



2017 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		
A21472C		SYNGENTA
A22102C		SYNGENTA
AG13063		WINFIELD
AG16098		WINFIELD
AGH15003		WINFIELD
AATREX	ATRAZINE	SYNGENTA
ABUNDIT EDGE	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 MAXX	PYROXASULFON + FLUTHIACET-METHYL	FMC
ARMEZON	TOPRAMEZONE	BASF
ARMEZON PRO	TOPRAMEZONE + DIMETHANIMID-P	BASF
AUTHORITY ELITE	SULFENTRAZONE + S-METOLACHLOR	FMC
AUTHORITY MAXX	SULFENTRAZONE + CHLORIMURON-ETHYL	FMC
AUTHORITY MTZ	SULFENTRAZONE + METRIBUZIN	FMC
AUTHORITY XL	SULFENTRAZONE	FMC
BALANCE BEAN	ISOXAFLUTOLE	BAYER
BOUNDARY	S-METOLACHLOR + METRIBUZIN	SYNGENTA
BROADAXE XC	SULFENTRAZONE + S-METOLACHLOR	SYNGENTA
CALLISTO	MESOTRIONE	SYNGENTA
CANOPY	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
CLASS ACT RIDION	WATER CONDITIONER + SURFACTANT	WINFIELD
CLASSIC	CHLORIMURON ETHYL	DUPONT
COBRA	LACTOFEN	VALENT
COMBO 710		DUPONT
COMBO 776		DUPONT
CORNERSTONE 5 PLUS	GLYPHOSATE	WINFIELD
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>
CRUSHER	RIMSULFURON + THIFENSULFURON-METHYL	FMC
DEGREE XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
DICAMBA DGA	DICAMBA	
DIFLEXX	DICAMBA	BAYER
DIFLEXX DUO	DICAMBA + TEMBOTRIONE	BAYER
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
F9314-3		FMC
FEXAPAN	DICAMBA	DUPONT
FIERCE	FLUMIOXAZIN + PYROXASULFONE	VALENT
FIERCE MTZ	FLUMIOXAZIN + PYROXASULFONE + METRIBUZIN	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	ACETOCHLOR	MONSANTO
HARNESS XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
HARNESS MAX	ACETOCHLOR + MESOTRIONE	MONSANTO
HEADLINE	PYRACLOSTROBIN	BASF
ICONIC	ADJUVANT	UNITED SUPPLIERS INC
IMPACT	TOPRAMEZONE	AMVAC
IMPACTZ	TOPRAMEZONE + ATRAZINE	AMVAC
INDUCE	NONIONIC SURFACTANT	HELENA
INTACT	DRIFT CONTROL + DEPOSITION AID	PRECISION LABS
INTERLINE	GLUFOSINATE	UNITED PHOSPHORUS INC
INTERLOCK	MODIFIED VEGETABLE OIL	WINFIELD
INSTIGATE	RIMSULFURON + MESOTRIONE	DUPONT
KFD-195-02		UNITED PHOSPHORUS INC
KFD-240-01		UNITED PHOSPHORUS INC
KFD-274-01		UNITED PHOSPHORUS INC
LEADOFF	RIMSULFURON + THIFENSULFURON	DUPONT
LIBERTY 280	GLUFOSINATE AMMONIUM	BAYER
METRICOR	METRIBUZIN	UNITED PHOSPHORUS INC
MIRAVIS TOP	ADEPIDYN	SYNGENTA

HERBICIDES IN REPORT (CONTINUED)

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
MSO	METHYLATED SEED OIL	LOVELAND
NIS	NON-IONIC SURFACTANT	
NPAK AMS LIQUID	AMMONIUM SULFATE	WINFIELD
OUTLOOK	DIMETHENAMID-P	BASF
PREFERENCE	SURFACTANT	WINFIELD
PRESIDUAL	S-METOLACHLOR + METRIBUZIN	WINFIELD
PREFIX	S-METOLACHLOR + BENOXACOR	SYNGENTA
PRINCEP	SIMAZINE	SYNGENTA
PURSUIT	IMAZETHAPYR	BASF
REALM Q	RIMSULFURON + MESOTRIONE + SAFENER	DUPONT
RESICORE	ACETOCHLOR + CLOPYRALID + MESOTRIONE	DOW AGROSCIENCE
RESOLVE Q	RIMSULFURON + SAFENER	DUPONT
ROUNDUP POWERMAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP WEATHERMAX	GLYPHOSATE	MONSANTO
ROWEL	FLUMIOXAZIN	MONSANTO
RUGGED	2,4-D	WINFIELD
SCEPTER	IMAZAQUIN	BASF
SELECT MAX	CLETHODIM	VALENT
SENCOR	METRIBUZIN	BAYER
SEQUENCE	GLYPHOSATE + S-METOLACHLOR	SYNGENTA
SHARPEN	SAFLUFENACIL	BASF
SHREDDER	2,4-D	WINFIELD
SOLSTICE	MESOTRIONE + FLUTHIACET-METHYL	FMC
SONIC	SULFENTRAZONE + CLORANSULAM-METHYL	DOW AGROSCIENCE
SPARTAN	SULFENTRAZONE	FMC
STATUS	DIFLUFENZOPYR + DICAMBA	BASF
STINGER	CLOPYRALID	DOW AGROSCIENCE
SUPERB HC	OIL SURFACTANT	WINFIELD
SURESTART II	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SURVEIL	FLUMIOXAZIN + CLORANSULAM-METHLY	DOW AGROSCIENCE
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	
VALOR EZ	FLUMIOXAZIN	VALENT
VALOR SX	FLUMIOXAZIN	VALENT
VALOR XLT	FLUMIOXAZIN + CHLORIMURON	VALENT
VERDICT	SAFLUFENACIL + DIMETHENAMID-P	BASF

HERBICIDES IN REPORT (CONTINUED)

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
WARRANT	ACETOCHOLOR	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

-14D	14 DAYS BEFORE PLANTING
BURNDOWN	BURNDOWN PRIOR TO PLANTING/TERMINATION OF COVER
PRE	PREEMERGENCE
INFURROW	IN FURROW

POSTEMERGENCE

EP	EARLY POSTEMERGENCE, WEEDS 0-2"
+EP	EARLY POSTEMERGENCE FOLLOWING A PREEMERGENT
MP	MID-POSTEMERGENCE, WEEDS 2-4"
+MP	MID-POSTEMERGENCE FOLLOWING A PREEMERGENT
LP	LATE POSTEMERGENCE, WEEDS 4-6"
V2	SECOND TRIFOLIATE (SOYBEAN), 2 COLLAR CORN
V3	THIRD TRIFOLIATE(SOYBEAN), 3 COLLAR CORN
V4	FOURTH TRIFOLIATE(SOYBEAN), 4 COLLAR CORN
12C	12 INCH CORN
V5	5 UNFOLDED TRIFOLIATES(SOYBEAN), 5 COLLARS(CORN)
21DAP	21 DAYS AFTER PLANTING
28DAP	28 DAYS AFTER PLANTING
+MP/R1	MID-POST FOLLOWING A PREEMERGENT OR BEGINNING BLOOM (SOYBEAN)
R3	BEGINNING POD ON SOYBEAN
IFN	IF NEEDED

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>
LACSE	Prickly Lettuce	<i>Lactuca serriola</i>
SETFA	Giant Foxtail	<i>Setaria faberi</i>
STEME	Common chickweed	<i>Stellaria media</i>
TAROF	Common dandelion	<i>Taraxacum officinale</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	
04-01-2017	48	43	45		95	75	54	52	56	54	
04-02-2017	66	45	55		82	47	55	51	56	53	
04-03-2017	69	54	61	0.18	93	58	55	53	56	55	
04-04-2017	69	54	61	0.01	90	50	57	55	58	56	
04-05-2017	79	48	63	0.82	95	42	58	54	58	56	
04-06-2017	54	43	48	0.31	96	62	57	52	58	54	
04-07-2017	55	36	45		77	33	53	50	54	53	
04-08-2017	64	34	49		64	24	54	49	53	50	
04-09-2017	76	44	60		56	23	55	50	54	51	
04-10-2017	79	60	69		49	29	58	53	56	54	
04-11-2017	70	56	63	0.40	96	47	58	55	57	56	
04-12-2017	70	49	59		96	38	61	55	58	56	
04-13-2017	79	47	63		79	26	62	56	58	56	
04-14-2017	84	55	69		61	29	64	57	58	56	
04-15-2017	81	64	72		61	38	64	60	60	58	
04-16-2017	77	61	69	1.24	96	52	63	61	61	59	
04-17-2017	75	60	67	0.08	97	40	65	61	61	60	
04-18-2017	74	58	66		91	52	64	61	61	60	
04-19-2017	80	62	71		93	55	66	62	63	61	
04-20-2017	81	66	73		81	45	67	63	64	62	
04-21-2017	70	54	62	0.06	90	49	67	64	63	63	
04-22-2017	52	44	48	0.45	96	74	65	59	62	59	
04-23-2017	57	43	50		85	71	59	57	59	57	
04-24-2017	70	55	62		88	60	61	57	60	57	
04-25-2017	76	51	63		96	54	64	59	61	59	
04-26-2017	81	56	68		93	34	66	60	62	59	
04-27-2017	72	50	61		86	57	67	63	63	62	
04-28-2017	80	46	63		96	49	64	60	63	60	
04-29-2017	85	64	74	0.44	94	60	68	63	67	63	
04-30-2017	83	68	75	0.18	86	47	68	66	67	65	

Summary for the period 4-1-2017 through 4-30-2017:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP			TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	
	72	52	62	4.17	85	47	61	57	60	57
(Deviation from normal)	+6	+8	+7	+0.29						

MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP				RH		SOIL TEMP				
	MX	MN	AV	PRECIP	MX	MN	MX	MN	MX	MN	EVAP
05-01-2017	71	51	61	1.55	96	53	67	64	66	63	
05-02-2017	70	49	59		78	36	65	61	63	61	
05-03-2017	65	42	53		95	47	65	59	62	59	
05-04-2017	64	53	58	0.56	96	67	62	60	61	60	
05-05-2017	58	45	51	0.76	98	85	61	58	61	59	
05-06-2017	60	42	51		95	43	60	56	59	57	
05-07-2017	64	37	50		76	38	61	55	59	56	
05-08-2017	68	37	52	0.08	92	27	63	55	61	55	
05-09-2017	78	54	66	0.10	97	63	63	60	63	59	
05-10-2017	84	58	71		97	49	68	61	67	61	
05-11-2017	77	62	69	0.83	95	74	68	65	68	65	
05-12-2017	61	55	58	0.68	95	91	67	63	67	64	
05-13-2017	73	49	61		95	41	67	61	67	62	
05-14-2017	82	56	69		80	43	69	62	69	63	
05-15-2017	84	61	72		81	41	72	64	72	65	
05-16-2017	85	61	73		92	44	73	66	73	67	
05-17-2017	85	66	75		78	43	72	68	72	69	
05-18-2017	86	72	79		78	38	74	68	74	69	
05-19-2017	83	67	75	0.02	90	57	74	69	74	70	
05-20-2017	88	66	77	0.47	96	49	75	69	75	70	
05-21-2017	79	63	71	1.06	96	71	72	70	73	71	
05-22-2017	72	52	62		91	45	70	67	72	68	
05-23-2017	76	54	65	0.23	96	58	70	66	71	67	
05-24-2017	70	57	63	0.26	97	72	68	66	69	68	
05-25-2017	64	57	60	1.06	96	79	67	63	68	65	
05-26-2017	79	55	67		96	51	69	62	70	64	
05-27-2017	83	66	74	0.02	91	64	71	67	72	69	
05-28-2017	76	62	69		94	64	70	68	71	69	
05-29-2017	84	64	74		96	36	73	67	73	69	
05-30-2017	86	63	74		86	27	74	69	73	70	
05-31-2017	84	61	72	0.06	91	34	73	68	72	69	

Summary for the period 5-1-2017 through 5-31-2017:

	AIR TEMP			TOTAL	RH		SOIL TEMP				
	MX	MN	AV	PRECIP	MX	MN	MX	MN	MX	MN	EVAP
	75	56	66	7.74	91	53	68	64	68	65	
(Deviation from normal)	-0	+1	+0	+3.27							

JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
06-01-2017	83	59	71		88	31	73	68	73	69	
06-02-2017	84	53	68		86	26	73	67	72	68	
06-03-2017	87	57	72		82	27	74	67	72	68	
06-04-2017	89	57	73		88	26	74	68	73	68	
06-05-2017	81	62	71	0.73	97	67	73	70	73	71	
06-06-2017	77	59	68	0.02	98	37	73	69	71	70	
06-07-2017	69	55	62		84	57	70	67	70	68	
06-08-2017	76	51	63		94	46	69	65	68	66	
06-09-2017	81	54	67		91	37	72	65	69	65	
06-10-2017	85	60	72		82	39	73	67	70	67	
06-11-2017	88	66	77		81	38	75	69	72	68	
06-12-2017	91	73	82		78	44	76	71	73	70	
06-13-2017	92	69	80	0.08	91	49	77	72	74	72	
06-14-2017	88	69	78		93	58	76	72	74	72	
06-15-2017	84	70	77	0.23	94	63	75	73	74	72	
06-16-2017	87	68	77		96	53	76	72	75	72	
06-17-2017	90	68	79		93	47	76	72	75	72	
06-18-2017	88	71	79	2.53	96	60	75	73	75	73	
06-19-2017	82	68	75	0.09	96	46	75	72	74	73	
06-20-2017	84	62	73		81	37	76	71	74	71	
06-21-2017	89	67	78		75	42	76	72	74	71	
06-22-2017	80	70	75	0.41	97	69	74	73	74	73	
06-23-2017	84	68	76	3.15	98	62	74	72	74	72	
06-24-2017	79	63	71	0.03	98	49	75	71	74	72	
06-25-2017	79	57	68		92	34	74	70	73	70	
06-26-2017	76	56	66		79	38	73	69	71	68	
06-27-2017	76	58	67	0.09	93	37	74	69	71	68	
06-28-2017	83	54	68		85	37	75	68	71	67	
06-29-2017	86	67	76		82	54	75	70	72	69	
06-30-2017	85	69	77	0.32	93	61	76	72	74	71	

Summary for the period 6-1-2017 through 6-30-2017:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	83	63	73	7.68	89	46	74	70	73	70	
(Deviation from normal)+1	+1	+1	+1	+4.02							

JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
07-01-2017	85	69	77	0.13	96	58	77	73	74	72	
07-02-2017	86	70	78		97	48	78	77	75	73	
07-03-2017	87	67	77		92	49	77	74	75	72	
07-04-2017	77	71	74	0.45	96	79	76	74	74	74	
07-05-2017	83	70	76	0.74	96	75	76	73	75	73	
07-06-2017	81	71	76	0.51	97	77	76	74	74	74	
07-07-2017	86	68	77	0.02	98	60	78	74	76	73	
07-08-2017	84	67	75	0.73	97	46	77	74	75	73	
07-09-2017	84	60	72		97	42	77	72	74	72	
07-10-2017	87	68	77		82	51	77	73	74	72	
07-11-2017	84	74	79		80	70	76	74	75	74	
07-12-2017	91	72	81		84	54	78	74	76	74	
07-13-2017	91	78	84		84	57	79	75	77	75	
07-14-2017	86	73	79	0.01	92	59	78	76	77	76	
07-15-2017	86	67	76		94	51	79	75	76	75	
07-16-2017	87	63	75		97	43	78	74	76	73	
07-17-2017	90	64	77		96	38	78	74	76	73	
07-18-2017	92	68	80		92	43	79	74	76	74	
07-19-2017	90	72	81		91	39	79	75	77	74	
07-20-2017	-50	100	25		0	100	87	83	0100		
07-21-2017	94	77	85		88	43	80	76	78	76	
07-22-2017	94	78	86		82	50	79	77	78	77	
07-23-2017	86	72	79	0.54	93	59	78	76	78	76	
07-24-2017	88	72	80		94	48	78	75	77	75	
07-25-2017	85	65	75		92	50	78	74	76	75	
07-26-2017	90	60	75		96	48	78	73	76	73	
07-27-2017	88	73	80	1.30	94	63	77	76	77	76	
07-28-2017	83	69	76	0.06	96	61	77	76	77	76	
07-29-2017	80	63	71		92	49	75	73	76	74	
07-30-2017	83	57	70		95	45	74	71	74	71	
07-31-2017	89	63	76		95	39	75	71	75	72	

Summary for the period 7-1-2017 through 7-31-2017:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	82	70	76	4.49	90	55	78	75	73	75	
(Deviation from normal)	-4	+5	+1	-0.51							

AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
08-01-2017	86	67	76	0.07	87	47	75	72	74	73	
08-02-2017	86	66	76	0.12	93	53	75	73	74	73	
08-03-2017	88	65	76	0.01	95	46	75	72	74	72	
08-04-2017	80	59	69	0.18	91	45	74	72	74	72	
08-05-2017	80	54	67		95	36	72	68	72	69	
08-06-2017	76	59	67	1.50	97	57	70	69	71	70	
08-07-2017	74	64	69	0.22	97	80	70	69	71	70	
08-08-2017	82	61	71	0.01	98	46	72	68	72	70	
08-09-2017	84	57	70		94	37	72	68	72	69	
08-10-2017	86	66	76		94	37	73	70	74	71	
08-11-2017	86	67	76		97	48	73	70	74	72	
08-12-2017	84	68	76		96	45	74	72	74	72	
08-13-2017	85	61	73		91	39	73	70	74	71	
08-14-2017	84	68	76	0.69	96	63	73	71	74	72	
08-15-2017	88	70	79		97	54	75	72	76	73	
08-16-2017	90	69	79		97	54	76	72	76	74	
08-17-2017	92	74	83	0.24	95	50	76	74	77	75	
08-18-2017	85	71	78	0.02	96	49	76	74	76	76	
08-19-2017	89	67	78		92	44	76	72	76	74	
08-20-2017	92	68	80		92	39	76	73	76	74	
08-21-2017	93	71	82		83	34	76	73	76	74	
08-22-2017	89	70	79	1.07	97	64	76	74	76	75	
08-23-2017	80	64	72		97	39	74	72	75	74	
08-24-2017	81	57	69		92	37	72	70	73	71	
08-25-2017	80	55	67		89	41	71	68	72	70	
08-26-2017	80	54	67		89	40	70	68	72	69	
08-27-2017	84	54	69		88	42	71	67	72	69	
08-28-2017	74	63	68	1.88	97	76	70	69	71	70	
08-29-2017	82	61	71	0.64	98	58	70	68	72	70	
08-30-2017	83	61	72	0.01	98	52	71	69	73	70	
08-31-2017	86	64	75		95	47	72	69	73	71	

Summary for the period 8-1-2017 through 8-31-2017:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	84	64	74	6.66	94	48	73	71	74	72	
(Deviation from normal)	+0	+1	+1	+2.73							

SEPTEMBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
09-01-2017	70	59	64	3.09	97	80	71	67	73	69	
09-02-2017	64	57	60	0.19	98	78	67	67	69	68	
09-03-2017	79	54	66		98	61	68	66	69	67	
09-04-2017	85	67	76		87	54	70	67	72	69	
09-05-2017	74	55	64	0.28	94	57	70	68	71	70	
09-06-2017	72	50	61		96	38	68	65	69	67	
09-07-2017	71	48	59		95	45	65	63	67	65	
09-08-2017	79	51	65		86	37	65	62	67	64	
09-09-2017	75	52	63		95	42	65	63	67	65	
09-10-2017	75	50	62		83	42	71	65			
09-11-2017	72	54	63		0	100	74	70	0	100	
09-12-2017	75	58	66	0.14	93	61	68	65			
09-13-2017	64	60	62	0.47	93	87	72	71			
09-14-2017	72	61	66	0.17	93	68	72	71			
09-15-2017	83	52	67		95	49	66	63	69	65	
09-16-2017	86	60	73		98	52	68	65	71	67	
09-17-2017	88	61	74		97	40	68	65	71	68	
09-18-2017	89	64	76		96	45	69	66	72	69	
09-19-2017	80	67	73	0.36	97	68	69	68	72	71	
09-20-2017	88	64	76	0.01	98	49	70	67	73	70	
09-21-2017	92	66	79	0.01	97	46	70	68	74	71	
09-22-2017	89	65	77		97	45	70	68	74	71	
09-23-2017	90	63	76		97	38	70	68	73	71	
09-24-2017	90	63	76		92	32	70	67	73	70	
09-25-2017	91	62	76		94	39	70	67	73	70	
09-26-2017	91	62	76		97	37	70	67	73	70	
09-27-2017	90	63	76		96	39	69	67	73	70	
09-28-2017	79	58	68		82	44	69	67	72	70	
09-29-2017	79	50	64		90	35	67	64	70	67	
09-30-2017	72	51	61		77	37	65	63	68	66	

Summary for the period 9-1-2017 through 9-30-2017:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	80	58	69	4.72	90	52	69	66	68	70	
(Deviation from normal)+2	+2	+3	+3	+1.52							

OCTOBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP	
	MX	MN	AV		MX	MN	GRASS		BARE			
-----	---	---	---	-----	---	---	---	---	---	---	---	-----
10-01-2017	80	47	63		80	34	64	62	67	64		
10-02-2017	81	53	67		81	27	64	61	67	64		
10-03-2017	85	58	71		78	38	65	62	68	64		
10-04-2017	84	55	69		89	37	65	62	67	64		
10-05-2017	81	61	71		85	42	65	63	68	65		
10-06-2017	84	61	72		88	36	66	63	68	65		
10-07-2017	84	65	74	0.05	87	55	67	64	69	66		
10-08-2017	72	63	67	3.47	97	92	67	67	70	69		
10-09-2017	79	65	72	0.08	97	76	68	67	70	69		
10-10-2017	81	63	72	0.41	98	65	68	67	70	69		
10-11-2017	74	58	66		96	64	68	67	70	69		
10-12-2017	65	54	59		97	74	66	65	69	67		
10-13-2017	78	47	62	0.01	98	50	65	63	67	65		
10-14-2017	82	53	67		97	57	65	62	67	64		
10-15-2017	79	53	66	0.04	94	61	66	64	68	66		
10-16-2017	64	43	53		94	40	64	61	66	63		
10-17-2017	68	39	53		97	36	60	57	63	60		
10-18-2017	72	43	57		91	39	59	56	61	58		
10-19-2017	73	48	60		88	44	59	56	61	59		
10-20-2017	78	48	63		95	40	59	56	62	59		
10-21-2017	77	52	64		96	36	59	57	62	59		
10-22-2017	77	54	65		82	41	60	58	62	60		
10-23-2017	66	48	57	0.85	96	66	60	59	62	61		
10-24-2017	58	45	51	0.22	94	46	59	57	61	59		
10-25-2017	56	37	46		86	43	57	54	58	56		
10-26-2017	64	33	48		94	37	54	52	56	54		
10-27-2017	68	40	54		95	54	56	54	58	56		
10-28-2017	43	37	40	0.86	96	66	55	51	57	54		
10-29-2017	39	32	35	0.07	94	74	51	49	54	52		
10-30-2017	58	31	44		87	43	50	48	52	50		
10-31-2017	52	36	44		88	45	50	49	52	51		

Summary for the period 10-1-2017 through 10-31-2017:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP	
	MX	MN	AV		MX	MN	GRASS		BARE			
	---	---	---	-----	---	---	---	---	---	---	---	-----
	71	49	60	6.06	91	50	61	59	64	61		
(Deviation from normal)+3	+3	+4	+4	+3.49								

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	
2017	Apr	72	52	62	85	34	+7	0	0	61	57	
2017	May	75	56	66	88	37	+2	0	0	68	64	
2017	Jun	83	63	73	92	51	+1	3	0	74	70	
2017	Jul	82	70	76	94	57	-0	8	0	78	75	
2017	Aug	84	64	74	93	54	-1	4	0	73	71	
2017	Sep	80	58	69	92	48	+1	6	0	69	66	
2017	Oct	71	49	60	85	31	+3	0	2	61	59	

----- PRECIPITATION -----										
YEAR	MONTH	DEPARTURE			GREATEST			% RAIN DAYS	NO. DAYS >=.01	
		TOTAL	FROM NORMAL	CUMULATIVE TOTAL	DEPARTURE	24 HOUR TOTAL				
2017	Apr	4.17	+0.29	4.17	+0.29	1.24	37	11		
2017	May	7.74	+3.27	11.91	+3.56	1.55	48	15		
2017	Jun	7.68	+4.02	19.59	+7.58	3.15	37	11		
2017	Jul	4.49	-0.51	24.08	+7.07	1.30	32	10		
2017	Aug	6.66	+2.73	30.74	+9.80	1.88	45	14		
2017	Sep	4.72	+1.52	35.46	+11.32	3.09	30	9		
2017	Oct	6.06	+3.49	41.52	+14.81	3.47	32	10		

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NO TILL CORN EARLY PREPLANT

Trial ID: C17001 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: AMVAC-CORN-EPP Investigator: Sara Carter
 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	ERICA	LACSE	STEME	SETFA
Pest Name	Giant foxtail	Giant ragweed	Marestail	Prickly lettuce	Common chickweed	Giant foxtail
Crop Code						
Crop Name						
Rating Date	5-8-2017	5-8-2017	5-8-2017	5-8-2017	5-8-2017	5-22-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	0 WEEK	0 WEEK	0 WEEK	0 WEEK	0 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AT PLANTING			AT PLANTING		AFTER PLANT
Days After Emergence	-7 DE-1	-7 DE-1	-7 DE-1	-7 DE-1	-7 DE-1	7 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	DUAL II MAGNUM	1.25 PT/A	-14D	99	85	80	99	99	99
	IMPACT	0.75 FL OZ/A	-14D						
	AATREX	2 PT/A	-14D						
	MSO	0.5 % V/V	-14D						
	UAN 28%	2.5 % V/V	-14D						
3	DUAL II MAGNUM	1.25 PT/A	-14D	99	95	99	99	99	99
	IMPACT	0.75 FL OZ/A	-14D						
	ROUNDUP POWERMAX	32 FL OZ/A	-14D						
	AATREX	2 PT/A	-14D						
	MSO	0.5 % V/V	-14D						
	UAN 28%	2.5 % V/V	-14D						
4	DUAL II MAGNUM	1.25 PT/A	-14D	99	95	99	99	99	99
	IMPACT	0.75 FL OZ/A	-14D						
	LIBERTY 280	29 FL OZ/A	-14D						
	AATREX	2 PT/A	-14D						
	MSO	0.5 % V/V	-14D						
	UAN 28%	2.5 % V/V	-14D						
5	DUAL II MAGNUM	1.25 PT/A	-14D	99	95	99	99	99	99
	IMPACT	0.75 FL OZ/A	-14D						
	SHARPEN	1 FL OZ/A	-14D						
	AATREX	2 PT/A	-14D						
	MSO	0.5 % V/V	-14D						
	UAN 28%	2.5 % V/V	-14D						
6	DUAL II MAGNUM	1.25 PT/A	-14D	99	92	99	99	99	99
	IMPACT	0.75 FL OZ/A	-14D						
	2,4-D AMINE	1 PT/A	-14D						
	AATREX	2 PT/A	-14D						
	MSO	0.5 % V/V	-14D						
	UAN 28%	2.5 % V/V	-14D						
7	DUAL II MAGNUM	1.25 PT/A	-14D	90	90	99	99	99	90
	IMPACT	0.75 FL OZ/A	-14D						
	CLARITY	1 PT/A	-14D						
	AATREX	2 PT/A	-14D						
	MSO	0.5 % V/V	-14D						
	UAN 28%	2.5 % V/V	-14D						

