZ/A LLP		27	100	100	100	0	100	100
ROUNDUP POWERMAX	22 OZ/A LLP								
AMS	2.5 % V/V LLP								
COC	0.5 % V/V LLP								
7 CADET	0.6 OZ/A LLP		10	100	100	100	0	100	100
ROUNDUP POWERMAX	22 OZ/A LLP								
AMS	2.5 % V/V LLP								
8 EXTREME	3 PT/A LLP		0	100	100	100	0	100	100
AMS	2.5 % V/V LLP								
NIS	0.125 % V/V LLP								
9 FLEXSTAR GT	3.75 PT/A LLP		0	100	100	100	0	100	100
AMS	2.5 % V/V LLP								
LSD P=.05			1.7	.	.	.	.	.	.
Standard Deviation			1.0	0.0	0.0	0.0	0.0	0.0	0.0
CV			15.28	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F			1.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			0.3897	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			285.250	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 2,3,4,5,6,7,8 because error mean square = 0.

University of Kentucky

Pest Type		W Weed		
Pest Code		IPOSS		
Pest Name		Morning glory		
Crop Code		GLXMA		
Crop Name		Soybean		
Rating Date		7/28/2016	10/6/2016	
Rating Type		CONTROL	YIELD	
Rating Unit		PERCENT	BU	
Rating Timing		4 WEEK		
Days After First/Last Applic.		28	28	98 98
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	8	12
1 UNTREATED CHECK			100	29
2 COBRA	12.5 OZ/A LLP		100	68
ROUNDUP POWERMAX	22 OZ/A LLP			
AMS	2.5 % V/V LLP			
OR 009	0.25 % V/V LLP			
3 CADET	0.6 OZ/A LLP		100	74
ROUNDUP POWERMAX	22 OZ/A LLP			
AMS	2.5 % V/V LLP			
OR 009	0.25 % V/V LLP			
4 EXTREME	3 PT/A LLP		100	78
AMS	2.5 % V/V LLP			
OR 009	0.25 % V/V LLP			
5 FLEXSTAR GT	3.75 PT/A LLP		100	67
AMS	2.5 % V/V LLP			
OR 009	0.25 % V/V LLP			
6 COBRA	12.5 OZ/A LLP		100	70
ROUNDUP POWERMAX	22 OZ/A LLP			
AMS	2.5 % V/V LLP			
COC	0.5 % V/V LLP			
7 CADET	0.6 OZ/A LLP		100	74
ROUNDUP POWERMAX	22 OZ/A LLP			
AMS	2.5 % V/V LLP			
8 EXTREME	3 PT/A LLP		100	67
AMS	2.5 % V/V LLP			
NIS	0.125 % V/V LLP			
9 FLEXSTAR GT	3.75 PT/A LLP		100	66
AMS	2.5 % V/V LLP			
LSD P=.05			.	11.5
Standard Deviation			0.0	6.7
CV			0.0	10.12
Replicate F			0.000	5.040
Replicate Prob(F)			1.0000	0.0201
Treatment F			0.000	13.769
Treatment Prob(F)			1.0000	0.0001

University of Kentucky

NO-TILL SOYBEAN

Trial ID: S16020 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: ORO-SB2 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: FRAN CAMPBELL

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

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

$TY1 = 4.776316 * [C10] * (100 - [C11]) / 86.5$

University of Kentucky

NO-TILL SOYBEAN

Trial ID: S16020 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ORO-SB2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 10/15/2016
Completion Date: 10/6/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016
Harvest Date: 10/6/2016

Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Harvested Width, Unit: 4 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 9
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 7 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 30 **CEC:** 22 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

University of Kentucky

Application Description

A

Application Date: 6/30/2016
Application Method: SPRAY
Application Timing: LLP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 80 F
% Relative Humidity: 65
Wind Velocity, Unit: 4 MPH
Wind Direction: SW
Soil Temperature, Unit: 73 F
Soil Moisture: GOOD
% Cloud Cover: 10
Next Moisture Occurred On: 7/1/2016

Crop Stage At Each Application

A

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

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Height, Unit: 4 IN
Pest 2 Code, Type, Scale: AMBTR W
Height, Unit: 8 IN
Pest 3 Code, Type, Scale: IPOSS W
Height, Unit: 4 IN

Application Equipment

A

Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 8.5 FT
Boom Height, Unit: 30 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 2.7 liters
Propellant: CO2

Date By Notes

(S16020)

University of Kentucky

5/6/2016 SARA AUTHORITY XL 4OZ/A + 32 FL OZ/A ROUNDUP POWERMAX APPLIED AT PLANTING

University of Kentucky

NO-TILL SOYBEAN II

Trial ID: S16021 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SB-RR2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR			
Pest Name		Giant foxtail Giant ragweed Morning glory				Giant foxtail Giant ragweed				
Crop Code	GLXMA							GLXMA		
Crop Name	Soybean							Soybean		
Rating Date										
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt No.	Treatment Name	Rate	Growth	1	2	3	4	5	6	7
		Rate Unit	Stage							
1	UNTREATED CHECK			0	0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	28DAP	0	0	0	0	0	99	99
	NIS	0.25 % V/V	28DAP							
3	FIERCE	3 OZ WT/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP							
	NIS	0.25 % V/V	28DAP							
4	AUTHORITY ELITE	24 OZ/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP							
	NIS	0.25 % V/V	28DAP							
5	BOUNDARY	1.5 PT/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP							
	NIS	0.25 % V/V	28DAP							
6	FIERCE XLT	4 OZ WT/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP							
	NIS	0.25 % V/V	28DAP							
7	ROWEL	2 OZ WT/A	PRE	0	99	99	99	0	99	99
	WARRANT	2 QT/A	PRE							
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP							
	NIS	0.25 % V/V	28DAP							
LSD P=.05				.	.	.	.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12 because error mean square = 0.

University of Kentucky

NO-TILL SOYBEAN II

Trial ID: S16021 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: VAL-SB-RR2 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

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

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
BU = bushel

ARM Action Codes

TY1 = $4.776316 * [C14] * (100 - @MVAVGREP([C15])) / 86.5$

University of Kentucky

NO-TILL SOYBEAN II

Trial ID: S16021 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SB-RR2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/6/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016
Harvest Date: 10/6/2016

Soil Temperature, Unit: 58 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Harvested Width, Unit: 4 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

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

Treated Plot Width: 10 FT
Treated Plot Length: 8.5 FT
Treated Plot Area: 85 FT2 **Treatments:** 7
Replications: 3
Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 7 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 30 **CEC:** 22 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

University of Kentucky

Application Description

	A	B
Application Date:	5/6/2016	6/1/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	28DAP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	82 F
% Relative Humidity:	45	60
Wind Velocity, Unit:	6 MPH	4 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	58 F	72 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	20	20
Next Moisture Occurred On:	5/7/2016	6/2/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	BSOY GLXMA
Height, Unit:	6	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:	1.5	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 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
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

University of Kentucky

NO-TILL SOYBEAN XVI

Trial ID: S16021-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SB-RR2-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type			W Weed		W Weed		W Weed		
Pest Code			ERICA		ERICA		ERICA		
Pest Name			Marestail		Marestail		Marestail		
Crop Code			GLXMA		GLXMA		GLXMA		
Crop Name			Soybean		Soybean		Soybean		
Rating Date			5/20/2016	5/20/2016	6/1/2016	6/1/2016	6/29/2016		
Rating Type			INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL		
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing			2 WEEK	2 WEEK	4 WEEK	4 WEEK	8 WEEK		
Days After First/Last Applic.			16	16	28	28	56		
Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED CHECK			0	73	0	67	0	67
2	ROUNDUP POWERMAX	32 FL OZ/A	28DAP	0	87	0	77	0	77
	NIS	0.25 % V/V	28DAP						
3	FIERCE	3 OZ WT/A	PRE	0	83	0	79	0	79
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
	NIS	0.25 % V/V	28DAP						
4	AUTHORITY ELITE	24 OZ/A	PRE	0	92	0	88	0	88
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
	NIS	0.25 % V/V	28DAP						
5	BOUNDARY	1.5 PT/A	PRE	0	100	0	98	0	98
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
	NIS	0.25 % V/V	28DAP						
6	FIERCE XLT	4 OZ WT/A	PRE	0	98	0	85	0	85
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
	NIS	0.25 % V/V	28DAP						
7	ROWEL	2 OZ WT/A	PRE	0	85	0	73	0	73
	WARRANT	2 QT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
	NIS	0.25 % V/V	28DAP						
LSD P=.05				.	11.8	.	13.6	.	13.6
Standard Deviation				0.0	6.6	0.0	7.6	0.0	7.6
CV				0.0	7.48	0.0	9.43	0.0	9.43
Replicate F				0.000	0.109	0.000	0.363	0.000	0.363
Replicate Prob(F)				1.0000	0.8975	1.0000	0.7032	1.0000	0.7032
Treatment F				0.000	5.855	0.000	5.545	0.000	5.545
Treatment Prob(F)				1.0000	0.0047	1.0000	0.0058	1.0000	0.0058

Pest Type

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

Pest Code

ERICA, Erigeron canadensis, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Could not calculate LSD (% mean diff) for columns 1,3,5 because error mean square = 0.

University of Kentucky

NO-TILL SOYBEAN XVI

Trial ID: S16021-2 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: VAL-SB-RR2-2 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/3/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/9/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/16/2016

Pest Description

Pest 1 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Site and Design

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT2
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM
% Clay: 32	CEC: 18	Fert. Level: E excellent
		Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP
Distance, Unit: 1 MI

University of Kentucky

Application Description

	A	B
Application Date:	5/4/2016	6/1/2016
Appl. Start Time:	12:00 PM	
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	28DAP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	58 F	83 F
% Relative Humidity:	60	53
Wind Velocity, Unit:	7 MPH	4 MPH
Wind Direction:	WSW	SW
Soil Temperature, Unit:	60 F	72 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	95	50
Next Moisture Occurred On:	5/4/2016	6/1/2016

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	5 IN	5 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

Date	By	Notes
5/3/2016	SARA	OVERSPRAYED WITH 36 OZ/A LIBERTY +1 PT 2,4-D AMINE

University of Kentucky

NO-TILL SOYBEAN III

Trial ID: S16022 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DOW-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

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 Name		Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory				
Crop Code	GLXMA				GLXMA						
Crop Name	Soybean				Soybean						
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6	7	8
1	SONIC	4.5 OZ/A	PRE	0	100	100	100	0	100	100	100
	DURANGO DMA	24 FL OZ/A	MP								
	AMS	2.5 % V/V	MP								
2	SONIC	6 OZ/A	PRE	0	100	100	100	0	100	100	100
	DURANGO DMA	24 FL OZ/A	MP								
	AMS	2.5 % V/V	MP								
3	SONIC	3 OZ/A	PRE	0	100	100	100	0	100	100	100
	FIRSTRATE	0.3 OZ/A	MP								
	DURANGO DMA	24 FL OZ/A	MP								
	AMS	2.5 % V/V	MP								
4	SURVEIL	4.2 OZ/A	PRE	0	100	100	100	0	100	100	100
	DURANGO DMA	24 FL OZ/A	MP								
	AMS	2.5 % V/V	MP								
	LSD P=.05			.	.	.	.	.	.	.	.
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12 because error mean square = 0.

University of Kentucky

Pest Type		W Weed		W Weed	W Weed		
Pest Code		SETFA		AMBTR	IPOSS		
Pest Name		Giant foxtail		Giant ragweed	Morning glory		
Crop Code		GLXMA					
Crop Name		Soybean					
Rating Type		INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Trt No.	Treatment Name	Rate	Growth Stage	9	10	11	12
		Rate Unit					
1	SONIC	4.5 OZ/A	PRE	0	100	100	100
	DURANGO DMA	24 FL OZ/A	MP				
	AMS	2.5 % V/V	MP				
2	SONIC	6 OZ/A	PRE	0	100	100	100
	DURANGO DMA	24 FL OZ/A	MP				
	AMS	2.5 % V/V	MP				
3	SONIC	3 OZ/A	PRE	0	100	100	100
	FIRSTRATE	0.3 OZ/A	MP				
	DURANGO DMA	24 FL OZ/A	MP				
	AMS	2.5 % V/V	MP				
4	SURVEIL	4.2 OZ/A	PRE	0	100	100	100
	DURANGO DMA	24 FL OZ/A	MP				
	AMS	2.5 % V/V	MP				
LSD P=.05				.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000

University of Kentucky

NO-TILL SOYBEAN III

Trial ID: S16022 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: DOW-SB Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: LAURA CAMPBELL

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

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN III

Trial ID: S16022 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DOW-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT2 **Treatments:** 4
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 7 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 30 **CEC:** 22 **Fert. Level:** E excellent
Soil Drainage: E excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

University of Kentucky

Application Description

	A	B
Application Date:	5/6/2016	6/6/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	82 F
% Relative Humidity:	45	47
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	57 F	72 F
Soil Moisture:	EXCELL	WET
% Cloud Cover:	40	10
Next Moisture Occurred On:	5/7/2016	6/7/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	5	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:	2	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

University of Kentucky

NO-TILL SOYBEAN IV

Trial ID: S16023 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: AMVAC-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR	IPOSS			
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory			
Crop Code	GLXMA				GLXMA						
Crop Name	Soybean				Soybean						
Rating Date	5/20/2016	5/20/2016	5/20/2016	5/20/2016	6/3/2016	6/3/2016	6/3/2016	6/3/2016			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A			
Trt No.	Treatment Name	Rate	Growth	1	2	3	4	5	6	7	8
		Unit	Stage								
1	UNTREATED CHECK			0	0	0	0	0	0	0	0
2	SCEPTER	2.8 OZ/A	PRE	0	99	99	99	0	99	96	96
3	BOUNDARY	1.5 PT/A	PRE	0	99	92	95	0	99	70	70
4	DUAL MAGNUM	1 PT/A	PRE	0	99	99	99	0	99	82	80
	SCEPTER	2.1 OZ/A	PRE								
5	DUAL MAGNUM	1 PT/A	PRE	0	99	99	99	0	99	95	95
	SCEPTER	2.8 OZ/A	PRE								
6	CANOPY	6 OZ/A	PRE	0	99	99	99	0	99	99	99
7	METRIBUZIN	0.5 LB/A	PRE	0	99	99	99	0	99	85	85
	SCEPTER	2.1 OZ/A	PRE								
8	METRIBUZIN	0.5 LB/A	PRE	0	99	99	99	0	99	99	99
	SCEPTER	2.8 OZ/A	PRE								
9	DUAL MAGNUM	1 PT/A	PRE	0	99	99	99	0	99	99	99
	CANOPY	6 OZ/A	PRE								
10	DUAL MAGNUM	1 PT/A	PRE	0	99	99	99	0	99	99	99
	SCEPTER	2.1 OZ/A	PRE								
	METRIBUZIN	0.5 LB/A	PRE								
11	DUAL MAGNUM	1 PT/A	PRE	0	99	99	99	0	99	99	99
	SCEPTER	2.8 OZ/A	PRE								
	METRIBUZIN	0.5 LB/A	PRE								
	LSD P=.05			.	.	1.5	.	.	.	3.0	2.7
	Standard Deviation			0.0	0.0	0.9	0.0	0.0	0.0	1.8	1.6
	CV			0.0	0.0	0.97	0.0	0.0	0.0	2.09	1.87
	Replicate F			0.000	0.000	1.000	0.000	0.000	0.000	1.488	1.000
	Replicate Prob(F)			1.0000	1.0000	0.3855	1.0000	1.0000	1.0000	0.2498	0.3855
	Treatment F			0.000	0.000	3495.448	0.000	0.000	0.000	843.527	1058.222
	Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	1.0000	1.0000	0.0001	0.0001

Could not calculate LSD (% mean diff) for columns 1,2,4,5,6,9,10 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS			
Pest Name		Giant foxtail	Giant ragweed	Morning glory			
Crop Code	GLXMA						
Crop Name	Soybean						
Rating Date	7/1/2016	7/1/2016	7/1/2016	7/1/2016			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A			
Trt No.	Treatment Name	Rate	Growth Stage	9	10	11	12
1	UNTREATED CHECK			0	0	0	0
2	SCEPTER	2.8 OZ/A PRE		0	99	96	96
3	BOUNDARY	1.5 PT/A PRE		0	99	70	70
4	DUAL MAGNUM	1 PT/A PRE		0	99	82	80
	SCEPTER	2.1 OZ/A PRE					
5	DUAL MAGNUM	1 PT/A PRE		0	99	95	95
	SCEPTER	2.8 OZ/A PRE					
6	CANOPY	6 OZ/A PRE		0	99	99	99
7	METRIBUZIN	0.5 LB/A PRE		0	99	85	85
	SCEPTER	2.1 OZ/A PRE					
8	METRIBUZIN	0.5 LB/A PRE		0	99	99	99
	SCEPTER	2.8 OZ/A PRE					
9	DUAL MAGNUM	1 PT/A PRE		0	99	99	99
	CANOPY	6 OZ/A PRE					
10	DUAL MAGNUM	1 PT/A PRE		0	99	99	99
	SCEPTER	2.1 OZ/A PRE					
	METRIBUZIN	0.5 LB/A PRE					
11	DUAL MAGNUM	1 PT/A PRE		0	99	99	99
	SCEPTER	2.8 OZ/A PRE					
	METRIBUZIN	0.5 LB/A PRE					
	LSD P=.05			.	.	3.0	2.7
	Standard Deviation			0.0	0.0	1.8	1.6
	CV			0.0	0.0	2.09	1.87
	Replicate F			0.000	0.000	1.488	1.000
	Replicate Prob(F)			1.0000	1.0000	0.2498	0.3855
	Treatment F			0.000	0.000	843.527	1058.222
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001

University of Kentucky

NO-TILL SOYBEAN IV

Trial ID: S16023 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: AMVAC-SB Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE

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

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN IV

Trial ID: S16023 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: AMVAC-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/13/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 11
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 7 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 30 **CEC:** 22 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

University of Kentucky

Application Description

A

Application Date: 5/6/2016
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 65 F
% Relative Humidity: 45
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 57 F
Soil Moisture: EXCELL
% Cloud Cover: 30
Next Moisture Occurred On: 5/7/2016

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Pest 2 Code, Type, Scale: AMBTR W
Pest 3 Code, Type, Scale: IPOSS W

Application Equipment

A

Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 8.5 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 2.7 liters
Propellant: CO2

Date	By	Notes
5/6/2016	SARA	ALL PRE TREATMENTS INCLUDED ROUNDUP POWERMAX @ 32 OZ/A

University of Kentucky

NO-TILL SOYBEAN V

Trial ID: S16024 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SB-RR-GR Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	IPOSS	SETFA	AMBTR				
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed				
Crop Code		GLXMA			GLXMA					
Crop Name		Soybean			Soybean					
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK				
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6	7
1	UNTREATED CHECK			0	0	0	0	0	0	0
2	AUTHORITY XL	4 OZ WT/A PRE		0	99	99	99	0	99	70
3	AUTHORITY XL	7.5 OZ WT/A PRE		0	99	99	99	0	99	80
4	FIERCE XLT	4 OZ WT/A PRE		0	99	99	99	0	99	70
5	SURVEIL	3.5 OZ WT/A PRE		0	99	99	99	0	99	70
6	FIERCE XLT	5.2 OZ WT/A PRE		0	99	99	99	0	99	99
	LSD P=.05			.	.	.	.	.	.	0.4
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	0.2
	CV			0.0	0.0	0.0	0.0	0.0	0.0	0.36
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	1.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4019
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	61391.206
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,9,10 because error mean square = 0.