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	LACSE	STEME	SETFA
Pest Name	Giant foxtail	Giant ragweed	Marestail	Prickly lettuce	Common chickweed	Giant foxtail
Crop Code						
Crop Name						
Rating Date	5-8-2017	5-8-2017	5-8-2017	5-8-2017	5-8-2017	5-22-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	0 WEEK	0 WEEK	0 WEEK	0 WEEK	0 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING	AFTER PLANT
Days After Emergence	-7 DE-1	-7 DE-1	-7 DE-1	-7 DE-1	-7 DE-1	7 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
8 DUAL II MAGNUM	1.25 PT/A	-14D	99	95	99	99	99	99
IMPACT	0.75 FL OZ/A	-14D						
GRAMOXONE INTEON	2 PT/A	-14D						
AATREX	2 PT/A	-14D						
MSO	0.5 % V/V	-14D						
UAN 28%	2.5 % V/V	-14D						
9 DUAL II MAGNUM	1.25 PT/A	-14D	99	95	99	99	99	99
ROUNDUP POWERMAX	32 FL OZ/A	-14D						
CLARITY	1 PT/A	-14D						
AATREX	2 PT/A	-14D						
MSO	0.5 % V/V	-14D						
UAN 28%	2.5 % V/V	-14D						
LSD P=.05			.	1.7	.	.	.	.
Standard Deviation			0.0	1.0	0.0	0.0	0.0	0.0
CV			0.0	1.17	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	0.3897	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	3132.250	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 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	ERICA	LACSE	STEME	
Pest Name	Giant ragweed	Marestail	Prickly lettuce	Common chickweed	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-29-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	35 35
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER EMERG
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	14 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	7	8	9	10	11
1	UNTREATED			0	0	0	0	0
2	DUAL II MAGNUM	1.25 PT/A	-14D	73	70	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
3	DUAL II MAGNUM	1.25 PT/A	-14D	92	99	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
4	DUAL II MAGNUM	1.25 PT/A	-14D	92	99	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	LIBERTY 280	29 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
5	DUAL II MAGNUM	1.25 PT/A	-14D	90	99	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	SHARPEN	1 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
6	DUAL II MAGNUM	1.25 PT/A	-14D	83	99	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	2,4-D AMINE	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
7	DUAL II MAGNUM	1.25 PT/A	-14D	85	99	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	ERICA	LACSE	STEME	
Pest Name	Giant ragweed	Marestail	Prickly lettuce	Common chickweed	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-29-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	35 35
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER EMERG
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	14 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	7	8	9	10	11
8	DUAL II MAGNUM	1.25 PT/A	-14D	90	99	99	99	0
	IMPACT	0.75 FL OZ/A	-14D					
	GRAMOXONE INTEON	2 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
9	DUAL II MAGNUM	1.25 PT/A	-14D	92	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
	LSD P=.05			5.6	.	.	.	.
	Standard Deviation			3.3	0.0	0.0	0.0	0.0
	CV			4.22	0.0	0.0	0.0	0.0
	Replicate F			0.609	0.000	0.000	0.000	0.000
	Replicate Prob(F)			0.5562	1.0000	1.0000	1.0000	1.0000
	Treatment F			247.522	0.000	0.000	0.000	0.000
	Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	LACSE	STEME
Pest Name	Giant foxtail	Giant ragweed	Marestail	Prickly lettuce	Common chickweed
Crop Code					
Crop Name					
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 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	12	13	14	15	16
1	UNTREATED			0	0	0	0	0
2	DUAL II MAGNUM	1.25 PT/A	-14D	99	73	70	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
3	DUAL II MAGNUM	1.25 PT/A	-14D	99	92	99	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
4	DUAL II MAGNUM	1.25 PT/A	-14D	99	92	99	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	LIBERTY 280	29 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
5	DUAL II MAGNUM	1.25 PT/A	-14D	99	90	99	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	SHARPEN	1 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
6	DUAL II MAGNUM	1.25 PT/A	-14D	99	83	99	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	2,4-D AMINE	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
7	DUAL II MAGNUM	1.25 PT/A	-14D	90	85	99	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	LACSE	STEME
Pest Name	Giant foxtail	Giant ragweed	Marestail	Prickly lettuce	Common chickweed
Crop Code					
Crop Name					
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	12	13	14	15	16
No.	Name	Rate Unit	Stage					
8	DUAL II MAGNUM	1.25 PT/A	-14D	99	90	99	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	GRAMOXONE INTEON	2 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
9	DUAL II MAGNUM	1.25 PT/A	-14D	99	92	99	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
	LSD P=.05			.	5.6	.	.	.
	Standard Deviation			0.0	3.3	0.0	0.0	0.0
	CV			0.0	4.22	0.0	0.0	0.0
	Replicate F			0.000	0.609	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	0.5562	1.0000	1.0000	1.0000
	Treatment F			0.000	247.522	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	0.0001	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	ERICA	LACSE
Pest Name		Giant foxtail	Giant ragweed	Marestail	Prickly lettuce
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	6-12-2017	6-19-2017	6-19-2017	6-19-2017	6-19-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	49 49	56 56	56 56	56 56	56 56
Trt-Eval Interval		AFTER EMERG	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	28 DE-1	35 DE-1	35 DE-1	35 DE-1	35 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	17	18	19	20	21
1	UNTREATED			0	0	0	0	0
2	DUAL II MAGNUM	1.25 PT/A	-14D	0	90	43	70	99
	IMPACT	0.75 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
3	DUAL II MAGNUM	1.25 PT/A	-14D	0	90	90	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
4	DUAL II MAGNUM	1.25 PT/A	-14D	0	90	80	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	LIBERTY 280	29 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
5	DUAL II MAGNUM	1.25 PT/A	-14D	0	99	85	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	SHARPEN	1 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
6	DUAL II MAGNUM	1.25 PT/A	-14D	0	99	77	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	2,4-D AMINE	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
7	DUAL II MAGNUM	1.25 PT/A	-14D	0	70	70	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	ERICA	LACSE
Pest Name		Giant foxtail	Giant ragweed	Marestail	Prickly lettuce
Crop Code	ZEAMX				
Crop Name	Corn				
Rating Date	6-12-2017	6-19-2017	6-19-2017	6-19-2017	6-19-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	49 49	56 56	56 56	56 56	56 56
Trt-Eval Interval		AFTER EMERG	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	28 DE-1	35 DE-1	35 DE-1	35 DE-1	35 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	17	18	19	20	21
8	DUAL II MAGNUM	1.25 PT/A	-14D	0	99	80	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	GRAMOXONE INTEON	2 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
9	DUAL II MAGNUM	1.25 PT/A	-14D	0	99	87	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
	LSD P=.05			.	.	4.0	.	.
	Standard Deviation			0.0	0.0	2.3	0.0	0.0
	CV			0.0	0.0	3.42	0.0	0.0
	Replicate F			0.000	0.000	0.267	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	0.7688	1.0000	1.0000
	Treatment F			0.000	0.000	467.368	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	SETFA	AMBTR	ERICA	LACSE
Pest Name	Common chickweed	Giant foxtail	Giant ragweed	Marestail	Prickly lettuce
Crop Code					
Crop Name					
Rating Date	6-19-2017	7-17-2017	7-17-2017	7-17-2017	7-17-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	56 56	84 84	84 84	84 84	84 84
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	35 DE-1	63 DE-1	63 DE-1	63 DE-1	63 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	22	23	24	25	26
1	UNTREATED			0	0	0	0	0
2	DUAL II MAGNUM	1.25 PT/A	-14D	99	90	43	70	99
	IMPACT	0.75 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
3	DUAL II MAGNUM	1.25 PT/A	-14D	99	90	90	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
4	DUAL II MAGNUM	1.25 PT/A	-14D	99	90	80	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	LIBERTY 280	29 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
5	DUAL II MAGNUM	1.25 PT/A	-14D	99	99	85	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	SHARPEN	1 FL OZ/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
6	DUAL II MAGNUM	1.25 PT/A	-14D	99	99	77	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	2,4-D AMINE	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
7	DUAL II MAGNUM	1.25 PT/A	-14D	99	70	70	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	SETFA	AMBTR	ERICA	LACSE
Pest Name	Common chickweed	Giant foxtail	Giant ragweed	Marestail	Prickly lettuce
Crop Code					
Crop Name					
Rating Date	6-19-2017	7-17-2017	7-17-2017	7-17-2017	7-17-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	56 56	84 84	84 84	84 84	84 84
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	35 DE-1	63 DE-1	63 DE-1	63 DE-1	63 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	22	23	24	25	26
No.	Name	Rate Unit	Stage					
8	DUAL II MAGNUM	1.25 PT/A	-14D	99	99	80	99	99
	IMPACT	0.75 FL OZ/A	-14D					
	GRAMOXONE INTEON	2 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
9	DUAL II MAGNUM	1.25 PT/A	-14D	99	99	87	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	-14D					
	CLARITY	1 PT/A	-14D					
	AATREX	2 PT/A	-14D					
	MSO	0.5 % V/V	-14D					
	UAN 28%	2.5 % V/V	-14D					
LSD P=.05				.	.	4.0	.	.
Standard Deviation				0.0	0.0	2.3	0.0	0.0
CV				0.0	0.0	3.42	0.0	0.0
Replicate F				0.000	0.000	0.267	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	0.7688	1.0000	1.0000
Treatment F				0.000	0.000	467.368	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type	W Weed
Pest Code	STEME
Pest Name	Common chickweed
Crop Code	
Crop Name	
Rating Date	7-17-2017
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	4 WEEK
Days After First/Last Applic.	84 84
Trt-Eval Interval	AFTER PLANT
Days After Emergence	63 DE-1
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Growth	27
		Rate Unit	Stage	
1	UNTREATED			0
2	DUAL II MAGNUM	1.25 PT/A	-14D	99
	IMPACT	0.75 FL OZ/A	-14D	
	AATREX	2 PT/A	-14D	
	MSO	0.5 % V/V	-14D	
	UAN 28%	2.5 % V/V	-14D	
3	DUAL II MAGNUM	1.25 PT/A	-14D	99
	IMPACT	0.75 FL OZ/A	-14D	
	ROUNDUP POWERMAX	32 FL OZ/A	-14D	
	AATREX	2 PT/A	-14D	
	MSO	0.5 % V/V	-14D	
	UAN 28%	2.5 % V/V	-14D	
4	DUAL II MAGNUM	1.25 PT/A	-14D	99
	IMPACT	0.75 FL OZ/A	-14D	
	LIBERTY 280	29 FL OZ/A	-14D	
	AATREX	2 PT/A	-14D	
	MSO	0.5 % V/V	-14D	
	UAN 28%	2.5 % V/V	-14D	
5	DUAL II MAGNUM	1.25 PT/A	-14D	99
	IMPACT	0.75 FL OZ/A	-14D	
	SHARPEN	1 FL OZ/A	-14D	
	AATREX	2 PT/A	-14D	
	MSO	0.5 % V/V	-14D	
	UAN 28%	2.5 % V/V	-14D	
6	DUAL II MAGNUM	1.25 PT/A	-14D	99
	IMPACT	0.75 FL OZ/A	-14D	
	2,4-D AMINE	1 PT/A	-14D	
	AATREX	2 PT/A	-14D	
	MSO	0.5 % V/V	-14D	
	UAN 28%	2.5 % V/V	-14D	
7	DUAL II MAGNUM	1.25 PT/A	-14D	99
	IMPACT	0.75 FL OZ/A	-14D	
	CLARITY	1 PT/A	-14D	
	AATREX	2 PT/A	-14D	
	MSO	0.5 % V/V	-14D	
	UAN 28%	2.5 % V/V	-14D	

Could not calculate LSD (% mean diff) for columns 1,3,4,5,6,8,9,10,11,12,14,15,16,17,18,20,21,22,23,25,26,27 because error mean square = 0.

University of Kentucky

Pest Type W Weed
 Pest Code STEME
 Pest Name Common chickweed
 Crop Code
 Crop Name
 Rating Date 7-17-2017
 Rating Type CONTROL
 Rating Unit PERCENT
 Number of Subsamples 1
 Rating Timing 4 WEEK
 Days After First/Last Applic. 84 84
 Trt-Eval Interval AFTER PLANT
 Days After Emergence 63 DE-1
 ARM Action Codes P
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
8	DUAL II MAGNUM	1.25	PT/A	-14D	99
	IMPACT	0.75	FL OZ/A	-14D	
	GRAMOXONE INTEON	2	PT/A	-14D	
	AATREX	2	PT/A	-14D	
	MSO	0.5 %	V/V	-14D	
	UAN 28%	2.5 %	V/V	-14D	
9	DUAL II MAGNUM	1.25	PT/A	-14D	99
	ROUNDUP POWERMAX	32	FL OZ/A	-14D	
	CLARITY	1	PT/A	-14D	
	AATREX	2	PT/A	-14D	
	MSO	0.5 %	V/V	-14D	
	UAN 28%	2.5 %	V/V	-14D	
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

University of Kentucky

NO TILL CORN EARLY PREPLANT

Trial ID: C17001 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: AMVAC-CORN-EPP Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
ERICA, Erigeron canadensis, Marestalk = US
LACSE, Lactuca serriola, Prickly lettuce = US
STEME, Stellaria media, Common chickweed = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL CORN EARLY PREPLANT

Trial ID: C17001 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: AMVAC-CORN-EPP Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-24-2017
Completion Date: 10-10-2017

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Soil Temperature, Unit: 60 F **Emergence Date:** 5-15-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

University of Kentucky

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

Pest 4 Type: W **Code:** LACSE *Lactuca serriola*
Common Name: Prickly lettuce

Pest 5 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 9 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

A
Application Date: 4-24-2017
Application Method: SPRAY
Application Timing: -14D
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 75 F
% Relative Humidity: 40
Wind Velocity, Unit: 6 MPH
Wind Direction: SW
Soil Temperature, Unit: 59 F
Soil Moisture: GOOD
% Cloud Cover: 10
Next Moisture Occurred On: 4-29-2017

University of Kentucky

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Height, Unit: 1 IN
Pest 2 Code, Type, Scale: AMBTR W
Height, Unit: 2 IN
Pest 3 Code, Type, Scale: ERICA W
Height, Unit: 3 IN
Pest 4 Code, Type, Scale: LACSE W
Height, Unit: 4 IN
Pest 5 Code, Type, Scale: STEME 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: 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 CORN

Trial ID: C17002
Protocol ID: FMC-CORN PRE-NT
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: MATTHEW WIGGINS

Pest Type	ZEAMX		ZEAMX		W Weed	W Weed	W Weed	W Weed
Pest Code	Corn		Corn		SETFA	AMACH	CHEAL	IPOSS
Pest Name					Giant foxtail	Smooth pigweed	common lambsquarters	Morning glory
Rating Date	5-16-2017	6-9-2017	6-9-2017	6-9-2017				
Rating Type	INJURY	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1				
Rating Timing	1 WEEK	2 WEEK	2 WEEK	2 WEEK				
Days After First/Last Applic.	7 7	31 3	31 3	31 3				
Days After Emergence	1 DE-1	25 DE-1	25 DE-1	25 DE-1				
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0				

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	ANTHEM MAXX	3.3 OZ/A	PRE	0	0	99	99	99	99
	ATRAZINE	1 LB A/A	PRE						
	SOLSTICE	2.5 OZ/A	V4						
	ATRAZINE	0.5 LB A/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
	AMS	8.5 LB/100 GAL	V4						
3	CRUSHER	1.5 OZ/A	PRE	0	0	99	99	99	99
	GRAMOXONE	32 FL OZ/A	PRE						
	COC	1 % V/V	PRE						
	ANTHEM MAXX	2 OZ/A	V2						
	SOLSTICE	2.5 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
4	ANTHEM MAXX	2 OZ/A	V2	0	0	99	99	99	99
	SOLSTICE	2.5 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
5	ANTHEM MAXX	3.3 OZ/A	V2	0	0	99	99	99	99
	CALLISTO	3 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						

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

University of Kentucky

Pest Type			W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMACH	CHEAL	IPOSS
Pest Name			Giant foxtail	Smooth pigweed	common lambsquarters	Morning glory
Crop Code	ZEAMX	ZEAMX				
Crop Name	Corn	Corn				
Rating Date	5-16-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017
Rating Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	7 7	31 3	31 3	31 3	31 3	31 3
Days After Emergence	1 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
6	HALEX GT	3.6 PT/A	V2	0	0	99	99	99	99
	COC	1 % 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

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMACH	CHEAL	IPOSS	
Pest Name		Giant foxtail Smooth pigweed common lambsquarters Morning glory				
Crop Code		ZEAMX				ZEAMX
Crop Name		Corn				Corn
Rating Date		6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Number of Subsamples		1	1	1	1	1
Rating Timing		4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.		45 17	45 17	45 17	45 17	73 45
Days After Emergence		39 DE-1	39 DE-1	39 DE-1	39 DE-1	67 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	7	8	9	10	11	12	
1	UNTREATED CHECK			0	0	0	0	0	0	
2	ANTHEM MAXX	3.3 OZ/A	PRE	0	99	99	99	99	0	
	ATRAZINE	1 LB A/A	PRE							
	SOLSTICE	2.5 OZ/A	V4							
	ATRAZINE	0.5 LB A/A	V4							
	ROUNDUP POWERMAX	22 FL OZ/A	V4							
	COC	1 % V/V	V4							
	AMS	8.5 LB/100 GAL	V4							
3	CRUSHER	1.5 OZ/A	PRE	0	99	99	99	99	0	
	GRAMOXONE	32 FL OZ/A	PRE							
	COC	1 % V/V	PRE							
	ANTHEM MAXX	2 OZ/A	V2							
	SOLSTICE	2.5 OZ/A	V2							
	ATRAZINE	1 LB A/A	V2							
	ROUNDUP POWERMAX	22 FL OZ/A	V2							
	COC	1 % V/V	V2							
	AMS	8.5 LB/100 GAL	V2							
4	ANTHEM MAXX	2 OZ/A	V2	0	99	99	99	99	0	
	SOLSTICE	2.5 OZ/A	V2							
	ATRAZINE	1 LB A/A	V2							
	ROUNDUP POWERMAX	22 FL OZ/A	V2							
	COC	1 % V/V	V2							
	AMS	8.5 LB/100 GAL	V2							
5	ANTHEM MAXX	3.3 OZ/A	V2	0	99	99	99	99	0	
	CALLISTO	3 OZ/A	V2							
	ATRAZINE	1 LB A/A	V2							
	ROUNDUP POWERMAX	22 FL OZ/A	V2							
	COC	1 % V/V	V2							
	AMS	8.5 LB/100 GAL	V2							

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMACH	CHEAL	IPOSS	
Pest Name		Giant foxtail	Smooth pigweed	common lambsquarters	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	45 17	45 17	45 17	45 17	45 17	73 45
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	39 DE-1	67 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	7	8	9	10	11	12	
6 HALEX GT	3.6 PT/A	V2	0	99	99		99	99	0
COC	1 % 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

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMACH	CHEAL	IPOSS	
Pest Name	Giant foxtail Smooth pigweed common lambsquarters Morning glory				
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	7-21-2017	7-21-2017	7-21-2017	7-21-2017	10-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	73 45	73 45	73 45	73 45	147 119
Days After Emergence	67 DE-1	67 DE-1	67 DE-1	67 DE-1	141 DE-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	13	14	15	16	20
No.	Name	Rate Unit	Stage					
1	UNTREATED CHECK			0	0	0	0	69
2	ANTHEM MAXX	3.3 OZ/A	PRE	99	99	99	99	193
	ATRAZINE	1 LB A/A	PRE					
	SOLSTICE	2.5 OZ/A	V4					
	ATRAZINE	0.5 LB A/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
	AMS	8.5 LB/100 GAL	V4					
3	CRUSHER	1.5 OZ/A	PRE	99	99	99	99	191
	GRAMOXONE	32 FL OZ/A	PRE					
	COC	1 % V/V	PRE					
	ANTHEM MAXX	2 OZ/A	V2					
	SOLSTICE	2.5 OZ/A	V2					
	ATRAZINE	1 LB A/A	V2					
	ROUNDUP POWERMAX	22 FL OZ/A	V2					
	COC	1 % V/V	V2					
	AMS	8.5 LB/100 GAL	V2					
4	ANTHEM MAXX	2 OZ/A	V2	99	99	99	99	175
	SOLSTICE	2.5 OZ/A	V2					
	ATRAZINE	1 LB A/A	V2					
	ROUNDUP POWERMAX	22 FL OZ/A	V2					
	COC	1 % V/V	V2					
	AMS	8.5 LB/100 GAL	V2					
5	ANTHEM MAXX	3.3 OZ/A	V2	99	99	99	99	174
	CALLISTO	3 OZ/A	V2					
	ATRAZINE	1 LB A/A	V2					
	ROUNDUP POWERMAX	22 FL OZ/A	V2					
	COC	1 % V/V	V2					
	AMS	8.5 LB/100 GAL	V2					

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMACH	CHEAL	IPOSS	
Pest Name	Giant foxtail	Smooth pigweed	common lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	7-21-2017	7-21-2017	7-21-2017	7-21-2017	10-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	73 45	73 45	73 45	73 45	147 119
Days After Emergence	67 DE-1	67 DE-1	67 DE-1	67 DE-1	141 DE-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth					
No.	Name	Rate Unit	Stage	13	14	15	16	20
6	HALEX GT	3.6 PT/A	V2	99	99	99	99	171
	COC	1 % V/V	V2					
	AMS	8.5 LB/100 GAL	V2					
LSD P=.05				.	.	.	.	22.1
Standard Deviation				0.0	0.0	0.0	0.0	12.2
CV				0.0	0.0	0.0	0.0	7.5
Replicate F				0.000	0.000	0.000	0.000	2.712
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	0.1145
Treatment F				0.000	0.000	0.000	0.000	43.867
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	0.0001

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

University of Kentucky

NO TILL CORN

Trial ID: C17002 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: FMC-CORN PRE-NT Investigator: Sara Carter
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: MATTHEW WIGGINS

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMACH, Amaranthus hybridus, Smooth pigweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [18] * (100 - [19]) / 84.5$

University of Kentucky

NO TILL CORN

Trial ID: C17002 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: FMC-CORN PRE-NT Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATTHEW WIGGINS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-3-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-15-2017
Harvest Date: 10-6-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 60 F **Harvest Equipment:** MASSEY FERGUSON 8XP
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

University of Kentucky

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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	5-9-2017	5-26-2017	6-6-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V4
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA
Air Temperature, Unit:	70 F	77 F	72 F
% Relative Humidity:	70	46	55
Wind Velocity, Unit:	6 MPH	6 MPH	5 MPH
Wind Direction:	SW	SWW	NW
Soil Temperature, Unit:	61 F	65 F	71 F
Soil Moisture:	GOOD	EXCELL	GOOD
% Cloud Cover:	40	5	60
Next Moisture Occurred On:	5-11-2017	5-27-2017	6-13-2017

University of Kentucky

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN	5 IN
Pest 2 Code, Type, Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:	2 IN	3 IN	4 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	1 IN	2 IN	3 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	0.5 IN	1 IN	2 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 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

Date	By	Notes
5-9-2017	SARA	SPRAYED UNTREATED PLOT WITH ROUNDUP AT PLANTING

University of Kentucky

CORN POSTEMERGENCE

Trial ID: C17009 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DOW-CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

Pest Type	W Weed		W Weed		W Weed		W Weed	
Pest Code	SETFA		AMBTR		CHEAL		IPOSS	
Pest Name	Giant foxtail		Giant ragweed		common lambsquarters		Morning glory	
Crop Code	ZEAMX				ZEAMX			
Crop Name	Corn				Corn			
Rating Date	5-30-2017	5-30-2017	5-30-2017	5-30-2017	5-30-2017	5-30-2017	6-13-2017	6-13-2017
Rating Type	INJURY		CONTROL		CONTROL		INJURY	
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT	
Number of Subsamples	1	1	1	1	1	1	1	1
Rating Timing	2 WEEK		2 WEEK		2 WEEK		4 WEEK	
Days After First/Last Applic.	28 14	28 14	28 14	28 14	28 14	28 14	42 7	42 7
Days After Emergence	21 DE-1		21 DE-1		21 DE-1		35 DE-1	
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	7
1	FULTIME NXT	3 QT/A	PRE	0	99	99	99	99	0	99
	DURANGO DMA	1 QT/A	MP							
	AMS	2.5 % V/V	MP							
2	SURESTART II	2 PT/A	PRE	0	99	99	99	99	0	99
	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	99	99	99	0	99
	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	99	99	99	0	99
	AATREX	1 QT/A	PRE							
	DURANGO DMA	1 QT/A	MP							
	AMS	2.5 % V/V	MP							
5	RESICORE	1.25 QT/A	PRE	0	99	99	99	99	0	99
	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	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 1,2,3,4,5,6,7,9,10,11,12,14,15 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 lambsquarters Morning glory			Giant foxtail	Giant ragweed				
Crop Code	ZEAMX								
Crop Name	Corn								
Rating Date	6-13-2017	6-13-2017	6-13-2017	7-11-2017	7-11-2017				
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1				
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK				
Days After First/Last Applic.	42 7	42 7	42 7	70 35	70 35				
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	63 DE-1	63 DE-1				
ARM Action Codes	P	P	P	P	P				
Number of Decimals	0	0	0	0	0				
Trt	Treatment	Rate	Growth	8	9	10	11	12	13
No.	Name	Rate Unit	Stage						
1	FULTIME NXT	3 QT/A	PRE	99	88	95	0	99	99
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
2	SURESTART II	2 PT/A	PRE	99	85	99	0	99	99
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
3	SURESTART II	2 PT/A	EP	93	99	99	0	99	93
	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	95	99	0	99	99
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
5	RESICORE	1.25 QT/A	PRE	99	88	99	0	99	99
	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			2.1	.	.	.	.	2.1
	Standard Deviation			1.2	0.0	0.0	0.0	0.0	1.2
	CV			1.45	0.0	0.0	0.0	0.0	1.45
	Replicate F			1.000	0.000	0.000	0.000	0.000	1.000
	Replicate Prob(F)			0.4019	1.0000	1.0000	1.0000	1.0000	0.4019
	Treatment F			3459.136	0.000	0.000	0.000	0.000	3459.136
	Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	1.0000	0.0001