University of Kentucky

Pest Type		W Weed		W Weed	W Weed	W Weed		
Pest Code		IPOSS		SETFA	AMBTR	IPOSS		
Pest Name		Morning glory		Giant foxtail	Giant ragweed	Morning glory		
Crop Code			GLXMA					
Crop Name			Soybean					
Rating Type		CONTROL	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Trt No.	Treatment Name	Rate	Growth	8	9	10	11	12
		Rate Unit	Stage					
1	UNTREATED CHECK			0	0	0	0	0
2	AUTHORITY XL	4 OZ WT/A PRE		91	0	99	70	91
3	AUTHORITY XL	7.5 OZ WT/A PRE		80	0	99	80	80
4	FIERCE XLT	4 OZ WT/A PRE		70	0	99	70	70
5	SURVEIL	3.5 OZ WT/A PRE		70	0	99	70	70
6	FIERCE XLT	5.2 OZ WT/A PRE		99	0	99	99	99
	LSD P=.05			0.9	.	.	0.4	0.9
	Standard Deviation			0.5	0.0	0.0	0.2	0.5
	CV			0.69	0.0	0.0	0.36	0.69
	Replicate F			1.000	0.000	0.000	1.000	1.000
	Replicate Prob(F)			0.4019	1.0000	1.0000	0.4019	0.4019
	Treatment F			16875.852	0.000	0.000	61391.206	16875.852
	Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001	0.0001

University of Kentucky

NO-TILL SOYBEAN V

Trial ID: S16024 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: VAL-SB-RR-GR Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

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

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN V

Trial ID: S16024 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: VAL-SB-RR-GR Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 6
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 7 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 30 **CEC:** 22 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

University of Kentucky

Application Description

A
Application Date: 5/6/2016
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 65 F
% Relative Humidity: 45
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 57 F
Soil Moisture: EXCELL
% Cloud Cover: 10
Next Moisture Occurred On: 5/7/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Pest 2 Code, Type, Scale: AMBTR W
Pest 3 Code, Type, Scale: IPOSS W

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 8.5 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 2.7 liters
Propellant: CO2

Date	By	Notes
5/6/2016	SARA	ADDED ROUNDUP 32 FL OZ/A TO EACH TREATMENT

University of Kentucky

NO-TILL SOYBEAN VI

Trial ID: S16025 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-24-02 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code	GLXMA			GLXMA
Crop Name	Soybean			Soybean
Rating Date	5/20/2016	5/20/2016	5/20/2016	5/20/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14

Trt Treatment	Rate	Growth	1		2		3		4		5		6	
No. Name	Rate Unit	Stage	1	2	3	4	5	6	7	8	9	10	11	12
1 ROWEL	3 OZ WT/A PRE		0	99	99	99	0	99						
ROUNDUP POWERMAX	32 FL OZ/A V3													
WARRANT ULTRA	50 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
2 ROWEL FX	4 OZ WT/A PRE		0	99	99	99	0	99						
ROUNDUP POWERMAX	32 FL OZ/A V3													
WARRANT ULTRA	50 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
3 ROWEL	2 OZ WT/A PRE		0	99	99	99	0	99						
WARRANT	48 FL OZ/A PRE													
ROUNDUP POWERMAX	32 FL OZ/A V3													
WARRANT ULTRA	50 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
4 WARRANT ULTRA	50 FL OZ/A PRE		0	99	99	99	0	99						
ROUNDUP POWERMAX	32 FL OZ/A V3													
COBRA	10 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
5 WARRANT	48 FL OZ/A PRE		0	99	99	99	0	99						
TRICOR	6 OZ WT/A PRE													
ROUNDUP POWERMAX	32 FL OZ/A V3													
COBRA	10 FL OZ/A V3													
WARRANT	48 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
6 AUTHORITY MTZ	14 OZ WT/A PRE		0	99	99	99	0	99						
ROUNDUP POWERMAX	32 FL OZ/A V3													
MARVEL	7.25 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
7 AUTHORITY MAXX	9.4 OZ WT/A PRE		0	99	99	99	0	99						
ROUNDUP POWERMAX	32 FL OZ/A V3													
MARVEL	7.25 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													
8 FIERCE XLT	4.5 OZ WT/A PRE		0	99	99	99	0	99						
ROUNDUP POWERMAX	32 FL OZ/A V3													
COBRA	10 FL OZ/A V3													
CLASS ACT NEXT GENERATION	2.5 % V/V V3													

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed		W Weed	W Weed	W Weed		
Pest Code		AMBTR	IPOSS		SETFA	AMBTR	IPOSS		
Pest Name		Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory		
Crop Code				GLXMA					
Crop Name				Soybean					
Rating Date		6/6/2016	6/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016		
Rating Type		CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.		31 31	31 31	61 28	61 28	61 28	61 28		
Trt No.	Treatment Name	Rate	Growth	7	8	9	10	11	12
		Rate Unit	Stage						
1	ROWEL	3 OZ WT/A PRE		99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	WARRANT ULTRA	50 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
2	ROWEL FX	4 OZ WT/A PRE		99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	WARRANT ULTRA	50 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
3	ROWEL	2 OZ WT/A PRE		99	99	0.0	99.0	99.0	99.0
	WARRANT	48 FL OZ/A PRE							
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	WARRANT ULTRA	50 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
4	WARRANT ULTRA	50 FL OZ/A PRE		99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	COBRA	10 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
5	WARRANT	48 FL OZ/A PRE		99	99	0.0	99.0	99.0	99.0
	TRICOR	6 OZ WT/A PRE							
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	COBRA	10 FL OZ/A V3							
	WARRANT	48 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
6	AUTHORITY MTZ	14 OZ WT/A PRE		99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	MARVEL	7.25 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
7	AUTHORITY MAXX	9.4 OZ WT/A PRE		99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	MARVEL	7.25 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							
8	FIERCE XLT	4.5 OZ WT/A PRE		99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	32 FL OZ/A V3							
	COBRA	10 FL OZ/A V3							
	CLASS ACT NEXT GENERATION	2.5 % V/V V3							

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Pest Type
 Pest Code
 Pest Name
 Crop Code GLXMA
 Crop Name Soybean
 Rating Date
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic.

Trt No.	Treatment Name	Rate	Growth Stage	
		Rate Unit		16
1	ROWEL	3 OZ WT/A	PRE	51
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	WARRANT ULTRA	50 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
2	ROWEL FX	4 OZ WT/A	PRE	54
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	WARRANT ULTRA	50 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
3	ROWEL	2 OZ WT/A	PRE	55
	WARRANT	48 FL OZ/A	PRE	
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	WARRANT ULTRA	50 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
4	WARRANT ULTRA	50 FL OZ/A	PRE	57
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	COBRA	10 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
5	WARRANT	48 FL OZ/A	PRE	49
	TRICOR	6 OZ WT/A	PRE	
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	COBRA	10 FL OZ/A	V3	
	WARRANT	48 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
6	AUTHORITY MTZ	14 OZ WT/A	PRE	51
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	MARVEL	7.25 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
7	AUTHORITY MAXX	9.4 OZ WT/A	PRE	45
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	MARVEL	7.25 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
8	FIERCE XLT	4.5 OZ WT/A	PRE	45
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	COBRA	10 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	

University of Kentucky

Pest Type
 Pest Code
 Pest Name
 Crop Code GLXMA
 Crop Name Soybean
 Rating Date
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic.

Trt No.	Treatment Name	Rate	Growth Stage	16
9	ZIDUA	2.75 OZ WT/A	PRE	55
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	ULTRA BLAZER	16 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
10	VERDICT	13.9 FL OZ/A	PRE	46
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	ULTRA BLAZER	16 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
11	BROADAXE XC	32 FL OZ/A	PRE	58
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	PREFIX	32 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
12	PREFIX	32 FL OZ/A	PRE	62
	SEQUENCE	56 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
13	TRIVENCE	7.25 OZ WT/A	PRE	48
	ABUNDIT EXTRA	42.7 FL OZ/A	V3	
	COBRA	10 FL OZ/A	V3	
	WARRANT	48 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
14	ROWEL	3 OZ WT/A	PRE	55
	TRICOR	6 OZ WT/A	PRE	
	ROUNDUP POWERMAX	32 FL OZ/A	V3	
	WARRANT ULTRA	50 FL OZ/A	V3	
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3	
	LSD P=.05			16.6
	Standard Deviation			9.9
	CV			18.98
	Replicate F			4.379
	Replicate Prob(F)			0.0230
	Treatment F			0.821
	Treatment Prob(F)			0.6354

University of Kentucky

NO-TILL SOYBEAN VI

Trial ID: S16025 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: MON-24-02 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: DAN CHILDS

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

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
BU = bushel

ARM Action Codes

TY1 = $4.776316 * [14] * (100 - [15]) / 86.5$

University of Kentucky

NO-TILL SOYBEAN VI

Trial ID: S16025 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-24-02 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/6/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:
 Crop Protection Market Development Protocol

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN

Planting Date: 5/6/2016
Planting Method: DRILLE drilled

Emergence Date: 5/11/2016
Harvest Date: 10/6/2016
Harvested Width, Unit: 4 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 14
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Trial Initiation Comments:

Soil Description

Description Name: LANTON

% Sand: 7	% OM: 4	Texture: SIL	silt loam
% Silt: 63	pH: 6.5	Soil Name: LANTON SILT LOAM	
% Clay: 30	CEC: 22	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

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Application Description

	A	B
Application Date:	5/6/2016	6/8/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	74 F
% Relative Humidity:	45	65
Wind Velocity, Unit:	6 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	60 F	70 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	10	0
Next Moisture Occurred On:	5/7/2016	6/14/2016

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:	3	IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	5	IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 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
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

University of Kentucky

NO-TILL SOYBEAN VII

Trial ID: S16025-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-24-02-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

Pest Type	W Weed	W Weed
Pest Code	ERICA	ERICA
Pest Name	Marestail	Marestail
Crop Code	GLXMA	GLXMA
Crop Name	Soybean	Soybean
Rating Date	5/20/2016 5/20/2016	6/1/2016 6/1/2016
Rating Type	INJURY CONTROL	INJURY CONTROL
Rating Unit	PERCENT PERCENT	PERCENT PERCENT
Rating Timing	2 WEEK 2 WEEK	4 WEEK 4 WEEK
Days After First/Last Applic.	17 17	29 29

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4
1	ROWEL	3 OZ WT/A	PRE	0	95	0	87
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	WARRANT ULTRA	50 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
2	ROWEL FX	4 OZ WT/A	PRE	0	95	0	90
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	WARRANT ULTRA	50 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
3	ROWEL	2 OZ WT/A	PRE	0	90	0	80
	WARRANT	48 FL OZ/A	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	WARRANT ULTRA	50 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
4	WARRANT ULTRA	50 FL OZ/A	PRE	0	90	0	82
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	COBRA	10 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
5	WARRANT	48 FL OZ/A	PRE	0	100	0	100
	TRICOR	6 OZ WT/A	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	COBRA	10 FL OZ/A	V3				
	WARRANT	48 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
6	AUTHORITY MTZ	14 OZ WT/A	PRE	0	98	0	96
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	MARVEL	7.25 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
7	AUTHORITY MAXX	9.4 OZ WT/A	PRE	0	92	0	78
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	MARVEL	7.25 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
8	FIERCE XLT	4.5 OZ WT/A	PRE	0	94	0	83
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	COBRA	10 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				

Could not calculate LSD (% mean diff) for columns 1,3 because error mean square = 0.

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Pest Type	W Weed	W Weed		
Pest Code	ERICA	ERICA		
Pest Name	Marestail	Marestail		
Crop Code	GLXMA	GLXMA		
Crop Name	Soybean	Soybean		
Rating Date	5/20/2016	5/20/2016	6/1/2016	6/1/2016
Rating Type	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL	INJURY CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	17 17	17 17	29 29	29 29

Trt No.	Treatment Name	Rate Unit	Growth Stage	Means			
				1	2	3	4
9	ZIDUA	2.75 OZ WT/A	PRE	0	83	0	77
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	ULTRA BLAZER	16 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
10	VERDICT	13.9 FL OZ/A	PRE	0	98	0	98
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	ULTRA BLAZER	16 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
11	BROADAXE XC	32 FL OZ/A	PRE	0	92	0	89
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	PREFIX	32 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
12	PREFIX	32 FL OZ/A	PRE	0	97	0	95
	SEQUENCE	56 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
13	TRIVENCE	7.25 OZ WT/A	PRE	0	100	0	100
	ABUNDIT EXTRA	42.7 FL OZ/A	V3				
	COBRA	10 FL OZ/A	V3				
	WARRANT	48 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
14	ROWEL	3 OZ WT/A	PRE	0	100	0	98
	TRICOR	6 OZ WT/A	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	WARRANT ULTRA	50 FL OZ/A	V3				
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3				
LSD P=.05				.	6.6	.	9.6
Standard Deviation				0.0	3.9	0.0	5.7
CV				0.0	4.14	0.0	6.39
Replicate F				0.000	0.729	0.000	0.428
Replicate Prob(F)				1.0000	0.4921	1.0000	0.6565
Treatment F				0.000	4.528	0.000	6.572
Treatment Prob(F)				1.0000	0.0005	1.0000	0.0001

Pest Type

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

Pest Code

ERICA, Erigeron canadensis, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN VII

Trial ID: S16025-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-24-02-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/3/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 62 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/9/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/16/2016

Pest Description

Pest 1 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Site and Design

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 14
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM
% Clay: 32	CEC: 18	Fert. Level: E excellent
		Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1 MI

University of Kentucky

Application Description

	A	B
Application Date:	5/3/2016	6/20/2016
Appl. Start Time:	12:00 PM	
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	58 F	88 F
% Relative Humidity:	60	55
Wind Velocity, Unit:	7 MPH	5 MPH
Wind Direction:	WSW	SW
Soil Temperature, Unit:	60 F	74 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	95	15
Next Moisture Occurred On:	5/4/2016	6/21/2016

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:	ERICA W	ERICA W
Height, Unit:	5 IN	5 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 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
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

Date	By	Notes
5/3/2016	SARA	OVERSPRAYED WITH LIBERTY @ 36 OZ + 1 PINT 2,4-D

University of Kentucky

NO-TILL SOYBEAN XI-1

Trial ID: S16026	Location: LEXINGTON, KY	Trial Year: 2016
Protocol ID: BASF-SB-NT	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: GREG STAPLETON	

Pest Type	Pest Code	Pest Name	Crop Code	Crop Name	Rating Type	Rating Unit	Rating Timing	W Weed		W Weed		W Weed		W Weed		W Weed			
								SETFA	AMBTR	IPOSS	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR			
								Giant foxtail		Giant ragweed		Morning glory		Giant foxtail		Giant ragweed			
								GLXMA				GLXMA							
								Soybean				Soybean							
								INJURY		CONTROL		CONTROL		CONTROL		INJURY		CONTROL	
								PERCENT		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
								2 WEEK		2 WEEK		2 WEEK		2 WEEK		4 WEEK		4 WEEK	
Trt No.	Treatment Name	Rate	Unit	Growth Stage	1		2		3		4		5		6		7		
1	CHECK				0	0	0	0	0	0	0	0	0	0	0	0			
2	ZIDUA	3.3	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	SHARPEN	1.0	FL OZ/A	PRE															
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
3	ZIDUA PRO	6.0	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
4	ZIDUA PRO	5.0	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
5	ZIDUA PRO	4.0	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
6	ZIDUA	3.3	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	VERDICT	5.0	FL OZ/A	PRE															
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
7	AUTHORITY FIRST	5.0	OZ WT/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
8	FIERCE XLT	4.5	OZ WT/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															
9	VERDICT	5.0	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	0	99	99			
	METRIBUZIN	5.0	OZ WT/A	PRE															
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE															
	MSO	1.0	% V/V	PRE															
	AMS	8.5	LB/100 GAL	PRE															

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,10 because error mean square = 0.