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

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	common lambsquarters	Morning glory	
Crop Code			ZEAMX
Crop Name			Corn
Rating Date	7-11-2017	7-11-2017	10-3-2017
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1
Rating Timing	8 WEEK	8 WEEK	
Days After First/Last Applic.	70 35	70 35	154 119
Days After Emergence	63 DE-1	63 DE-1	147 DE-1
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	14	15	19
1	FULTIME NXT	3 QT/A	PRE	88	95	186
	DURANGO DMA	1 QT/A	MP			
	AMS	2.5 % V/V	MP			
2	SURESTART II	2 PT/A	PRE	85	99	175
	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	99	184
	DURANGO DMA	1 QT/A	EP			
	AATREX	1 QT/A	EP			
	AMS	2.5 % V/V	EP			
4	RESICORE	2.5 QT/A	PRE	95	99	172
	AATREX	1 QT/A	PRE			
	DURANGO DMA	1 QT/A	MP			
	AMS	2.5 % V/V	MP			
5	RESICORE	1.25 QT/A	PRE	88	99	175
	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	16
	LSD P=.05			.	.	23.7
	Standard Deviation			0.0	0.0	13.0
	CV			0.0	0.0	8.63
	Replicate F			0.000	0.000	2.018
	Replicate Prob(F)			1.0000	1.0000	0.1836
	Treatment F			0.000	0.000	78.009
	Treatment Prob(F)			1.0000	1.0000	0.0001

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

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CORN POSTEMERGENCE

Trial ID: C17009 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DOW-CORN Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE

Trial ID: C17009 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DOW-CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-31-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-9-2017
Harvest Date: 10-3-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT

Soil Temperature, Unit: 59 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	5-2-2017	5-16-2017	6-6-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	C H SLACK	SARA	C H SLACK
Air Temperature, Unit:	65 F	78 F	65 F
% Relative Humidity:	30	60	50
Wind Velocity, Unit:	10 MPH	4 MPH	5 MPH
Wind Direction:	W	SW	WSW
Soil Temperature, Unit:	59 F	70 F	70 F
Soil Moisture:	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	30
Next Moisture Occurred On:	5-4-2017	5-19-2017	6-13-2017

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	3 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:	1 IN	3 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	5 IN	5 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	1 IN	2.5 IN	2.5 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	0.5 IN	1.5 IN	1.5 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	BACKPACK	ATV
Equipment Type:	ALTEVE	BELSPR	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

University of Kentucky

CORN POSTEMERGENCE II

Trial ID: C17010 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-CORN2 Investigator: Sara Carter
 Project ID: 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 lambsquarters Morning glory			
Crop Code	ZEAMX			ZEAMX
Crop Name	Corn			Corn
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	CORVUS	4.5 OZ/A	V2	0	99	99	99	99	0
	AATREX	16 OZ/A	V2						
3	ACURON	64 OZ/A	V2	0	99	99	99	99	0
4	CAPRENO HERBICIDE	3 OZ/A	V2	0	99	99	99	99	0
	ROUNDUP WeatherMAX	32 FL OZ/A	V2						
	AATREX	16 OZ/A	V2						
5	HALEX GT	57.6 OZ/A	V2	0	99	99	99	99	0
	AATREX	16 OZ/A	V2						
	NIS	0.25 % V/V	V2						
6	DIFLEXX	8 OZ/A	V2	0	99	99	99	99	0
	COC	1 % V/V	V2						
7	STATUS	3 OZ/A	V2	0	99	99	99	99	0
	COC	1 % V/V	V2						
8	CORVUS	4.5 OZ/A	V2	0	99	99	99	99	0
	DIFLEXX	8 OZ/A	V2						
	AATREX	16 OZ/A	V2						
9	ACURON	64 OZ/A	V2	0	99	99	99	99	0
	DIFLEXX	8 OZ/A	V2						
10	CAPRENO HERBICIDE	3 OZ/A	V2	0	99	99	99	99	0
	ROUNDUP WeatherMAX	32 FL OZ/A	V2						
	DIFLEXX	8 OZ/A	V2						
11	HALEX GT	57.6 OZ/A	V2	0	99	99	99	99	0
	DIFLEXX	8 OZ/A	V2						
	AATREX	16 OZ/A	V2						
	NIS	0.25 % V/V	V2						
12	CORVUS	4.5 OZ/A	V2	0	99	99	99	99	0
	STATUS	3 OZ/A	V2						
	AATREX	16 OZ/A	V2						
13	ACURON	64 OZ/A	V2	0	99	99	99	99	0
	STATUS	3 OZ/A	V2						
14	CAPRENO HERBICIDE	3 OZ/A	V2	0	99	99	99	99	0
	ROUNDUP WeatherMAX	32 FL OZ/A	V2						
	STATUS	3 OZ/A	V2						
	AATREX	16 OZ/A	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 Name		Giant foxtail	Giant ragweed	common lambsquarters	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-19-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1	42 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	
15 HALEX GT	57.6 OZ/A	V2	0	99	99		99	99	0
STATUS	3 OZ/A	V2							
AATREX	16 OZ/A	V2							
NIS	0.25 % V/V	V2							
16 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

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

University of Kentucky

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 lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-17-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 56
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	56 DA-A
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	70 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	CORVUS	4.5 OZ/A	V2	99	95	99	95	0	99
	AATREX	16 OZ/A	V2						
3	ACURON	64 OZ/A	V2	99	96	99	95	0	99
4	CAPRENO HERBICIDE	3 OZ/A	V2	99	95	99	95	0	99
	ROUNDUP WeatherMAX	32 FL OZ/A	V2						
	AATREX	16 OZ/A	V2						
5	HALEX GT	57.6 OZ/A	V2	93	95	99	95	0	93
	AATREX	16 OZ/A	V2						
	NIS	0.25 % V/V	V2						
6	DIFLEXX	8 OZ/A	V2	99	95	99	95	0	99
	COC	1 % V/V	V2						
7	STATUS	3 OZ/A	V2	99	85	99	87	0	99
	COC	1 % V/V	V2						
8	CORVUS	4.5 OZ/A	V2	99	96	99	95	0	99
	DIFLEXX	8 OZ/A	V2						
	AATREX	16 OZ/A	V2						
9	ACURON	64 OZ/A	V2	99	99	99	99	0	99
	DIFLEXX	8 OZ/A	V2						
10	CAPRENO HERBICIDE	3 OZ/A	V2	99	99	99	99	0	99
	ROUNDUP WeatherMAX	32 FL OZ/A	V2						
	DIFLEXX	8 OZ/A	V2						
11	HALEX GT	57.6 OZ/A	V2	99	99	99	99	0	99
	DIFLEXX	8 OZ/A	V2						
	AATREX	16 OZ/A	V2						
	NIS	0.25 % V/V	V2						
12	CORVUS	4.5 OZ/A	V2	99	96	99	99	0	99
	STATUS	3 OZ/A	V2						
	AATREX	16 OZ/A	V2						
13	ACURON	64 OZ/A	V2	99	99	99	99	0	99
	STATUS	3 OZ/A	V2						
14	CAPRENO HERBICIDE	3 OZ/A	V2	99	99	99	99	0	99
	ROUNDUP WeatherMAX	32 FL OZ/A	V2						
	STATUS	3 OZ/A	V2						
	AATREX	16 OZ/A	V2						

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

University of Kentucky

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	lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-17-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 56
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	56 DA-A
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	70 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	7	8	9	10	11	12		
15 HALEX GT	57.6 OZ/A	V2	99	99	99	99	0	99		
STATUS	3 OZ/A	V2								
AATREX	16 OZ/A	V2								
NIS	0.25 % V/V	V2								
16 UNTREATED CHECK			0	0	0	0	0	0		
LSD P=.05			4.6	1.7	.	0.7	.	4.6		
Standard Deviation			2.7	1.0	0.0	0.4	0.0	2.7		
CV			3.18	1.19	0.0	0.51	0.0	3.18		
Replicate F			1.000	1.000	0.000	1.000	0.000	1.000		
Replicate Prob(F)			0.3798	0.3798	1.0000	0.3798	1.0000	0.3798		
Treatment F			452.945	3280.467	0.000	17514.402	0.000	452.945		
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001	1.0000	0.0001		

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7-17-2017	7-17-2017	7-17-2017	10-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 56	56 56	56 56	134 134
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	134 DA-A
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	148 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	19
		Rate Unit					
1	UNTREATED			0	0	0	14
2	CORVUS	4.5 OZ/A	V2	95	99	95	203
	AATREX	16 OZ/A	V2				
3	ACURON	64 OZ/A	V2	96	99	95	211
4	CAPRENO HERBICIDE	3 OZ/A	V2	95	99	95	196
	ROUNDUP WeatherMAX	32 FL OZ/A	V2				
	AATREX	16 OZ/A	V2				
5	HALEX GT	57.6 OZ/A	V2	95	99	95	191
	AATREX	16 OZ/A	V2				
	NIS	0.25 % V/V	V2				
6	DIFLEXX	8 OZ/A	V2	95	99	95	186
	COC	1 % V/V	V2				
7	STATUS	3 OZ/A	V2	85	99	87	159
	COC	1 % V/V	V2				
8	CORVUS	4.5 OZ/A	V2	96	99	95	199
	DIFLEXX	8 OZ/A	V2				
	AATREX	16 OZ/A	V2				
9	ACURON	64 OZ/A	V2	99	99	99	207
	DIFLEXX	8 OZ/A	V2				
10	CAPRENO HERBICIDE	3 OZ/A	V2	99	99	99	182
	ROUNDUP WeatherMAX	32 FL OZ/A	V2				
	DIFLEXX	8 OZ/A	V2				
11	HALEX GT	57.6 OZ/A	V2	99	99	99	203
	DIFLEXX	8 OZ/A	V2				
	AATREX	16 OZ/A	V2				
	NIS	0.25 % V/V	V2				
12	CORVUS	4.5 OZ/A	V2	96	99	99	199
	STATUS	3 OZ/A	V2				
	AATREX	16 OZ/A	V2				
13	ACURON	64 OZ/A	V2	99	99	99	193
	STATUS	3 OZ/A	V2				
14	CAPRENO HERBICIDE	3 OZ/A	V2	99	99	99	175
	ROUNDUP WeatherMAX	32 FL OZ/A	V2				
	STATUS	3 OZ/A	V2				
	AATREX	16 OZ/A	V2				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7-17-2017	7-17-2017	7-17-2017	10-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 56	56 56	56 56	134 134
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	134 DA-A
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	148 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	13	14
15 HALEX GT	57.6 OZ/A	V2	99	99
STATUS	3 OZ/A	V2		
AATREX	16 OZ/A	V2		
NIS	0.25 % V/V	V2		
16 UNTREATED CHECK			0	0
LSD P=.05			1.7	0.7
Standard Deviation			1.0	0.4
CV			1.19	0.51
Replicate F			1.000	0.000
Replicate Prob(F)			0.3798	1.0000
Treatment F			3280.467	0.000
Treatment Prob(F)			0.0001	17514.402
				150.569
				0.0001

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

University of Kentucky

CORN POSTEMERGENCE II

Trial ID: C17010 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BAYER-CORN2 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE II

Trial ID: C17010 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-CORN2 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-3-2017

Trial Location

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

Latitude of LL Corner °: 38.119026 N
Longitude of LL Corner °: 84.8449344 W

Directions:
 GPS coordinates are from NW corner of study

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: DKC64-89RIB

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

Planting Date: 5-2-2017
 Planting Method: PLANTD planted
 Planting Equipment: FE Field Equipment
 Emergence Date: 5-8-2017
 Harvest Date: 10-3-2017
 Harvested Width, Unit: 5 FT
 Harvested Length, Unit: 38 FT
 Harvest Equipment: MASSEY FERGUSON 8XP
 % Standard Moisture: 15.5

Soil Temperature, Unit: 59 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: 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: 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

Analyzed By:

Moisture and Weather Conditions

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

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Application Description

A
Application Date: 5-22-2017
Application Method: SPRAY
Application Timing: V2
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 68 F
% Relative Humidity: 42
Wind Velocity, Unit: 3 MPH
Wind Direction: NNE
Soil Temperature, Unit: 70 F
Soil Moisture: EXCELL
% Cloud Cover: 40
Next Moisture Occurred On: 5-23-2017

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: V2 98
Stage Minimum, Percent: v1 1
Stage Maximum, Percent: v3 1
Height, Unit: 5 IN
Height Minimum, Maximum: 4 6

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Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 12 99
Stage Minimum, Percent: 10 1
Stage Maximum, Percent: 13 1
Diameter, Unit: 0.5 in
Height, Unit: 2 IN
Height Minimum, Maximum: 0.5 2.5
Density, Unit: 4 1-10
Pest 2 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 14 99
Stage Minimum, Percent: 13 1
Stage Maximum, Percent: 15 1
Diameter, Unit: 4 in
Height, Unit: 4 IN
Height Minimum, Maximum: 3.5 4.5
Density, Unit: 7 1-10
Pest 3 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 12 99
Stage Minimum, Percent: 11 1
Stage Maximum, Percent: 13 1
Diameter, Unit: 1.5 in
Height, Unit: 1.5 IN
Height Minimum, Maximum: 1 1.75
Density, Unit: 6 1-10
Pest 4 Code, Type, Scale: IPOSS W
Stage Majority, Percent: 11 99
Stage Minimum, Percent: 10 1
Stage Maximum, Percent: 12 1
Diameter, Unit: 0.5 IN
Height, Unit: 1 IN
Height Minimum, Maximum: 0.5 1.25
Density, Unit: 6 1-10

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Application Equipment

A

Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8003 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: 15 GPA
Mix Size, Unit: 2.2 liters
Propellant: CO2

University of Kentucky

CORN POSTEMERGENCE III

Trial ID: C17011 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-CORN1 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

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 lambsquarters		Morning glory		Giant foxtail	
Crop Code	ZEAMX				ZEAMX					
Crop Name	Corn				Corn					
Rating Date	6-5-2017		6-5-2017		6-5-2017		6-5-2017		6-19-2017	
Rating Type	INJURY CONTROL		CONTROL		CONTROL		CONTROL		INJURY CONTROL	
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Number of Subsamples	1		1		1		1		1	
Rating Timing	2 WEEK		2 WEEK		2 WEEK		2 WEEK		4 WEEK	
Days After First/Last Applic.	34 14		34 14		34 14		34 14		48 28	
Days After Emergence	27 DE-1		27 DE-1		27 DE-1		27 DE-1		41 DE-1	
ARM Action Codes	P		P		P		P		P	
Number of Decimals	0		0		0		0		0	

Trt	Treatment	Rate	Growth							
No.	Name	Unit	Stage	1	2	3	4	5	6	7
1	CHECK UNTREATED			0	0	0	0	0	0	0
2	CORVUS	4 OZ/A	PRE	0	99	99	99	99	0	99
	AATREX	16 OZ/A	PRE							
3	CORVUS	5.6 OZ/A	PRE	0	99	99	99	99	0	99
	AATREX	16 OZ/A	PRE							
4	ACURON	48 OZ/A	PRE	0	99	99	99	99	0	99
5	ACURON	96 OZ/A	PRE	0	99	99	99	99	0	99
6	HARNESS	19.22 OZ/A	PRE	0	99	99	99	99	0	99
	CALLISTO	3.598 OZ/A	PRE							
	STINGER	3.037 OZ/A	PRE							
	AATREX	16 OZ/A	PRE							
7	HARNESS	38.45 OZ/A	PRE	0	99	99	99	99	0	99
	CALLISTO	7.196 OZ/A	PRE							
	STINGER	6.074 OZ/A	PRE							
	AATREX	16 OZ/A	PRE							
8	CORVUS	4 OZ/A	V2	0	99	99	99	99	0	99
	ROUNDUP WeatherMAX	12 OZ/A	V2							
	AATREX	16 OZ/A	V2							
9	ACURON	48 OZ/A	V2	0	99	99	99	99	0	99
	ROUNDUP WeatherMAX	12 OZ/A	V2							
10	HARNESS	19.22 OZ/A	V2	0	99	99	99	99	0	99
	CALLISTO	3.598 OZ/A	V2							
	STINGER	3.037 OZ/A	V2							
	ROUNDUP WeatherMAX	12 OZ/A	V2							
	AATREX	16 OZ/A	V2							
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 1,2,3,4,5,6,7,9,10,11,12,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	IPOSS	SETFA	AMBTR			
Pest Name	Giant ragweed common lambsquarters Morning glory			Giant foxtail Giant ragweed				
Crop Code	ZEAMX							
Crop Name	Corn							
Rating Date	6-19-2017	6-19-2017	6-19-2017	7-17-2017	7-17-2017			
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1			
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.	48 28	48 28	48 28	76 56	76 56			
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	69 DE-1	69 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Growth						
No. Name	Unit	Stage	8	9	10	11	12	13
1 CHECK UNTREATED			0	0	0	0	0	0
2 CORVUS	4 OZ/A PRE		90	99	99	0	99	90
AATREX	16 OZ/A PRE							
3 CORVUS	5.6 OZ/A PRE		90	99	99	0	99	90
AATREX	16 OZ/A PRE							
4 ACURON	48 OZ/A PRE		85	99	95	0	99	85
5 ACURON	96 OZ/A PRE		91	99	99	0	99	91
6 HARNESS	19.22 OZ/A PRE		90	99	99	0	99	90
CALLISTO	3.598 OZ/A PRE							
STINGER	3.037 OZ/A PRE							
AATREX	16 OZ/A PRE							
7 HARNESS	38.45 OZ/A PRE		95	99	95	0	99	95
CALLISTO	7.196 OZ/A PRE							
STINGER	6.074 OZ/A PRE							
AATREX	16 OZ/A PRE							
8 CORVUS	4 OZ/A V2		99	99	99	0	99	99
ROUNDUP WeatherMAX	12 OZ/A V2							
AATREX	16 OZ/A V2							
9 ACURON	48 OZ/A V2		99	99	99	0	99	99
ROUNDUP WeatherMAX	12 OZ/A V2							
10 HARNESS	19.22 OZ/A V2		95	99	99	0	99	95
CALLISTO	3.598 OZ/A V2							
STINGER	3.037 OZ/A V2							
ROUNDUP WeatherMAX	12 OZ/A V2							
AATREX	16 OZ/A V2							
LSD P=.05			2.0	.	.	.	.	2.0
Standard Deviation			1.1	0.0	0.0	0.0	0.0	1.1
CV			1.37	0.0	0.0	0.0	0.0	1.37
Replicate F			1.000	0.000	0.000	0.000	0.000	1.000
Replicate Prob(F)			0.3874	1.0000	1.0000	1.0000	1.0000	0.3874
Treatment F			2026.257	0.000	0.000	0.000	0.000	2026.257
Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	1.0000	0.0001

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

University of Kentucky

Pest Type	W Weed	W Weed		
Pest Code	CHEAL	IPOSS		
Pest Name	common lambsquarters	Morning glory		
Crop Code			ZEAMX	
Crop Name			Corn	
Rating Date	7-17-2017	7-17-2017	10-3-2017	
Rating Type	CONTROL	CONTROL	YIELD	
Rating Unit	PERCENT	PERCENT	BU	
Number of Subsamples	1	1	1	
Rating Timing	8 WEEK	8 WEEK		
Days After First/Last Applic.	76 56	76 56	154 134	
Days After Emergence	69 DE-1	69 DE-1	147 DE-1	
ARM Action Codes	P	P	TY1	
Number of Decimals	0	0	0	

Trt No.	Treatment Name	Rate	Growth Unit	Stage	14	15	19
1	CHECK UNTREATED				0	0	9
2	CORVUS	4 OZ/A	PRE		99	99	126
	AATREX	16 OZ/A	PRE				
3	CORVUS	5.6 OZ/A	PRE		99	99	155
	AATREX	16 OZ/A	PRE				
4	ACURON	48 OZ/A	PRE		99	95	121
5	ACURON	96 OZ/A	PRE		99	99	178
6	HARNESS	19.22 OZ/A	PRE		99	99	134
	CALLISTO	3.598 OZ/A	PRE				
	STINGER	3.037 OZ/A	PRE				
	AATREX	16 OZ/A	PRE				
7	HARNESS	38.45 OZ/A	PRE		99	95	139
	CALLISTO	7.196 OZ/A	PRE				
	STINGER	6.074 OZ/A	PRE				
	AATREX	16 OZ/A	PRE				
8	CORVUS	4 OZ/A	V2		99	99	177
	ROUNDUP WeatherMAX	12 OZ/A	V2				
	AATREX	16 OZ/A	V2				
9	ACURON	48 OZ/A	V2		99	99	190
	ROUNDUP WeatherMAX	12 OZ/A	V2				
10	HARNESS	19.22 OZ/A	V2		99	99	181
	CALLISTO	3.598 OZ/A	V2				
	STINGER	3.037 OZ/A	V2				
	ROUNDUP WeatherMAX	12 OZ/A	V2				
	AATREX	16 OZ/A	V2				
	LSD P=.05				.	.	15.0
	Standard Deviation				0.0	0.0	8.7
	CV				0.0	0.0	6.19
	Replicate F				0.000	0.000	0.935
	Replicate Prob(F)				1.0000	1.0000	0.4107
	Treatment F				0.000	0.000	109.074
	Treatment Prob(F)				1.0000	1.0000	0.0001

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

University of Kentucky

CORN POSTEMERGENCE III

Trial ID: C17011 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BAYER-CORN1 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE III

Trial ID: C17011 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-CORN1 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-3-2017

Trial Location

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

Latitude of LL Corner °: 38.11877 N
Longitude of LL Corner °: 84.49362 W

Directions:
 GPS coordinates taken at NW corner of study

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

University of Kentucky

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

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

Planting Date: 5-2-2017
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5-9-2017
Harvest Date: 10-3-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15.5

Soil Temperature, Unit: 59 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

Pest Description

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

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:** 10
Replications: 3
Site Type: FIELD field
Tillage Type: CONTIL conventional-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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

	A	B
Application Date:	5-2-2017	5-22-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V2
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	70 F	68 F
% Relative Humidity:	30	42
Wind Velocity, Unit:	10 MPH	3 MPH
Wind Direction:	W	NNE
Soil Temperature, Unit:	59 F	70 F
Soil Moisture:	GOOD	EXCELL
% Cloud Cover:	10	40
Next Moisture Occurred On:	5-4-2017	5-23-2017

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00 100	V2 95
Height, Unit:		6 IN

University of Kentucky

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	00	11 99
Stage Minimum, Percent:		10 1
Stage Maximum, Percent:		12 1
Diameter, Unit:		0.5 IN
Height, Unit:		1 IN
Height Minimum, Maximum:		0 1.5
Density, Unit:		4 1-10
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	00	11 99
Stage Minimum, Percent:		10 1
Stage Maximum, Percent:		12 1
Diameter, Unit:		3 IN
Height, Unit:		3 IN
Height Minimum, Maximum:		1 3
Density, Unit:		6 1-10
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	00	10 99
Stage Minimum, Percent:		09 1
Stage Maximum, Percent:		11 1
Diameter, Unit:		0.5 IN
Height, Unit:		1 IN
Height Minimum, Maximum:		0 1
Density, Unit:		6 1-10
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:	00	11 99
Stage Minimum, Percent:		10 1
Stage Maximum, Percent:		12 1
Diameter, Unit:		0.25 IN
Height, Unit:		0.5 IN
Height Minimum, Maximum:		0 0.75
Density, Unit:		5 1-10

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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 IV

Trial ID: C17012 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: FMC-CORN PRE Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATTHEW WIGGINS

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Giant foxtail Giant ragweed common lambsquarters Morning glory			
Crop Code	ZEAMX			ZEAMX
Crop Name	Corn			Corn
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017 6-19-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Number of Subsamples	1	1	1	1 1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK 2 WEEK 4 WEEK
Days After First/Last Applic.	34 4	34 4	34 4	34 4 34 4 48 18
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1 27 DE-1 41 DE-1
ARM Action Codes	P	P	P	P P P
Number of Decimals	0	0	0	0 0 0

Trt	Treatment	Rate	Growth	1	2	3	4	5	6
No.	Name	Rate Unit	Stage						
1	UNTREATED CHECK			0	0	0		0	0
2	ANTHEM MAXX	3.3 OZ/A	PRE	0	99	99		99	99
	ATRAZINE	1 LB A/A	PRE						
	SOLSTICE	2.5 OZ/A	V4						
	ATRAZINE	0.5 LB A/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
	AMS	8.5 LB/100 GAL	V4						
3	CRUSHER	1.5 OZ/A	PRE	0	99	99		99	99
	COC	1 % V/V	PRE						
	ANTHEM MAXX	2 OZ/A	V2						
	SOLSTICE	2.5 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
4	ANTHEM MAXX	2 OZ/A	V2	0	99	99		99	99
	SOLSTICE	2.5 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
5	ANTHEM MAXX	3.3 OZ/A	V2	0	99	99		99	99
	CALLISTO	3 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
6	HALEX GT	3.6 PT/A	V2	0	99	99		99	99
	COC	1 % 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
	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

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA
Pest Name	Giant foxtail	Giant ragweed common	lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-17-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	48 18	48 18	48 18	48 18	76 46
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	69 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

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	ANTHEM MAXX	3.3 OZ/A	PRE	99	99	99	99	0	99
	ATRAZINE	1 LB A/A	PRE						
	SOLSTICE	2.5 OZ/A	V4						
	ATRAZINE	0.5 LB A/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
	AMS	8.5 LB/100 GAL	V4						
3	CRUSHER	1.5 OZ/A	PRE	99	99	99	99	0	99
	COC	1 % V/V	PRE						
	ANTHEM MAXX	2 OZ/A	V2						
	SOLSTICE	2.5 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
4	ANTHEM MAXX	2 OZ/A	V2	99	99	99	99	0	99
	SOLSTICE	2.5 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
5	ANTHEM MAXX	3.3 OZ/A	V2	99	99	99	99	0	99
	CALLISTO	3 OZ/A	V2						
	ATRAZINE	1 LB A/A	V2						
	ROUNDUP POWERMAX	22 FL OZ/A	V2						
	COC	1 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
6	HALEX GT	3.6 PT/A	V2	99	99	99	99	0	99
	COC	1 % 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

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

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7-17-2017	7-17-2017	7-17-2017	10-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	76 46	76 46	76 46	154 124
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	147 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	19
1	UNTREATED CHECK				0	0	0	14
2	ANTHEM MAXX	3.3 OZ/A		PRE	99	99	99	195
	ATRAZINE	1 LB A/A		PRE				
	SOLSTICE	2.5 OZ/A		V4				
	ATRAZINE	0.5 LB A/A		V4				
	ROUNDUP POWERMAX	22 FL OZ/A		V4				
	COC	1 % V/V		V4				
	AMS	8.5 LB/100 GAL		V4				
3	CRUSHER	1.5 OZ/A		PRE	99	99	99	184
	COC	1 % V/V		PRE				
	ANTHEM MAXX	2 OZ/A		V2				
	SOLSTICE	2.5 OZ/A		V2				
	ATRAZINE	1 LB A/A		V2				
	ROUNDUP POWERMAX	22 FL OZ/A		V2				
	COC	1 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
4	ANTHEM MAXX	2 OZ/A		V2	99	99	99	188
	SOLSTICE	2.5 OZ/A		V2				
	ATRAZINE	1 LB A/A		V2				
	ROUNDUP POWERMAX	22 FL OZ/A		V2				
	COC	1 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
5	ANTHEM MAXX	3.3 OZ/A		V2	99	99	99	191
	CALLISTO	3 OZ/A		V2				
	ATRAZINE	1 LB A/A		V2				
	ROUNDUP POWERMAX	22 FL OZ/A		V2				
	COC	1 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
6	HALEX GT	3.6 PT/A		V2	99	99	99	183
	COC	1 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
	LSD P=.05				.	.	.	12.9
	Standard Deviation				0.0	0.0	0.0	7.1
	CV				0.0	0.0	0.0	4.47
	Replicate F				0.000	0.000	0.000	0.950
	Replicate Prob(F)				1.0000	1.0000	1.0000	0.4189
	Treatment F				0.000	0.000	0.000	301.109
	Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001

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University of Kentucky

CORN POSTEMERGENCE IV

Trial ID: C17012 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: FMC-CORN PRE Investigator: Sara Carter
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: MATTHEW WIGGINS

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE IV

Trial ID: C17012 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: FMC-CORN PRE Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATTHEW WIGGINS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-3-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-9-2017
Harvest Date: 10-3-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 59 F **Harvest Equipment:** MASSEY FERGUSON 8XP
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	5-2-2017	5-22-2017	6-1-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V4
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA
Air Temperature, Unit:	70 F	68 F	75 F
% Relative Humidity:	30	42	55
Wind Velocity, Unit:	10 MPH	3 MPH	4 MPH
Wind Direction:	W	NNE	WSW
Soil Temperature, Unit:	59 F	70 F	71 F
Soil Moisture:	GOOD	EXCELL	GOOD
% Cloud Cover:	10	40	20
Next Moisture Occurred On:	5-4-2017	5-23-2017	6-5-2017

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	4 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:	3 IN	4 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	5 IN	5 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	2 IN	33 IN	33 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	2 IN	2 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:	20 IN	20 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

University of Kentucky

CORN POSTEMERGENCE V

Trial ID: C17014 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: MON-24-01 CORN Investigator: Sara Carter
 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 lambsquarters Morning glory			
Crop Code	ZEAMX			
Crop Name	Corn			
Rating Date	5-16-2017	5-16-2017	5-16-2017	5-16-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	AFTER PRE	AFTER PRE	AFTER PRE	AFTER PRE
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 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	1	2	3	4	5	6
1	DEGREE XTRA	3	QT/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	QT/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	3	% V/V	LP						
2	TRIPLEFLEX II	1	QT/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	QT/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5	% V/V	LP						
3	HARNESS MAX	64	FL OZ/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	QT/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5	% V/V	LP						
4	ACURON	3	QT/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5	% V/V	LP						
5	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	QT/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5	% V/V	LP						
6	RESICORE	2.25	QT/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	QT/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5	% V/V	LP						
7	TRIPLEFLEX II	1	QT/A	EP	0	99	99	99	99	0
	ATRAZINE	1	QT/A	EP						
	ROUNDUP POWERMAX	32	FL OZ/A	EP						
	N-PAK AMS LIQUID	2.5	% V/V	EP						
8	HARNESS MAX	40	FL OZ/A	EP	0	99	99	99	99	0
	ATRAZINE	1	QT/A	EP						
	ROUNDUP POWERMAX	32	FL OZ/A	EP						
	N-PAK AMS LIQUID	2	% V/V	EP						
9	HALEX GT	1.8	QT/A	EP	0	99	99	99	99	0
	ATRAZINE	1	QT/A	EP						
	PREFERENCE	0.25	LB A/A	EP						
	N-PAK AMS LIQUID	2.5	% V/V	EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 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	lambsquarters	Morning glory
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	5-16-2017	5-16-2017	5-16-2017	5-16-2017	5-16-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	AFTER PRE	AFTER PRE	AFTER PRE	AFTER PRE	AFTER POST
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 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	1	2	3	4	5	6
10	RESICORE	1.25	QT/A	EP	0	99	99	99	99	0
	DURANGO DMA	30	FL OZ/A	EP						
	ATRAZINE	1	QT/A	EP						
	N-PAK AMS LIQUID	2.5	% V/V	EP						
11	REALM Q	4	OZ WT/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	QT/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	EP						
	N-PAK AMS LIQUID	2.5	% V/V	EP						
12	HARNESS MAX	64	FL OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32	FL OZ/A	EP						
	ATRAZINE	1	QT/A	EP						
	N-PAK AMS LIQUID	2.5	% V/V	EP						
13	ROUNDUP POWERMAX	32	FL OZ/A	EP	0	99	99	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	EP						
	ROUNDUP POWERMAX	32	FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5	% V/V	LP						
	ROUNDUP POWERMAX	32	FL OZ/A	IFN						
	N-PAK AMS LIQUID	2.5	% V/V	IFN						
14	UNTREATED				0	0	0	0	0	0
15	ANTHEM MAXX	3.3	OZ/A	PRE	0	99	99	99	99	0
	ATRAZINE	1	LB AI/A	PRE						
	SOLSTICE	2.5	OZ/A	V4						
	AATREX	0.5	LB AI/A	V4						
	ROUNDUP POWERMAX	32	FL OZ/A	V4						
	COC	1	% V/V	V4						
	AMS	8.5	LB/100 GAL	V4						
16	ARMEZON PRO	16	FL OZ/A	V2	0	99	99	99	99	0
	ATRAZINE	16	FL OZ/A	V2						
	ROUNDUP POWERMAX	32	FL OZ/A	V2						
	PREFERENCE	0.25	% 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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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	lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-16-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	31 11	31 11	31 11	31 11	45 10
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	38 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	7	8	9	10	11	
1	DEGREE XTRA	3 QT/A		PRE	99	95		99	95	0
	ATRAZINE	1 QT/A		PRE						
	ROUNDUP POWERMAX	32 FL OZ/A		LP						
	N-PAK AMS LIQUID	3 % V/V		LP						
2	TRIPLEFLEX II	1 QT/A		PRE	99	99		99	99	0
	ATRAZINE	1 QT/A		PRE						
	ROUNDUP POWERMAX	32 FL OZ/A		LP						
	N-PAK AMS LIQUID	2.5 % V/V		LP						
3	HARNESS MAX	64 FL OZ/A		PRE	99	99		99	99	0
	ATRAZINE	1 QT/A		PRE						
	ROUNDUP POWERMAX	32 FL OZ/A		LP						
	N-PAK AMS LIQUID	2.5 % V/V		LP						
4	ACURON	3 QT/A		PRE	99	99		99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A		LP						
	N-PAK AMS LIQUID	2.5 % V/V		LP						
5	CORVUS HERBICIDE	5.6 FL OZ/A		PRE	99	99		99	99	0
	ATRAZINE	1 QT/A		PRE						
	ROUNDUP POWERMAX	32 FL OZ/A		LP						
	N-PAK AMS LIQUID	2.5 % V/V		LP						
6	RESICORE	2.25 QT/A		PRE	99	99		99	99	0
	ATRAZINE	1 QT/A		PRE						
	ROUNDUP POWERMAX	32 FL OZ/A		LP						
	N-PAK AMS LIQUID	2.5 % V/V		LP						
7	TRIPLEFLEX II	1 QT/A		EP	99	95		99	95	0
	ATRAZINE	1 QT/A		EP						
	ROUNDUP POWERMAX	32 FL OZ/A		EP						
	N-PAK AMS LIQUID	2.5 % V/V		EP						
8	HARNESS MAX	40 FL OZ/A		EP	99	99		99	99	0
	ATRAZINE	1 QT/A		EP						
	ROUNDUP POWERMAX	32 FL OZ/A		EP						
	N-PAK AMS LIQUID	2 % V/V		EP						
9	HALEX GT	1.8 QT/A		EP	99	90		99	90	0
	ATRAZINE	1 QT/A		EP						
	PREFERENCE	0.25 LB A/A		EP						
	N-PAK AMS LIQUID	2.5 % V/V		EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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	lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-16-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	31 11	31 11	31 11	31 11	45 10
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	38 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	7	8	9	10	11	
10	RESICORE	1.25 QT/A	EP	99	95		99	95	0
	DURANGO DMA	30 FL OZ/A	EP						
	ATRAZINE	1 QT/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
11	REALM Q	4 OZ WT/A	PRE	99	90		99	95	0
	ATRAZINE	1 QT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
12	HARNESS MAX	64 FL OZ/A	PRE	99	95		99	95	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	ATRAZINE	1 QT/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
13	ROUNDUP POWERMAX	32 FL OZ/A	EP	99	99		99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5 % V/V	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	IFN						
	N-PAK AMS LIQUID	2.5 % V/V	IFN						
14	UNTREATED			0	0		0	0	0
15	ANTHEM MAXX	3.3 OZ/A	PRE	99	99		99	99	0
	ATRAZINE	1 LB A/A	PRE						
	SOLSTICE	2.5 OZ/A	V4						
	AATREX	0.5 LB A/A	V4						
	ROUNDUP POWERMAX	32 FL OZ/A	V4						
	COC	1 % V/V	V4						
	AMS	8.5 LB/100 GAL	V4						
16	ARMEZON PRO	16 FL OZ/A	V2	99	99		99	99	0
	ATRAZINE	16 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	PREFERENCE	0.25 % 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
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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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	lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-16-2017	6-16-2017	6-16-2017	6-16-2017	7-17-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	45 10	45 10	45 10	45 10	76 41
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	69 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	12	13	14	15	16
1	DEGREE XTRA	3 QT/A		PRE	99	95	99	95	0
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	3 % V/V		LP					
2	TRIPLEFLEX II	1 QT/A		PRE	99	99	99	99	0
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
3	HARNESS MAX	64 FL OZ/A		PRE	99	99	99	99	0
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
4	ACURON	3 QT/A		PRE	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
5	CORVUS HERBICIDE	5.6 FL OZ/A		PRE	99	99	99	99	0
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
6	RESICORE	2.25 QT/A		PRE	99	99	99	99	0
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
7	TRIPLEFLEX II	1 QT/A		EP	99	95	99	95	0
	ATRAZINE	1 QT/A		EP					
	ROUNDUP POWERMAX	32 FL OZ/A		EP					
	N-PAK AMS LIQUID	2.5 % V/V		EP					
8	HARNESS MAX	40 FL OZ/A		EP	99	99	99	99	0
	ATRAZINE	1 QT/A		EP					
	ROUNDUP POWERMAX	32 FL OZ/A		EP					
	N-PAK AMS LIQUID	2 % V/V		EP					
9	HALEX GT	1.8 QT/A		EP	99	90	99	90	0
	ATRAZINE	1 QT/A		EP					
	PREFERENCE	0.25 LB A/A		EP					
	N-PAK AMS LIQUID	2.5 % V/V		EP					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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 lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-16-2017	6-16-2017	6-16-2017	6-16-2017	7-17-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	45 10	45 10	45 10	45 10	76 41
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	69 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	12	13	14	15	16	
10	RESICORE	1.25 QT/A	EP	99	95		99	95	0
	DURANGO DMA	30 FL OZ/A	EP						
	ATRAZINE	1 QT/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
11	REALM Q	4 OZ WT/A	PRE	99	90		99	95	0
	ATRAZINE	1 QT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
12	HARNESS MAX	64 FL OZ/A	PRE	99	95		99	95	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	ATRAZINE	1 QT/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
13	ROUNDUP POWERMAX	32 FL OZ/A	EP	99	99		99	99	0
	N-PAK AMS LIQUID	2.5 % V/V	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5 % V/V	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	IFN						
	N-PAK AMS LIQUID	2.5 % V/V	IFN						
14	UNTREATED			0	0		0	0	0
15	ANTHEM MAXX	3.3 OZ/A	PRE	99	99		99	99	0
	ATRAZINE	1 LB A/A	PRE						
	SOLSTICE	2.5 OZ/A	V4						
	AATREX	0.5 LB A/A	V4						
	ROUNDUP POWERMAX	32 FL OZ/A	V4						
	COC	1 % V/V	V4						
	AMS	8.5 LB/100 GAL	V4						
16	ARMEZON PRO	16 FL OZ/A	V2	99	99		99	99	0
	ATRAZINE	16 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	PREFERENCE	0.25 % 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
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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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	lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	7-17-2017	7-17-2017	7-17-2017	7-17-2017	10-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	76 41	76 41	76 41	76 41	155 120
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	69 DE-1	148 DE-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	17	18	19	20	24
1	DEGREE XTRA	3 QT/A		PRE	99	95	99	95	173
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	3 % V/V		LP					
2	TRIPLEFLEX II	1 QT/A		PRE	99	90	99	90	182
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
3	HARNESS MAX	64 FL OZ/A		PRE	99	90	99	90	176
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
4	ACURON	3 QT/A		PRE	99	95	99	95	191
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
5	CORVUS HERBICIDE	5.6 FL OZ/A		PRE	99	95	99	95	199
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
6	RESICORE	2.25 QT/A		PRE	99	95	99	95	184
	ATRAZINE	1 QT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		LP					
	N-PAK AMS LIQUID	2.5 % V/V		LP					
7	TRIPLEFLEX II	1 QT/A		EP	99	90	99	90	191
	ATRAZINE	1 QT/A		EP					
	ROUNDUP POWERMAX	32 FL OZ/A		EP					
	N-PAK AMS LIQUID	2.5 % V/V		EP					
8	HARNESS MAX	40 FL OZ/A		EP	99	95	99	95	184
	ATRAZINE	1 QT/A		EP					
	ROUNDUP POWERMAX	32 FL OZ/A		EP					
	N-PAK AMS LIQUID	2 % V/V		EP					
9	HALEX GT	1.8 QT/A		EP	99	88	99	88	190
	ATRAZINE	1 QT/A		EP					
	PREFERENCE	0.25 LB A/A		EP					
	N-PAK AMS LIQUID	2.5 % V/V		EP					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

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 lambsquarters	Morning glory	
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	7-17-2017	7-17-2017	7-17-2017	7-17-2017	10-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	76 41	76 41	76 41	76 41	155 120
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	69 DE-1	148 DE-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	17	18	19	20	24	
10	RESICORE	1.25 QT/A	EP	99	95		99	95	207
	DURANGO DMA	30 FL OZ/A	EP						
	ATRAZINE	1 QT/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
11	REALM Q	4 OZ WT/A	PRE	99	90		99	95	198
	ATRAZINE	1 QT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
12	HARNESS MAX	64 FL OZ/A	PRE	99	90		99	90	193
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	ATRAZINE	1 QT/A	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
13	ROUNDUP POWERMAX	32 FL OZ/A	EP	99	99		99	99	171
	N-PAK AMS LIQUID	2.5 % V/V	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
	N-PAK AMS LIQUID	2.5 % V/V	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	IFN						
	N-PAK AMS LIQUID	2.5 % V/V	IFN						
14	UNTREATED			0	0		0	0	16
15	ANTHEM MAXX	3.3 OZ/A	PRE	99	90		99	90	170
	ATRAZINE	1 LB A/A	PRE						
	SOLSTICE	2.5 OZ/A	V4						
	AATREX	0.5 LB A/A	V4						
	ROUNDUP POWERMAX	32 FL OZ/A	V4						
	COC	1 % V/V	V4						
	AMS	8.5 LB/100 GAL	V4						
16	ARMEZON PRO	16 FL OZ/A	V2	99	90		99	90	159
	ATRAZINE	16 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	PREFERENCE	0.25 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
	LSD P=.05			.	.		.	.	7.3
	Standard Deviation			0.0	0.0		0.0	0.0	4.4
	CV			0.0	0.0		0.0	0.0	2.53
	Replicate F			0.000	0.000		0.000	0.000	2.998
	Replicate Prob(F)			1.0000	1.0000		1.0000	1.0000	0.0650
	Treatment F			0.000	0.000		0.000	0.000	296.848
	Treatment Prob(F)			1.0000	1.0000		1.0000	1.0000	0.0001

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 because error mean square = 0.

University of Kentucky

CORN POSTEMERGENCE V

Trial ID: C17014 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: MON-24-01 CORN Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

$TY1 = 4.093985 * [22] * (100 - [23]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE V

Trial ID: C17014 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: MON-24-01 CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-4-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Emergence Date: 5-9-2017
Harvest Date: 10-4-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 62 F **Harvest Equipment:** MASSEY FERGUSON 8XP
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 16 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C	D
Application Date:	5-2-2017	5-19-2017	5-22-2017	6-6-2017
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP/V2	LP/V4	IFN
Application Placement:	BROSOI	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	SARA
Air Temperature, Unit:	70 F	72 F	68 F	68 F
% Relative Humidity:	30	71	42	50
Wind Velocity, Unit:	10 MPH	6 MPH	3 MPH	4 MPH
Wind Direction:	W	SSW	NNE	SW
Soil Temperature, Unit:	62 F	72 F	70 F	70 F
Soil Moisture:	GOOD	GOOD	EXCELL	EXCELL
% Cloud Cover:	10	30	40	30
Next Moisture Occurred On:	5-4-2017	5-20-2017	5-23-2017	6-13-2017

University of Kentucky

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH		BBCH	
Stage Majority, Percent:	V2	95	V4	95	V6	95	V6	95
Height, Unit:	4	IN	6	IN	10	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	3	IN	5	IN	5	IN
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:	3	IN	4	IN	6	IN	6	IN
Pest 3 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Height, Unit:	1	IN	2	IN	4	IN	4	IN
Pest 4 Code, Type, Scale:	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W
Height, Unit:	1	IN	1.5	IN	3	IN	3	IN

Application Equipment

	A		B		C		D	
Appl. Equipment:	ATV		ATV		ATV		BACKPACK	
Equipment Type:							BELSPR	
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:	10	FT	10	FT	10	FT	10	FT
Boom Height, Unit:	20	IN	20	IN	20	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:	3	liters	3	liters	3	liters	3	liters
Propellant:	CO2		CO2		CO2		CO2	

University of Kentucky

CORN POSTEMERGENCE VI

Trial ID: C17015 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-PRE-CORN Investigator: Sara Carter
 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	CHEAL	IPOSS	
Pest Name		Giant foxtail Giant ragweed common lambsquarters Morning glory				
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5-16-2017	5-16-2017	5-16-2017	5-16-2017	5-16-2017	6-1-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	30 30
Trt-Eval Interval	AFTER PRE					AF PRE/AT P
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 DE-1	23 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,10,11,12,14 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 lambsquarters Morning glory			
Crop Code	ZEAMX				ZEAMX
Crop Name	Corn				Corn
Rating Date	5-16-2017	5-16-2017	5-16-2017	5-16-2017	5-16-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	AFTER PRE				AF PRE/AT P
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 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	6	
9	ANTHEM MAXX	3.3 OZ/A	PRE	0	99	99		99	99	0
	AATREX	1 LB AI/A	PRE							
	SOLSTICE	2.5 OZ/A	V4							
	AATREX	0.5 LB AI/A	V4							
	ROUNDUP POWERMAX	32 FL OZ/A	V4							
	COC	1% V/V	V4							
	AMS	8.5 LB/100 GAL	V4							
10	KFD-274-01	64 FL OZ/A	PRE	0	99	99		99	99	0
	ATRAZINE	24 FL OZ/A	PRE							
11	KFD-274-01	64 FL OZ/A	PRE	0	99	99		99	99	0
	METRICOR	12 FL OZ/A	PRE							
12	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

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	SETFA
Pest Name	Giant foxtail	Giant ragweed common	lambsquarters	Morning glory	Giant foxtail	Giant foxtail
Crop Code					ZEAMX	ZEAMX
Crop Name					Corn	Corn
Rating Date	6-1-2017	6-1-2017	6-1-2017	6-1-2017	6-29-2017	6-29-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30	58 28	58 28
Trt-Eval Interval					AF PRE/AT P	AF PRE/AT P
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	51 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12
1	ACURON	2.5	QT/A	PRE	99	87	99	99	0	99
	AATREX	1.5	QT/A	PRE						
2	ACURON	2.5	QT/A	PRE	99	85	99	90	0	99
	PRINCEP	1	QT/A	PRE						
3	ACURON	1.5	QT/A	PRE	99	95	99	95	0	99
	AATREX	1.5	QT/A	PRE						
	HALEX GT	3.6	PT/A	12C						
	AATREX	1.5	PT/A	12C						
	AMS	2.5	% V/V	12C						
	NIS	0.25	% V/V	12C						
4	ACURON	1.25	QT/A	PRE	99	95	99	95	0	99
	AATREX	1	PT/A	PRE						
	ACURON	1.25	QT/A	12C						
	AATREX	1	PT/A	12C						
5	ACURON	1.25	QT/A	PRE	99	96	99	99	0	99
	AATREX	1	PT/A	PRE						
	ACURON	1.25	QT/A	12C						
	AATREX	1	PT/A	12C						
	ROUNDUP POWERMAX	32	FL OZ/A	12C						
6	RESICORE	1.5	QT/A	PRE	99	96	99	99	0	99
	RESICORE	1.5	QT/A	12C						
	AMS	2.5	% V/V	12C						
	NIS	0.25	% V/V	12C						
7	CORVUS	3.3	FL OZ/A	PRE	99	92	99	99	0	99
	CAPRENO HERBICIDE	3	FL OZ/A	12C						
	DIFLEXX	8	FL OZ/A	12C						
	AATREX	1	QT/A	12C						
	ROUNDUP POWERMAX	32	FL OZ/A	12C						
	AMS	2.5	% V/V	12C						
	NIS	0.25	% V/V	12C						
8	RESICORE	1.5	QT/A	PRE	99	96	99	99	0	99
	RESICORE	1.5	QT/A	12C						
	ROUNDUP POWERMAX	32	FL OZ/A	12C						
	AMS	2.5	% V/V	12C						

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	SETFA
Pest Name	Giant foxtail	Giant ragweed	common lambsquarters	Morning glory	Giant foxtail	Giant foxtail
Crop Code					ZEAMX	ZEAMX
Crop Name					Corn	Corn
Rating Date	6-1-2017	6-1-2017	6-1-2017	6-1-2017	6-29-2017	6-29-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30	58 28	58 28
Trt-Eval Interval					AF PRE/AT P	AF PRE/AT P
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	51 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
9 ANTHEM MAXX	3.3 OZ/A	PRE	99	96	99	99	0	99
AATREX	1 LB AI/A	PRE						
SOLSTICE	2.5 OZ/A	V4						
AATREX	0.5 LB AI/A	V4						
ROUNDUP POWERMAX	32 FL OZ/A	V4						
COC	1% V/V	V4						
AMS	8.5 LB/100 GAL	V4						
10 KFD-274-01	64 FL OZ/A	PRE	99	90	99	85	0	99
ATRAZINE	24 FL OZ/A	PRE						
11 KFD-274-01	64 FL OZ/A	PRE	99	85	99	95	0	99
METRICOR	12 FL OZ/A	PRE						
12 UNTREATED CHECK			0	0	0	0	0	0
LSD P=.05			.	3.7	.	.	.	.
Standard Deviation			0.0	2.2	0.0	0.0	0.0	0.0
CV			0.0	2.59	0.0	0.0	0.0	0.0
Replicate F			0.000	1.063	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	0.3624	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	456.945	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 1,2,3,4,5,6,7,9,10,11,12,14 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	6-29-2017	6-29-2017	6-29-2017	10-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	58 28	58 28	58 28	155 125
Trt-Eval Interval				
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	148 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	19
1	ACURON	2.5	QT/A	PRE	87		99	140
	AATREX	1.5	QT/A	PRE				
2	ACURON	2.5	QT/A	PRE	82		99	151
	PRINCEP	1	QT/A	PRE				
3	ACURON	1.5	QT/A	PRE	95		99	201
	AATREX	1.5	QT/A	PRE				
	HALEX GT	3.6	PT/A	12C				
	AATREX	1.5	PT/A	12C				
	AMS	2.5	% V/V	12C				
	NIS	0.25	% V/V	12C				
4	ACURON	1.25	QT/A	PRE	95		99	212
	AATREX	1	PT/A	PRE				
	ACURON	1.25	QT/A	12C				
	AATREX	1	PT/A	12C				
5	ACURON	1.25	QT/A	PRE	95		99	197
	AATREX	1	PT/A	PRE				
	ACURON	1.25	QT/A	12C				
	AATREX	1	PT/A	12C				
	ROUNDUP POWERMAX	32	FL OZ/A	12C				
6	RESICORE	1.5	QT/A	PRE	96		99	186
	RESICORE	1.5	QT/A	12C				
	AMS	2.5	% V/V	12C				
	NIS	0.25	% V/V	12C				
7	CORVUS	3.3	FL OZ/A	PRE	90		99	194
	CAPRENO HERBICIDE	3	FL OZ/A	12C				
	DIFLEXX	8	FL OZ/A	12C				
	AATREX	1	QT/A	12C				
	ROUNDUP POWERMAX	32	FL OZ/A	12C				
	AMS	2.5	% V/V	12C				
	NIS	0.25	% V/V	12C				
8	RESICORE	1.5	QT/A	PRE	95		99	192
	RESICORE	1.5	QT/A	12C				
	ROUNDUP POWERMAX	32	FL OZ/A	12C				
	AMS	2.5	% V/V	12C				