University of Kentucky

Pest Type			W Weed		W Weed	W Weed	W Weed	
Pest Code			IPOSS		SETFA	AMBTR	IPOSS	
Pest Name			Morning glory		Giant foxtail	Giant ragweed	Morning glory	
Crop Code				GLXMA				
Crop Name				Soybean				
Rating Type			CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Timing			4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	8	9	10	11	12
1	CHECK			0	0	0	0	0
2	ZIDUA	3.3 FL OZ/A	PRE	80	0	99	33	80
	SHARPEN	1.0 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
3	ZIDUA PRO	6.0 FL OZ/A	PRE	80	0	99	47	80
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
4	ZIDUA PRO	5.0 FL OZ/A	PRE	75	0	99	50	75
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
5	ZIDUA PRO	4.0 FL OZ/A	PRE	80	0	99	60	80
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
6	ZIDUA	3.3 FL OZ/A	PRE	77	0	99	50	77
	VERDICT	5.0 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
7	AUTHORITY FIRST	5.0 OZ WT/A	PRE	80	0	99	63	80
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
8	FIERCE XLT	4.5 OZ WT/A	PRE	85	0	99	73	85
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					
9	VERDICT	5.0 FL OZ/A	PRE	75	0	99	50	75
	METRIBUZIN	5.0 OZ WT/A	PRE					
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
	MSO	1.0 % V/V	PRE					
	AMS	8.5 LB/100 GAL	PRE					

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	IPOSS	SETFA	AMBTR	IPOSS			
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory			
Crop Code	GLXMA						
Crop Name	Soybean						
Rating Type	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK			
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	8	9	10	11	12
10 VERDICT	5.0 FL OZ/A	PRE	75	0	99	50	75
OUTLOOK	5.0 FL OZ/A	PRE					
ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
MSO	1.0 % V/V	PRE					
AMS	8.5 LB/100 GAL	PRE					
11 VALOR SX	3.0 OZ WT/A	PRE	75	0	99	50	75
METRIBUZIN	5.0 OZ WT/A	PRE					
ROUNDUP POWERMAX	32.0 FL OZ/A	PRE					
MSO	1.0 % V/V	PRE					
AMS	8.5 LB/100 GAL	PRE					
LSD P=.05			1.5	.	.	6.0	1.5
Standard Deviation			0.9	0.0	0.0	3.5	0.9
CV			1.22	0.0	0.0	7.39	1.22
Replicate F			1.000	0.000	0.000	1.276	1.000
Replicate Prob(F)			0.3855	1.0000	1.0000	0.3009	0.3855
Treatment F			2240.200	0.000	0.000	85.052	2240.200
Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001	0.0001

University of Kentucky

NO-TILL SOYBEAN XI-1

Trial ID: S16026 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: BASF-SB-NT Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: GREG STAPLETON

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

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN XI-1

Trial ID: S16026 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-SB-NT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Application Description

A
Application Date: 5/6/2016
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 65 F
% Relative Humidity: 45
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 57 F
Soil Moisture: EXCELL
% Cloud Cover: 40
Next Moisture Occurred On: 5/7/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Pest 2 Code, Type, Scale: AMBTR W
Pest 3 Code, Type, Scale: IPOSS W

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 8.5 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 2.7 liters
Propellant: CO2

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 11
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: LANTON
% Sand: 7 **% OM:** 4 **Texture:** SIL silt loam
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON SILT LOAM
% Clay: 30 **CEC:** 22 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

University of Kentucky

NO-TILL SOYBEAN XI-2

Trial ID: S16026-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-SB-NT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMACH	IPOSS	SETFA	AMACH
Pest Name	Giant foxtail	Smooth pigweed	Morning glory	Giant foxtail	Smooth pigweed
Crop Code	GLXMA			GLXMA	
Crop Name	Soybean			Soybean	
Rating Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	ZIDUA	3.3	FL OZ/A	PRE	0	99	99	99	0	93	89
	SHARPEN	1.0	FL OZ/A	PRE							
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
2	ZIDUA PRO	6.0	FL OZ/A	PRE	0	99	99	99	0	95	99
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
3	ZIDUA PRO	5.0	FL OZ/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
4	ZIDUA PRO	4.0	FL OZ/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
5	ZIDUA	3.3	FL OZ/A	PRE	0	99	99	99	0	99	99
	VERDICT	5.0	FL OZ/A	PRE							
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
6	AUTHORITY FIRST	5.0	OZ WT/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
7	FIERCE XLT	4.5	OZ WT/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							
8	VERDICT	5.0	FL OZ/A	PRE	0	99	99	99	0	99	99
	METRIBUZIN	5.0	OZ WT/A	PRE							
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE							
	MSO	1.0	% V/V	PRE							
	AMS	8.5	LB/100 GAL	PRE							

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,8 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		SETFA	AMACH	IPOSS		SETFA	AMACH
Pest Name		Giant foxtail	Smooth pigweed	Morning glory		Giant foxtail	Smooth pigweed
Crop Code		GLXMA				GLXMA	
Crop Name		Soybean				Soybean	
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK

Trt No.	Treatment Name	Rate Unit	Growth Stage	Injury Percent						
				1	2	3	4	5	6	7
9	VERDICT	5.0 FL OZ/A	PRE	0	99	99	99	0	99	99
	OUTLOOK	5.0 FL OZ/A	PRE							
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE							
	MSO	1.0 % V/V	PRE							
	AMS	8.5 LB/100 GAL	PRE							
10	VALOR SX	3.0 OZ WT/A	PRE	0	99	99	99	0	99	99
	METRIBUZIN	5.0 OZ WT/A	PRE							
	ROUNDUP POWERMAX	32.0 FL OZ/A	PRE							
	MSO	1.0 % V/V	PRE							
	AMS	8.5 LB/100 GAL	PRE							
11	CHECK			0	0	0	0	0	0	0
	LSD P=.05			.	.	.	.	.	1.5	0.6
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.9	0.3
	CV			0.0	0.0	0.0	0.0	0.0	0.98	0.39
	Replicate F			0.000	0.000	0.000	0.000	0.000	1.000	1.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.3855	0.3855
	Treatment F			0.000	0.000	0.000	0.000	0.000	3475.144	21831.852
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	
Crop Name	
Rating Type	CONTROL
Rating Unit	PERCENT
Rating Timing	4 WEEK

Trt No.	Treatment Name	Rate	Unit	Growth Stage	8
1	ZIDUA	3.3 FL	OZ/A	PRE	99
	SHARPEN	1.0 FL	OZ/A	PRE	
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
2	ZIDUA PRO	6.0 FL	OZ/A	PRE	99
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
3	ZIDUA PRO	5.0 FL	OZ/A	PRE	99
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
4	ZIDUA PRO	4.0 FL	OZ/A	PRE	99
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
5	ZIDUA	3.3 FL	OZ/A	PRE	99
	VERDICT	5.0 FL	OZ/A	PRE	
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
6	AUTHORITY FIRST	5.0 OZ	WT/A	PRE	99
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
7	FIERCE XLT	4.5 OZ	WT/A	PRE	99
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	
8	VERDICT	5.0 FL	OZ/A	PRE	99
	METRIBUZIN	5.0 OZ	WT/A	PRE	
	ROUNDUP POWERMAX	32.0 FL	OZ/A	PRE	
	MSO	1.0 %	V/V	PRE	
	AMS	8.5 LB/100	GAL	PRE	

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Pest Type	W Weed
Pest Code	IPOSS
Pest Name	Morning glory
Crop Code	
Crop Name	
Rating Type	CONTROL
Rating Unit	PERCENT
Rating Timing	4 WEEK

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
9	VERDICT	5.0	FL OZ/A	PRE	99
	OUTLOOK	5.0	FL OZ/A	PRE	
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE	
	MSO	1.0	% V/V	PRE	
	AMS	8.5	LB/100 GAL	PRE	
10	VALOR SX	3.0	OZ WT/A	PRE	99
	METRIBUZIN	5.0	OZ WT/A	PRE	
	ROUNDUP POWERMAX	32.0	FL OZ/A	PRE	
	MSO	1.0	% V/V	PRE	
	AMS	8.5	LB/100 GAL	PRE	
11	CHECK				0
	LSD P=.05				.
	Standard Deviation				0.0
	CV				0.0
	Replicate F				0.000
	Replicate Prob(F)				1.0000
	Treatment F				0.000
	Treatment Prob(F)				1.0000

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NO-TILL SOYBEAN XI-2

Trial ID: S16026-2 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: BASF-SB-NT Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: GREG STAPLETON

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US

AMACH, *Amaranthus hybridus*, = US

IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN XI-2

Trial ID: S16026-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-SB-NT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/31/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 70 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/31/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 6/4/2016

Pest Description

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

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

Pest 3 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 11
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL	silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM	
% Clay: 32	CEC: 18	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 3 MI

University of Kentucky

Application Description

A
Application Date: 6/1/2016
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 83 F
% Relative Humidity: 53
Wind Velocity, Unit: 4 MPH
Wind Direction: SW
Soil Temperature, Unit: 72 F
Soil Moisture: EXCELL
% Cloud Cover: 20
Next Moisture Occurred On: 6/1/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Pest 2 Code, Type, Scale: AMACH W
Pest 3 Code, Type, Scale: IPOSS W

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 8.5 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 3 liters
Propellant: CO2

University of Kentucky

NO-TILL SOYBEAN VIII

Trial ID: S16027 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: SYN-SOY1 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Marestail	Giant foxtail
Crop Code	GLXMA		GLXMA	
Crop Name	Soybean		Soybean	
Rating Date	6/2/2016	6/2/2016	6/2/2016	6/2/2016
Rating Type	INJURY	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	27 1	27 1	27 1	41 15
Trt-Eval Interval	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6
1	GRAMOXONE	3 PT/A	PRE	0	100	87	99	0	100
	BOUNDARY	1.5 PT/A	PRE						
	FLEXSTAR GT	3.5 PT/A	14DAP						
	MSO	1 % V/V	14DAP						
2	GRAMOXONE	3 PT/A	PRE	0	100	83	99	0	100
	PREFIX	2 PT/A	PRE						
	SEQUENCE	2.5 PT/A	14DAP						
3	GRAMOXONE	3 PT/A	PRE	0	100	82	96	0	100
	BOUNDARY	1.5 PT/A	PRE						
	PREFIX	2 PT/A	14DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP						
	N-PAK AMS LIQUID	2.5 % V/V	14DAP						
4	GRAMOXONE	3 PT/A	PRE	0	100	83	96	0	100
	BROADAXE XC	20 OZ/A	PRE						
	PREFIX	2 PT/A	14DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP						
	N-PAK AMS LIQUID	2.5 % V/V	14DAP						
5	SEQUENCE	2.5 PT/A	PRE	0	100	83	30	0	100
	PREFIX	2 PT/A	14DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP						
	N-PAK AMS LIQUID	2.5 % V/V	14DAP						
6	GRAMOXONE	3 PT/A	PRE	0	100	93	99	0	100
	VALOR XLT	3.5 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP						
	N-PAK AMS LIQUID	2.5 % V/V	14DAP						
7	GRAMOXONE	3 PT/A	PRE	0	100	80	96	0	100
	FIERCE	3 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP						
	N-PAK AMS LIQUID	2.5 % V/V	14DAP						
8	GRAMOXONE	3 PT/A	PRE	0	100	99	98	0	100
	FIERCE XLT	4 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP						
	N-PAK AMS LIQUID	2.5 % V/V	14DAP						

Could not calculate LSD (% mean diff) for columns 1,5,9 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	ERICA	SETFA
Pest Name		Giant foxtail	Giant ragweed	Marestail	Giant foxtail
Crop Code	GLXMA				GLXMA
Crop Name	Soybean				Soybean
Rating Date	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/16/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	27 1	27 1	27 1	27 1	41 15
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6
9	GRAMOXONE	3	PT/A	PRE	0	100	95	96	0	100
	AUTHORITY MAXX	5	OZ/A	PRE						
	ANTHEM MAXX	2.5	OZ/A	14DAP						
	MARVEL	7	OZ/A	14DAP						
	ROUNDUP POWERMAX	22	FL OZ/A	14DAP						
	NIS	0.25	% V/V	14DAP						
10	GRAMOXONE	3	PT/A	PRE	0	100	90	99	0	100
	AUTHORITY MTZ	14	OZ/A	PRE						
	ANTHEM MAXX	2.5	OZ/A	14DAP						
	MARVEL	7	OZ/A	14DAP						
	ROUNDUP POWERMAX	22	FL OZ/A	14DAP						
	NIS	0.25	% V/V	14DAP						
	LSD P=.05				.	0.4	15.4	11.2	.	0.4
	Standard Deviation				0.0	0.2	9.0	6.5	0.0	0.2
	CV				0.0	0.24	10.23	7.19	0.0	0.24
	Replicate F				0.000	2.250	0.038	0.203	0.000	2.250
	Replicate Prob(F)				1.0000	0.1342	0.9629	0.8184	1.0000	0.1342
	Treatment F				0.000	1.000	1.578	32.319	0.000	1.000
	Treatment Prob(F)				1.0000	0.4742	0.1960	0.0001	1.0000	0.4742

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	GLXMA			
Pest Code	AMBTR	ERICA	SETFA	AMBTR	ERICA		GLXMA			
Pest Name	Giant ragweed	Marestail	Giant foxtail	Giant ragweed	Marestail		Soybean			
Crop Code							Soybean			
Crop Name							Soybean			
Rating Date	6/16/2016	6/16/2016	6/30/2016	6/30/2016	6/30/2016	6/30/2016	10/7/2016			
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK				
Days After First/Last Applic.	41 15	41 15	55 29	55 29	55 29	55 29	154 128			
Trt-Eval Interval	AFTER POST AFTER POST AFTER POST AFTER POST AFTER POST AFTER POST									
Trt No.	Treatment	Rate	Growth Stage	7	8	9	10	11	12	16
1	GRAMOXONE	3 PT/A	PRE	99	99	0	100	96	99	68
	BOUNDARY	1.5 PT/A	PRE							
	FLEXSTAR GT	3.5 PT/A	14DAP							
	MSO	1 % V/V	14DAP							
2	GRAMOXONE	3 PT/A	PRE	99	99	0	100	93	99	64
	PREFIX	2 PT/A	PRE							
	SEQUENCE	2.5 PT/A	14DAP							
3	GRAMOXONE	3 PT/A	PRE	99	96	0	100	96	96	60
	BOUNDARY	1.5 PT/A	PRE							
	PREFIX	2 PT/A	14DAP							
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP							
	N-PAK AMS LIQUID	2.5 % V/V	14DAP							
4	GRAMOXONE	3 PT/A	PRE	99	96	0	100	95	96	61
	BROADAXE XC	20 OZ/A	PRE							
	PREFIX	2 PT/A	14DAP							
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP							
	N-PAK AMS LIQUID	2.5 % V/V	14DAP							
5	SEQUENCE	2.5 PT/A	PRE	99	30	0	100	99	30	44
	PREFIX	2 PT/A	14DAP							
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP							
	N-PAK AMS LIQUID	2.5 % V/V	14DAP							
6	GRAMOXONE	3 PT/A	PRE	99	99	0	100	96	99	63
	VALOR XLT	3.5 OZ/A	PRE							
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP							
	N-PAK AMS LIQUID	2.5 % V/V	14DAP							
7	GRAMOXONE	3 PT/A	PRE	99	96	0	100	88	96	55
	FIERCE	3 OZ/A	PRE							
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP							
	N-PAK AMS LIQUID	2.5 % V/V	14DAP							
8	GRAMOXONE	3 PT/A	PRE	99	98	0	100	95	95	67
	FIERCE XLT	4 OZ/A	PRE							
	ROUNDUP POWERMAX	32 FL OZ/A	14DAP							
	N-PAK AMS LIQUID	2.5 % V/V	14DAP							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	ERICA		SETFA	AMBTR	ERICA	
Pest Name	Giant ragweed	Marestail		Giant foxtail	Giant ragweed	Marestail	
Crop Code			GLXMA				GLXMA
Crop Name			Soybean				Soybean
Rating Date	6/16/2016	6/16/2016	6/30/2016	6/30/2016	6/30/2016	6/30/2016	10/7/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
Days After First/Last Applic.	41 15	41 15	55 29	55 29	55 29	55 29	154 128
Trt-Eval Interval	AFTER POST		AFTER POST		AFTER POST		AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	7	8	9	10	11	12	16
9	GRAMOXONE	3 PT/A	PRE	99	96	0	100	92	96	59
	AUTHORITY MAXX	5 OZ/A	PRE							
	ANTHEM MAXX	2.5 OZ/A	14DAP							
	MARVEL	7 OZ/A	14DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	14DAP							
	NIS	0.25 % V/V	14DAP							
10	GRAMOXONE	3 PT/A	PRE	99	99	0	100	94	99	66
	AUTHORITY MTZ	14 OZ/A	PRE							
	ANTHEM MAXX	2.5 OZ/A	14DAP							
	MARVEL	7 OZ/A	14DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	14DAP							
	NIS	0.25 % V/V	14DAP							
	LSD P=.05			0.3	11.2	.	0.4	6.9	11.4	6.4
	Standard Deviation			0.2	6.5	0.0	0.2	4.0	6.7	3.7
	CV			0.18	7.19	0.0	0.24	4.28	7.35	6.15
	Replicate F			1.000	0.203	0.000	2.250	0.253	0.202	15.190
	Replicate Prob(F)			0.3874	0.8184	1.0000	0.1342	0.7790	0.8189	0.0001
	Treatment F			1.000	32.319	0.000	1.000	1.761	30.878	10.280
	Treatment Prob(F)			0.4742	0.0001	1.0000	0.4742	0.1466	0.0001	0.0001

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NO-TILL SOYBEAN VIII

Trial ID: S16027 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: SYN-SOY1 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: SCOTT CULLY/SARAH GEHANT

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
ERICA, Erigeron canadensis, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
BU = bushel

ARM Action Codes

TY1 = $4.776316 * [14] * (100 - [15]) / 86.5$

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NO-TILL SOYBEAN VIII

Trial ID: S16027 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: SYN-SOY1 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016
Completion Date: 10/7/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016
Harvest Date: 10/7/2016

Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Harvested Width, Unit: 4 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

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:** ERICA *Erigeron canadensis*
Common Name: Marestalk

Site and Design

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 10
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

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Application Description

	A	B
Application Date:	5/6/2016	6/1/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	14DAE
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	83 F	83 F
% Relative Humidity:	53	53
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	59 F	72 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	20	10
Next Moisture Occurred On:	5/7/2016	6/1/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	3	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:	3	IN
Pest 3 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	3	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