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	CHEAL	IPOSS	
Pest Name		Giant ragweed common lambsquarters Morning glory			
Crop Code					ZEAMX
Crop Name					Corn
Rating Date		6-29-2017	6-29-2017	6-29-2017	10-4-2017
Rating Type		CONTROL	CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	PERCENT	BU
Number of Subsamples		1	1	1	1
Rating Timing		8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.		58 28	58 28	58 28	155 125
Trt-Eval Interval					
Days After Emergence		51 DE-1	51 DE-1	51 DE-1	148 DE-1
ARM Action Codes		P	P	P	TY1
Number of Decimals		0	0	0	0
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	13	14	15 19
9 ANTHEM MAXX	3.3 OZ/A	PRE	95	99	98 181
AATREX	1 LB A/A	PRE			
SOLSTICE	2.5 OZ/A	V4			
AATREX	0.5 LB A/A	V4			
ROUNDUP POWERMAX	32 FL OZ/A	V4			
COC	1 % V/V	V4			
AMS	8.5 LB/100 GAL	V4			
10 KFD-274-01	64 FL OZ/A	PRE	87	99	85 167
ATRAZINE	24 FL OZ/A	PRE			
11 KFD-274-01	64 FL OZ/A	PRE	85	99	95 172
METRICOR	12 FL OZ/A	PRE			
12 UNTREATED CHECK			0	0	0 22
LSD P=.05			2.5	.	1.1 13.2
Standard Deviation			1.5	0.0	0.7 7.8
CV			1.8	0.0	0.76 4.65
Replicate F			0.086	0.000	1.000 5.174
Replicate Prob(F)			0.9177	1.0000	0.3840 0.0144
Treatment F			951.600	0.000	5278.205 125.295
Treatment Prob(F)			0.0001	1.0000	0.0001 0.0001

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

University of Kentucky

CORN POSTEMERGENCE VI

Trial ID: C17015 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: SYN-PRE-CORN Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE VI

Trial ID: C17015 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-PRE-CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-4-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-9-2017
Harvest Date: 10-4-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 59 F **Harvest Equipment:** MASSEY FERGUSON 8XP
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 12 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	5-2-2017	6-1-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C-V4
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	70 F	72 F
% Relative Humidity:	30	50
Wind Velocity, Unit:	10 MPH	4 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	59 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	20
Next Moisture Occurred On:	5-4-2017	6-5-2017

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V4	98
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:	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:	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

Date	By	Notes
6-20-2017	SARA	OVERSPRAYED TREATMENTS 10 & 11 WITH ROUNDUP PER SPONSOR REQUEST

University of Kentucky

CORN POSTEMERGENCE VI

Trial ID: C17016 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BASF-CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

Pest Type	W Weed		W Weed		W Weed		W Weed	
Pest Code	SETFA		AMBTR		CHEAL		IPOSS	
Pest Name	Giant foxtail		Giant ragweed		common lambsquarters		Morning glory	
Crop Code	ZEAMX						ZEAMX	
Crop Name	Corn						Corn	
Rating Date	6-15-2017		6-15-2017		6-15-2017		6-15-2017 6-29-2017	
Rating Type	INJURY		CONTROL		CONTROL		CONTROL INJURY	
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT PERCENT	
Number of Subsamples	1		1		1		1	
Rating Timing	2 WEEK		2 WEEK		2 WEEK		2 WEEK 4 WEEK	
Days After First/Last Applic.	24 14		24 14		24 14		24 14 38 28	
Days After Emergence	37 DE-1		37 DE-1		37 DE-1		37 DE-1 51 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	1	2	3	4	5	6
1	CHECK				0	0	0		0	0
2	ARMEZON PRO	16 FL OZ/A		V2	0	99	99		99	99
	ATRAZINE	16 FL OZ/A		V2						
	ROUNDUP POWERMAX	32 FL OZ/A		V2						
	PREFERENCE	0.25 % V/V		V2						
	AMS	8.5 LB/100 GAL		V2						
3	ARMEZON PRO	16 FL OZ/A		V2	0	99	99		99	99
	ATRAZINE	16 FL OZ/A		V2						
	ROUNDUP POWERMAX	32 FL OZ/A		V2						
	SUPERB HC	0.5 % V/V		V2						
	AMS	8.5 LB/100 GAL		V2						
4	ARMEZON PRO	16 FL OZ/A		V2	0	99	99		99	99
	ENGENIA	6.4 FL OZ/A		V2						
	ROUNDUP POWERMAX	32 FL OZ/A		V2						
	SUPERB HC	0.5 % V/V		V2						
	NON AMMONIA WATER COND	8.5 LB/100 GAL		V2						
5	ARMEZON PRO	16 FL OZ/A		V2	0	99	99		99	99
	ENGENIA	6.4 FL OZ/A		V2						
	ROUNDUP POWERMAX	32 FL OZ/A		V2						
	PREFERENCE	0.25 % V/V		V2						
	NON AMMONIA WATER COND	8.5 LB/100 GAL		V2						
6	ACURON	48 FL OZ/A		V2	0	99	99		99	99
	ROUNDUP POWERMAX	32 FL OZ/A		V2						
	SUPERB HC	0.5 % V/V		V2						
	AMS	8.5 LB/100 GAL		V2						
7	RESICORE	40 FL OZ/A		V2	0	99	99		99	99
	ATRAZINE	16 FL OZ/A		V2						
	ROUNDUP POWERMAX	32 FL OZ/A		V2						
	SUPERB HC	0.25 % V/V		V2						
	AMS	8.5 LB/100 GAL		V2						
8	HALEX GT	57.6 FL OZ/A		V5	0	99	99		99	99
	ROUNDUP POWERMAX	32 FL OZ/A		V5						
	PREFERENCE	0.25 % V/V		V5						
	AMS	8.5 LB/100 GAL		V5						
9	ARMEZON PRO	16 FL OZ/A		V5	0	99	99		99	99
	ROUNDUP POWERMAX	32 FL OZ/A		V5						
	MSO	1 % V/V		V5						
	AMS	8.5 LB/100 GAL		V5						

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

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 lambsquarters	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-29-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	24 14	24 14	24 14	24 14	24 14	38 28
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Growth Stage	1	2	3	4	5	6	
10 ACURON FLEXI	36 FL OZ/A	V5	0	99	99		99	99	0
ROUNDUP POWERMAX	32 FL OZ/A	V5							
PREFERENCE	0.25 % V/V	V5							
AMS	8.5 LB/100 GAL	V5							
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 1,2,3,4,5,6,7,8,9,11,12,13,14 because error mean square = 0.

University of Kentucky

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 lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-29-2017	6-29-2017	6-29-2017	6-29-2017	7-27-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	38 28	38 28	38 28	38 28	66 56
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1	79 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

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 FL OZ/A	V2	99	95	99	95	0	99
	ATRAZINE	16 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	PREFERENCE	0.25 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
3	ARMEZON PRO	16 FL OZ/A	V2	99	90	99	95	0	99
	ATRAZINE	16 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	SUPERB HC	0.5 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
4	ARMEZON PRO	16 FL OZ/A	V2	99	95	99	90	0	99
	ENGENIA	6.4 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	SUPERB HC	0.5 % V/V	V2						
	NON AMMONIA WATER COND	8.5 LB/100 GAL	V2						
5	ARMEZON PRO	16 FL OZ/A	V2	99	90	99	95	0	99
	ENGENIA	6.4 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	PREFERENCE	0.25 % V/V	V2						
	NON AMMONIA WATER COND	8.5 LB/100 GAL	V2						
6	ACURON	48 FL OZ/A	V2	99	90	99	96	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	SUPERB HC	0.5 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
7	RESICORE	40 FL OZ/A	V2	99	99	99	99	0	99
	ATRAZINE	16 FL OZ/A	V2						
	ROUNDUP POWERMAX	32 FL OZ/A	V2						
	SUPERB HC	0.25 % V/V	V2						
	AMS	8.5 LB/100 GAL	V2						
8	HALEX GT	57.6 FL OZ/A	V5	99	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V5						
	PREFERENCE	0.25 % V/V	V5						
	AMS	8.5 LB/100 GAL	V5						
9	ARMEZON PRO	16 FL OZ/A	V5	99	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V5						
	MSO	1 % V/V	V5						
	AMS	8.5 LB/100 GAL	V5						

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

University of Kentucky

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 lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-29-2017	6-29-2017	6-29-2017	6-29-2017	7-27-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	38 28	38 28	38 28	38 28	66 56
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1	79 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
10 ACURON FLEXI	36 FL OZ/A	V5	99	99	99	99	0	99
ROUNDUP POWERMAX	32 FL OZ/A	V5						
PREFERENCE	0.25 % V/V	V5						
AMS	8.5 LB/100 GAL	V5						
LSD P=.05			.	.	.	1.3	.	.
Standard Deviation			0.0	0.0	0.0	0.7	0.0	0.0
CV			0.0	0.0	0.0	0.84	0.0	0.0
Replicate F			0.000	0.000	0.000	1.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	0.3874	1.0000	1.0000
Treatment F			0.000	0.000	0.000	5270.251	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001	1.0000	1.0000

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7-27-2017	7-27-2017	7-27-2017	10-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	66 56	66 56	66 56	135 125
Days After Emergence	79 DE-1	79 DE-1	79 DE-1	148 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	19
1	CHECK				0	0	0	21
2	ARMEZON PRO	16 FL OZ/A		V2	90	99	90	168
	ATRAZINE	16 FL OZ/A		V2				
	ROUNDUP POWERMAX	32 FL OZ/A		V2				
	PREFERENCE	0.25 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
3	ARMEZON PRO	16 FL OZ/A		V2	88	99	87	166
	ATRAZINE	16 FL OZ/A		V2				
	ROUNDUP POWERMAX	32 FL OZ/A		V2				
	SUPERB HC	0.5 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
4	ARMEZON PRO	16 FL OZ/A		V2	90	99	90	155
	ENGENIA	6.4 FL OZ/A		V2				
	ROUNDUP POWERMAX	32 FL OZ/A		V2				
	SUPERB HC	0.5 % V/V		V2				
	NON AMMONIA WATER COND	8.5 LB/100 GAL		V2				
5	ARMEZON PRO	16 FL OZ/A		V2	90	99	95	196
	ENGENIA	6.4 FL OZ/A		V2				
	ROUNDUP POWERMAX	32 FL OZ/A		V2				
	PREFERENCE	0.25 % V/V		V2				
	NON AMMONIA WATER COND	8.5 LB/100 GAL		V2				
6	ACURON	48 FL OZ/A		V2	90	99	96	210
	ROUNDUP POWERMAX	32 FL OZ/A		V2				
	SUPERB HC	0.5 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
7	RESICORE	40 FL OZ/A		V2	90	99	90	171
	ATRAZINE	16 FL OZ/A		V2				
	ROUNDUP POWERMAX	32 FL OZ/A		V2				
	SUPERB HC	0.25 % V/V		V2				
	AMS	8.5 LB/100 GAL		V2				
8	HALEX GT	57.6 FL OZ/A		V5	95	99	95	175
	ROUNDUP POWERMAX	32 FL OZ/A		V5				
	PREFERENCE	0.25 % V/V		V5				
	AMS	8.5 LB/100 GAL		V5				
9	ARMEZON PRO	16 FL OZ/A		V5	99	99	90	164
	ROUNDUP POWERMAX	32 FL OZ/A		V5				
	MSO	1 % V/V		V5				
	AMS	8.5 LB/100 GAL		V5				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7-27-2017	7-27-2017	7-27-2017	10-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	66 56	66 56	66 56	135 125
Days After Emergence	79 DE-1	79 DE-1	79 DE-1	148 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Growth				
No. Name	Rate Unit	Stage	13	14	15	19
10 ACURON FLEXI	36 FL OZ/A	V5	99	99	99	149
ROUNDUP POWERMAX	32 FL OZ/A	V5				
PREFERENCE	0.25 % V/V	V5				
AMS	8.5 LB/100 GAL	V5				
LSD P=.05			.	.	1.6	15.6
Standard Deviation			0.0	0.0	1.0	9.1
CV			0.0	0.0	1.15	5.77
Replicate F			0.000	0.000	0.036	1.298
Replicate Prob(F)			1.0000	1.0000	0.9646	0.2974
Treatment F			0.000	0.000	2827.314	95.484
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001

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

University of Kentucky

CORN POSTEMERGENCE VI

Trial ID: C17016 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BASF-CORN Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE VI

Trial ID: C17016 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BASF-CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-4-2017

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
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Investigator: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-9-2017
Harvest Date: 10-4-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 59 F **Harvest Equipment:** MASSEY FERGUSON 8XP
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	5-22-2017	6-1-2017
Application Method:	SPRAY	SPRAY
Application Timing:	V2	V5
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	68 F	78 F
% Relative Humidity:	42	55
Wind Velocity, Unit:	3 MPH	4 MPH
Wind Direction:	NNE	SW
Soil Temperature, Unit:	70 F	71 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	40	20
Next Moisture Occurred On:	5-23-2017	6-5-2017

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	V2 98	V5 99
Height, Unit:	6 IN	14 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	2 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	4 IN	6 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	2 IN	3 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1.5 IN	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	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 POSTEMERGENCE VIII

Trial ID: C17017 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-CORN Investigator: Sara Carter
 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		CHEAL		IPOSS		SETFA	
Pest Name	Giant foxtail		Giant ragweed common		lambsquarters		Morning glory		Giant foxtail	
Crop Code	ZEAMX				ZEAMX					
Crop Name	Corn				Corn					
Rating Date	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	44 14	44 14	44 14	58 28	58 28	58 28	58 28
Trt-Eval Interval	37 DE-1		37 DE-1		37 DE-1		37 DE-1		37 DE-1	
Days After Emergence	37 DE-1		37 DE-1		37 DE-1		37 DE-1		37 DE-1	
ARM Action Codes	P	P	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Unit	Stage	1	2	3	4	5	6	7
1	LEADOFF	1.5 OZ/A	PRE		0	99	99	99	99	0	99
	AATREX	1 QT/A	PRE								
	REALM Q	4 OZ/A	V5								
	ABUNDIT EDGE	1 QT/A	V5								
	AATREX	1.5 QT/A	V5								
2	LEADOFF	1.5 OZ/A	PRE		0	99	99	99	99	0	99
	AATREX	1 QT/A	PRE								
	RESOLVE Q	1.5 OZ/A	V5								
	ABUNDIT EDGE	1 QT/A	V5								
	FEXAPAN	11 OZ/A	V5								
3	CINCH ATZ	1 QT/A	PRE		0	99	99	99	99	0	99
	INSTIGATE	6 OZ/A	PRE								
	ABUNDIT EDGE	1 QT/A	V5								
4	CINCH ATZ	1 QT/A	PRE		0	99	99	99	99	0	99
	REALM Q	4 OZ/A	V5								
	ABUNDIT EDGE	1 QT/A	V5								
	AATREX	1.5 QT/A	V5								
5	CINCH ATZ	1 QT/A	PRE		0	99	99	99	99	0	99
	RESOLVE Q	1.5 OZ/A	V5								
	ABUNDIT EDGE	1 QT/A	V5								
	AATREX	1.5 QT/A	V5								
6	UNTREATED				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 1,2,3,4,5,6,7,9,10,11,12,14,15 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 lambsquarters Morning glory				Giant foxtail Giant ragweed				
Crop Code					ZEAMX					
Crop Name					Corn					
Rating Date		6-29-2017	6-29-2017	6-29-2017	7-27-2017	7-27-2017	7-27-2017			
Rating Type		CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples		1	1	1	1	1	1			
Rating Timing		4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.		58 28	58 28	58 28	86 56	86 56	86 56			
Trt-Eval Interval										
Days After Emergence		51 DE-1	51 DE-1	51 DE-1	79 DE-1	79 DE-1	79 DE-1			
ARM Action Codes		P	P	P	P	P	P			
Number of Decimals		0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Growth Unit	Stage	8	9	10	11	12	13
1	LEADOFF	1.5 OZ/A	PRE		99	99	99	0	99	99
	AATREX	1 QT/A	PRE							
	REALM Q	4 OZ/A	V5							
	ABUNDIT EDGE	1 QT/A	V5							
	AATREX	1.5 QT/A	V5							
2	LEADOFF	1.5 OZ/A	PRE		99	99	99	0	99	98
	AATREX	1 QT/A	PRE							
	RESOLVE Q	1.5 OZ/A	V5							
	ABUNDIT EDGE	1 QT/A	V5							
	FEXAPAN	11 OZ/A	V5							
3	CINCH ATZ	1 QT/A	PRE		99	99	99	0	99	95
	INSTIGATE	6 OZ/A	PRE							
	ABUNDIT EDGE	1 QT/A	V5							
4	CINCH ATZ	1 QT/A	PRE		98	99	99	0	99	95
	REALM Q	4 OZ/A	V5							
	ABUNDIT EDGE	1 QT/A	V5							
	AATREX	1.5 QT/A	V5							
5	CINCH ATZ	1 QT/A	PRE		99	99	99	0	99	99
	RESOLVE Q	1.5 OZ/A	V5							
	ABUNDIT EDGE	1 QT/A	V5							
	AATREX	1.5 QT/A	V5							
6	UNTREATED				0	0	0	0	0	0
LSD P=.05					1.7	.	.	.	.	1.7
Standard Deviation					0.9	0.0	0.0	0.0	0.0	0.9
CV					1.15	0.0	0.0	0.0	0.0	1.16
Replicate F					1.000	0.000	0.000	0.000	0.000	1.000
Replicate Prob(F)					0.4019	1.0000	1.0000	1.0000	1.0000	0.4019
Treatment F					5484.363	0.000	0.000	0.000	0.000	5318.163
Treatment Prob(F)					0.0001	1.0000	1.0000	1.0000	1.0000	0.0001

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

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Pest Type		W Weed	W Weed		
Pest Code		CHEAL	IPOSS		
Pest Name		common lambsquarters	Morning glory		
Crop Code				ZEAMX	
Crop Name				Corn	
Rating Date		7-27-2017	7-27-2017	10-4-2017	
Rating Type		CONTROL	CONTROL	YIELD	
Rating Unit		PERCENT	PERCENT	BU	
Number of Subsamples		1	1	1	
Rating Timing		8 WEEK	8 WEEK		
Days After First/Last Applic.		86 56	86 56	155 125	
Trt-Eval Interval		86 DA-A			
Days After Emergence		79 DE-1	79 DE-1	148 DE-1	
ARM Action Codes		P	P	TY1	
Number of Decimals		0	0	0	
Trt No.	Treatment Name	Rate	Growth Unit	Stage	
					14 15 19
1	LEADOFF	1.5 OZ/A	PRE		99 99 215
	AATREX	1 QT/A	PRE		
	REALM Q	4 OZ/A	V5		
	ABUNDIT EDGE	1 QT/A	V5		
	AATREX	1.5 QT/A	V5		
2	LEADOFF	1.5 OZ/A	PRE		99 95 207
	AATREX	1 QT/A	PRE		
	RESOLVE Q	1.5 OZ/A	V5		
	ABUNDIT EDGE	1 QT/A	V5		
	FEXAPAN	11 OZ/A	V5		
3	CINCH ATZ	1 QT/A	PRE		99 95 189
	INSTIGATE	6 OZ/A	PRE		
	ABUNDIT EDGE	1 QT/A	V5		
4	CINCH ATZ	1 QT/A	PRE		99 99 185
	REALM Q	4 OZ/A	V5		
	ABUNDIT EDGE	1 QT/A	V5		
	AATREX	1.5 QT/A	V5		
5	CINCH ATZ	1 QT/A	PRE		99 99 205
	RESOLVE Q	1.5 OZ/A	V5		
	ABUNDIT EDGE	1 QT/A	V5		
	AATREX	1.5 QT/A	V5		
6	UNTREATED				0 0 22
LSD P=.05					. 7.8
Standard Deviation		0.0	0.0		4.3
CV		0.0	0.0		2.51
Replicate F		0.000	0.000		5.853
Replicate Prob(F)		1.0000	1.0000		0.0208
Treatment F		0.000	0.000		896.486
Treatment Prob(F)		1.0000	1.0000		0.0001

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

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CORN POSTEMERGENCE VIII

Trial ID: C17017 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DUP-CORN Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

$TY1 = 4.093985 * [17] * (100 - [18]) / 84.5$

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CORN POSTEMERGENCE VIII

Trial ID: C17017 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-CORN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-2-2017
Completion Date: 10-4-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC64-89RIB

Planting Rate, Unit: 32000 S/A	Planting Date: 5-2-2017	
Depth, Unit: 1.5 IN	Planting Method: PLANTD	planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE	Field Equipment
	Emergence Date: 5-9-2017	
	Harvest Date: 10-4-2017	
	Harvested Width, Unit: 5 FT	
	Harvested Length, Unit: 38 FT	
Soil Temperature, Unit: 59 F	Harvest Equipment: MASSEY FERGUSON 8XP	
Soil Moisture: GOOD good	% Standard Moisture: 15.5	
Seed Bed: MEDIUM medium		

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6 **Tillage Type:** CONTIL conventional-till
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

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	5-2-2017	6-1-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V5
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	70 F	78 F
% Relative Humidity:	30	55
Wind Velocity, Unit:	10 MPH	4 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	59 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	20
Next Moisture Occurred On:	5-4-2017	6-5-2017

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:	V5	98
Height, Unit:	10	IN

Pest Stage At Each Application

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

Trial ID: C17018 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-CORN-MP Investigator: Sara Carter
 Project ID: 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 lambsquarters Morning glory			
Crop Code	ZEAMX			ZEAMX
Crop Name	Corn			Corn
Rating Date	6-2-2017	6-2-2017	6-2-2017	6-2-2017 6-2-2017 6-16-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT PERCENT PERCENT
Number of Subsamples	1	1	1	1 1 1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK 2 WEEK 4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14 14 14 28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A 14 DA-A 28 DA-A
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1 24 DE-1 38 DE-1
ARM Action Codes	P	P	P	P P P
Number of Decimals	0	0	0	0 0 0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED				0	0	0	0	0	0
2	DIFLEXX DUO	32	OZ/A	MP	0	99	99	99	99	0
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
3	DIFLEXX DUO	32	OZ/A	MP	0	99	99	99	99	0
	AATREX	16	OZ/A	MP						
	COC	1	% V/V	MP						
	AMS	8.5	% V/V	MP						
4	DIFLEXX DUO	24	OZ/A	MP	0	99	99	99	99	0
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
5	DIFLEXX DUO	24	OZ/A	MP	0	99	99	99	99	0
	LIBERTY 280	22	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
6	CAPRENO HERBICIDE	3	OZ/A	MP	0	99	99	99	99	0
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
7	HALEX GT	57.6	OZ/A	MP	0	99	99	99	99	0
	AATREX	16	OZ/A	MP						
	NIS	0.25	% V/V	MP						
	AMS	8.5	LB/100 GAL	MP						
8	ARMEZON PRO	0.5717	OZ/A	MP	0	99	99	99	99	0
	OUTLOOK	14.01	OZ/A	MP						
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
9	ARMEZON PRO	0.5717	OZ/A	MP	0	99	99	99	99	0
	STATUS	3	OZ/A	MP						
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						

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

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 lambsquarters	Morning glory				
Crop Code		ZEAMX						ZEAMX	
Crop Name		Corn						Corn	
Rating Date		6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-16-2017	
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples		1	1	1	1	1	1	1	
Rating Timing		2 WEEK	2 WEEK	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	14 14	28 28	
Trt-Eval Interval		14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	
Days After Emergence		24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	38 DE-1	
ARM Action Codes		P	P	P	P	P	P	P	
Number of Decimals		0	0	0	0	0	0	0	
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	
10 DIFLEXX DUO	32 OZ/A	MP	0	99	99		99	99	0
AATREX	16 OZ/A	MP							
COC	1 % V/V	MP							
AMS	8.5 % 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

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

University of Kentucky

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	lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-16-2017	6-16-2017	6-16-2017	6-16-2017	7-14-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 56
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	56 DA-A
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	66 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	7	8	9	10	11	12
1	UNTREATED				0	0	0	0	0	0
2	DIFLEXX DUO	32	OZ/A	MP	99	90	99	90	0	99
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
3	DIFLEXX DUO	32	OZ/A	MP	99	85	99	90	0	99
	AATREX	16	OZ/A	MP						
	COC	1	% V/V	MP						
	AMS	8.5	% V/V	MP						
4	DIFLEXX DUO	24	OZ/A	MP	99	85	99	85	0	99
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
5	DIFLEXX DUO	24	OZ/A	MP	99	85	99	90	0	99
	LIBERTY 280	22	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
6	CAPRENO HERBICIDE	3	OZ/A	MP	99	95	99	95	0	99
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
7	HALEX GT	57.6	OZ/A	MP	99	95	99	95	0	99
	AATREX	16	OZ/A	MP						
	NIS	0.25	% V/V	MP						
	AMS	8.5	LB/100 GAL	MP						
8	ARMEZON PRO	0.5717	OZ/A	MP	99	90	99	90	0	99
	OUTLOOK	14.01	OZ/A	MP						
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						
9	ARMEZON PRO	0.5717	OZ/A	MP	99	85	99	90	0	99
	STATUS	3	OZ/A	MP						
	ROUNDUP WeatherMAX	32	OZ/A	MP						
	AATREX	16	OZ/A	MP						
	AMS	8.5	LB/100 GAL	MP						

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

University of Kentucky

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 lambsquarters	Morning glory	Giant foxtail
Crop Code					ZEAMX
Crop Name					Corn
Rating Date	6-16-2017	6-16-2017	6-16-2017	6-16-2017	7-14-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 56
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	56 DA-A
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	66 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Growth	7		8		9		10		11		12	
No. Name	Rate Unit	Stage												
10 DIFLEXX DUO	32 OZ/A	MP	99		90		99		90		0		99	
AATREX	16 OZ/A	MP												
COC	1 % V/V	MP												
AMS	8.5 % 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	

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant ragweed common lambsquarters Morning glory			
Crop Code				ZEAMX
Crop Name				Corn
Rating Date	7-14-2017	7-14-2017	7-14-2017	10-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 56	56 56	56 56	138 138
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	138 DA-A
Days After Emergence	66 DE-1	66 DE-1	66 DE-1	148 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	19
1	UNTREATED				0	0	0	28
2	DIFLEXX DUO	32	OZ/A	MP	90	99	90	158
	ROUNDUP WeatherMAX	32	OZ/A	MP				
	AATREX	16	OZ/A	MP				
	AMS	8.5	LB/100 GAL	MP				
3	DIFLEXX DUO	32	OZ/A	MP	85	99	90	193
	AATREX	16	OZ/A	MP				
	COC	1	% V/V	MP				
	AMS	8.5	% V/V	MP				
4	DIFLEXX DUO	24	OZ/A	MP	80	99	85	164
	ROUNDUP WeatherMAX	32	OZ/A	MP				
	AATREX	16	OZ/A	MP				
	AMS	8.5	LB/100 GAL	MP				
5	DIFLEXX DUO	24	OZ/A	MP	80	99	80	166
	LIBERTY 280	22	OZ/A	MP				
	AATREX	16	OZ/A	MP				
	AMS	8.5	LB/100 GAL	MP				
6	CAPRENO HERBICIDE	3	OZ/A	MP	95	99	95	174
	ROUNDUP WeatherMAX	32	OZ/A	MP				
	AATREX	16	OZ/A	MP				
	AMS	8.5	LB/100 GAL	MP				
7	HALEX GT	57.6	OZ/A	MP	85	99	85	178
	AATREX	16	OZ/A	MP				
	NIS	0.25	% V/V	MP				
	AMS	8.5	LB/100 GAL	MP				
8	ARMEZON PRO	0.5717	OZ/A	MP	80	99	80	136
	OUTLOOK	14.01	OZ/A	MP				
	ROUNDUP WeatherMAX	32	OZ/A	MP				
	AATREX	16	OZ/A	MP				
	AMS	8.5	LB/100 GAL	MP				
9	ARMEZON PRO	0.5717	OZ/A	MP	75	99	80	123
	STATUS	3	OZ/A	MP				
	ROUNDUP WeatherMAX	32	OZ/A	MP				
	AATREX	16	OZ/A	MP				
	AMS	8.5	LB/100 GAL	MP				

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

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	CHEAL	IPOSS	
Pest Name		Giant ragweed common lambsquarters Morning glory			
Crop Code					ZEAMX
Crop Name					Corn
Rating Date		7-14-2017	7-14-2017	7-14-2017	10-4-2017
Rating Type		CONTROL	CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	PERCENT	BU
Number of Subsamples		1	1	1	1
Rating Timing		8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.		56 56	56 56	56 56	138 138
Trt-Eval Interval		56 DA-A	56 DA-A	56 DA-A	138 DA-A
Days After Emergence		66 DE-1	66 DE-1	66 DE-1	148 DE-1
ARM Action Codes		P	P	P	TY1
Number of Decimals		0	0	0	0
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	13	14	15 19
10 DIFLEXX DUO	32 OZ/A	MP	90	99	80 146
AATREX	16 OZ/A	MP			
COC	1 % V/V	MP			
AMS	8.5 % V/V	MP			
LSD P=.05			.	.	15.9
Standard Deviation			0.0	0.0	0.0 9.2
CV			0.0	0.0	0.0 6.31
Replicate F			0.000	0.000	0.000 0.537
Replicate Prob(F)			1.0000	1.0000	1.0000 0.5935
Treatment F			0.000	0.000	0.000 75.666
Treatment Prob(F)			1.0000	1.0000	1.0000 0.0001

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

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CORN POSTEMERGENCE IX

Trial ID: C17018 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BAYER-CORN-MP Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE IX

Trial ID: C17018 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-CORN-MP Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-4-2017

Trial Location

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

Latitude of LL Corner °: 38.1176683 N
Longitude of LL Corner °: 84.4943016 W

Directions:
 GPS coordinates taken at NW corner of study

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

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Crop Description

Crop 1: ZEAMX Zea mays
Variety: 6948A3 BECK'S Corn

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

Planting Date: 5-2-2017
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Emergence Date: 5-9-2017
Harvest Date: 10-4-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: MASSEY FERGUSON 8XP
% Standard Moisture: 15.5

Soil Temperature, Unit: 59 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:** 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 **% 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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

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Application Description

A

Application Date: 5-19-2017
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 72 F
% Relative Humidity: 71
Wind Velocity, Unit: 6 MPH
Wind Direction: SSW
Soil Temperature, Unit: 72 F
Soil Moisture: GOOD
% Cloud Cover: 30
Next Moisture Occurred On: 5-20-2017

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: V2 98
Stage Minimum, Percent: VE 1
Stage Maximum, Percent: V3 1
Average Diameter, Unit: 5 IN
Height, Unit: 6 IN
Height Minimum, Maximum: 5 6

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SETFA W
Stage Majority, Percent:	13 99
Stage Minimum, Percent:	12 1
Stage Maximum, Percent:	14 1
Diameter, Unit:	2 IN
Height, Unit:	2 IN
Height Minimum, Maximum:	1 2
Density, Unit:	6 1-10
Pest 2 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	14 99
Stage Minimum, Percent:	13 1
Stage Maximum, Percent:	15 1
Diameter, Unit:	4 IN
Height, Unit:	4 IN
Height Minimum, Maximum:	2 5
Density, Unit:	6 1-10
Pest 3 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	10 99
Stage Minimum, Percent:	09 1
Stage Maximum, Percent:	11 1
Diameter, Unit:	0.5 IN
Height, Unit:	1 IN
Height Minimum, Maximum:	0 1
Density, Unit:	6 1-10
Pest 4 Code, Type, Scale:	IPOSS W
Stage Majority, Percent:	10 99
Stage Minimum, Percent:	09 1
Stage Maximum, Percent:	11 1
Diameter, Unit:	1 IN
Height, Unit:	1 IN
Height Minimum, Maximum:	0 1.5
Density, Unit:	6 1-10

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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 X

Trial ID: C17019
Protocol ID: AMVAC-CORN-RR'LL
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL	IPOSS	
Pest Name		Giant foxtail Giant ragweed common		lambquarters	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5-30-2017	5-30-2017	5-30-2017	5-30-2017	5-30-2017	6-13-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	28 14	28 14	28 14	28 14	28 14	42 12
Trt-Eval Interval	AFTER POST					AFTER POST
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	35 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	HARNESS XTRA	3.6 PT/A	PRE	0	99	99	99	99	0
	IMPACTZ	8 FL OZ/A	+EP						
	MSO	1 % V/V	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
3	HARNESS XTRA	3.6 PT/A	PRE	0	99	99	99	99	0
	IMPACTZ	8 FL OZ/A	+EP						
	ROUNDUP POWERMAX	32 FL OZ/A	+EP						
	MSO	1 % V/V	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
4	HARNESS XTRA	3.6 PT/A	PRE	0	99	99	99	99	0
	IMPACTZ	8 FL OZ/A	+EP						
	LIBERTY 280	22 FL OZ/A	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
5	HARNESS XTRA	3.6 PT/A	PRE	0	99	99	99	99	0
	IMPACTZ	8 FL OZ/A	+EP						
	STATUS	5 OZ/A	+EP						
	MSO	1 % V/V	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
6	HARNESS	1.75 PT/A	EP	0	99	99	99	99	0
	IMPACTZ	8 FL OZ/A	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	NIS	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
7	ARMEZON PRO	20 FL OZ/A	EP	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	ATRAZINE	0.5 PT/A	EP						
	NIS	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,14,15 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 lambsquarters	Morning glory	
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Rating Date	5-30-2017	5-30-2017	5-30-2017	5-30-2017	5-30-2017	6-13-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	28 14	28 14	28 14	28 14	28 14	42 12
Trt-Eval Interval	AFTER POST					AFTER POST
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	35 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	
8 HALEX GT	3.6 PT/A	EP	0	99	99		99	99	0
ATRAZINE	0.5 PT/A	EP							
NIS	0.25 % V/V	EP							
N-PAK AMS LIQUID	2.5 % V/V	EP							
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 1,2,3,4,5,6,7,8,9,10,11,12,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS		SETFA
Pest Name	Giant foxtail	Giant ragweed	common lambsquarters	Morning glory		Giant foxtail
Crop Code					ZEAMX	
Crop Name					Corn	
Rating Date	6-13-2017	6-13-2017	6-13-2017	6-13-2017	7-11-2017	7-11-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	42 12	42 12	42 12	42 12	70 40	70 40
Trt-Eval Interval					AFTER POST	
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	63 DE-1	63 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	HARNESS XTRA	3.6 PT/A	PRE	99	99	99	99	0	99
	IMPACTZ	8 FL OZ/A	+EP						
	MSO	1 % V/V	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
3	HARNESS XTRA	3.6 PT/A	PRE	99	99	99	99	0	99
	IMPACTZ	8 FL OZ/A	+EP						
	ROUNDUP POWERMAX	32 FL OZ/A	+EP						
	MSO	1 % V/V	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
4	HARNESS XTRA	3.6 PT/A	PRE	99	99	99	99	0	99
	IMPACTZ	8 FL OZ/A	+EP						
	LIBERTY 280	22 FL OZ/A	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
5	HARNESS XTRA	3.6 PT/A	PRE	99	99	99	99	0	99
	IMPACTZ	8 FL OZ/A	+EP						
	STATUS	5 OZ/A	+EP						
	MSO	1 % V/V	+EP						
	N-PAK AMS LIQUID	2.5 % V/V	+EP						
6	HARNESS	1.75 PT/A	EP	99	85	99	85	0	99
	IMPACTZ	8 FL OZ/A	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	NIS	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						
7	ARMEZON PRO	20 FL OZ/A	EP	99	88	99	90	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	ATRAZINE	0.5 PT/A	EP						
	NIS	0.25 % V/V	EP						
	N-PAK AMS LIQUID	2.5 % V/V	EP						

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOSS	SETFA	SETFA
Pest Name	Giant foxtail	Giant ragweed	common lambsquarters	Morning glory	Giant foxtail	Giant foxtail
Crop Code					ZEAMX	
Crop Name					Corn	
Rating Date	6-13-2017	6-13-2017	6-13-2017	6-13-2017	7-11-2017	7-11-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	42 12	42 12	42 12	42 12	70 40	70 40
Trt-Eval Interval					AFTER POST	
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	63 DE-1	63 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth	7		8		9		10		11		12	
No. Name	Rate Unit	Stage												
8 HALEX GT	3.6 PT/A	EP	99		95		99		99		0		99	
ATRAZINE	0.5 PT/A	EP												
NIS	0.25 % V/V	EP												
N-PAK AMS LIQUID	2.5 % V/V	EP												
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 1,2,3,4,5,6,7,8,9,10,11,12,14,15 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed			
Pest Code		AMBTR	CHEAL	IPOSS			
Pest Name		Giant ragweed common lambsquarters Morning glory					
Crop Code					ZEAMX		
Crop Name					Corn		
Rating Date		7-11-2017	7-11-2017	7-11-2017	10-4-2017		
Rating Type		CONTROL	CONTROL	CONTROL	YIELD		
Rating Unit		PERCENT	PERCENT	PERCENT	BU		
Number of Subsamples		1	1	1	1		
Rating Timing		8 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.		70 40	70 40	70 40	155 125		
Trt-Eval Interval							
Days After Emergence		63 DE-1	63 DE-1	63 DE-1	148 DE-1		
ARM Action Codes		P	P	P	TY1		
Number of Decimals		0	0	0	0		
Trt No.	Treatment Name	Rate	Growth	13	14	15	19
		Rate Unit	Stage				
1	UNTREATED			0	0	0	15
2	HARNESS XTRA	3.6 PT/A	PRE	93	99	90	193
	IMPACTZ	8 FL OZ/A	+EP				
	MSO	1 % V/V	+EP				
	N-PAK AMS LIQUID	2.5 % V/V	+EP				
3	HARNESS XTRA	3.6 PT/A	PRE	90	99	90	184
	IMPACTZ	8 FL OZ/A	+EP				
	ROUNDUP POWERMAX	32 FL OZ/A	+EP				
	MSO	1 % V/V	+EP				
	N-PAK AMS LIQUID	2.5 % V/V	+EP				
4	HARNESS XTRA	3.6 PT/A	PRE	95	99	90	185
	IMPACTZ	8 FL OZ/A	+EP				
	LIBERTY 280	22 FL OZ/A	+EP				
	N-PAK AMS LIQUID	2.5 % V/V	+EP				
5	HARNESS XTRA	3.6 PT/A	PRE	93	99	95	185
	IMPACTZ	8 FL OZ/A	+EP				
	STATUS	5 OZ/A	+EP				
	MSO	1 % V/V	+EP				
	N-PAK AMS LIQUID	2.5 % V/V	+EP				
6	HARNESS	1.75 PT/A	EP	73	99	70	150
	IMPACTZ	8 FL OZ/A	EP				
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	NIS	0.25 % V/V	EP				
	N-PAK AMS LIQUID	2.5 % V/V	EP				
7	ARMEZON PRO	20 FL OZ/A	EP	75	99	80	111
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	ATRAZINE	0.5 PT/A	EP				
	NIS	0.25 % V/V	EP				
	N-PAK AMS LIQUID	2.5 % V/V	EP				

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	CHEAL	IPOSS	
Pest Name		Giant ragweed common lambsquarters Morning glory			
Crop Code					ZEAMX
Crop Name					Corn
Rating Date		7-11-2017	7-11-2017	7-11-2017	10-4-2017
Rating Type		CONTROL	CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	PERCENT	BU
Number of Subsamples		1	1	1	1
Rating Timing		8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.		70 40	70 40	70 40	155 125
Trt-Eval Interval					
Days After Emergence		63 DE-1	63 DE-1	63 DE-1	148 DE-1
ARM Action Codes		P	P	P	TY1
Number of Decimals		0	0	0	0
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	13	14	15
8 HALEX GT	3.6 PT/A	EP	88	99	90
ATRAZINE	0.5 PT/A	EP			
NIS	0.25 % V/V	EP			
N-PAK AMS LIQUID	2.5 % V/V	EP			
LSD P=.05			3.1	.	.
Standard Deviation			1.8	0.0	0.0
CV			2.33	0.0	0.0
Replicate F			1.000	0.000	0.000
Replicate Prob(F)			0.3927	1.0000	1.0000
Treatment F			971.794	0.000	0.000
Treatment Prob(F)			0.0001	1.0000	1.0000

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

University of Kentucky

CORN POSTEMERGENCE X

Trial ID: C17019

Location: LEXINGTON, KY Trial Year: 2017

Protocol ID: AMVAC-CORN-RR'LL

Investigator: Sara Carter

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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

IPOSS, Ipomoea sp., Morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

ARM Action Codes

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

TY1 = $4.093985 * [17] * (100 - [18]) / 84.5$

University of Kentucky

CORN POSTEMERGENCE X

Trial ID: C17019
Protocol ID: AMVAC-CORN-RR'LL
Project ID:

Location: LEXINGTON, KY
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE
Trial Year: 2017

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-4-2017

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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Postal Code: 40546-0312 **E-mail:** cslack@uky.edu

Investigator: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: 6948A3 BECK'S

Planting Rate, Unit: 32000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-9-2017
Harvest Date: 10-4-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 59 F **Harvest Equipment:** MASSEY FERGUSON 8XP
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5

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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:** 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:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 8 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	5-2-2017	5-16-2017	6-1-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	+EP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	SARA	SARA
Air Temperature, Unit:	70 F	78 F	78 F
% Relative Humidity:	30	60	55
Wind Velocity, Unit:	10 MPH	4 MPH	4 MPH
Wind Direction:	W	SW	SW
Soil Temperature, Unit:	59 F	70 F	71 F
Soil Moisture:	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	10
Next Moisture Occurred On:	5-4-2017	5-19-2017	6-5-2017

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	3 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:	1.5 IN	3 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	3 IN	5 IN	5 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	1 IN	2 IN	2 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	2 IN	2 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	BACKPACK	BACKPACK
Equipment Type:	ALTEVE	BELSPR	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 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

University of Kentucky**CORN VARIETY**

Trial ID: C17020 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: CORN VAR Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATT LIVESAY

Crop Code ZEAMX
 Crop Name Corn
 Rating Date 10-26-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Days After First/Last Applic. 161 140
 Trt-Eval Interval 161 DA-A
 Days After Emergence 157 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Growth Unit	Growth Stage	3
1	VERDICT	15 OZ/A	PRE		200.2
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 60-88				
2	VERDICT	15 OZ/A	PRE		194.4
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 60-88				
3	VERDICT	15 OZ/A	PRE		172.5
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 61-55				
4	VERDICT	15 OZ/A	PRE		172.4
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 61-55				
5	VERDICT	15 OZ/A	PRE		186.4
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 61-88				
6	VERDICT	15 OZ/A	PRE		190.5
	HEADLINE	6 OZ/A	INFURROW		
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 61-88				
7	VERDICT	15 OZ/A	PRE		191.4
	ARMEZON	1 OZ/A	V3		
	ZIDUA	2 OZ/A	V3		
	COC	1 % V/V	V3		
	DKC 62-08				

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	10-26-2017
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Days After First/Last Applic.	161 140
Trt-Eval Interval	161 DA-A
Days After Emergence	157 DE-1
ARM Action Codes	TY1
Number of Decimals	1

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	3
8	VERDICT	15 OZ/A	PRE	195.0
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-08			
9	VERDICT	15 OZ/A	PRE	179.4
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 62-78			
10	VERDICT	15 OZ/A	PRE	184.0
	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	200.9
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 64-35			
12	VERDICT	15 OZ/A	PRE	206.9
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 64-35			
13	VERDICT	15 OZ/A	PRE	194.3
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	P1197			
14	VERDICT	15 OZ/A	PRE	191.5
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	P1197			
15	VERDICT	15 OZ/A	PRE	189.4
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 64-89			

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

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	10-26-2017
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Days After First/Last Applic.	161 140
Trt-Eval Interval	161 DA-A
Days After Emergence	157 DE-1
ARM Action Codes	TY1
Number of Decimals	1

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	3
16	VERDICT	15 OZ/A	PRE	193.0
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 64-89			
17	VERDICT	15 OZ/A	PRE	176.3
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 65-20			
18	VERDICT	15 OZ/A	PRE	175.2
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 65-20			
19	VERDICT	15 OZ/A	PRE	214.1
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 65-49			
20	VERDICT	15 OZ/A	PRE	211.6
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 65-49			
21	VERDICT	15 OZ/A	PRE	198.1
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 66-59			
22	VERDICT	15 OZ/A	PRE	190.1
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 66-59			
23	VERDICT	15 OZ/A	PRE	190.3
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 66-75			

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

University of Kentucky

Crop Code	ZEAMX
Crop Name	Corn
Rating Date	10-26-2017
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Days After First/Last Applic.	161 140
Trt-Eval Interval	161 DA-A
Days After Emergence	157 DE-1
ARM Action Codes	TY1
Number of Decimals	1

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	3
24	VERDICT	15 OZ/A	PRE	192.8
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 66-75			
25	VERDICT	15 OZ/A	PRE	179.3
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	P1637			
26	VERDICT	15 OZ/A	PRE	173.9
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	P1637			
27	VERDICT	15 OZ/A	PRE	198.2
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-44			
28	VERDICT	15 OZ/A	PRE	202.4
	HEADLINE	6 OZ/A	INFURROW	
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-44			
29	VERDICT	15 OZ/A	PRE	181.5
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-58			
30	VERDICT	15 OZ/A	PRE	183.2
	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	185.4
	ARMEZON	1 OZ/A	V3	
	ZIDUA	2 OZ/A	V3	
	COC	1 % V/V	V3	
	DKC 67-72			

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

University of Kentucky

Crop Code ZEAMX
 Crop Name Corn
 Rating Date 10-26-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Days After First/Last Applic. 161 140
 Trt-Eval Interval 161 DA-A
 Days After Emergence 157 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Yield
32	VERDICT	15 OZ/A		PRE	186.3
	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	179.6
	ARMEZON	1 OZ/A		V3	
	ZIDUA	2 OZ/A		V3	
	COC	1 % V/V		V3	
	DKC 68-26				
34	VERDICT	15 OZ/A		PRE	185.3
	HEADLINE	6 OZ/A		INFURROW	
	ARMEZON	1 OZ/A		V3	
	ZIDUA	2 OZ/A		V3	
	COC	1 % V/V		V3	
	DKC 68-26				
35	VERDICT	15 OZ/A		PRE	174.8
	ARMEZON	1 OZ/A		V3	
	ZIDUA	2 OZ/A		V3	
	COC	1 % V/V		V3	
	DKC 70-27				
36	VERDICT	15 OZ/A		PRE	177.7
	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, Corn = US

Rating Type
 YIELD = yield

Rating Unit
 BU = bushel

ARM Action Codes
 TY1 = 1.111225*[1]*(100-[2])/84.5

University of Kentucky

CORN VARIETY

Trial ID: C17020 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: CORN VAR Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATT LIVESAY

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: F fungicide
Trial Status: F one-year/final
Initiation Date: 5-18-2017
Completion Date: 10-26-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: SEE TREATMENT LIST

Planting Rate, Unit: 32000 S/A	Planting Date: 5-17-2017	
Depth, Unit: 1.5 IN	Planting Method: PLANTD	planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE	field equipment
	Emergence Date: 5-22-2017	
	Harvest Date: 10-26-2017	
	Harvested Width, Unit: 5 FT	
	Harvested Length, Unit: 140 FT	
Soil Temperature, Unit: 70 F	Harvest Equipment: MASSEY FERGUSON 8XP	
Soil Moisture: GOOD good	% Standard Moisture: 15.5	
Seed Bed: MEDIUM medium		

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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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1 MI

Application Description

	A	B
Application Date:	5-18-2017	6-8-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE/INF	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	78 F	72 F
% Relative Humidity:	50	65
Wind Velocity, Unit:	3 MPH	6 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	71 F	67 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	20	30
Next Moisture Occurred On:	5-19-2017	6-13-2017

Crop Stage At Each Application

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

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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: C17021 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-CORN-VAR Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

Crop Code ZEAMX
 Crop Name Corn
 Rating Date 10-17-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Days After First/Last Applic. 152 126
 Trt-Eval Interval 152 DA-A
 Days After Emergence 1243 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Growth Stage	3
1	ACURON	2.5 QT/A	PRE	200.6
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N95B-3120A			
2	ACURON	2.5 QT/A	PRE	202.4
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N66V-3120			
3	ACURON	2.5 QT/A	PRE	202.4
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	P1197			
4	ACURON	2.5 QT/A	PRE	191.0
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N68K-3111A			
5	ACURON	2.5 QT/A	PRE	204.8
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N69D-3000GT			
6	ACURON	2.5 QT/A	PRE	194.8
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	NK1405-3220			
7	ACURON	2.5 QT/A	PRE	208.2
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	DKC64-35			
8	ACURON	2.5 QT/A	PRE	212.1
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N76A-3000GT			
9	ACURON	2.5 QT/A	PRE	210.7
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	NK1573-3111			
10	ACURON	2.5 QT/A	PRE	199.8
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N78S-3111			

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Crop Code	ZEAMX
Crop Name	Corn
Rating Date	10-17-2017
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Days After First/Last Applic.	152 126
Trt-Eval Interval	152 DA-A
Days After Emergence	1243 DE-1
ARM Action Codes	TY1
Number of Decimals	1

Trt No.	Treatment Name	Rate	Growth Stage	3
11	ACURON	2.5 QT/A	PRE	212.6
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	N83D-3111			
12	ACURON	2.5 QT/A	PRE	186.3
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N95B-3120A			
13	ACURON	2.5 QT/A	PRE	193.6
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N66V-3120			
14	ACURON	2.5 QT/A	PRE	197.8
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	P1197			
15	ACURON	2.5 QT/A	PRE	182.3
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N68K-3111A			
16	ACURON	2.5 QT/A	PRE	184.9
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	N69D-3000GT			
17	ACURON	2.5 QT/A	PRE	171.5
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	NK1405-3220			
18	ACURON	2.5 QT/A	PRE	187.7
	AATREX	1 LB AI/A	PRE	
	PRINCEP	1 LB AI/A	PRE	
	TRIVAPRO	13.7 OZ/A	V5	
	NIS	0.25 % V/V	V5	
	DKC64-35			

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

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Crop Code ZEAMX
 Crop Name Corn
 Rating Date 10-17-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Days After First/Last Applic. 152 126
 Trt-Eval Interval 152 DA-A
 Days After Emergence 1243 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	
					3
19	ACURON	2.5 QT/A		PRE	189.6
	AATREX	1 LB AI/A		PRE	
	PRINCEP	1 LB AI/A		PRE	
	TRIVAPRO	13.7 OZ/A		V5	
	NIS	0.25 % V/V		V5	
	N76A-3000GT				
20	ACURON	2.5 QT/A		PRE	215.7
	AATREX	1 LB AI/A		PRE	
	PRINCEP	1 LB AI/A		PRE	
	TRIVAPRO	13.7 OZ/A		V5	
	NIS	0.25 % V/V		V5	
	NK1573-3111				
21	ACURON	2.5 QT/A		PRE	212.8
	AATREX	1 LB AI/A		PRE	
	PRINCEP	1 LB AI/A		PRE	
	TRIVAPRO	13.7 OZ/A		V5	
	NIS	0.25 % V/V		V5	
	N78S-3111				
22	ACURON	2.5 QT/A		PRE	222.7
	AATREX	1 LB AI/A		PRE	
	PRINCEP	1 LB AI/A		PRE	
	TRIVAPRO	13.7 OZ/A		V5	
	NIS	0.25 % V/V		V5	
	N83D-3111				
	LSD P=.05				.
	Standard Deviation				.
	CV				.