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NO-TILL SOYBEAN IX

Trial ID: S16028 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DUP-SB-RR Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	ERICA	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail	
Crop Code	GLXMA					GLXMA
Crop Scientific Name	Glycine max					Glycine max
Crop Name	Soybean					Soybean
Rating Date	5/20/2016	5/20/2016	5/20/2016	5/20/2016	5/20/2016	6/20/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	45 14
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Unit	Stage	1	2	3	4	5	6
1	TRIVENCE	8 OZ/A	PRE		0	99	89	99	80	0
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
2	TRIVENCE	8 OZ/A	PRE		0	99	99	99	80	0
	ABUNDIT EXTRA	1 QT/A	MP							
	CLASSIC	0.5 OZ/A	MP							
	CINCH	1 PT/A	MP							
3	CANOPY BLEND	7.5 OZ/A	PRE		0	99	92	99	80	0
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
4	CANOPY BLEND	7.5 OZ/A	PRE		0	99	99	99	90	0
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	CLASSIC	0.5 OZ/A	MP							
	CINCH	1 PT/A	MP							
5	ENVIVE	3.5 OZ/A	PRE		0	99	95	99	90	0
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
6	TRIVENCE	8 OZ/A	PRE		0	99	95	99	100	0
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
7	UNTREATED CHECK				0	0	0	0	0	0
	LSD P=.05				.	.	2.0	.	.	.
	Standard Deviation				0.0	0.0	1.1	0.0	0.0	0.0
	CV				0.0	0.0	1.4	0.0	0.0	0.0
	Replicate F				0.000	0.000	1.427	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	0.2780	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	2990.061	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	ERICA		SETFA	AMBTR
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed
Crop Code						GLXMA	
Crop Scientific Name						Glycine max	
Crop Name						Soybean	
Rating Date	6/20/2016	6/20/2016	6/20/2016	6/20/2016	7/6/2016	7/6/2016	7/6/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	45 14	45 14	45 14	45 14	61 30	61 30	61 30
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12	13
1	TRIVENCE	8 OZ/A	PRE	99	99	99	80	0	99	99
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
2	TRIVENCE	8 OZ/A	PRE	99	99	99	80	0	99	99
	ABUNDIT EXTRA	1 QT/A	MP							
	CLASSIC	0.5 OZ/A	MP							
	CINCH	1 PT/A	MP							
3	CANOPY BLEND	7.5 OZ/A	PRE	99	99	99	80	0	99	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
4	CANOPY BLEND	7.5 OZ/A	PRE	99	99	99	90	0	99	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	CLASSIC	0.5 OZ/A	MP							
	CINCH	1 PT/A	MP							
5	ENVIVE	3.5 OZ/A	PRE	99	99	99	90	0	99	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
6	TRIVENCE	8 OZ/A	PRE	99	99	99	100	0	99	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EXTRA	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
7	UNTREATED CHECK			0	0	0	0	0	0	0
	LSD P=.05			.	.	.	.	.	.	.
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed
Pest Code	IPOSS	ERICA
Pest Name	Morning glory	Marestail
Crop Code		
Crop Scientific Name		
Crop Name		
Rating Date	7/6/2016	7/6/2016
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK
Days After First/Last Applic.	61 30	61 30
Trt-Eval Interval	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	14	15
1	TRIVENCE	8 OZ/A PRE		99	80
	ABUNDIT EXTRA	1 QT/A MP			
	PREFIX	1 QT/A MP			
2	TRIVENCE	8 OZ/A PRE		99	80
	ABUNDIT EXTRA	1 QT/A MP			
	CLASSIC	0.5 OZ/A MP			
	CINCH	1 PT/A MP			
3	CANOPY BLEND	7.5 OZ/A PRE		99	80
	CINCH	1 PT/A PRE			
	ABUNDIT EXTRA	1 QT/A MP			
	PREFIX	1 QT/A MP			
4	CANOPY BLEND	7.5 OZ/A PRE		99	90
	CINCH	1 PT/A PRE			
	ABUNDIT EXTRA	1 QT/A MP			
	CLASSIC	0.5 OZ/A MP			
	CINCH	1 PT/A MP			
5	ENVIVE	3.5 OZ/A PRE		99	90
	CINCH	1 PT/A PRE			
	ABUNDIT EXTRA	1 QT/A MP			
	PREFIX	1 QT/A MP			
6	TRIVENCE	8 OZ/A PRE		99	100
	CINCH	1 PT/A PRE			
	ABUNDIT EXTRA	1 QT/A MP			
	PREFIX	1 QT/A MP			
7	UNTREATED CHECK			0	0
	LSD P=.05			.	.
	Standard Deviation			0.0	0.0
	CV			0.0	0.0
	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

University of Kentucky

NO-TILL SOYBEAN IX

Trial ID: S16028 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: DUP-SB-RR Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

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

ERICA, *Erigeron canadensis*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

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NO-TILL SOYBEAN IX

Trial ID: S16028 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: DUP-SB-RR Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016

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

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

Site and Design

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 7
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

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Application Description

	A	B
Application Date:	5/6/2016	6/6/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	82 F
% Relative Humidity:	45	47
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	60 F	75 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	10	0
Next Moisture Occurred On:	5/7/2016	6/7/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	6	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:	5	IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2	IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	6	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S16029
Protocol ID: BAYER-BURN
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOSHUA JONES

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	VIORA	STEME	ERICA	LAMPU	VIORA
Pest Name	Purple deadnet>	Field pansy	Common chickwe>	Marestail	Purple deadnet>	Field pansy
Rating Date	4/27/2016	4/27/2016	4/27/2016	4/27/2016	5/4/2016	5/4/2016
Rating Timing	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	7 1	7 1	7 1	7 1	14 8	14 8

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	LIBERTY 280	29 OZ/A	4"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	4"WEEDS						
	2,4-D AMINE	1.5 PT/A	4"WEEDS						
3	LIBERTY 280	36 OZ/A	4"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	4"WEEDS						
	2,4-D AMINE	1.5 PT/A	4"WEEDS						
4	LIBERTY 280	43 OZ/A	4"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	4"WEEDS						
	2,4-D AMINE	1.5 PT/A	4"WEEDS						
5	LIBERTY 280	29 OZ/A	4"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	4"WEEDS						
	SHARPEN	2 OZ/A	4"WEEDS						
6	LIBERTY 280	36 OZ/A	4"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	4"WEEDS						
	SHARPEN	2 OZ/A	4"WEEDS						
7	LIBERTY 280	43 OZ/A	4"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	4"WEEDS						
	SHARPEN	2 OZ/A	4"WEEDS						
8	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	2,4-D AMINE	1.5 PT/A	8"WEEDS						
9	LIBERTY 280	36 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	2,4-D AMINE	1.5 PT/A	8"WEEDS						
10	LIBERTY 280	43 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	2,4-D AMINE	1.5 PT/A	8"WEEDS						
11	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	SHARPEN	2 OZ/A	8"WEEDS						
12	LIBERTY 280	36 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	SHARPEN	2 OZ/A	8"WEEDS						
13	LIBERTY 280	43 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	SHARPEN	2 OZ/A	8"WEEDS						
14	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	99	99	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS						
	2,4-D AMINE	1 PT/A	8"WEEDS						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	VIORA	STEME	ERICA	LAMPU	VIORA
Pest Name	Purple deadnet>	Field pansy	Common chickwe>	Marestail	Purple deadnet>	Field pansy
Rating Date	4/27/2016	4/27/2016	4/27/2016	4/27/2016	5/4/2016	5/4/2016
Rating Timing	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	7 1	7 1	7 1	7 1	14 8	14 8
Trt Treatment	Rate	Growth				
No. Name	Rate Unit	Stage	1	2	3	4
15 LIBERTY 280	29 OZ/A	8"WEEDS	99	99	99	99
AMS	8.5 LB/100 GAL	8"WEEDS				
SHARPEN	1 OZ/A	8"WEEDS				
LSD P=.05			.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0
Replicate F			0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed W Weed
Pest Code	STEME ERICA
Pest Name	Common chickwe> Marestail
Rating Date	5/4/2016 5/4/2016
Rating Timing	2 WEEK 2 WEEK
Days After First/Last Applic.	14 8 14 8

Trt No.	Treatment Name	Rate Unit	Growth Stage	7	8	9
1	UNTREATED				0	0
2	LIBERTY 280	29 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	2,4-D AMINE	1.5 PT/A	4"WEEDS			
3	LIBERTY 280	36 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	2,4-D AMINE	1.5 PT/A	4"WEEDS			
4	LIBERTY 280	43 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	2,4-D AMINE	1.5 PT/A	4"WEEDS			
5	LIBERTY 280	29 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	SHARPEN	2 OZ/A	4"WEEDS			
6	LIBERTY 280	36 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	SHARPEN	2 OZ/A	4"WEEDS			
7	LIBERTY 280	43 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	SHARPEN	2 OZ/A	4"WEEDS			
8	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1.5 PT/A	8"WEEDS			
9	LIBERTY 280	36 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1.5 PT/A	8"WEEDS			
10	LIBERTY 280	43 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1.5 PT/A	8"WEEDS			
11	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	SHARPEN	2 OZ/A	8"WEEDS			
12	LIBERTY 280	36 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	SHARPEN	2 OZ/A	8"WEEDS			
13	LIBERTY 280	43 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	SHARPEN	2 OZ/A	8"WEEDS			
14	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1 PT/A	8"WEEDS			

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Pest Type	W Weed	W Weed
Pest Code	STEME	ERICA
Pest Name	Common chickwe> Marestail	
Rating Date	5/4/2016	5/4/2016
Rating Timing	2 WEEK	2 WEEK
Days After First/Last Applic.	14 8	14 8

Trt	Treatment	Rate	Growth		
No.	Name	Rate Unit	Stage	7	8 9
15	LIBERTY 280	29 OZ/A	8"WEEDS	99	99
	AMS	8.5 LB/100 GAL	8"WEEDS		
	SHARPEN	1 OZ/A	8"WEEDS		
LSD P=.05					
Standard Deviation				0.0	0.0
CV				0.0	0.0
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

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NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S16029 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: BAYER-BURN Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOSHUA JONES

Pest Type

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

Pest Code

LAMPU, Lamium purpureum, = US

VIORA, Viola bicolor, = US

STEME, Stellaria media, = US

ERICA, Conyza canadensis, = ERICA, Conyza canadensis,

University of Kentucky

NO-TILL SOYBEAN EARLY PREPLANT

Trial ID: S16029 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BAYER-BURN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/20/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
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Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/13/2016

Pest Description

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

Pest 2 Type: W **Code:** VIORA *Viola bicolor*
Common Name: Field Pansy

Pest 3 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed

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

Site and Design

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT2
Replications: 3

Site Type: FIELD field
Treatments: 15
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6
% Silt: 62
% Clay: 32

% OM: 2.6
pH: 6.4
CEC: 18

Texture: SIL silt loam
Soil Name: MAURY SILT LOAM
Fert. Level: E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP
Distance, Unit: 2.25 MI

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Application Description

	A	B
Application Date:	4/20/2016	4/26/2016
Application Method:	SPRAY	SPRAY
Application Timing:	4" weeds	8" weeds
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	75 F
% Relative Humidity:	30	30
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	58 F	63 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	10	10
Next Moisture Occurred On:	4/21/2016	4/26/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	BSOY GLXMA

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Height, Unit:	4 IN	5 IN
Pest 2 Code, Type, Scale:	VIORA W	VIORA W
Height, Unit:	4 IN	5 IN
Pest 3 Code, Type, Scale:	STEME W	STEME W
Height, Unit:	4 IN	4 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	3 IN	3 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

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Date	By	Notes
6/2/2016	SARA	OVERSPRAYED WITH 1 QT ROUNDUP POWERMAX + 2% V/V AMS

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NO-TILL SOYBEAN EARLY PREPLANT II

Trial ID: S16029-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BAYER-BURN-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

Pest Type			W Weed	W Weed		
Pest Code			ERICA	ERICA		
Pest Name			Marestail	Marestail		
Rating Date			5/6/2016	5/9/2016		
Rating Type			CONTROL	CONTROL		
Rating Unit			PERCENT	PERCENT		
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			7 3	10 6		
Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3
1	LIBERTY	29 FL OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
2	LIBERTY 280	29 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	2,4-D AMINE	1.5 PT/A	4"WEEDS			
3	LIBERTY 280	36 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	2,4-D AMINE	1.5 PT/A	4"WEEDS			
4	LIBERTY 280	43 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	2,4-D AMINE	1.5 PT/A	4"WEEDS			
5	LIBERTY 280	29 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	SHARPEN	2 OZ/A	4"WEEDS			
6	LIBERTY 280	36 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	SHARPEN	2 OZ/A	4"WEEDS			
7	LIBERTY 280	43 OZ/A	4"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	4"WEEDS			
	SHARPEN	2 OZ/A	4"WEEDS			
8	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1.5 PT/A	8"WEEDS			
9	LIBERTY 280	36 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1.5 PT/A	8"WEEDS			
10	LIBERTY 280	43 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	2,4-D AMINE	1.5 PT/A	8"WEEDS			
11	LIBERTY 280	29 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	SHARPEN	2 OZ/A	8"WEEDS			
12	LIBERTY 280	36 OZ/A	8"WEEDS	99	99	
	AMS	8.5 LB/100 GAL	8"WEEDS			
	SHARPEN	2 OZ/A	8"WEEDS			

Could not calculate LSD (% mean diff) for columns 1,2,3 because error mean square = 0.

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Pest Type	W Weed	W Weed
Pest Code	ERICA	ERICA
Pest Name	Marestail	Marestail
Rating Date	5/6/2016	5/9/2016
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Timing	1 WEEK	2 WEEK
Days After First/Last Applic.	7 3	10 6

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3
13	LIBERTY 280	43	OZ/A	8"WEEDS	99		99
	AMS	8.5	LB/100 GAL	8"WEEDS			
	SHARPEN	2	OZ/A	8"WEEDS			
LSD P=.05					.		.
Standard Deviation					0.0	0.0	.
CV					0.0	0.0	.
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	

Pest Type

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

Pest Code

ERICA, Conyza canadensis, = ERICA, Conyza canadensis,

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN EARLY PREPLANT II

Trial ID: S16029-2 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BAYER-BURN-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
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City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 61 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

Planting Date: 5/9/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/16/2016

Pest Description

Pest 1 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestalk

Site and Design

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT2
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM
% Clay: 32	CEC: 18	Fert. Level: E excellent
		Soil Drainage: E excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: WEWEDR wet-wet-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1 MI

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Application Description

	A	B
Application Date:	4/29/2016	5/3/2016
Application Method:	SPRAY	SPRAY
Application Timing:	4" weeds	8" weeds
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	73 F	75 F
% Relative Humidity:	40	30
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	WSW	SW
Soil Temperature, Unit:	63 F	63 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	10
Next Moisture Occurred On:	4/30/2016	5/4/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	BSOY GLXMA

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	4 IN	4 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	8.5 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

University of Kentucky

SOYBEAN PREEMERGENCE

Trial ID: S16030 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-SB-PRE Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR			
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed			
Crop Code	GLXMA				GLXMA					
Crop Name	Soybean				Soybean					
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK			
Trt No.	Treatment Name	Rate	Growth	1	2	3	4	5	6	7
		Rate Unit	Stage							
1	CHECK			0	0	0	0	0	0	0
2	ZIDUA	3.3 FL OZ/A	PRE	10	99	99	99	0	99	78
	SHARPEN	1.0 FL OZ/A	PRE							
3	ZIDUA PRO	6.0 FL OZ/A	PRE	10	99	99	99	0	99	87
4	ZIDUA PRO	5.0 FL OZ/A	PRE	0	99	99	99	0	99	80
5	ZIDUA PRO	4.5 FL OZ/A	PRE	0	99	99	99	0	99	80
6	ZIDUA	3.3 FL OZ/A	PRE	0	99	99	99	0	99	80
	VERDICT	5.0 FL OZ/A	PRE							
7	ZIDUA	2.2 FL OZ/A	PRE	0	99	99	99	0	99	68
	VERDICT	5.0 FL OZ/A	PRE							
8	OPTILL	2.0 OZ WT/A	PRE	10	99	99	99	0	99	85
	OUTLOOK	10.0 FL OZ/A	PRE							
9	AUTHORITY FIRST	5.0 OZ WT/A	PRE	0	99	99	99	0	99	90
10	FIERCE	3.75 OZ WT/A	PRE	0	99	98	98	0	99	61
11	SENCOR	4.3 OZ WT/A	PRE	0	99	99	99	0	99	95
	VALOR SX	1.8 OZ WT/A	PRE							
	CLASSIC	1.1 OZ WT/A	PRE							
12	ANTHEM	6.5 FL OZ/A	PRE	0	99	98	98	0	99	60
	LSD P=.05			.	.	1.1	1.1	.	.	2.2
	Standard Deviation			0.0	0.0	0.8	0.8	0.0	0.0	1.5
	CV			0.0	0.0	0.86	0.86	0.0	0.0	2.09
	Replicate F			0.000	0.000	2.200	2.200	0.000	0.000	0.528
	Replicate Prob(F)			1.0000	1.0000	0.1066	0.1066	1.0000	1.0000	0.6660
	Treatment F			0.000	0.000	5371.751	5371.751	0.000	0.000	1119.032
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	0.0001

Could not calculate LSD (% mean diff) for columns 1,2,5,6,9,10,12 because error mean square = 0.

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Pest Type			W Weed		W Weed		W Weed		W Weed
Pest Code			IPOSS		SETFA		AMBTR		IPOSS
Pest Name			Morning glory		Giant foxtail		Giant ragweed		Morning glory
Crop Code					GLXMA				
Crop Name					Soybean				
Rating Type			CONTROL	INJURY	CONTROL		CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT		PERCENT		PERCENT
Rating Timing			4 WEEK	8 WEEK	8 WEEK		8 WEEK		8 WEEK
Trt No.	Treatment Name	Rate	Growth	8	9	10	11	12	
		Rate Unit	Stage						
1	CHECK			0	0	0	0	0	
2	ZIDUA	3.3 FL OZ/A	PRE	78	0	99	60	70	
	SHARPEN	1.0 FL OZ/A	PRE						
3	ZIDUA PRO	6.0 FL OZ/A	PRE	87	0	99	70	70	
4	ZIDUA PRO	5.0 FL OZ/A	PRE	80	0	99	70	70	
5	ZIDUA PRO	4.5 FL OZ/A	PRE	80	0	99	70	70	
6	ZIDUA	3.3 FL OZ/A	PRE	80	0	99	60	60	
	VERDICT	5.0 FL OZ/A	PRE						
7	ZIDUA	2.2 FL OZ/A	PRE	70	0	99	50	70	
	VERDICT	5.0 FL OZ/A	PRE						
8	OPTILL	2.0 OZ WT/A	PRE	85	0	99	70	80	
	OUTLOOK	10.0 FL OZ/A	PRE						
9	AUTHORITY FIRST	5.0 OZ WT/A	PRE	90	0	99	80	80	
10	FIERCE	3.75 OZ WT/A	PRE	60	0	99	30	50	
11	SENCOR	4.3 OZ WT/A	PRE	95	0	99	90	90	
	VALOR SX	1.8 OZ WT/A	PRE						
	CLASSIC	1.1 OZ WT/A	PRE						
12	ANTHEM	6.5 FL OZ/A	PRE	60	0	99	38	60	
	LSD P=.05			1.4	.	.	6.2	.	
	Standard Deviation			1.0	0.0	0.0	4.3	0.0	
	CV			1.35	0.0	0.0	7.56	0.0	
	Replicate F			1.000	0.000	0.000	1.000	0.000	
	Replicate Prob(F)			0.4051	1.0000	1.0000	0.4051	1.0000	
	Treatment F			2668.428	0.000	0.000	130.293	0.000	
	Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001	1.0000	

University of Kentucky

SOYBEAN PREEMERGENCE

Trial ID: S16030 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: BASF-SB-PRE Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: GREG STAPLETON

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

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

SOYBEAN PREEMERGENCE

Trial ID: S16030 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BASF-SB-PRE Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/16/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
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City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/16/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/21/2016

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

Treated Plot Width: 10 FT
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT² **Treatments:** 12
Replications: 4

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

University of Kentucky

Application Description

A
Application Date: 5/16/2016
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Applied By: C H SLACK
Air Temperature, Unit: 55 F
% Relative Humidity: 50
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 60 F
Soil Moisture: WET
% Cloud Cover: 80
Next Moisture Occurred On: 5/17/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Pest 2 Code, Type, Scale: AMBTR W
Pest 3 Code, Type, Scale: IPOSS W

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation 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: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 3 liters
Propellant: CO2

University of Kentucky

NO-TILL SOYBEAN X

Trial ID: S16031 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BAYER-LL-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail
Crop Code	GLXMA				GLXMA	
Crop Name	Soybean				Soybean	
Rating Date	5/23/2016	5/23/2016	5/23/2016	5/23/2016	6/20/2016	6/20/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	42 12	42 12
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	85	85	0	99
	LIBERTY 280	29 OZ/A	MP						
	AMS	8.5 LB/100 GAL	MP						
	LIBERTY 280	29 OZ/A	LP						
	AMS	8.5 LB/100 GAL	LP						
3	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	85	85	0	99
	LIBERTY 280	36 OZ/A	MP						
	AMS	8.5 LB/100 GAL	MP						
	LIBERTY 280	36 OZ/A	LP						
	AMS	8.5 LB/100 GAL	LP						
4	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	90	90	0	99
	LIBERTY 280	43 OZ/A	MP						
	AMS	8.5 LB/100 GAL	MP						
	LIBERTY 280	43 OZ/A	LP						
	AMS	8.5 LB/100 GAL	LP						
5	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	85	85	0	99
	LIBERTY 280	29 OZ/A	MP						
	AMS	8.5 LB/100 GAL	MP						
6	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	85	85	0	99
	LIBERTY 280	36 OZ/A	MP						
	AMS	8.5 LB/100 GAL	MP						
7	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	85	90	0	99
	LIBERTY 280	43 OZ/A	MP						
	AMS	8.5 LB/100 GAL	MP						
8	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	90	90	0	99
	LIBERTY 280	29 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	CADET	0.5 OZ/A	EP						
9	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	90	90	0	99
	LIBERTY 280	29 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
	ANTHEM	7 OZ/A	EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,8,9,10,11,12 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA	AMBTR
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed
Crop Code			GLXMA		
Crop Name			Soybean		
Rating Date	6/20/2016	6/20/2016	7/6/2016	7/6/2016	7/6/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	42 12	42 12	58 12	58 12	58 12
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	7	8	9	10	11	12
1	UNTREATED				0	0	0	0	0	0
2	AUTHORITY FIRST	6.5 OZ/A		PRE	99	99	0	99	99	99
	LIBERTY 280	29 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
	LIBERTY 280	29 OZ/A		LP						
	AMS	8.5 LB/100 GAL		LP						
3	AUTHORITY FIRST	6.5 OZ/A		PRE	89	99	0	99	99	99
	LIBERTY 280	36 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
	LIBERTY 280	36 OZ/A		LP						
	AMS	8.5 LB/100 GAL		LP						
4	AUTHORITY FIRST	6.5 OZ/A		PRE	90	99	0	99	99	99
	LIBERTY 280	43 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
	LIBERTY 280	43 OZ/A		LP						
	AMS	8.5 LB/100 GAL		LP						
5	AUTHORITY FIRST	6.5 OZ/A		PRE	88	99	0	99	99	99
	LIBERTY 280	29 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
6	AUTHORITY FIRST	6.5 OZ/A		PRE	88	99	0	99	99	99
	LIBERTY 280	36 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
7	AUTHORITY FIRST	6.5 OZ/A		PRE	95	99	0	99	99	99
	LIBERTY 280	43 OZ/A		MP						
	AMS	8.5 LB/100 GAL		MP						
8	AUTHORITY FIRST	6.5 OZ/A		PRE	88	99	0	99	99	99
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	CADET	0.5 OZ/A		EP						
9	AUTHORITY FIRST	6.5 OZ/A		PRE	80	99	0	99	99	99
	LIBERTY 280	29 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
	ANTHEM	7 OZ/A		EP						

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA	IPOSS
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Morning glory
Crop Code			GLXMA		
Crop Name			Soybean		
Rating Date	6/20/2016	6/20/2016	7/6/2016	7/6/2016	7/6/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	42 12	42 12	58 12	58 12	58 12
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12
10	AUTHORITY XL	7.5 OZ/A	PRE	99	99	0	99	99	99
	LIBERTY 280	29 OZ/A	MP						
	FLEXSTAR	1.5 PT/A	MP						
	NIS	0.25 % V/V	MP						
	AMS	8.5 LB/100 GAL	MP						
	LIBERTY 280	29 OZ/A	LP						
	AMS	8.5 LB/100 GAL	LP						
11	AUTHORITY MTZ	14 OZ/A	PRE	99	99	0	99	99	99
	LIBERTY 280	29 OZ/A	MP						
	ANTHEM MAXX	2.5 OZ/A	MP						
	NIS	0.25 % V/V	MP						
	AMS	8.5 LB/100 GAL	MP						
	LIBERTY 280	29 OZ/A	LP						
	AMS	8.5 LB/100 GAL	LP						
12	UNTREATED			0	0	0	0	0	0
	LSD P=.05			0.6	.	.	.	.	.
	Standard Deviation			0.3	0.0	0.0	0.0	0.0	0.0
	CV			0.44	0.0	0.0	0.0	0.0	0.0
	Replicate F			1.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			0.3840	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			35151.185	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

University of Kentucky

NO-TILL SOYBEAN X

Trial ID: S16031 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: BAYER-LL-SB Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOSHUA JONES

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

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN X

Trial ID: S16031 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: BAYER-LL-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 10/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ3841LL

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/12/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 12
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL	silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM	
% Clay: 32	CEC: 18	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

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Application Description

	A	B	C	D
Application Date:	5/9/2016	6/6/2016	6/8/2016	6/24/2016
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	82 F	70 F	85 F
% Relative Humidity:	58	47	37	80
Wind Velocity, Unit:	6 MPH	8 MPH	6 MPH	4 MPH
Wind Direction:	SW	SW	SW	WSW
Soil Temperature, Unit:	61 F	75 F	71 F	76 F
Soil Moisture:	EXCELL	WET	WET	GOOD
% Cloud Cover:	10	30	20	30
Next Moisture Occurred On:	5/10/2016	6/7/2016	6/14/2016	6/27/2016

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:	5 IN	6 IN	10 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:	2 IN	2 IN	4 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	3 IN	3 IN	8 IN	
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	1 IN	4 IN	

Application Equipment

	A	B	C	D
Appl. Equipment:	ATV	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 FT	8.5 FT	8.5 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
Mix Size, Unit:	2.7 liters	2.7 liters	2.7 liters	2.7 liters
Propellant:	CO2	CO2	CO2	CO2

Date By Notes

(S16031)

University of Kentucky

5/9/2016 SARA ADDED 36 OZ/A LIBERTY TO ALL PRE TREATMENTS

University of Kentucky

NO-TILL SOYBEAN XII

Trial ID: S16032 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SB-LL Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR		
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed		
Crop Code	GLXMA				GLXMA				
Crop Name	Soybean				Soybean				
Rating Date	6/20/2016	6/20/2016	6/20/2016	6/20/2016	7/6/2016	7/6/2016	7/6/2016		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK		
Days After First/Last Applic.	14 14	14 14	14 14	14 14	30 30	30 30	30 30		
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5		
			6	7					
1 UNTREATED CHECK			0	99	99	99	0	0	0
2 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	89
AMS	3 LB/A LP								
3 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	90
COBRA	8 FL OZ/A LP								
AMS	3 LB/A LP								
4 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	90
COBRA	10 FL OZ/A LP								
AMS	3 LB/A LP								
5 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	95
COBRA	12 FL OZ/A LP								
AMS	3 LB/A LP								
6 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	95
COBRA	8 FL OZ/A LP								
COC	1 PT/A LP								
AMS	3 LB/A LP								
7 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	99
FLEXSTAR	16 FL OZ/A LP								
COC	1 PT/A LP								
AMS	3 LB/A LP								
8 LIBERTY 280	29 FL OZ/A LP		0	99	99	99	0	99	99
ULTRA BLAZER	16 FL OZ/A LP								
COC	1 PT/A LP								
AMS	3 LB/A LP								
LSD P=.05			.	.	.	.	.	.	0.7
Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	0.4
CV			0.0	0.0	0.0	0.0	0.0	0.0	0.5
Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	1.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.3927
Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	20112.573
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,8,9,10,12 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	IPOSS	SETFA	AMBTR	IPOSS				
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory				
Crop Code	GLXMA							
Crop Name	Soybean							
Rating Date	7/6/2016	8/3/2016	8/3/2016	8/3/2016				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK				
Days After First/Last Applic.	30 30	58 58	58 58	58 58				
Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12
		Rate Unit						
1	UNTREATED CHECK			0	0	0	0	0
2	LIBERTY 280	29 FL OZ/A LP		99	0	99	89	99
	AMS	3 LB/A LP						
3	LIBERTY 280	29 FL OZ/A LP		99	0	99	90	99
	COBRA	8 FL OZ/A LP						
	AMS	3 LB/A LP						
4	LIBERTY 280	29 FL OZ/A LP		99	0	99	90	99
	COBRA	10 FL OZ/A LP						
	AMS	3 LB/A LP						
5	LIBERTY 280	29 FL OZ/A LP		99	0	99	95	99
	COBRA	12 FL OZ/A LP						
	AMS	3 LB/A LP						
6	LIBERTY 280	29 FL OZ/A LP		99	0	99	95	99
	COBRA	8 FL OZ/A LP						
	COC	1 PT/A LP						
	AMS	3 LB/A LP						
7	LIBERTY 280	29 FL OZ/A LP		99	0	99	99	99
	FLEXSTAR	16 FL OZ/A LP						
	COC	1 PT/A LP						
	AMS	3 LB/A LP						
8	LIBERTY 280	29 FL OZ/A LP		99	0	99	99	99
	ULTRA BLAZER	16 FL OZ/A LP						
	COC	1 PT/A LP						
	AMS	3 LB/A LP						
	LSD P=.05			.	.	.	0.7	.
	Standard Deviation			0.0	0.0	0.0	0.4	0.0
	CV			0.0	0.0	0.0	0.5	0.0
	Replicate F			0.000	0.000	0.000	1.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	0.3927	1.0000
	Treatment F			0.000	0.000	0.000	20112.573	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001	1.0000

University of Kentucky

NO-TILL SOYBEAN XII

Trial ID: S16032 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: VAL-SB-LL Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

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

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN XII

Trial ID: S16032 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SB-LL Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ3841LL

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 58 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 8
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

University of Kentucky

Application Description

A
Application Date: 6/6/2016
Application Method: SPRAY
Application Timing: LP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 82 F
% Relative Humidity: 47
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 72 F
Soil Moisture: GOOD
% Cloud Cover: 0
Next Moisture Occurred On: 6/7/2016

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 8.5 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 2.7 liters
Propellant: CO2

Date By Notes

(S16032)

University of Kentucky

5/9/2016 SARA OVERSPRAYED ENTIRE TRIAL WITH 36 OZ/A LIBERTY

University of Kentucky

NO-TILL SOYBEAN XIII

Trial ID: S16033
Protocol ID: FMC SOY PRE-POST
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: RUSTY MITCHELL

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail
Crop Code	GLXMA				GLXMA	
Crop Name	Soybean				Soybean	
Rating Date					6/23/2016	6/23/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.					45 17	45 17
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	LIBERTY 280	29 FL OZ/A	V2	0	99	70	80	0	99
	NIS	0.25 % V/V	V2						
	LIBERTY 280	29 FL OZ/A	V5						
3	AUTHORITY ELITE	24 OZ/A	PRE	0	99	70	80	0	99
	MARVEL	7 OZ/A	V2						
	LIBERTY 280	29 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	LIBERTY 280	29 FL OZ/A	V5						
4	AUTHORITY MAXX	5 OZ/A	PRE	0	99	85	85	0	99
	ANTHEM MAXX	2.5 OZ/A	PRE						
	MARVEL	7 OZ/A	V2						
	LIBERTY 280	29 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	LIBERTY 280	29 FL OZ/A	V5						
5	AUTHORITY MAXX	5 OZ/A	PRE	0	99	85	85	0	99
	ANTHEM MAXX	3 OZ/A	V2						
	LIBERTY 280	29 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	LIBERTY 280	29 FL OZ/A	V5						
6	AUTHORITY MAXX	5 OZ/A	PRE	0	99	95	95	0	99
	ANTHEM MAXX	2.5 OZ/A	V2						
	MARVEL	7 OZ/A	V2						
	LIBERTY 280	29 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	LIBERTY 280	29 FL OZ/A	V5						
7	AUTHORITY MTZ	14 OZ/A	PRE	0	99	70	70	0	99
	ANTHEM MAXX	2.5 OZ/A	PRE						
	MARVEL	7 OZ/A	V2						
	LIBERTY 280	29 FL OZ/A	V2						
	NIS	0.25 % V/V	V2						
	LIBERTY 280	29 FL OZ/A	V5						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,10,11,13,14,15 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS		SETFA	AMBTR	IPOSS	
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory	
Crop Code			GLXMA				GLXMA
Crop Name			Soybean				Soybean
Rating Date	6/23/2016	6/23/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	45 17	45 17	59 13	59 13	59 13	59 13	
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12	13
1	UNTREATED				0	0	0	0	0	0
2	LIBERTY 280	29 FL OZ/A	V2		99	99	0	99	99	99
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
3	AUTHORITY ELITE	24 OZ/A	PRE		99	99	0	99	99	99
	MARVEL	7 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
4	AUTHORITY MAXX	5 OZ/A	PRE		99	99	0	99	99	99
	ANTHEM MAXX	2.5 OZ/A	PRE							
	MARVEL	7 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
5	AUTHORITY MAXX	5 OZ/A	PRE		99	94	0	99	99	94
	ANTHEM MAXX	3 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
6	AUTHORITY MAXX	5 OZ/A	PRE		99	99	0	99	99	99
	ANTHEM MAXX	2.5 OZ/A	V2							
	MARVEL	7 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
7	AUTHORITY MTZ	14 OZ/A	PRE		99	99	0	99	99	99
	ANTHEM MAXX	2.5 OZ/A	PRE							
	MARVEL	7 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code			GLXMA		GLXMA
Crop Name			Soybean		Soybean
Rating Date	6/23/2016	6/23/2016	7/7/2016	7/7/2016	7/7/2016
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	45 17	45 17	59 13	59 13	59 13
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12	13
8	AUTHORITY MTZ	14 OZ/A	PRE	99	99	0	99	99	99	0
	ANTHEM MAXX	3 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
9	AUTHORITY MTZ	14 OZ/A	PRE	99	99	0	99	99	99	0
	ANTHEM MAXX	2.5 OZ/A	V2							
	MARVEL	7 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
10	FIERCE	3 OZ/A	PRE	99	99	0	99	99	99	0
	PREFIX	32 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
11	BOUNDARY	32 OZ/A	PRE	99	99	0	99	99	99	0
	PREFIX	32 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
12	VALOR XLT	3 OZ/A	PRE	99	99	0	99	99	99	0
	PREFIX	32 OZ/A	V2							
	LIBERTY 280	29 FL OZ/A	V2							
	NIS	0.25 % V/V	V2							
	LIBERTY 280	29 FL OZ/A	V5							
LSD P=.05				.	4.0	.	.	.	4.0	.
Standard Deviation				0.0	2.3	0.0	0.0	0.0	2.3	0.0
CV				0.0	2.58	0.0	0.0	0.0	2.58	0.0
Replicate F				0.000	1.000	0.000	0.000	0.000	1.000	0.000
Replicate Prob(F)				1.0000	0.3840	1.0000	1.0000	1.0000	0.3840	1.0000
Treatment F				0.000	447.189	0.000	0.000	0.000	447.189	0.000
Treatment Prob(F)				1.0000	0.0001	1.0000	1.0000	1.0000	0.0001	1.0000

University of Kentucky

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS
Pest Name	Giant foxtail	Giant ragweed	Morning glory
Crop Code			
Crop Name			
Rating Date			
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	14	15	16
1	UNTREATED				0	0	0
2	LIBERTY 280	29 FL	OZ/A	V2	99	99	99
	NIS	0.25 %	V/V	V2			
	LIBERTY 280	29 FL	OZ/A	V5			
3	AUTHORITY ELITE	24 OZ/A		PRE	99	99	99
	MARVEL	7 OZ/A		V2			
	LIBERTY 280	29 FL	OZ/A	V2			
	NIS	0.25 %	V/V	V2			
	LIBERTY 280	29 FL	OZ/A	V5			
4	AUTHORITY MAXX	5 OZ/A		PRE	99	99	99
	ANTHEM MAXX	2.5 OZ/A		PRE			
	MARVEL	7 OZ/A		V2			
	LIBERTY 280	29 FL	OZ/A	V2			
	NIS	0.25 %	V/V	V2			
	LIBERTY 280	29 FL	OZ/A	V5			
5	AUTHORITY MAXX	5 OZ/A		PRE	99	99	94
	ANTHEM MAXX	3 OZ/A		V2			
	LIBERTY 280	29 FL	OZ/A	V2			
	NIS	0.25 %	V/V	V2			
	LIBERTY 280	29 FL	OZ/A	V5			
6	AUTHORITY MAXX	5 OZ/A		PRE	99	99	99
	ANTHEM MAXX	2.5 OZ/A		V2			
	MARVEL	7 OZ/A		V2			
	LIBERTY 280	29 FL	OZ/A	V2			
	NIS	0.25 %	V/V	V2			
	LIBERTY 280	29 FL	OZ/A	V5			
7	AUTHORITY MTZ	14 OZ/A		PRE	99	99	99
	ANTHEM MAXX	2.5 OZ/A		PRE			
	MARVEL	7 OZ/A		V2			
	LIBERTY 280	29 FL	OZ/A	V2			
	NIS	0.25 %	V/V	V2			
	LIBERTY 280	29 FL	OZ/A	V5			

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS
Pest Name	Giant foxtail	Giant ragweed	Morning glory
Crop Code			
Crop Name			
Rating Date			
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	14	15	16
8	AUTHORITY MTZ	14 OZ/A	PRE	99	99	99
	ANTHEM MAXX	3 OZ/A	V2			
	LIBERTY 280	29 FL OZ/A	V2			
	NIS	0.25 % V/V	V2			
	LIBERTY 280	29 FL OZ/A	V5			
9	AUTHORITY MTZ	14 OZ/A	PRE	99	99	99
	ANTHEM MAXX	2.5 OZ/A	V2			
	MARVEL	7 OZ/A	V2			
	LIBERTY 280	29 FL OZ/A	V2			
	NIS	0.25 % V/V	V2			
	LIBERTY 280	29 FL OZ/A	V5			
10	FIERCE	3 OZ/A	PRE	99	99	99
	PREFIX	32 OZ/A	V2			
	LIBERTY 280	29 FL OZ/A	V2			
	NIS	0.25 % V/V	V2			
	LIBERTY 280	29 FL OZ/A	V5			
11	BOUNDARY	32 OZ/A	PRE	99	99	99
	PREFIX	32 OZ/A	V2			
	LIBERTY 280	29 FL OZ/A	V2			
	NIS	0.25 % V/V	V2			
	LIBERTY 280	29 FL OZ/A	V5			
12	VALOR XLT	3 OZ/A	PRE	99	99	99
	PREFIX	32 OZ/A	V2			
	LIBERTY 280	29 FL OZ/A	V2			
	NIS	0.25 % V/V	V2			
	LIBERTY 280	29 FL OZ/A	V5			
LSD P=.05				.	.	4.0
Standard Deviation				0.0	0.0	2.3
CV				0.0	0.0	2.58
Replicate F				0.000	0.000	1.000
Replicate Prob(F)				1.0000	1.0000	0.3840
Treatment F				0.000	0.000	447.189
Treatment Prob(F)				1.0000	1.0000	0.0001