Crop Code
 ZEAMX, BCOR, Zea mays, Corn = US

Rating Type
 YIELD = yield

Rating Unit
 BU = bushel

ARM Action Codes
 $TY1 = 1.352795*[C1]*(100-[C2])/84.5$

University of Kentucky

CORN VARIETY II

Trial ID: C17021 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-CORN-VAR Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: F fungicide
Trial Status: F one-year/final
Initiation Date: 5-18-2017
Completion Date: 10-17-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: SEE TREATMENT LIST

Planting Rate, Unit: 32000 S/A	Planting Date: 5-17-2017	
Depth, Unit: 1.5 IN	Planting Method: PLANTD	planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE	field equipment
	Emergence Date: 5-23-2014	
	Harvest Date: 10-17-2017	
	Harvested Width, Unit: 5 FT	
	Harvested Length, Unit: 115 FT	
Soil Temperature, Unit: 70 F	Harvest Equipment: MASSEY FERGUSON 8XP	
Soil Moisture: GOOD good	% Standard Moisture: 15.5	
Seed Bed: MEDIUM medium		

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Site and Design

Treated Plot Width: 15 FT **Site Type:** FIELD field
Treated Plot Length: 150 FT
Treated Plot Area: 2250 FT² **Treatments:** 22 **Tillage Type:** NOTILL no-till
Replications: 1 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5-18-2017	6-13-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V5
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	80 F	85 F
% Relative Humidity:	50	70
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	SW	SE
Soil Temperature, Unit:	71 F	74 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	20	40
Next Moisture Occurred On:	5-19-2017	6-15-2017

Crop Stage At Each Application

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

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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:	15 FT	15 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 gallons	3 gallons
Propellant:	CO2	CO2

University of Kentucky

NO TILL SOYBEAN

Trial ID: S17020 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: FMC-SOY Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATTHEW WIGGINS

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	ERICA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Giant foxtail
Crop Code	GLXMA				GLXMA
Crop Name	Soybean				Soybean
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-7-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	1	2	3	4	5	6	7
No.	Name	Rate Unit	Stage							
1	UNTREATED CHECK			0	0	0	0	0	0	0
2	AUTHORITY MAXX	5 OZ/A	PRE	0	99	99	99	33	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
3	AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	70	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
4	AUTHORITY ELITE	26 FL OZ/A	PRE	0	99	99	99	20	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
5	AUTHORITY ELITE	26 FL OZ/A	PRE	0	99	99	99	20	0	99
	METRIBUZIN	4 OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
6	AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	70	0	99
	DUAL II MAGNUM	16 FL OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
7	ANTHEM MAXX	3.3 OZ/A	PRE	0	99	99	99	70	0	99
	METRIBUZIN	4 OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							

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

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Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS	ERICA		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code	GLXMA					GLXMA	
Crop Name	Soybean					Soybean	
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-7-2017	6-7-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 1	28 1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6	7
8	ROWEL	2 OZ/A	PRE	0	99	99	99	99	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	WARRANT	48 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
9	BOUNDARY	24 FL OZ/A	PRE	0	99	99	99	90	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	PREFIX	32 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
10	OUTLOOK	10 FL OZ/A	PRE	0	99	99	99	99	0	99
	SHARPEN	1 FL OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ZIDUA	1.5 OZ/A	28DAP							
	ENGENIA	12.8 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
11	F9314-3	6.5 FL OZ/A	PRE	0	99	99	99	70	0	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
	LSD P=.05			.	.	.	.	3.0	.	.
	Standard Deviation			0.0	0.0	0.0	0.0	1.7	0.0	0.0
	CV			0.0	0.0	0.0	0.0	2.99	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	1.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	0.3855	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	1170.322	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	0.0001	1.0000	1.0000

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA		SETFA	AMBTR	IPOSS
Pest Name	Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory
Crop Code				GLXMA			
Crop Name				Soybean			
Rating Date	6-7-2017	6-7-2017	6-7-2017	7-5-2017	7-5-2017	7-5-2017	7-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	28 1	28 1	28 1	56 29	56 29	56 29	56 29
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	8	9	10	11	12	13	14
No.	Name	Rate Unit	Stage							
1	UNTREATED CHECK			0	0	0	0	0	0	0
2	AUTHORITY MAXX	5 OZ/A	PRE	99	99	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
3	AUTHORITY MTZ	14 OZ/A	PRE	99	99	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
4	AUTHORITY ELITE	26 FL OZ/A	PRE	99	99	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
5	AUTHORITY ELITE	26 FL OZ/A	PRE	99	99	99	0	99	99	99
	METRIBUZIN	4 OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
6	AUTHORITY MTZ	14 OZ/A	PRE	99	99	99	0	99	99	99
	DUAL II MAGNUM	16 FL OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
7	ANTHEM MAXX	3.3 OZ/A	PRE	99	99	99	0	99	99	99
	METRIBUZIN	4 OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA		SETFA	AMBTR	IPOSS
Pest Name	Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory
Crop Code				GLXMA			
Crop Name				Soybean			
Rating Date	6-7-2017	6-7-2017	6-7-2017	7-5-2017	7-5-2017	7-5-2017	7-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	28 1	28 1	28 1	56 29	56 29	56 29	56 29
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12	13	14
8	ROWEL	2 OZ/A	PRE	99	99	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	WARRANT	48 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
9	BOUNDARY	24 FL OZ/A	PRE	99	99	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	PREFIX	32 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
10	OUTLOOK	10 FL OZ/A	PRE	99	99	99	0	99	99	99
	SHARPEN	1 FL OZ/A	PRE							
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ZIDUA	1.5 OZ/A	28DAP							
	ENGENIA	12.8 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP							
11	F9314-3	6.5 FL OZ/A	PRE	99	99	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	PRE							
	ANTHEM MAXX	2.5 FL OZ/A	28DAP							
	XTENDIMAX	22 FL OZ/A	28DAP							
	ROUNDUP POWERMAX	22 FL OZ/A	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 1,2,3,4,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed
Pest Code	ERICA
Pest Name	Marestail
Crop Code	GLXMA
Crop Name	Soybean
Rating Date	7-5-2017 10-6-2017
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Number of Subsamples	1 1
Rating Timing	8 WEEK
Days After First/Last Applic.	56 29 149 122
Days After Emergence	50 DE-1 143 DE-1
ARM Action Codes	P TY1
Number of Decimals	0 0

Trt No.	Treatment Name	Rate	Growth Stage	15	19
1	UNTREATED CHECK			0	19
2	AUTHORITY MAXX	5 OZ/A	PRE	99	71
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
3	AUTHORITY MTZ	14 OZ/A	PRE	99	61
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
4	AUTHORITY ELITE	26 FL OZ/A	PRE	99	69
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
5	AUTHORITY ELITE	26 FL OZ/A	PRE	99	63
	METRIBUZIN	4 OZ/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
6	AUTHORITY MTZ	14 OZ/A	PRE	99	71
	DUAL II MAGNUM	16 FL OZ/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
7	ANTHEM MAXX	3.3 OZ/A	PRE	99	70
	METRIBUZIN	4 OZ/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		

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

University of Kentucky

Pest Type	W Weed
Pest Code	ERICA
Pest Name	Marestail
Crop Code	GLXMA
Crop Name	Soybean
Rating Date	7-5-2017 10-6-2017
Rating Type	CONTROL YIELD
Rating Unit	PERCENT BU
Number of Subsamples	1 1
Rating Timing	8 WEEK
Days After First/Last Applic.	56 29 149 122
Days After Emergence	50 DE-1 143 DE-1
ARM Action Codes	P TY1
Number of Decimals	0 0

Trt No.	Treatment Name	Rate	Growth Stage	15	19
8	ROWEL	2 OZ/A	PRE	99	72
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	WARRANT	48 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
9	BOUNDARY	24 FL OZ/A	PRE	99	65
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	PREFIX	32 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
10	OUTLOOK	10 FL OZ/A	PRE	99	67
	SHARPEN	1 FL OZ/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ZIDUA	1.5 OZ/A	28DAP		
	ENGENIA	12.8 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
11	F9314-3	6.5 FL OZ/A	PRE	99	65
	ROUNDUP POWERMAX	22 FL OZ/A	PRE		
	ANTHEM MAXX	2.5 FL OZ/A	28DAP		
	XTENDIMAX	22 FL OZ/A	28DAP		
	ROUNDUP POWERMAX	22 FL OZ/A	28DAP		
	LSD P=.05			.	6.6
	Standard Deviation			0.0	3.9
	CV			0.0	6.16
	Replicate F			0.000	11.277
	Replicate Prob(F)			1.0000	0.0005
	Treatment F			0.000	44.860
	Treatment Prob(F)			1.0000	0.0001

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

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NO TILL SOYBEAN

Trial ID: S17020 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: FMC-SOY Investigator: Sara Carter
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: MATTHEW WIGGINS

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestail = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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 = $3.63 * [17] * (100 - [18]) / 87$

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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

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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 11 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-10-2017	6-6-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	28 DAP
Application Placement:	BROFOL	BROFOL
Applied By:	SARA CARTER	C H SLACK
Air Temperature, Unit:	80 F	68 F
% Relative Humidity:	40	50
Wind Velocity, Unit:	7 MPH	6 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	64 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	60	60
Next Moisture Occurred On:	5-11-2017	6-13-2017

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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:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	3 IN	5 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1 IN	3 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 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	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 II

Trial ID: S17021 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: WIN DTS Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: TOM HAYDEN

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 Name	Soybean					Soybean
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-7-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 12
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	1	2	3	4	5	6
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	PRESIDUAL	3 PT/A	PRE	0	99	99	99	99	0
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	INTERLOCK	4 FL OZ/A	PRE						
3	PRESIDUAL	3 PT/A	PRE	0	99	99	99	99	0
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	INTERLOCK	4 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	INTERLOCK	2 FL OZ/A	LP						
4	PRESIDUAL	3 PT/A	PRE	0	99	99	99	99	0
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	INTERLOCK	4 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	CLASS ACT RIDION	1 % V/V	LP						
	CORNERSTONE 5 PLUS	24 FL OZ/A	LP						
	INTERLOCK	2 FL OZ/A	LP						
5	PRESIDUAL	3 PT/A	PRE	0	99	99	99	99	0
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	INTERLOCK	4 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
6	PRESIDUAL	3 PT/A	PRE	0	99	99	99	99	0
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	INTERLOCK	4 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
	CORNERSTONE 5 PLUS	24 FL OZ/A	LP						

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

University of Kentucky

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 Name	Soybean					Soybean
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-7-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 12
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
7	ENGENIA	12.8 FL OZ/A	LP	0	20	99	99	99	0
	AG16098	0.5 % V/V	LP						
	INTERLOCK	2 FL OZ/A	LP						
8	ENGENIA	12.8 FL OZ/A	LP	0	99	99	99	99	0
	AG16098	0.5 % V/V	LP						
	CLASS ACT RIDION	1 % V/V	LP						
	CORNERSTONE 5 PLUS	24 FL OZ/A	LP						
	INTERLOCK	2 FL OZ/A	LP						
9	ENGENIA	12.8 FL OZ/A	LP	0	20	99	99	99	0
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
10	ENGENIA	12.8 FL OZ/A	LP	0	99	99	99	99	0
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
	CORNERSTONE 5 PLUS	24 FL OZ/A	LP						
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 1,2,3,4,5,6,7,9,10,11,12,13,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	ERICA	GLXMA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Soybean	Giant foxtail
Crop Code						
Crop Name						
Rating Date	6-7-2017	6-7-2017	6-7-2017	6-7-2017	7-5-2017	7-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	28 12	28 12	28 12	28 12	56 40	56 40
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12
1	UNTREATED				0	0	0	0	0	0
2	PRESIDUAL	3 PT/A		PRE	99	47	50	20	0	99
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE						
	CLASS ACT NG	2.5 GAL/100 GAL		PRE						
	INTERLOCK	4 FL OZ/A		PRE						
3	PRESIDUAL	3 PT/A		PRE	99	99	99	99	0	99
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE						
	CLASS ACT NG	2.5 GAL/100 GAL		PRE						
	INTERLOCK	4 FL OZ/A		PRE						
	ENGENIA	12.8 FL OZ/A		LP						
	AG16098	0.5 % V/V		LP						
	INTERLOCK	2 FL OZ/A		LP						
4	PRESIDUAL	3 PT/A		PRE	99	99	99	99	0	99
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE						
	CLASS ACT NG	2.5 GAL/100 GAL		PRE						
	INTERLOCK	4 FL OZ/A		PRE						
	ENGENIA	12.8 FL OZ/A		LP						
	AG16098	0.5 % V/V		LP						
	CLASS ACT RIDION	1 % V/V		LP						
	CORNERSTONE 5 PLUS	24 FL OZ/A		LP						
	INTERLOCK	2 FL OZ/A		LP						
5	PRESIDUAL	3 PT/A		PRE	99	99	99	99	0	99
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE						
	CLASS ACT NG	2.5 GAL/100 GAL		PRE						
	INTERLOCK	4 FL OZ/A		PRE						
	ENGENIA	12.8 FL OZ/A		LP						
	AG16098	0.5 % V/V		LP						
	ICONIC	0.5 % V/V		LP						
6	PRESIDUAL	3 PT/A		PRE	99	99	99	99	0	99
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE						
	CLASS ACT NG	2.5 GAL/100 GAL		PRE						
	INTERLOCK	4 FL OZ/A		PRE						
	ENGENIA	12.8 FL OZ/A		LP						
	AG16098	0.5 % V/V		LP						
	ICONIC	0.5 % V/V		LP						
	CORNERSTONE 5 PLUS	24 FL OZ/A		LP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,10,11,12,13,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-7-2017	6-7-2017	6-7-2017	6-7-2017	7-5-2017	7-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	28 12	28 12	28 12	28 12	56 40	56 40
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	7	8	9	10	11	12
7 ENGENIA	12.8 FL OZ/A	LP	20	99	99	99	0	20
AG16098	0.5 % V/V	LP						
INTERLOCK	2 FL OZ/A	LP						
8 ENGENIA	12.8 FL OZ/A	LP	99	99	99	99	0	99
AG16098	0.5 % V/V	LP						
CLASS ACT RIDION	1 % V/V	LP						
CORNERSTONE 5 PLUS	24 FL OZ/A	LP						
INTERLOCK	2 FL OZ/A	LP						
9 ENGENIA	12.8 FL OZ/A	LP	20	99	99	99	0	20
AG16098	0.5 % V/V	LP						
ICONIC	0.5 % V/V	LP						
10 ENGENIA	12.8 FL OZ/A	LP	99	99	99	99	0	99
AG16098	0.5 % V/V	LP						
ICONIC	0.5 % V/V	LP						
CORNERSTONE 5 PLUS	24 FL OZ/A	LP						
LSD P=.05			.	3.1	.	.	.	.
Standard Deviation			0.0	1.8	0.0	0.0	0.0	0.0
CV			0.0	2.18	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	0.3874	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	1024.960	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 1,2,3,4,5,6,7,9,10,11,12,13,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-5-2017	7-5-2017	7-5-2017	10-6-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 40	56 40	56 40	149 133
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	143 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	19
1	UNTREATED				0	0	0	9.2
2	PRESIDUAL	3 PT/A		PRE	10	50	20	9.6
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE				
	CLASS ACT NG	2.5 GAL/100 GAL		PRE				
	INTERLOCK	4 FL OZ/A		PRE				
3	PRESIDUAL	3 PT/A		PRE	95	99	99	59.2
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE				
	CLASS ACT NG	2.5 GAL/100 GAL		PRE				
	INTERLOCK	4 FL OZ/A		PRE				
	ENGENIA	12.8 FL OZ/A		LP				
	AG16098	0.5 % V/V		LP				
	INTERLOCK	2 FL OZ/A		LP				
4	PRESIDUAL	3 PT/A		PRE	90	99	99	63.6
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE				
	CLASS ACT NG	2.5 GAL/100 GAL		PRE				
	INTERLOCK	4 FL OZ/A		PRE				
	ENGENIA	12.8 FL OZ/A		LP				
	AG16098	0.5 % V/V		LP				
	CLASS ACT RIDION	1 % V/V		LP				
	CORNERSTONE 5 PLUS	24 FL OZ/A		LP				
	INTERLOCK	2 FL OZ/A		LP				
5	PRESIDUAL	3 PT/A		PRE	95	99	99	73.3
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE				
	CLASS ACT NG	2.5 GAL/100 GAL		PRE				
	INTERLOCK	4 FL OZ/A		PRE				
	ENGENIA	12.8 FL OZ/A		LP				
	AG16098	0.5 % V/V		LP				
	ICONIC	0.5 % V/V		LP				
6	PRESIDUAL	3 PT/A		PRE	95	96	99	63.1
	CORNERSTONE 5 PLUS	24 FL OZ/A		PRE				
	CLASS ACT NG	2.5 GAL/100 GAL		PRE				
	INTERLOCK	4 FL OZ/A		PRE				
	ENGENIA	12.8 FL OZ/A		LP				
	AG16098	0.5 % V/V		LP				
	ICONIC	0.5 % V/V		LP				
	CORNERSTONE 5 PLUS	24 FL OZ/A		LP				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-5-2017	7-5-2017	7-5-2017	10-6-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 40	56 40	56 40	149 133
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	143 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt Treatment	Rate	Growth				
No. Name	Rate Unit	Stage	13	14	15	19
7 ENGENIA	12.8 FL OZ/A	LP	99	98	99	54.6
AG16098	0.5 % V/V	LP				
INTERLOCK	2 FL OZ/A	LP				
8 ENGENIA	12.8 FL OZ/A	LP	90	99	99	64.9
AG16098	0.5 % V/V	LP				
CLASS ACT RIDION	1 % V/V	LP				
CORNERSTONE 5 PLUS	24 FL OZ/A	LP				
INTERLOCK	2 FL OZ/A	LP				
9 ENGENIA	12.8 FL OZ/A	LP	99	99	99	62.0
AG16098	0.5 % V/V	LP				
ICONIC	0.5 % V/V	LP				
10 ENGENIA	12.8 FL OZ/A	LP	95	99	99	64.4
AG16098	0.5 % V/V	LP				
ICONIC	0.5 % V/V	LP				
CORNERSTONE 5 PLUS	24 FL OZ/A	LP				
LSD P=.05			.	1.9	.	7.34
Standard Deviation			0.0	1.1	0.0	4.28
CV			0.0	1.3	0.0	8.17
Replicate F			0.000	0.000	0.000	3.364
Replicate Prob(F)			1.0000	1.0000	1.0000	0.0574
Treatment F			0.000	2784.513	0.000	87.608
Treatment Prob(F)			1.0000	0.0001	1.0000	0.0001

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

University of Kentucky

NO TILL SOYBEAN II

Trial ID: S17021 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: WIN DTS Investigator: Sara Carter
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: TOM HAYDEN

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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 = $3.63 * [17] * (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN II

Trial ID: S17021 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: WIN DTS Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: TOM HAYDEN

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-6-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 160000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 7.5 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-16-2017
Harvest Date: 10-6-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 40 FT
Harvest Equipment: HEGE
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium **% Standard Moisture:** 13.0

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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

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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB L Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

Overall Moisture Conditions: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-10-2017	5-26-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	LP
Application Placement:	BROFOL	BROFOL
Applied By:	SARA CARTER	C H SLACK
Air Temperature, Unit:	80 F	77 F
% Relative Humidity:	40	46
Wind Velocity, Unit:	7 MPH	6 MPH
Wind Direction:	SW	SWW
Soil Temperature, Unit:	64 F	65 F
Soil Moisture:	GOOD	EXCELL
% Cloud Cover:	60	5
Next Moisture Occurred On:	5-11-2017	5-27-2017

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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:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	5 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1 IN	2 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 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	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 III

Trial ID: S17022 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-HPQ051A4 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

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 Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-24-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK
Days After First/Last Applic.	7 7	7 7	7 7	7 7	7 7	14 14
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER POST
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1	1 DE-1	8 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK UNTREATED				0	0	0	0	0	0
2	NIS	0.25 %	V/V	PRE	0	66	66	66	66	0
	GRAMOXONE	3	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
3	NIS	0.25 %	V/V	PRE	0	99	99	99	99	0
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
4	NIS	0.25 %	V/V	PRE	0	99	99	99	99	0
	TRICOR	0.25	LB A/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
5	NIS	0.25 %	V/V	PRE	0	99	99	99	99	0
	SPARTAN	5	FL OZ/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
6	NIS	0.25 %	V/V	PRE	0	99	99	99	99	0
	SONIC	4	OZ WT/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
7	NIS	0.25 %	V/V	PRE	0	99	99	99	99	0
	TRICOR	0.25	LB A/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	PREFIX	2	PT/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

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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 Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-24-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK
Days After First/Last Applic.	7 7	7 7	7 7	7 7	7 7	14 14
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER POST
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1	1 DE-1	8 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
8	NIS	0.25 % V/V	PRE	0	99	99	99	99	0
	XTENDIMAX	22 FL OZ/A	PRE						
	A22102C	4.5 PT/A	PRE						
	AG13063	1 % V/V	MP						
	A21472C	56.5 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
9	NIS	0.25 % V/V	PRE	0	99	99	99	99	0
	BOUNDARY	1.8 PT/A	PRE						
	GRAMOXONE	3 PT/A	PRE						
	AG13063	1 % V/V	MP						
	FLEXSTAR GT	4.5 PT/A	MP						
	MSO	1 % V/V	MP						
LSD P=.05				.	33.0	33.0	33.0	33.0	.
Standard Deviation				0.0	19.1	19.1	19.1	19.1	0.0
CV				0.0	22.59	22.59	22.59	22.59	0.0
Replicate F				0.000	1.000	1.000	1.000	1.000	0.000
Replicate Prob(F)				1.0000	0.3897	0.3897	0.3897	0.3897	1.0000
Treatment F				0.000	9.250	9.250	9.250	9.250	0.000
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	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 Name					Soybean		
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-8-2017	6-8-2017	6-8-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	29 2	29 2	29 2
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AT POST	AT POST	AT POST
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	23 DE-1	23 DE-1	23 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12	13
No.	Name	Rate Unit	Stage							
1	CHECK UNTREATED			0	0	0	0	0	0	0
2	NIS	0.25 % V/V	PRE	66	66	66	66	0	66	80
	GRAMOXONE	3 PT/A	PRE							
	AG13063	1 % V/V	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
3	NIS	0.25 % V/V	PRE	99	99	99	99	0	99	84
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
4	NIS	0.25 % V/V	PRE	99	99	99	99	0	99	82
	TRICOR	0.25 LB A/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
5	NIS	0.25 % V/V	PRE	99	99	99	99	0	99	87
	SPARTAN	5 FL OZ/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
6	NIS	0.25 % V/V	PRE	99	99	99	99	0	99	93
	SONIC	4 OZ WT/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
7	NIS	0.25 % V/V	PRE	99	99	99	99	0	99	80
	TRICOR	0.25 LB A/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	PREFIX	2 PT/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

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 Name	Soybean								
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-8-2017	6-8-2017			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1	1			
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	29 2	29 2			
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AT POST	AT POST			
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	23 DE-1	23 DE-1			
ARM Action Codes	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Rate	Growth	7	8	9	10	11	12	13
No. Name	Rate Unit	Stage							
8 NIS	0.25 % V/V	PRE	99	99	99	99	0	99	91
XTENDIMAX	22 FL OZ/A	PRE							
A22102C	4.5 PT/A	PRE							
AG13063	1 % V/V	MP							
A21472C	56.5 FL OZ/A	MP							
ROUNDUP POWERMAX	32 FL OZ/A	MP							
9 NIS	0.25 % V/V	PRE	99	99	99	99	0	99	85
BOUNDARY	1.8 PT/A	PRE							
GRAMOXONE	3 PT/A	PRE							
AG13063	1 % V/V	MP							
FLEXSTAR GT	4.5 PT/A	MP							
MSO	1 % V/V	MP							
LSD P=.05			33.0	33.0	33.0	33.0	.	33.0	4.9
Standard Deviation			19.1	19.1	19.1	19.1	0.0	19.1	2.8
CV			22.59	22.59	22.59	22.59	0.0	22.59	3.72
Replicate F			1.000	1.000	1.000	1.000	0.000	1.000	0.812
Replicate Prob(F)			0.3897	0.3897	0.3897	0.3897	1.0000	0.3897	0.4614
Treatment F			9.250	9.250	9.250	9.250	0.000	9.250	312.109
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	ERICA		SETFA	AMBTR	IPOSS	ERICA
Pest Name	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory	Marestail
Crop Code			GLXMA				
Crop Name			Soybean				
Rating Date	6-8-2017	6-8-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK
Days After First/Last Applic.	29 2	29 2	36 9	36 9	36 9	36 9	36 9
Trt-Eval Interval	AT POST	AT POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	23 DE-1	23 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	14	15	16	17	18	19	20
No.	Name	Rate Unit	Stage							
1	CHECK UNTREATED			0	0	0	0	0	0	0
2	NIS	0.25 % V/V	PRE	77	66	0	66	99	99	66
	GRAMOXONE	3 PT/A	PRE							
	AG13063	1 % V/V	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
3	NIS	0.25 % V/V	PRE	87	99	0	99	99	99	99
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
4	NIS	0.25 % V/V	PRE	83	99	0	99	99	99	99
	TRICOR	0.25 LB A/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
5	NIS	0.25 % V/V	PRE	84	99	0	99	99	99	99
	SPARTAN	5 FL OZ/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
6	NIS	0.25 % V/V	PRE	93	99	0	99	99	99	99
	SONIC	4 OZ WT/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	A21472C	56.5 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
7	NIS	0.25 % V/V	PRE	80	99	5	99	99	99	99
	TRICOR	0.25 LB A/A	PRE							
	A22102C	4.5 PT/A	PRE							
	AG13063	1 % V/V	MP							
	PREFIX	2 PT/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	ERICA		SETFA	AMBTR	IPOSS	ERICA
Pest Name	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory	Marestail
Crop Code			GLXMA				
Crop Name			Soybean				
Rating Date	6-8-2017	6-8-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK
Days After First/Last Applic.	29 2	29 2	36 9	36 9	36 9	36 9	36 9
Trt-Eval Interval	AT POST	AT POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	23 DE-1	23 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth								
No.	Name	Rate Unit	Stage	14	15	16	17	18	19	20	
8	NIS	0.25 % V/V	PRE	93	99	0	99	99	99	99	
	XTENDIMAX	22 FL OZ/A	PRE								
	A22102C	4.5 PT/A	PRE								
	AG13063	1 % V/V	MP								
	A21472C	56.5 FL OZ/A	MP								
	ROUNDUP POWERMAX	32 FL OZ/A	MP								
9	NIS	0.25 % V/V	PRE	83	99	10	99	99	99	99	
	BOUNDARY	1.8 PT/A	PRE								
	GRAMOXONE	3 PT/A	PRE								
	AG13063	1 % V/V	MP								
	FLEXSTAR GT	4.5 PT/A	MP								
	MSO	1 % V/V	MP								
LSD P=.05				7.8	33.0	.	33.0	.	.	33.0	
Standard Deviation				4.5	19.1	0.0	19.1	0.0	0.0	19.1	
CV				5.94	22.59	0.0	22.59	0.0	0.0	22.59	
Replicate F				0.322	1.000	0.000	1.000	0.000	0.000	1.000	
Replicate Prob(F)				0.7290	0.3897	1.0000	0.3897	1.0000	1.0000	0.3897	
Treatment F				124.276	9.250	0.000	9.250	0.000	0.000	9.250	
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	1.0000	1.0000	0.0001	

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

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 Name	Soybean					Soybean
Rating Date	6-22-2017	6-22-2017	6-22-2017	6-22-2017	6-22-2017	7-6-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	43 16	43 16	43 16	43 16	43 16	57 30
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	21		22		23		24		25		26	
No.	Name	Rate Unit	Stage												
1	CHECK UNTREATED			0	0	0	0	0	0	0	0	0	0	0	0
2	NIS	0.25 % V/V	PRE	0	66	99	99	99	99	66	0				
	GRAMOXONE	3 PT/A	PRE												
	AG13063	1 % V/V	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												
3	NIS	0.25 % V/V	PRE	0	99	99	99	99	99	99	0				
	A22102C	4.5 PT/A	PRE												
	AG13063	1 % V/V	MP												
	A21472C	56.5 FL OZ/A	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												
4	NIS	0.25 % V/V	PRE	0	99	99	99	99	99	99	0				
	TRICOR	0.25 LB A/A	PRE												
	A22102C	4.5 PT/A	PRE												
	AG13063	1 % V/V	MP												
	A21472C	56.5 FL OZ/A	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												
5	NIS	0.25 % V/V	PRE	0	99	99	99	99	99	99	0				
	SPARTAN	5 FL OZ/A	PRE												
	A22102C	4.5 PT/A	PRE												
	AG13063	1 % V/V	MP												
	A21472C	56.5 FL OZ/A	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												
6	NIS	0.25 % V/V	PRE	0	99	99	99	99	99	99	0				
	SONIC	4 OZ WT/A	PRE												
	A22102C	4.5 PT/A	PRE												
	AG13063	1 % V/V	MP												
	A21472C	56.5 FL OZ/A	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												
7	NIS	0.25 % V/V	PRE	0	99	99	99	99	99	99	0				
	TRICOR	0.25 LB A/A	PRE												
	A22102C	4.5 PT/A	PRE												
	AG13063	1 % V/V	MP												
	PREFIX	2 PT/A	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