University of Kentucky

NO-TILL SOYBEAN XIII

Trial ID: S16033
Protocol ID: FMC SOY PRE-POST
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: RUSTY MITCHELL

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

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN XIII

Trial ID: S16033 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: FMC SOY PRE-POST Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ3841LL

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/12/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 12
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY

% Sand: 6	% OM: 2.6	Texture: SIL	silt loam
% Silt: 62	pH: 6.4	Soil Name: MAURY SILT LOAM	
% Clay: 32	CEC: 18	Fert. Level: E	excellent
		Soil Drainage: E	excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

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Application Description

	A	B	C
Application Date:	5/9/2016	6/6/2016	6/24/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V5
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	82 F	85 F
% Relative Humidity:	58	47	65
Wind Velocity, Unit:	6 MPH	8 MPH	6 MPH
Wind Direction:	SW	SW	SE
Soil Temperature, Unit:	61 F	74 F	76 F
Soil Moisture:	EXCELL	WET	GOOD
% Cloud Cover:	10	30	15
Next Moisture Occurred On:	5/9/2016	6/7/2016	6/27/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA BSOY

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	
Operation 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:	8.5 FT	8.5 FT	
Boom Height, Unit:	20 IN	20 IN	
Ground Speed, Unit:	4 MPH	4 MPH	
Carrier:	WATER	WATER	
Spray Volume, Unit:	24 GPA	24 GPA	
Propellant:	CO2	CO2	

University of Kentucky

NO-TILL SOYBEAN XIV

Trial ID: S16034 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: UPI-SB-LL Investigator: Charles H Slack
 Project ID: Study Director: Charles Slack/Sara Lawson
 Sponsor Contact: Tony Estes

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail
Crop Code	GLXMA				GLXMA	
Crop Name	Soybean				Soybean	
Rating Date	6/2/2016	6/2/2016	6/2/2016	6/2/2016	6/15/2016	6/15/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	24 1	24 1	24 1	24 1	37 14	37 14
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	CONTROL			0	0	0	0	0	0
2	TRICOR	12 FL OZ/A PRE		0	99	78	77	0	99
	SATELLITE HYDROCAP	32 FL OZ/A PRE							
	INTERLINE	29 FL OZ/A EP							
	AMS	2.5 % V/V EP							
	ULTRA BLAZER	24 FL OZ/A MP							
	CROP OIL CONCENTRATE	1 % V/V MP							
3	KFD-195-02	44 FL OZ/A PRE		0	99	73	73	0	99
	INTERLINE	29 FL OZ/A EP							
	AMS	2.5 % V/V EP							
	ULTRA BLAZER	24 FL OZ/A MP							
	CROP OIL CONCENTRATE	1 % V/V MP							
4	TRICOR	12 FL OZ/A PRE		0	99	88	88	0	99
	SATELLITE HYDROCAP	32 FL OZ/A PRE							
	KFD-277-01	3.83 FL OZ/A PRE							
	INTERLINE	29 FL OZ/A EP							
	AMS	2.5 % V/V EP							
	ULTRA BLAZER	24 FL OZ/A MP							
	CROP OIL CONCENTRATE	1 % V/V MP							
5	KFD-195-02	44 FL OZ/A PRE		0	99	91	91	0	99
	KFD-277-01	3.83 FL OZ/A PRE							
	INTERLINE	29 FL OZ/A EP							
	AMS	2.5 % V/V EP							
	ULTRA BLAZER	24 FL OZ/A MP							
	CROP OIL CONCENTRATE	1 % V/V MP							
	LSD P=.05			.	.	5.5	6.4	.	.
	Standard Deviation			0.0	0.0	2.9	3.4	0.0	0.0
	CV			0.0	0.0	4.4	5.2	0.0	0.0
	Replicate F			0.000	0.000	3.233	3.361	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	0.0935	0.0872	1.0000	1.0000
	Treatment F			0.000	0.000	503.032	360.619	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,5,6,7,8,9,10,11,12,13,14,15,16 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS			
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory			
Crop Code			GLXMA					
Crop Name			Soybean					
Rating Date	6/15/2016	6/15/2016	6/29/2016	6/29/2016	6/29/2016			
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK			
Days After First/Last Applic.	37 14	37 14	51 5	51 5	51 5			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
1 CONTROL			0	0	0	0	0	0
2 TRICOR	12 FL OZ/A PRE		90	90	0	99	80	80
SATELLITE HYDROCAP	32 FL OZ/A PRE							
INTERLINE	29 FL OZ/A EP							
AMS	2.5 % V/V EP							
ULTRA BLAZER	24 FL OZ/A MP							
CROP OIL CONCENTRATE	1 % V/V MP							
3 KFD-195-02	44 FL OZ/A PRE		90	90	0	99	90	90
INTERLINE	29 FL OZ/A EP							
AMS	2.5 % V/V EP							
ULTRA BLAZER	24 FL OZ/A MP							
CROP OIL CONCENTRATE	1 % V/V MP							
4 TRICOR	12 FL OZ/A PRE		70	70	0	99	90	90
SATELLITE HYDROCAP	32 FL OZ/A PRE							
KFD-277-01	3.83 FL OZ/A PRE							
INTERLINE	29 FL OZ/A EP							
AMS	2.5 % V/V EP							
ULTRA BLAZER	24 FL OZ/A MP							
CROP OIL CONCENTRATE	1 % V/V MP							
5 KFD-195-02	44 FL OZ/A PRE		70	70	0	99	90	90
KFD-277-01	3.83 FL OZ/A PRE							
INTERLINE	29 FL OZ/A EP							
AMS	2.5 % V/V EP							
ULTRA BLAZER	24 FL OZ/A MP							
CROP OIL CONCENTRATE	1 % V/V MP							
LSD P=.05			.	.	.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0	0.0	0.0
Replicate F			0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS
Pest Name		Giant foxtail	Giant ragweed	Morning glory
Crop Code	GLXMA			
Crop Name	Soybean			
Rating Date	7/27/2016	7/27/2016	7/27/2016	7/27/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	79 33	79 33	79 33	79 33
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	16
1	CONTROL			0	0	0	0
2	TRICOR	12 FL OZ/A	PRE	0	99	80	80
	SATELLITE HYDROCAP	32 FL OZ/A	PRE				
	INTERLINE	29 FL OZ/A	EP				
	AMS	2.5 % V/V	EP				
	ULTRA BLAZER	24 FL OZ/A	MP				
	CROP OIL CONCENTRATE	1 % V/V	MP				
3	KFD-195-02	44 FL OZ/A	PRE	0	99	90	90
	INTERLINE	29 FL OZ/A	EP				
	AMS	2.5 % V/V	EP				
	ULTRA BLAZER	24 FL OZ/A	MP				
	CROP OIL CONCENTRATE	1 % V/V	MP				
4	TRICOR	12 FL OZ/A	PRE	0	99	70	70
	SATELLITE HYDROCAP	32 FL OZ/A	PRE				
	KFD-277-01	3.83 FL OZ/A	PRE				
	INTERLINE	29 FL OZ/A	EP				
	AMS	2.5 % V/V	EP				
	ULTRA BLAZER	24 FL OZ/A	MP				
	CROP OIL CONCENTRATE	1 % V/V	MP				
5	KFD-195-02	44 FL OZ/A	PRE	0	99	60	60
	KFD-277-01	3.83 FL OZ/A	PRE				
	INTERLINE	29 FL OZ/A	EP				
	AMS	2.5 % V/V	EP				
	ULTRA BLAZER	24 FL OZ/A	MP				
	CROP OIL CONCENTRATE	1 % V/V	MP				
	LSD P=.05			.	.	.	.
	Standard Deviation			0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000

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NO-TILL SOYBEAN XIV

Trial ID: S16034 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: UPI-SB-LL Investigator: Charles H Slack
Project ID: Study Director: Charles Slack/Sara Lawson
Sponsor Contact: Tony Estes

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

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO-TILL SOYBEAN XIV

Trial ID: S16034 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: UPI-SB-LL Investigator: Charles H Slack
 Project ID: Study Director: Charles Slack/Sara Lawson
 Sponsor Contact: Tony Estes

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/1/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

University of Kentucky

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ3841LL

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 57 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/12/2016

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

Treated Plot Width: 8.5 FT
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 5
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

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Application Description

	A	B	C
Application Date:	5/9/2016	6/1/2016	6/24/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	87 F	85 F
% Relative Humidity:	58	46	65
Wind Velocity, Unit:	6 MPH	6 MPH	5 MPH
Wind Direction:	SW	SW	WSW
Soil Temperature, Unit:	60 F	72 F	75 F
Soil Moisture:	EXCELL	GOOD	GOOD
% Cloud Cover:	20	30	20
Next Moisture Occurred On:	5/10/2016	6/2/2016	6/27/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
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:	2 IN	4 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	3 IN	6 IN	
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1.5 IN	3 IN	

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation 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:	8.5 FT	8.5 FT	8.5 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:	15 GPA	15 GPA	15 GPA
Mix Size, Unit:	2.7 liters	2.7 liters	2.7 liters
Propellant:	CO2	CO2	CO2

Date By Notes

(S16034)

University of Kentucky

5/9/2016 SARA OVERSPRAYED WITH GLUFOSINATE

University of Kentucky

NO-TILL SOYBEAN XV

Trial ID: S16035 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ORO-SB1 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed				
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR				
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed				
Crop Code	GLXMA				GLXMA						
Crop Name	Soybean				Soybean						
Rating Type	INJURY CONTROL	CONTROL	CONTROL	CONTROL	INJURY CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT PERCENT	PERCENT	PERCENT	PERCENT	PERCENT PERCENT	PERCENT	PERCENT				
Rating Timing	2 WEEK 2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK 4 WEEK	4 WEEK	4 WEEK				
Trt No.	Treatment Name	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
1	UNTREATED				0	0	0	0	0	0	0
2	AUTHORITY XL	4 OZ/A	PRE		0	99	99	99	0	68	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
3	AUTHORITY MTZ	10 OZ/A	PRE		0	99	99	99	0	80	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
4	VALOR XLT	3.5 OZ/A	PRE		0	99	99	99	0	93	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
5	CANOPY	6 OZ/A	PRE		0	99	99	99	0	62	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
6	AUTHORITY XL	4 OZ/A	PRE		0	99	99	99	0	99	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
	OR 079	32 OZ/A	PRE								
7	AUTHORITY MTZ	10 OZ/A	PRE		0	99	99	99	0	80	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
	OR 079	32 OZ/A	PRE								
8	VALOR XLT	3.5 OZ/A	PRE		0	99	99	99	0	80	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
	OR 079	32 OZ/A	PRE								
9	CANOPY	6 OZ/A	PRE		0	99	99	99	0	88	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
	OR 079	32 OZ/A	PRE								
10	AUTHORITY XL	4 OZ/A	PRE		0	99	99	99	0	99	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
	OR 079	16 OZ/A	PRE								
11	AUTHORITY MTZ	10 OZ/A	PRE		0	99	99	99	0	70	99
	2,4-D ESTER	1 PT/A	PRE								
	ROUNDUP POWERMAX	22 OZ/A	PRE								
	OR 079	16 OZ/A	PRE								

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,7,8,9,11,12 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed				
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR				
Pest Name		Giant foxtail Giant ragweed Morning glory				Giant foxtail Giant ragweed					
Crop Code	GLXMA				GLXMA						
Crop Name	Soybean				Soybean						
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK				
Trt No.	Treatment Name	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
12	VALOR XLT	3.5	OZ/A	PRE	0	99	99	99	0	88	99
	2,4-D ESTER	1	PT/A	PRE							
	ROUNDUP POWERMAX	22	OZ/A	PRE							
	OR 079	16	OZ/A	PRE							
13	CANOPY	6	OZ/A	PRE	0	99	99	99	0	80	99
	2,4-D ESTER	1	PT/A	PRE							
	ROUNDUP POWERMAX	22	OZ/A	PRE							
	OR 079	16	OZ/A	PRE							
LSD P=.05					.	.	.	.	.	5.5	.
Standard Deviation					0.0	0.0	0.0	0.0	0.0	3.2	0.0
CV					0.0	0.0	0.0	0.0	0.0	4.27	0.0
Replicate F					0.000	0.000	0.000	0.000	0.000	1.066	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.3601	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	185.118	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	1.0000

University of Kentucky

Pest Type		W Weed		W Weed	W Weed	W Weed			
Pest Code		IPOSS		SETFA	AMBTR	IPOSS			
Pest Name		Morning glory		Giant foxtail	Giant ragweed	Morning glory			
Crop Code			GLXMA				GLXMA		
Crop Name			Soybean				Soybean		
Rating Type		CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU		
Rating Timing		4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12	16
1	UNTREATED			0	0	0	0	0	8
2	AUTHORITY XL	4 OZ/A PRE		99	0	68	99	99	59
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
3	AUTHORITY MTZ	10 OZ/A PRE		99	0	80	99	99	53
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
4	VALOR XLT	3.5 OZ/A PRE		99	0	93	99	99	76
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
5	CANOPY	6 OZ/A PRE		99	0	62	99	99	59
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
6	AUTHORITY XL	4 OZ/A PRE		99	0	99	99	99	70
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
	OR 079	32 OZ/A PRE							
7	AUTHORITY MTZ	10 OZ/A PRE		99	0	80	99	99	54
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
	OR 079	32 OZ/A PRE							
8	VALOR XLT	3.5 OZ/A PRE		99	0	80	99	99	64
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
	OR 079	32 OZ/A PRE							
9	CANOPY	6 OZ/A PRE		99	0	88	99	99	76
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
	OR 079	32 OZ/A PRE							
10	AUTHORITY XL	4 OZ/A PRE		99	0	99	99	99	69
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
	OR 079	16 OZ/A PRE							
11	AUTHORITY MTZ	10 OZ/A PRE		99	0	70	99	99	52
	2,4-D ESTER	1 PT/A PRE							
	ROUNDUP POWERMAX	22 OZ/A PRE							
	OR 079	16 OZ/A PRE							

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	IPOSS	SETFA	AMBTR	IPOSS				
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory				
Crop Code	GLXMA			GLXMA				
Crop Name	Soybean			Soybean				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK				
Trt Treatment	Rate	Growth	8	9	10	11	12	16
No. Name	Unit	Stage						
12 VALOR XLT	3.5 OZ/A	PRE	99	0	88	99	99	64
2,4-D ESTER	1 PT/A	PRE						
ROUNDUP POWERMAX	22 OZ/A	PRE						
OR 079	16 OZ/A	PRE						
13 CANOPY	6 OZ/A	PRE	99	0	80	99	99	69
2,4-D ESTER	1 PT/A	PRE						
ROUNDUP POWERMAX	22 OZ/A	PRE						
OR 079	16 OZ/A	PRE						
LSD P=.05			.	.	5.5	.	.	13.6
Standard Deviation			0.0	0.0	3.2	0.0	0.0	8.1
CV			0.0	0.0	4.27	0.0	0.0	13.53
Replicate F			0.000	0.000	1.066	0.000	0.000	2.868
Replicate Prob(F)			1.0000	1.0000	0.3601	1.0000	1.0000	0.0764
Treatment F			0.000	0.000	185.118	0.000	0.000	14.001
Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	1.0000	0.0001

University of Kentucky

NO-TILL SOYBEAN XV

Trial ID: S16035 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: ORO-SB1 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: FRAN CAMPBELL

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

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

TY1 = $4.776316 * [14] * (100 - [15]) / 86.5$

University of Kentucky

NO-TILL SOYBEAN XV

Trial ID: S16035 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: ORO-SB1 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/28/2016 **Planned Completion Date:** 10/15/2016
Completion Date: 10/10/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN

Planting Date: 5/6/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/11/2016
Harvest Date: 10/10/2016
Harvested Width, Unit: 4 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 13
Replications: 3
Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 IN

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Application Description

A
Application Date: 4/28/2016
Appl. Start Time: 2:30 PM
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 79 F
% Relative Humidity: 55
Wind Velocity, Unit: 6 MPH
Wind Direction: WSW
Soil Temperature, Unit: 64 F
Soil Moisture: EXCELL
% Cloud Cover: 5
Next Moisture Occurred On: 4/30/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Pest 2 Code, Type, Scale: AMBTR W
Pest 3 Code, Type, Scale: IPOSS W

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation 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: 20 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 3 liters
Propellant: CO2

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BOLT SOYBEAN

Trial ID: S16036 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: USA-16-155 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	6/3/2016	6/3/2016	6/3/2016	7/1/2016	7/1/2016
Rating Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	42 7	42 7

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6	7
1	LEADOFF		PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	+MP							
	SYNCHRONY XP		+MP							
	AMS	17 LB AI/100 GAL	+MP							
2	LEADOFF		PRE	0	99	99	99	0	99	99
	VALOR SX	1.02 OZ AI/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	+MP							
	SYNCHRONY XP		+MP							
	AMS	17 LB AI/100 GAL	+MP							
3	LEADOFF		PRE	0	99	99	99	0	99	99
	ENVIVE		PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	+MP							
	SYNCHRONY XP		+MP							
	AMS	17 LB AI/100 GAL	+MP							
4	LEADOFF		PRE	0	99	99	99	0	99	99
	CANOPY BLEND		PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	+MP							
	SYNCHRONY XP		+MP							
	AMS	17 LB AI/100 GAL	+MP							
5	DILIGENT		PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	+MP							
	SYNCHRONY XP		+MP							
	AMS	17 LB AI/100 GAL	+MP							
6	ENVIVE		PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	+MP							
	SYNCHRONY XP		+MP							
	AMS	17 LB AI/100 GAL	+MP							
7	VALOR	1.01 OZ AI/A	PRE	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	SYNCHRONY XP		MP							
	AMS	17 LB AI/100 GAL	MP							
8	BOUNDARY	1.5 PT/A	PRE	0	99	99	99	0	99	99
	FLEXSTAR GT	3.5 PT/A	MP							

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code	GLXMA			
Crop Name	Soybean			
Rating Date	7/1/2016	7/15/2016	7/15/2016	7/15/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	42 7	56 21	56 21	56 21

Trt No.	Treatment Name	Rate Unit	Growth Stage	8	9	10	11	12
1	LEADOFF		PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	+MP					
	SYNCHRONY XP		+MP					
	AMS	17 LB AI/100 GAL	+MP					
2	LEADOFF		PRE	99	0	99	99	99
	VALOR SX	1.02 OZ AI/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	+MP					
	SYNCHRONY XP		+MP					
	AMS	17 LB AI/100 GAL	+MP					
3	LEADOFF		PRE	99	0	99	99	99
	ENVIVE		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	+MP					
	SYNCHRONY XP		+MP					
	AMS	17 LB AI/100 GAL	+MP					
4	LEADOFF		PRE	99	0	99	99	99
	CANOPY BLEND		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	+MP					
	SYNCHRONY XP		+MP					
	AMS	17 LB AI/100 GAL	+MP					
5	DILIGENT		PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	+MP					
	SYNCHRONY XP		+MP					
	AMS	17 LB AI/100 GAL	+MP					
6	ENVIVE		PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	+MP					
	SYNCHRONY XP		+MP					
	AMS	17 LB AI/100 GAL	+MP					
7	VALOR	1.01 OZ AI/A	PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	SYNCHRONY XP		MP					
	AMS	17 LB AI/100 GAL	MP					
8	BOUNDARY	1.5 PT/A	PRE	99	0	99	99	99
	FLEXSTAR GT	3.5 PT/A	MP					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code	GLXMA			
Crop Name	Soybean			
Rating Date	7/11/2016	7/15/2016	7/15/2016	7/15/2016
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	42 7	56 21	56 21	56 21

Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	8	9	10	11	12
9 UNTREATED CHECK			0	0	0	0	0
LSD P=.05		
Standard Deviation			0.0	0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0	0.0
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

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BOLT SOYBEAN

Trial ID: S16036 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: USA-16-155 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

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

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

BOLT SOYBEAN

Trial ID: S16036 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: USA-16-155 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/19/2016 **Planned Completion Date:** 11/1/2016
Completion Date: 10/4/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: P38T61BR

Planting Rate, Unit: 120000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 60 F
Soil Moisture: WET wet
Seed Bed: SMOOTH smooth

Planting Date: 5/19/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/23/2016

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

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 9
Replications: 3

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

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Application Description

	A	B	C
Application Date:	5/20/2016	6/6/2016	6/24/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	+MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	80 F	85 F
% Relative Humidity:	75	60	65
Wind Velocity, Unit:	4 MPH	6 MPH	5 MPH
Wind Direction:	SW	WSW	SE
Soil Temperature, Unit:	60 F	74 F	76 F
Soil Moisture:	GOOD	WET	GOOD
% Cloud Cover:	60	10	15
Next Moisture Occurred On:	5/20/2016	6/7/2016	6/27/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
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:	2 IN	3 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	5 IN	
Pest 3 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
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation 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
Mix Size, Unit:	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

Date By Notes

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6/6/2016 SARA LAWSON I CHANGED MP ON TREATMENTS 1-6 TO +MP AS THEY WERE HOLDING WELL. WE APPLIED TREATMENTS 7 & 8 'MP' ON 6/6/16

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VOLUNTEER CORN IN SOYBEANS

Trial ID: S16037
Protocol ID: AMVAC-VOLCORN-SB
Project ID:

Location: LEXINGTON, KY Trial Year: 2016
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ZEAMX	SETFA	AMACH	ZEAMX	SETFA
Pest Name	Corn Giant foxtail		Smooth pigweed	Corn Giant foxtail	
Crop Code	GLXMA			GLXMA	
Crop Name	Soybean			Soybean	
Rating Date	6/22/2016	6/22/2016	6/22/2016	6/22/2016	7/6/2016 7/6/2016 7/6/2016
Rating Type	INJURY CONTROL		CONTROL	CONTROL	INJURY CONTROL CONTROL
Rating Unit	PERCENT		PERCENT	PERCENT	PERCENT PERCENT PERCENT
Rating Timing	2 WEEK		2 WEEK	2 WEEK	4 WEEK 4 WEEK 4 WEEK
Days After First/Last Applic.	16 16	16 16	16 16	16 16	30 30 30 30 30 30

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	UNTREATED CHECK				0	0	0	0	0	0	0
2	SCEPTER	1.4 OZ/A		EP	0	85	99	99	0	80	99
	ROUNDUP POWERMAX	28 OZ/A		EP							
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
3	SCEPTER	2.1 OZ/A		EP	0	90	99	99	0	85	99
	ROUNDUP POWERMAX	28 OZ/A		EP							
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
4	SCEPTER	2.8 OZ/A		EP	0	95	99	99	0	90	99
	ROUNDUP POWERMAX	28 OZ/A		EP							
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
5	SELECT MAX	16 OZ/A		EP	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP							
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
6	SELECT MAX	16 OZ/A		EP	0	95	99	99	0	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP							
	SCEPTER	1.4 OZ/A		EP							
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
7	FLEXSTAR GT	3.5 PT/A		EP	0	20	99	99	0	20	99
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
8	FLEXSTAR GT	3.5 PT/A		EP	0	99	99	99	0	95	99
	SCEPTER	1.4 OZ/A		EP							
	MSO	0.5 % V/V		EP							
	AMS	8.5 LB/100 GAL		EP							
LSD P=.05					.	.	.	.	.	.	.
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMACH	ZEAMX	SETFA	AMACH
Pest Name	Smooth pigweed	Corn Giant foxtail	Smooth pigweed	
Crop Code				
Crop Name				
Rating Date	7/6/2016	8/3/2016	8/3/2016	8/3/2016
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	30 30	58 58	58 58	58 58

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	8	9	10	11
1	UNTREATED CHECK				0	0	0	0
2	SCEPTER	1.4 OZ/A		EP	99	80	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP				
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
3	SCEPTER	2.1 OZ/A		EP	99	85	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP				
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
4	SCEPTER	2.8 OZ/A		EP	99	90	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP				
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
5	SELECT MAX	16 OZ/A		EP	99	99	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP				
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
6	SELECT MAX	16 OZ/A		EP	99	99	99	99
	ROUNDUP POWERMAX	28 OZ/A		EP				
	SCEPTER	1.4 OZ/A		EP				
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
7	FLEXSTAR GT	3.5 PT/A		EP	99	20	99	99
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
8	FLEXSTAR GT	3.5 PT/A		EP	99	95	99	99
	SCEPTER	1.4 OZ/A		EP				
	MSO	0.5 % V/V		EP				
	AMS	8.5 LB/100 GAL		EP				
LSD P=.05					.	.	.	.
Standard Deviation					0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0
Replicate F					0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000

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VOLUNTEER CORN IN SOYBEANS

Trial ID: S16037 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: AMVAC-VOLCORN-SB Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE

Pest Type

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

Pest Code

ZEAMX, Zea mays, = US

SETFA, Setaria faberi, = US

AMACH, Amaranthus hybridus, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

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VOLUNTEER CORN IN SOYBEANS

Trial ID: S16037 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: AMVAC-VOLCORN-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/16/2016 **Planned Completion Date:** 9/1/2016
Completion Date: 8/30/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Planting Date: 5/16/2016
Planting Method: DRILLE drilled
Planting Equipment: FE Field Equipment
Emergence Date: 5/21/2016

Pest Description

Pest 1 Type: W **Code:** ZEAMX Zea mays
Common Name: Corn

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 3 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth Pigweed

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT² **Treatments:** 8
Replications: 4

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

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Application Description

A
Application Date: 6/6/2016
Application Method: SPRAY
Application Timing: EP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 82 F
% Relative Humidity: 47
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 72 F
Soil Moisture: GOOD
% Cloud Cover: 15
Next Moisture Occurred On: 6/7/2016

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY
Height, Unit: 4 IN

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: ZEAMX W
Height, Unit: 6 IN
Pest 2 Code, Type, Scale: SETFA W
Height, Unit: 3 IN
Pest 3 Code, Type, Scale: AMACH W
Height, Unit: 3 IN

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation 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
Mix Size, Unit: 3 liters
Propellant: CO2

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SOYBEAN POSTEMERGENCE

Trial ID: S16038 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-B7-26 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed common	lambsqu>	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	6/10/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	3 WEEK	3 WEEK	3 WEEK	3 WEEK	3 WEEK
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	80	99	80
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2	% V/V	PRE					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2	% V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					
2	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	70	99	70
	MON 10	2	% V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	COBRA	0.156	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					
3	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	70	99	70
	MON 10	2	% V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	WARRANT ULTRA	1.36	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					
4	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	85	99	85
	MON 10	2	% V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	COBRA	0.156	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2	% V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					

Could not calculate LSD (% mean diff) for columns 1,2,4,5,6,7,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed common	lambsqu>	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	6/10/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	3 WEEK	3 WEEK	3 WEEK	3 WEEK	3 WEEK
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
5	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	81	99	80
	WARRANT	1.125	LB AI/A	PRE					
	WARRANT	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
6	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	80	99	80
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2 %	V/V	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
7	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	88	99	85
	WARRANT	1.125	LB AI/A	PRE					
	FIRSTRATE	0.00032	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
8	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	70	99	80
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2 %	V/V	PRE					
	WARRANT ULTRA	1.36	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed common	lambsq>	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	6/10/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	3 WEEK	3 WEEK	3 WEEK	3 WEEK	3 WEEK
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
9	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	80	99	85
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
10	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	88	99	88
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
	LSD P=.05						1.1		
	Standard Deviation				0.0	0.0	0.8	0.0	0.0
	CV				0.0	0.0	1.0	0.0	0.0
	Replicate F				0.000	0.000	1.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	0.4079	1.0000	1.0000
	Treatment F				0.000	0.000	318.973	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	46 15	46 15	46 15	46 15	46 15
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
1	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	80	99	80
	WARRANT	1.125 LB	AI/A	PRE					
	MON 10	2 %	V/V	PRE					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
2	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	70	99	70
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125 LB	AI/A	PRE					
	COBRA	0.156 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
3	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	70	99	70
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125 LB	AI/A	PRE					
	WARRANT ULTRA	1.36 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
4	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	85	99	85
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125 LB	AI/A	PRE					
	COBRA	0.156 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	46 15	46 15	46 15	46 15	46 15
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
5	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	81	99	80
	WARRANT	1.125	LB AI/A	PRE					
	WARRANT	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					
6	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	80	99	80
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2	% V/V	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					
7	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	88	99	85
	WARRANT	1.125	LB AI/A	PRE					
	FIRSTRATE	0.00032	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					
8	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	70	99	80
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2	% V/V	PRE					
	WARRANT ULTRA	1.36	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2	% V/V	+3"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	46 15	46 15	46 15	46 15	46 15
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
9	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	80	99	85
	WARRANT	1.125	LB AI/A	PRE					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP ROUNDUP POWERMAX MON 10	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
10	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	88	99	88
	WARRANT	1.125	LB AI/A	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP ROUNDUP POWERMAX MON 10	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
	LSD P=.05						1.1		
	Standard Deviation				0.0	0.0	0.8	0.0	0.0
	CV				0.0	0.0	1.0	0.0	0.0
	Replicate F				0.000	0.000	1.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	0.4079	1.0000	1.0000
	Treatment F				0.000	0.000	318.973	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	7/19/2016	7/19/2016	7/19/2016	7/19/2016	7/19/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	60 29	60 29	60 29	60 29	60 29
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
1	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	99	99	95
	WARRANT	1.125 LB	AI/A	PRE					
	MON 10	2 %	V/V	PRE					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
2	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	70	99	70
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125 LB	AI/A	PRE					
	COBRA	0.156 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
3	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	70	99	70
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125 LB	AI/A	PRE					
	WARRANT ULTRA	1.36 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
4	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	PRE	0	99	99	99	99
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125 LB	AI/A	PRE					
	COBRA	0.156 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13 LB	AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5 LB	AE/A	+3"W					
	ROUNDUP POWERMAX	1.13 LB	AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	7/19/2016	7/19/2016	7/19/2016	7/19/2016	7/19/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	60 29	60 29	60 29	60 29	60 29
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
5	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	99	99	99
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	WARRANT	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
6	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	99	99	99
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2 %	V/V	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
7	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	99	99	99
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	FIRSTRATE	0.00032	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
8	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0	99	99	99	99
	WARRANT	1.125	LB AI/A	PRE					
	MON 10	2 %	V/V	PRE					
	WARRANT ULTRA	1.36	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	7/19/2016	7/19/2016	7/19/2016	7/19/2016	7/19/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	60 29	60 29	60 29	60 29	60 29
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
9	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	99	99	99
	WARRANT	1.125	LB AI/A	PRE					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP ROUNDUP POWERMAX MON 10	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
10	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	PRE	0	99	99	99	99
	WARRANT	1.125	LB AI/A	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP MON 10	0.5	LB AE/A	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP ROUNDUP POWERMAX MON 10	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
	LSD P=.05				.	.	.	.	.
	Standard Deviation				0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0
	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

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	8/16/2016	8/16/2016	8/16/2016	8/16/2016	8/16/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	88 27	88 27	88 27	88 27	88 27
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	16	17	18	19	20
1	XTENDIMAX WITH VAPORGRIP WARRANT	0.5 LB AE/A	PRE		0.0	99.0	99.0	99.0	95.0
	MON 10	1.125 LB AI/A	PRE						
		2 % V/V	PRE						
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	V3						
	MON 10	2 % V/V	V3						
	ROUNDUP POWERMAX	1.13 LB AE/A	V3						
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W						
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W						
	MON 10	2 % V/V	+3"W						
2	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		0.0	99.0	70.0	99.0	70.0
	MON 10	2 % V/V	PRE						
	WARRANT	1.125 LB AI/A	PRE						
	COBRA	0.156 LB AE/A	V3						
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W						
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W						
	MON 10	2 % V/V	+3"W						
3	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		0.0	99.0	70.0	99.0	70.0
	MON 10	2 % V/V	PRE						
	WARRANT	1.125 LB AI/A	PRE						
	WARRANT ULTRA	1.36 LB AE/A	V3						
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W						
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W						
	MON 10	2 % V/V	+3"W						
4	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		0.0	99.0	99.0	99.0	99.0
	MON 10	2 % V/V	PRE						
	WARRANT	1.125 LB AI/A	PRE						
	COBRA	0.156 LB AE/A	V3						
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	V3						
	MON 10	2 % V/V	V3						
	ROUNDUP POWERMAX	1.13 LB AE/A	V3						
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W						
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W						
	MON 10	2 % V/V	+3"W						

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail Giant ragweed common lambsqu> Morning glory			
Crop Code	GLXMA			
Crop Name	Soybean			
Rating Date	8/16/2016	8/16/2016	8/16/2016	8/16/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	88 27	88 27	88 27	88 27
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	16	17	18	19	20
5	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0.0	99.0	99.0	99.0	99.0
	MON 10		2 % V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	WARRANT	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10		2 % V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10		2 % V/V	+3"W					
6	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0.0	99.0	99.0	99.0	99.0
	WARRANT	1.125	LB AI/A	PRE					
	MON 10		2 % V/V	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10		2 % V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10		2 % V/V	+3"W					
7	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0.0	99.0	99.0	99.0	99.0
	MON 10		2 % V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	FIRSTRATE	0.00032	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10		2 % V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10		2 % V/V	+3"W					
8	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0.0	99.0	99.0	99.0	99.0
	WARRANT	1.125	LB AI/A	PRE					
	MON 10		2 % V/V	PRE					
	WARRANT ULTRA	1.36	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10		2 % V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10		2 % V/V	+3"W					

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	IPOSS
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Morning glory
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	8/16/2016	8/16/2016	8/16/2016	8/16/2016	8/16/2016
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	88 27	88 27	88 27	88 27	88 27
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	16	17	18	19	20
9	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0.0	99.0	99.0	99.0	99.0
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
10	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	0.0	99.0	99.0	99.0	99.0
	MON 10	2 %	V/V	PRE					
	WARRANT	1.125	LB AI/A	PRE					
	SELECTMAX	0.0455	LB AE/A	V3					
	COBRA	0.156	LB AE/A	V3					
	WARRANT	1.125	LB AI/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3					
	MON 10	2 %	V/V	V3					
	ROUNDUP POWERMAX	1.13	LB AE/A	V3					
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W					
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W					
	MON 10	2 %	V/V	+3"W					
LSD P=.05					.	.	.	.	.
Standard Deviation					0.00	0.00	0.00	0.00	0.00
CV					0.0	0.0	0.0	0.0	0.0
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

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Pest Type
 Pest Code
 Pest Name
 Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10/7/2016
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic. 140 79
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Unit	Growth Stage	24
1	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		57
	WARRANT	1.125 LB AI/A	PRE		
	MON 10	2 % V/V	PRE		
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	V3		
	MON 10	2 % V/V	V3		
	ROUNDUP POWERMAX	1.13 LB AE/A	V3		
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W		
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W		
	MON 10	2 % V/V	+3"W		
2	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		55
	MON 10	2 % V/V	PRE		
	WARRANT	1.125 LB AI/A	PRE		
	COBRA	0.156 LB AE/A	V3		
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W		
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W		
	MON 10	2 % V/V	+3"W		
3	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		50
	MON 10	2 % V/V	PRE		
	WARRANT	1.125 LB AI/A	PRE		
	WARRANT ULTRA	1.36 LB AE/A	V3		
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W		
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W		
	MON 10	2 % V/V	+3"W		
4	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	PRE		56
	MON 10	2 % V/V	PRE		
	WARRANT	1.125 LB AI/A	PRE		
	COBRA	0.156 LB AE/A	V3		
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	V3		
	MON 10	2 % V/V	V3		
	ROUNDUP POWERMAX	1.13 LB AE/A	V3		
	XTENDIMAX WITH VAPORGRIP	0.5 LB AE/A	+3"W		
	ROUNDUP POWERMAX	1.13 LB AE/A	+3"W		
	MON 10	2 % V/V	+3"W		

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Pest Type
 Pest Code
 Pest Name
 Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10/7/2016
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic. 140 79
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Unit	Growth Stage	24
5	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	59
	MON 10	2 %	V/V	PRE	
	WARRANT	1.125	LB AI/A	PRE	
	WARRANT	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3	
	MON 10	2 %	V/V	V3	
	ROUNDUP POWERMAX	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W	
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W	
	MON 10	2 %	V/V	+3"W	
6	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	58
	WARRANT	1.125	LB AI/A	PRE	
	MON 10	2 %	V/V	PRE	
	SELECTMAX	0.0455	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3	
	MON 10	2 %	V/V	V3	
	ROUNDUP POWERMAX	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W	
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W	
	MON 10	2 %	V/V	+3"W	
7	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	59
	MON 10	2 %	V/V	PRE	
	WARRANT	1.125	LB AI/A	PRE	
	FIRSTRATE	0.00032	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3	
	MON 10	2 %	V/V	V3	
	ROUNDUP POWERMAX	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W	
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W	
	MON 10	2 %	V/V	+3"W	
8	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	58
	WARRANT	1.125	LB AI/A	PRE	
	MON 10	2 %	V/V	PRE	
	WARRANT ULTRA	1.36	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3	
	MON 10	2 %	V/V	V3	
	ROUNDUP POWERMAX	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W	
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W	
	MON 10	2 %	V/V	+3"W	

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Pest Type
 Pest Code
 Pest Name
 Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10/7/2016
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic. 140 79
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Unit	Growth Stage	24
9	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	57
	MON 10		2 % V/V	PRE	
	WARRANT	1.125	LB AI/A	PRE	
	COBRA	0.156	LB AE/A	V3	
	WARRANT	1.125	LB AI/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3	
	MON 10		2 % V/V	V3	
	ROUNDUP POWERMAX	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W	
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W	
10	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	PRE	53
	MON 10		2 % V/V	PRE	
	WARRANT	1.125	LB AI/A	PRE	
	SELECTMAX	0.0455	LB AE/A	V3	
	COBRA	0.156	LB AE/A	V3	
	WARRANT	1.125	LB AI/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	V3	
	MON 10		2 % V/V	V3	
	ROUNDUP POWERMAX	1.13	LB AE/A	V3	
	XTENDIMAX WITH VAPORGRIP	0.5	LB AE/A	+3"W	
	ROUNDUP POWERMAX	1.13	LB AE/A	+3"W	
	MON 10		2 % V/V	+3"W	
	LSD P=.05				5.5
	Standard Deviation				3.8
	CV				6.71
	Replicate F				9.640
	Replicate Prob(F)				0.0002
	Treatment F				2.459
	Treatment Prob(F)				0.0341

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SOYBEAN POSTEMERGENCE

Trial ID: S16038 Location: LEXINGTON, KY Trial Year: 2016
Protocol ID: MON-B7-26 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: DAN CHILDS

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

BU = bushel

ARM Action Codes

TY1 = $5.584615 * [C22] * (100 - [C23]) / 86.5$

University of Kentucky

SOYBEAN POSTEMERGENCE

Trial ID: S16038 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: MON-B7-26 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/19/2016
Completion Date: 10/7/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG 40X6

Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 5/19/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/24/2016
Harvest Date: 10/7/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 26 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

Soil Temperature, Unit: 60 F
Soil Moisture: WET wet
Seed Bed: SMOOTH smooth

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

Treated Plot Width: 10 FT **Site Type:** FUIELD
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT² **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

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Application Description

	A	B	C
Application Date:	5/20/2016	6/20/2016	7/20/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V3	+3W
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	88 F	85 F
% Relative Humidity:	75	50	60
Wind Velocity, Unit:	4 MPH	8 MPH	6 MPH
Wind Direction:	WSW	SW	SE
Soil Temperature, Unit:	60 F	74 F	78 F
Soil Moisture:	WET	GOOD	GOOD
% Cloud Cover:	30	10	30
Next Moisture Occurred On:	5/20/2016	6/21/2016	7/20/2016

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:	8 IN	24 IN	

Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	TTI 02	TTI 02	TTI 02
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	12 GPA	12 GPA	12 GPA
Mix Size, Unit:	2 liters	2 liters	2 liters
Propellant:	CO2	CO2	CO2

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SOYBEAN POSTEMERGENCE II

Trial ID: S16039 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SBRR2X Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	CHEAL	IPOSS			
Pest Name		Giant foxtail	Giant ragweed	common lambsqu>	Morning glory			
Crop Code	GLXMA				GLXMA			
Crop Name	Soybean				Soybean			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	3 WEEK	3 WEEK	3 WEEK	3 WEEK	3 WEEK			
Trt-Eval Interval	BEORE POST	BEORE POST	BEORE POST	BEORE POST	BEORE POST AFTER POST			
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
1 UNTREATED CHECK			0	0	0	0	0	0
2 ROUNDUP POWERMAX	32 FL OZ/A	28DAP	0	97	70	90	80	0
CLARITY	1 PT/A	28DAP						
NIS	0.25 % V/V	28DAP						
3 FIERCE	3 OZ WT/A	PRE	0	99	90	99	99	0
ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
CLARITY	1 PT/A	28DAP						
NIS	0.25 % V/V	28DAP						
4 AUTHORITY ELITE	24 OZ/A	PRE	0	99	80	99	90	0
ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
CLARITY	1 PT/A	28DAP						
NIS	0.25 % V/V	28DAP						
5 BOUNDARY	1.5 PT/A	PRE	0	99	70	90	70	0
ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
CLARITY	1 PT/A	28DAP						
NIS	0.25 % V/V	28DAP						
6 FIERCE XLT	4 OZ WT/A	PRE	0	99	99	99	99	0
ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
CLARITY	1 PT/A	28DAP						
NIS	0.25 % V/V	28DAP						
7 ROWEL	2 OZ WT/A	PRE	0	99	85	99	95	0
WARRANT	2 QT/A	PRE						
ROUNDUP POWERMAX	32 FL OZ/A	28DAP						
CLARITY	1 PT/A	28DAP						
NIS	0.25 % V/V	28DAP						
LSD P=.05			.	2.5	.	.	.	.
Standard Deviation			0.0	1.7	0.0	0.0	0.0	0.0
CV			0.0	2.01	0.0	0.0	0.0	0.0
Replicate F			0.000	1.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	0.4155	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	1922.334	0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	0.0001	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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Trt No.	Treatment Name	Rate	Growth Stage	19	20	24
1	UNTREATED CHECK			0	0	13
2	ROUNDUP POWERMAX	32 FL OZ/A	28DAP	99	99	52
	CLARITY	1 PT/A	28DAP			
	NIS	0.25 % V/V	28DAP			
3	FIERCE	3 OZ WT/A	PRE	99	99	52
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP			
	CLARITY	1 PT/A	28DAP			
	NIS	0.25 % V/V	28DAP			
4	AUTHORITY ELITE	24 OZ/A	PRE	99	99	54
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP			
	CLARITY	1 PT/A	28DAP			
	NIS	0.25 % V/V	28DAP			
5	BOUNDARY	1.5 PT/A	PRE	99	99	53
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP			
	CLARITY	1 PT/A	28DAP			
	NIS	0.25 % V/V	28DAP			
6	FIERCE XLT	4 OZ WT/A	PRE	99	99	52
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP			
	CLARITY	1 PT/A	28DAP			
	NIS	0.25 % V/V	28DAP			
7	ROWEL	2 OZ WT/A	PRE	99	99	52
	WARRANT	2 QT/A	PRE			
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP			
	CLARITY	1 PT/A	28DAP			
	NIS	0.25 % V/V	28DAP			
	LSD P=.05			.	.	7.4
	Standard Deviation			0.0	0.0	5.0
	CV			0.0	0.0	10.54
	Replicate F			0.000	0.000	5.899
	Replicate Prob(F)			1.0000	1.0000	0.0055
	Treatment F			0.000	0.000	36.079
	Treatment Prob(F)			1.0000	1.0000	0.0001

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SOYBEAN POSTEMERGENCE II

Trial ID: S16039	Location: LEXINGTON, KY	Trial Year: 2016
Protocol ID: VAL-SBRR2X	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: JOHN CRANMER	

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

BU = bushel

ARM Action Codes

$TY1 = 5.808 * [C22] * (100 - [C23]) / 86.5$

University of Kentucky

SOYBEAN POSTEMERGENCE II

Trial ID: S16039 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: VAL-SBRR2X Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/16/2016
Completion Date: 10/7/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG47X6

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN

Planting Date: 5/16/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/20/2016
Harvest Date: 10/7/2016

Soil Temperature, Unit: 60 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.5

Pest Description

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

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

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

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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT² **Treatments:** 7
Replications: 4

Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

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Application Description

	A	B
Application Date:	5/16/2016	6/8/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	28DAP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	55 F	70 F
% Relative Humidity:	50	37
Wind Velocity, Unit:	6 MPH	6 MPH
Wind Direction:	SW	SE
Soil Temperature, Unit:	60 F	72 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	80	10
Next Moisture Occurred On:	5/17/2016	6/14/2016

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	5	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:	CHEAL W	CHEAL W
Height, Unit:	2	IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1.5	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation 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:	20 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

University of Kentucky

NON CROP

Trial ID: S16040 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: USA-16-133 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

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 Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail			
Rating Date	5/31/2016	5/31/2016	5/31/2016	6/14/2016	6/14/2016	6/14/2016	7/12/2016			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK			
Days After First/Last Applic.	15 15	15 15	15 15	29 29	29 29	29 29	57 12			
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6	7
1	TRIVENCE		PRE	99	99	99	99	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	DICAMBA	8 OZ A/A	MP							
2	TRIVENCE		PRE	99	99	99	99	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
	DICAMBA	8 OZ/A	MP							
3	ENVIVE		PRE	99	99	99	99	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	DICAMBA	8 OZ/A	MP							
4	ENVIVE		PRE	99	99	99	99	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
	DICAMBA	8 OZ A/A	MP							
5	ENVIVE		PRE	99	99	99	99	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	PREFIX	2 PT/A	MP							
6	CANOPY BLEND	6 OZ/A	PRE	99	99	99	99	99	99	99
	CINCH	1 PT/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	DICAMBA	8 OZ/A	MP							
7	CANOPY BLEND	6 OZ/A	PRE	99	99	99	99	99	99	99
	CINCH	1 PT/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
	DICAMBA	8 OZ A/A	MP							
8	UNTREATED CHECK			0	0	0	0	0	0	0
LSD P=.05				.	.	.	.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS			
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory			
Rating Date	7/12/2016	7/12/2016	8/1/2016	8/1/2016	8/1/2016			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	8 WEEK	8 WEEK	4WK AFTER B	4WK AFTER B	4WK AFTER B			
Days After First/Last Applic.	57 12	57 12	77 32	77 32	77 32			
Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12
		Rate Unit						
1	TRIVENCE		PRE	99	99	82.5	87.5	87.5
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	DICAMBA	8 OZ A/A	MP					
2	TRIVENCE		PRE	99	99	98.8	93.8	93.8
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	CINCH	1 PT/A	MP					
	DICAMBA	8 OZ/A	MP					
3	ENVIVE		PRE	99	99	85.0	91.3	91.3
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	DICAMBA	8 OZ/A	MP					
4	ENVIVE		PRE	99	99	98.0	93.8	93.8
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	CINCH	1 PT/A	MP					
	DICAMBA	8 OZ A/A	MP					
5	ENVIVE		PRE	99	99	98.0	80.0	83.8
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	2 PT/A	MP					
6	CANOPY BLEND	6 OZ/A	PRE	99	99	87.5	87.5	87.5
	CINCH	1 PT/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	DICAMBA	8 OZ/A	MP					
7	CANOPY BLEND	6 OZ/A	PRE	99	99	99.3	95.8	95.8
	CINCH	1 PT/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	CINCH	1 PT/A	MP					
	DICAMBA	8 OZ A/A	MP					
8	UNTREATED CHECK			0	0	0.0	0.0	0.0
	LSD P=.05			.	.	5.55	4.61	5.27
	Standard Deviation			0.0	0.0	3.77	3.13	3.58
	CV			0.0	0.0	4.65	3.98	4.53
	Replicate F			0.000	0.000	4.123	0.225	0.314
	Replicate Prob(F)			1.0000	1.0000	0.0191	0.8781	0.8151
	Treatment F			0.000	0.000	314.687	421.648	323.684
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	0.0001

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NON CROP

Trial ID: S16040 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: USA-16-133 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/16/2016 **Planned Completion Date:** 9/1/2016
Completion Date: 9/8/2016

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Organization: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0747
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-227-3355
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Other Contacts

Name	Role	Other
SARA LAWSON	RESEARCH ANALYST	sara.lawson@uky.edu

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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

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT² **Treatments:** 8 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5/16/2016	6/30/2016
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	SARA LAWSON
Air Temperature, Unit:	55 F	78 F
% Relative Humidity:	60	55
Wind Velocity, Unit:	5 MPH	6 MPH
Wind Direction:	WSW	SW
Soil Temperature, Unit:	61 F	73 F
Soil Moisture:	WET	GOOD
% Cloud Cover:	10	20
Next Moisture Occurred On:	5/17/2016	7/1/2016

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Pest Stage At Each Application

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

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Equipment Type:	ALTEVE	BELSPR
Operation 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
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

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SOYBEAN VARIETIES

Trial ID: S16041 Location: LEXINGTON, KY Trial Year: 2016
 Protocol ID: SYN-SB-VAR Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10/10/2016
 Rating Type YIELD
 Rating Unit BU
 Days After First/Last Applic. 139 63

Trt No.	Treatment Name	Rate	Growth Unit	Stage	3
1	BOUNDARY	1.5 PT/A	PRE		33
	FLEXSTAR GT	3.5 PT/A	MP		
	S35-C3				
2	BOUNDARY	1.5 PT/A	PRE		30
	FLEXSTAR GT	3.5 PT/A	MP		
	S39-C4				
3	BOUNDARY	1.5 PT/A	PRE		35
	FLEXSTAR GT	3.5 PT/A	MP		
	S39-T3				
4	BOUNDARY	1.5 PT/A	PRE		38
	FLEXSTAR GT	3.5 PT/A	MP		
	S42-P6				
5	BOUNDARY	1.5 PT/A	PRE		39
	FLEXSTAR GT	3.5 PT/A	MP		
	S45-R7				
6	BOUNDARY	1.5 PT/A	PRE		39
	FLEXSTAR GT	3.5 PT/A	MP		
	S45-W9				
7	BOUNDARY	1.5 PT/A	PRE		39
	FLEXSTAR GT	3.5 PT/A	MP		
	S47-K5				
8	BOUNDARY	1.5 PT/A	PRE		35
	FLEXSTAR GT	3.5 PT/A	MP		
	S47-C8				
9	BOUNDARY	1.5 PT/A	PRE		39
	FLEXSTAR GT	3.5 PT/A	MP		
	S48-P4				
10	BOUNDARY	1.5 PT/A	PRE		39
	FLEXSTAR GT	3.5 PT/A	MP		
	S48-D9				
11	BOUNDARY	1.5 PT/A	PRE		42
	FLEXSTAR GT	3.5 PT/A	MP		
	S49-B1				
12	BOUNDARY	1.5 PT/A	PRE		37
	FLEXSTAR GT	3.5 PT/A	MP		
	S52-Y2				
13	BOUNDARY	1.5 PT/A	PRE		41
	FLEXSTAR GT	3.5 PT/A	MP		
	AG4632				

Could not calculate LSD (% mean diff) for columns 3 because error mean square = 0.

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Crop Code	GLXMA
Crop Name	Soybean
Rating Date	10/10/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	139 63

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
					3
14	BOUNDARY	1.5	PT/A	PRE	44
	FLEXSTAR GT	3.5	PT/A	MP	
	P47T36				
15	BOUNDARY	1.5	PT/A	PRE	48
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S35-C3				
16	BOUNDARY	1.5	PT/A	PRE	47
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S39-C4				
17	BOUNDARY	1.5	PT/A	PRE	51
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S39-T3				
18	BOUNDARY	1.5	PT/A	PRE	47
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S42-P6				
19	BOUNDARY	1.5	PT/A	PRE	49
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S45-R7				
20	BOUNDARY	1.5	PT/A	PRE	35
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S45-W9				
21	BOUNDARY	1.5	PT/A	PRE	47
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S47-K5				
22	BOUNDARY	1.5	PT/A	PRE	47
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S47-C8				
23	BOUNDARY	1.5	PT/A	PRE	41
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP SBX	8	OZ/A	R3	
	ENDIGO	4	OZ/A	R3	
	S48-P4				

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Crop Code	GLXMA
Crop Name	Soybean
Rating Date	10/10/2016
Rating Type	YIELD
Rating Unit	BU
Days After First/Last Applic.	139 63

Trt	Treatment	Rate	Growth	
No.	Name	Unit	Stage	
				3
24	BOUNDARY	1.5 PT/A	PRE	37
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP SBX	8 OZ/A	R3	
	ENDIGO	4 OZ/A	R3	
	S48-D9			
25	BOUNDARY	1.5 PT/A	PRE	45
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP SBX	8 OZ/A	R3	
	ENDIGO	4 OZ/A	R3	
	S49-B1			
26	BOUNDARY	1.5 PT/A	PRE	35
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP SBX	8 OZ/A	R3	
	ENDIGO	4 OZ/A	R3	
	S52-Y2			
27	BOUNDARY	1.5 PT/A	PRE	45
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP SBX	8 OZ/A	R3	
	ENDIGO	4 OZ/A	R3	
	AG4632			
28	BOUNDARY	1.5 PT/A	PRE	47
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP SBX	8 OZ/A	R3	
	ENDIGO	4 OZ/A	R3	
	P47T36			
	LSD P=.05			.
	Standard Deviation			.
	CV			.

Crop Code
GLXMA, BSOY, Glycine max, = US

Rating Type
YIELD = yield

Rating Unit
BU = bushel

ARM Action Codes
 $TY1 = 0.968*[1]*(100-[2])/87$

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: see treatment list

Planting Rate, Unit: 150000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Planting Date: 5/23/2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5/29/2016
Harvest Date: 10/10/2016
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 150 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.0

Soil Temperature, Unit: 63 F
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 150 FT
Treated Plot Area: 1500 FT² **Treatments:** 28
Replications: 1
Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 18 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: DRWEWE dry-wet-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 3 MI

Application Description

	A	B	C
Application Date:	5/24/2016	6/20/2016	8/8/2016
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	R3
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA
Air Temperature, Unit:	64 F	76 F	76 F
% Relative Humidity:	70	80	75
Wind Velocity, Unit:	5 MPH	6 MPH	4 MPH
Wind Direction:	SW	SE	WSW
Soil Temperature, Unit:	64 F	76 F	76 F
Soil Moisture:	GOOD	FAIR	GOOD
% Cloud Cover:	20	10	5
Next Moisture Occurred On:	5/27/2016	6/21/2016	8/9/2016

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Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Height, Unit:		16	IN		50	IN

Application Equipment

	A		B		C	
Appl. Equipment:	ATV		ATV		BACKPACK	
Equipment Type:	ALTEVE		ALTEVE		BELSPR	
Operation 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
Mix Size, Unit:	3.128	liters	3.128	liters	3.128	liters
Propellant:	CO2		CO2		CO2	

Date	By	Notes
8/15/2016	SARA	SPRAYED 120, 124 AND 126 ON 8/15/16