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 Name	Soybean					Soybean
Rating Date	6-22-2017	6-22-2017	6-22-2017	6-22-2017	6-22-2017	7-6-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	43 16	43 16	43 16	43 16	43 16	57 30
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	21	22	23	24	25	26
8	NIS	0.25 % V/V	PRE	0	99	99	99	99	0
	XTENDIMAX	22 FL OZ/A	PRE						
	A22102C	4.5 PT/A	PRE						
	AG13063	1 % V/V	MP						
	A21472C	56.5 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
9	NIS	0.25 % V/V	PRE	0	99	99	99	99	0
	BOUNDARY	1.8 PT/A	PRE						
	GRAMOXONE	3 PT/A	PRE						
	AG13063	1 % V/V	MP						
	FLEXSTAR GT	4.5 PT/A	MP						
	MSO	1 % V/V	MP						
LSD P=.05				.	33.0	.	.	33.0	.
Standard Deviation				0.0	19.1	0.0	0.0	19.1	0.0
CV				0.0	22.59	0.0	0.0	22.59	0.0
Replicate F				0.000	1.000	0.000	0.000	1.000	0.000
Replicate Prob(F)				1.0000	0.3897	1.0000	1.0000	0.3897	1.0000
Treatment F				0.000	9.250	0.000	0.000	9.250	0.000
Treatment Prob(F)				1.0000	0.0001	1.0000	1.0000	0.0001	1.0000

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	7-6-2017	7-6-2017	7-6-2017	7-6-2017	8-3-2017	8-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	57 30	57 30	57 30	57 30	85 58	85 58
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1	79 DE-1	79 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	27	28	29	30	31	32
1	CHECK UNTREATED				0	0	0	0	0	0
2	NIS	0.25 %	V/V	PRE	66	99	99	66	0	66
	GRAMOXONE	3	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
3	NIS	0.25 %	V/V	PRE	99	99	99	99	0	99
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
4	NIS	0.25 %	V/V	PRE	99	99	99	99	0	99
	TRICOR	0.25	LB A/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
5	NIS	0.25 %	V/V	PRE	99	99	99	99	0	99
	SPARTAN	5	FL OZ/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
6	NIS	0.25 %	V/V	PRE	99	99	99	99	0	99
	SONIC	4	OZ WT/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	A21472C	56.5	FL OZ/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						
7	NIS	0.25 %	V/V	PRE	99	99	99	99	0	99
	TRICOR	0.25	LB A/A	PRE						
	A22102C	4.5	PT/A	PRE						
	AG13063	1 %	V/V	MP						
	PREFIX	2	PT/A	MP						
	ROUNDUP POWERMAX	32	FL OZ/A	MP						

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS	ERICA	SETFA	SETFA		
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail		
Crop Code					GLXMA			
Crop Name					Soybean			
Rating Date	7-6-2017	7-6-2017	7-6-2017	7-6-2017	8-3-2017	8-3-2017		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	57 30	57 30	57 30	57 30	85 58	85 58		
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST		
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1	79 DE-1	79 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Growth	27	28	29	30	31	32
No. Name	Rate Unit	Stage						
8 NIS	0.25 % V/V	PRE	99	99	99	99	0	99
XTENDIMAX	22 FL OZ/A	PRE						
A22102C	4.5 PT/A	PRE						
AG13063	1 % V/V	MP						
A21472C	56.5 FL OZ/A	MP						
ROUNDUP POWERMAX	32 FL OZ/A	MP						
9 NIS	0.25 % V/V	PRE	99	99	99	99	0	99
BOUNDARY	1.8 PT/A	PRE						
GRAMOXONE	3 PT/A	PRE						
AG13063	1 % V/V	MP						
FLEXSTAR GT	4.5 PT/A	MP						
MISO	1 % V/V	MP						
LSD P=.05			33.0	.	.	33.0	.	33.0
Standard Deviation			19.1	0.0	0.0	19.1	0.0	19.1
CV			22.59	0.0	0.0	22.59	0.0	22.59
Replicate F			1.000	0.000	0.000	1.000	0.000	1.000
Replicate Prob(F)			0.3897	1.0000	1.0000	0.3897	1.0000	0.3897
Treatment F			9.250	0.000	0.000	9.250	0.000	9.250
Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001	1.0000	0.0001

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA
Pest Name	Giant ragweed	Morning glory	Marestail
Crop Code			
Crop Name			
Rating Date	8-3-2017	8-3-2017	8-3-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	85 58	85 58	85 58
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	79 DE-1	79 DE-1	79 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	33	34	35
		Rate Unit				
1	CHECK UNTREATED			0	0	0
2	NIS	0.25 % V/V	PRE	99	99	66
	GRAMOXONE	3 PT/A	PRE			
	AG13063	1 % V/V	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
3	NIS	0.25 % V/V	PRE	99	99	99
	A22102C	4.5 PT/A	PRE			
	AG13063	1 % V/V	MP			
	A21472C	56.5 FL OZ/A	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
4	NIS	0.25 % V/V	PRE	99	99	99
	TRICOR	0.25 LB A/A	PRE			
	A22102C	4.5 PT/A	PRE			
	AG13063	1 % V/V	MP			
	A21472C	56.5 FL OZ/A	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
5	NIS	0.25 % V/V	PRE	99	99	99
	SPARTAN	5 FL OZ/A	PRE			
	A22102C	4.5 PT/A	PRE			
	AG13063	1 % V/V	MP			
	A21472C	56.5 FL OZ/A	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
6	NIS	0.25 % V/V	PRE	99	99	99
	SONIC	4 OZ WT/A	PRE			
	A22102C	4.5 PT/A	PRE			
	AG13063	1 % V/V	MP			
	A21472C	56.5 FL OZ/A	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
7	NIS	0.25 % V/V	PRE	99	99	99
	TRICOR	0.25 LB A/A	PRE			
	A22102C	4.5 PT/A	PRE			
	AG13063	1 % V/V	MP			
	PREFIX	2 PT/A	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA
Pest Name	Giant ragweed	Morning glory	Marestail
Crop Code			
Crop Name			
Rating Date	8-3-2017	8-3-2017	8-3-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	85 58	85 58	85 58
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST
Days After Emergence	79 DE-1	79 DE-1	79 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	33	34	35
8	NIS	0.25 %	V/V	PRE	99	99	99
	XTENDIMAX	22 FL	OZ/A	PRE			
	A22102C	4.5 PT/A		PRE			
	AG13063	1 %	V/V	MP			
	A21472C	56.5 FL	OZ/A	MP			
	ROUNDUP POWERMAX	32 FL	OZ/A	MP			
9	NIS	0.25 %	V/V	PRE	99	99	99
	BOUNDARY	1.8 PT/A		PRE			
	GRAMOXONE	3 PT/A		PRE			
	AG13063	1 %	V/V	MP			
	FLEXSTAR GT	4.5 PT/A		MP			
	MSO	1 %	V/V	MP			
LSD P=.05					.	.	33.0
Standard Deviation					0.0	0.0	19.1
CV					0.0	0.0	22.59
Replicate F					0.000	0.000	1.000
Replicate Prob(F)					1.0000	1.0000	0.3897
Treatment F					0.000	0.000	9.250
Treatment Prob(F)					1.0000	1.0000	0.0001

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,19,21,23,24,26,28,29,31,33,34 because error mean square = 0.

University of Kentucky

NO TILL SOYBEAN III

Trial ID: S17022 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: SYN-HPQ051A4 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN III

Trial ID: S17022 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-HPQ051A4 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-20-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 160000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 7.5 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 59 F **Emergence Date:** 5-16-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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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

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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT2 **Treatments:** 9 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB L 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

Moisture and Weather Conditions

Overall Moisture Conditions: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-10-2017	6-6-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	SARA CARTER	C H SLACK
Air Temperature, Unit:	80 F	70 F
% Relative Humidity:	40	55
Wind Velocity, Unit:	7 MPH	6 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	64 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	60	40
Next Moisture Occurred On:	5-11-2017	6-13-2017

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Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAFAI	FLAFAI
Nozzle Size:	TTI 003	TTI 003
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:	15 GPA	15 GPA
Mix Size, Unit:	2.2 liters	2.2 liters
Propellant:	CO2	CO2

University of Kentucky

NO TILL SOYBEAN IV

Trial ID: S17023 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-17-130-EH Investigator: Sara Carter
 Project ID: Study Director: ERIN HARAMOTO
 Sponsor Contact: KELLY BACKSCHEIDER

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		AMBTR	ERICA	VIORA	AMBTR
Pest Name		Giant ragweed	Marestail	Johnny-jump-up violet	Giant ragweed
Crop Code	GLXMA				GLXMA
Crop Name	Soybean				Soybean
Rating Date	5-25-2017	5-25-2017	5-25-2017	5-25-2017	6-19-2017
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	PHYGEN
Rating Unit	0-10	PERCENT	PERCENT	PERCENT	0-10
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	AT POST
Days After First/Last Applic.	15 15	15 15	15 15	15 15	40 40
Trt-Eval Interval	AFTER APPL	AFTER APPL			
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	38 DE-1

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	
1	TRIVENCE	8 OZ/A	PRE	0.0	100.0	90.0		89.4	1.0	100.0
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
2	TRIVENCE	8 OZ/A	PRE	0.0	100.0	90.0		88.3	0.7	100.0
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
3	ENVIVE	3.5 OZ/A	PRE	0.0	100.0	90.0		91.7	0.7	100.0
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
4	ENVIVE	3.5 OZ/A	PRE	0.0	100.0	90.0		91.9	1.0	100.0
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
5	CANOPY	6 OZ/A	PRE	0.0	100.0	90.0		88.3	1.7	100.0
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
6	CANOPY	6 OZ/A	PRE	0.0	100.0	90.0		88.3	2.3	100.0
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							

Missing data estimates are included in columns: Yates=4; Average=3,7
 Could not calculate LSD (% mean diff) for columns 1,2,3,11,15,16,17,19 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed					
Pest Code		AMBTR	ERICA	VIORA	AMBTR					
Pest Name		Giant ragweed	Marestail	Johnny-jump-up violet	Giant ragweed					
Crop Code	GLXMA				GLXMA					
Crop Name	Soybean				Soybean					
Rating Date	5-25-2017	5-25-2017	5-25-2017	5-25-2017	6-19-2017					
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	PHYGEN					
Rating Unit	0-10	PERCENT	PERCENT	PERCENT	0-10					
Number of Subsamples	1	1	1	1	1					
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	AT POST					
Days After First/Last Applic.	15 15	15 15	15 15	15 15	40 40					
Trt-Eval Interval	AFTER APPL	AFTER APPL								
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	38 DE-1					
Trt No.	Treatment Name	Rate	Growth	1	2	3	4	5	6	
7	AUTHORITY MTZ	14 OZ/A	PRE	0.0	100.0	90.0		90.0	0.7	56.7
	XTENDIMAX	22 FL OZ/A	PRE							
	ROUNDUP POWERMAX	32 FL OZ/A	PRE							
	XTENDIMAX	22 FL OZ/A	MP							
	ROUNDUP POWERMAX	32 FL OZ/A	MP							
8	CHECK UNTREATED			0.0	0.0	0.0		0.0	0.0	0.0
	LSD P=.05			.	.	.		6.87	1.35	9.46
	Standard Deviation			0.00	0.00	0.00		3.86	0.77	5.40
	CV			0.0	0.0	0.0		4.92	77.15	6.58
	Replicate F			0.000	0.000	0.000		15.494	2.520	1.000
	Replicate Prob(F)			1.0000	1.0000	1.0000		0.0005	0.1162	0.3927
	Treatment F			0.000	0.000	0.000		202.805	2.560	136.796
	Treatment Prob(F)			1.0000	1.0000	1.0000		0.0001	0.0637	0.0001

Missing data estimates are included in columns: Yates=4; Average=3,7

Could not calculate LSD (% mean diff) for columns 1,2,3,11,15,16,17,19 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	VIORA	AMBTR	ERICA	AMACH
Pest Name	Marestail Johnny-jump-up violet		Giant ragweed	Marestail	Smooth pigweed
Crop Code		GLXMA			GLXMA
Crop Name		Soybean			Soybean
Rating Date	6-19-2017	6-19-2017	7-7-2017	7-7-2017	7-7-2017
Rating Type	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	0-10	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	AT POST	AT POST	18 DAT	18 DAT	18 DAT
Days After First/Last Applic.	40 40	40 40	58 18	58 18	58 18
Trt-Eval Interval					
Days After Emergence	38 DE-1	38 DE-1	56 DE-1	56 DE-1	56 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12	13
1	TRIVENCE	8 OZ/A	PRE	97.5	90.0	0.17	98.3	100.0	100.0	0.00
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
2	TRIVENCE	8 OZ/A	PRE	100.0	95.0	0.33	93.3	100.0	100.0	0.17
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
3	ENVIVE	3.5 OZ/A	PRE	95.0	96.7	0.00	88.3	100.0	100.0	0.17
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
4	ENVIVE	3.5 OZ/A	PRE	100.0	100.0	0.50	96.7	100.0	90.0	0.17
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							
5	CANOPY	6 OZ/A	PRE	100.0	95.0	0.00	88.3	100.0	90.0	0.17
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
6	CANOPY	6 OZ/A	PRE	97.5	98.3	0.50	96.7	100.0	86.7	0.17
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	PRE							
	FEXAPAN	22 FL OZ/A	PRE							
	ABUNDIT EDGE	22 FL OZ/A	MP							
	FEXAPAN	22 FL OZ/A	MP							
	CINCH	1 PT/A	MP							

Missing data estimates are included in columns: Yates=4; Average=3,7
 Could not calculate LSD (% mean diff) for columns 1,2,3,11,15,16,17,19 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	ERICA	VIORA	AMBTR	ERICA	AMACH					
Pest Name	Marestail	Johnny-jump-up violet	Giant ragweed	Marestail	Smooth pigweed					
Crop Code			GLXMA		GLXMA					
Crop Name			Soybean		Soybean					
Rating Date	6-19-2017	6-19-2017	7-7-2017	7-7-2017	7-7-2017					
Rating Type	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	0-10	PERCENT	PERCENT					
Number of Subsamples	1	1	1	1	1					
Rating Timing	AT POST	AT POST	18 DAT	18 DAT	18 DAT					
Days After First/Last Applic.	40 40	40 40	58 18	58 18	58 18					
Trt-Eval Interval										
Days After Emergence	38 DE-1	38 DE-1	56 DE-1	56 DE-1	56 DE-1					
Trt Treatment	Rate	Growth								
No. Name	Rate Unit	Stage	7	8	9	10	11	12	13	
7 AUTHORITY MTZ	14 OZ/A	PRE	100.0		56.7	0.00	93.3	100.0	100.0	0.00
XTENDIMAX	22 FL OZ/A	PRE								
ROUNDUP POWERMAX	32 FL OZ/A	PRE								
XTENDIMAX	22 FL OZ/A	MP								
ROUNDUP POWERMAX	32 FL OZ/A	MP								
8 CHECK UNTREATED			0.0		0.0	0.00	0.0	100.0	0.0	0.00
LSD P=.05			4.54		23.39	0.270	9.55	.	15.05	0.351
Standard Deviation			2.17		13.36	0.154	5.46	0.00	8.59	0.200
CV			2.51		16.92	82.3	6.66	0.0	10.31	192.43
Replicate F			0.167		0.286	0.000	1.680	0.000	0.226	3.370
Replicate Prob(F)			0.8510		0.7555	1.0000	0.2218	1.0000	0.8007	0.0638
Treatment F			779.429		20.416	6.438	111.715	0.000	47.355	0.556
Treatment Prob(F)			0.0001		0.0001	0.0016	0.0001	1.0000	0.0001	0.7793

Missing data estimates are included in columns: Yates=4; Average=3,7

Could not calculate LSD (% mean diff) for columns 1,2,3,11,15,16,17,19 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	AMACH		AMBTR	ERICA	AMACH		AMACH
Pest Name	Giant ragweed	Marestail	Smooth pigweed		Giant ragweed	Marestail	Smooth pigweed		Smooth pigweed
Crop Code				GLXMA					
Crop Name				Soybean					
Rating Date	7-21-2017	7-21-2017	7-21-2017	8-4-2017	8-4-2017	8-4-2017	8-4-2017	8-4-2017	8-4-2017
Rating Type	CONTROL	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	0-10	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1	1
Rating Timing	32 DAT	32 DAT	32 DAT	46 DAT	46 DAT	46 DAT	46 DAT	46 DAT	46 DAT
Days After First/Last Applic.	72 32	72 32	72 32	86 46	86 46	86 46	86 46	86 46	86 46
Trt-Eval Interval									
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	84 DE-1	84 DE-1	84 DE-1	84 DE-1	84 DE-1	84 DE-1
Trt Treatment	Rate	Growth	14	15	16	17	18	19	20
No. Name	Rate Unit	Stage							
1 TRIVENCE	8 OZ/A	PRE	100.0	100.0	100.0	0.0	98.3	100.0	100.0
ABUNDIT EDGE	22 FL OZ/A	PRE							
FEXAPAN	22 FL OZ/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	MP							
FEXAPAN	22 FL OZ/A	MP							
2 TRIVENCE	8 OZ/A	PRE	100.0	100.0	100.0	0.0	100.0	100.0	96.7
ABUNDIT EDGE	22 FL OZ/A	PRE							
FEXAPAN	22 FL OZ/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	MP							
FEXAPAN	22 FL OZ/A	MP							
CINCH	1 PT/A	MP							
3 ENVIVE	3.5 OZ/A	PRE	96.7	100.0	100.0	0.0	100.0	100.0	100.0
ABUNDIT EDGE	22 FL OZ/A	PRE							
FEXAPAN	22 FL OZ/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	MP							
FEXAPAN	22 FL OZ/A	MP							
4 ENVIVE	3.5 OZ/A	PRE	100.0	100.0	100.0	0.0	100.0	100.0	100.0
ABUNDIT EDGE	22 FL OZ/A	PRE							
FEXAPAN	22 FL OZ/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	MP							
FEXAPAN	22 FL OZ/A	MP							
CINCH	1 PT/A	MP							
5 CANOPY	6 OZ/A	PRE	86.7	100.0	100.0	0.0	100.0	100.0	100.0
CINCH	1 PT/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	PRE							
FEXAPAN	22 FL OZ/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	MP							
FEXAPAN	22 FL OZ/A	MP							
6 CANOPY	6 OZ/A	PRE	100.0	100.0	100.0	0.0	100.0	100.0	100.0
CINCH	1 PT/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	PRE							
FEXAPAN	22 FL OZ/A	PRE							
ABUNDIT EDGE	22 FL OZ/A	MP							
FEXAPAN	22 FL OZ/A	MP							
CINCH	1 PT/A	MP							

Missing data estimates are included in columns: Yates=4; Average=3,7
 Could not calculate LSD (% mean diff) for columns 1,2,3,11,15,16,17,19 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	ERICA	AMACH		AMBTR	ERICA	AMACH		
Pest Name	Giant ragweed	Marestail	Smooth pigweed		Giant ragweed	Marestail	Smooth pigweed		
Crop Code				GLXMA					
Crop Name				Soybean					
Rating Date	7-21-2017	7-21-2017	7-21-2017	8-4-2017	8-4-2017	8-4-2017	8-4-2017		
Rating Type	CONTROL	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	0-10	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1		
Rating Timing	32 DAT	32 DAT	32 DAT	46 DAT	46 DAT	46 DAT	46 DAT		
Days After First/Last Applic.	72 32	72 32	72 32	86 46	86 46	86 46	86 46		
Trt-Eval Interval									
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	84 DE-1	84 DE-1	84 DE-1	84 DE-1		
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	14	15	16	17	18	19	20
7 AUTHORITY MTZ	14 OZ/A	PRE	86.7	100.0	100.0	0.0	100.0	100.0	100.0
XTENDIMAX	22 FL OZ/A	PRE							
ROUNDUP POWERMAX	32 FL OZ/A	PRE							
XTENDIMAX	22 FL OZ/A	MP							
ROUNDUP POWERMAX	32 FL OZ/A	MP							
8 CHECK UNTREATED			0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD P=.05			15.35	.	.	.	1.79	.	3.57
Standard Deviation			8.76	0.00	0.00	0.00	1.02	0.00	2.04
CV			10.46	0.0	0.0	0.0	1.17	0.0	2.34
Replicate F			2.116	0.000	0.000	0.000	1.000	0.000	1.000
Replicate Prob(F)			0.1574	1.0000	1.0000	1.0000	0.3927	1.0000	0.3927
Treatment F			46.070	0.000	0.000	0.000	3583.858	0.000	892.429
Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	0.0001	1.0000	0.0001

Missing data estimates are included in columns: Yates=4; Average=3,7

Could not calculate LSD (% mean diff) for columns 1,2,3,11,15,16,17,19 because error mean square = 0.

University of Kentucky

NO TILL SOYBEAN IV

Trial ID: S17023 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DUP-17-130-EH Investigator: Sara Carter
Project ID: Study Director: ERIN HARAMOTO
Sponsor Contact: KELLY BACKSCHEIDER

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

ERICA, Erigeron canadensis, Maretail = US

VIORA, Viola bicolor, Johnny-jump-up violet = US

AMACH, Amaranthus hybridus, Smooth pigweed = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

PHYGEN = phytotoxicity - general / injury

Rating Unit

0-10 = 0-10 index/scale

PERCENT = percent

University of Kentucky

NO TILL SOYBEAN IV

Trial ID: S17023 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-17-130-EH Investigator: Sara Carter
 Project ID: Study Director: ERIN HARAMOTO
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: ERIN HARAMOTO **Title:** PROFESSOR
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-31-2017

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: ERIN HARAMOTO **Title:** PROFESSOR
Organization: UNIVERSITY OF KENTUCKY
Address: 413 PLANT SCIENCE BUILDING **Phone No.:** 859-218-0745
City+State/Prov.: LEXINGTON, KENTUCKY
Postal Code: 40546-0312 **E-mail:** erin.haramoto@uky.edu

Investigator: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: P40T84X

Planting Rate, Unit: 160000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 7.5 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 59 F **Emergence Date:** 5-12-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W **Code:** ERICA Erigeron canadensis
Common Name: Marestail

Pest 3 Type: W **Code:** VIORA Viola bicolor
Common Name: Johnny-jump-up violet

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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 8 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-10-2017	6-19-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	SARA CARTER	MATTHEW A
Air Temperature, Unit:	78 F	78 F
% Relative Humidity:	60	60
Wind Velocity, Unit:	2 MPH	4 MPH
Wind Direction:	SW	W
Soil Temperature, Unit:	65 F	73 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	60	60
Next Moisture Occurred On:	5-11-2017	6-22-2017

University of Kentucky

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:	AMBTR W	AMBTR W
Height, Unit:	2 IN	8 IN
Pest 2 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 IN	6 IN
Pest 3 Code, Type, Scale:	VIORA W	VIORA W
Height, Unit:	3 IN	
Pest 4 Code, Type, Scale:	AMACH W	AMACH W
Height, Unit:	3	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation Pressure, Unit:	40 PSI	40 PSI
Nozzle Type:	ARINDL	ARINDL
Nozzle Size:	TTI 03	TTI 03
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:	18 GPA	18 GPA
Mix Size, Unit:	2.7 liters	2.7 liters
Propellant:	CO2	CO2

University of Kentucky

NO TILL SOYBEAN V

Trial ID: S17024 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-HDC050A4 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

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 Name	Soybean					Soybean
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-23-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	30 14	30 14	30 14	30 14	30 14	44 3
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	38 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
1	CHECK UNTREATED			0	0	0	0	0	0
2	BOUNDARY	1 QT/A	PRE	0	99	99	99	70	0
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
3	BROADAXE XC	25 FL OZ/A	PRE	0	99	99	99	50	0
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
4	PREFIX	1 QT/A	PRE	0	99	99	99	50	0
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
5	BOUNDARY	1 QT/A	PRE	0	99	99	99	50	0
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	FLEXSTAR	24 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
6	BROADAXE XC	25 FL OZ/A	PRE	0	99	99	99	70	0
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	FLEXSTAR	24 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
7	VALOR XLT	3 OZ WT/A	PRE	0	99	99	99	99	0
	AG13063	1 % V/V	+MP/R1						
	XTENDIMAX	55 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
8	AG13063	1 % V/V	MP	0	99	99	99	99	0
	A21472C	56.5 FL OZ/A	MP						
	ROUNDUP POWERMAX	28.4 FL OZ/A	MP						
9	AG13063	1 % V/V	MP	0	99	99	99	99	0
	XTENDIMAX	22 FL OZ/A	MP						
	ROUNDUP POWERMAX	28.4 FL OZ/A	MP						

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

University of Kentucky

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 Name	Soybean					Soybean		
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-23-2017		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK		
Days After First/Last Applic.	30 14	30 14	30 14	30 14	30 14	44 3		
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	38 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
10 AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	99	0
XTENDIMAX	22 FL OZ/A	MP						
ROUNDUP POWERMAX	28.4 FL OZ/A	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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017	7-21-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	44 3	44 3	44 3	44 3	72 31	72 31
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	66 DE-1	66 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	CHECK UNTREATED			0	0	0	0	0	0
2	BOUNDARY	1 QT/A	PRE	99	99	99	70	0	99
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
3	BROADAXE XC	25 FL OZ/A	PRE	99	99	99	50	0	99
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
4	PREFIX	1 QT/A	PRE	99	99	99	50	0	99
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
5	BOUNDARY	1 QT/A	PRE	99	99	99	50	0	99
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	FLEXSTAR	24 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
6	BROADAXE XC	25 FL OZ/A	PRE	99	99	99	70	0	99
	AG13063	1 % V/V	+MP/R1						
	A21472C	56.5 FL OZ/A	+MP/R1						
	FLEXSTAR	24 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
7	VALOR XLT	3 OZ WT/A	PRE	99	99	99	99	0	99
	AG13063	1 % V/V	+MP/R1						
	XTENDIMAX	55 FL OZ/A	+MP/R1						
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1						
8	AG13063	1 % V/V	MP	99	99	99	99	0	99
	A21472C	56.5 FL OZ/A	MP						
	ROUNDUP POWERMAX	28.4 FL OZ/A	MP						
9	AG13063	1 % V/V	MP	99	99	99	99	0	99
	XTENDIMAX	22 FL OZ/A	MP						
	ROUNDUP POWERMAX	28.4 FL OZ/A	MP						

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS	ERICA	SETFA	SETFA		
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Giant foxtail	Giant foxtail		
Crop Code					GLXMA			
Crop Name					Soybean			
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017	7-21-2017		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	44 3	44 3	44 3	44 3	72 31	72 31		
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	66 DE-1	66 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	7	8	9	10	11	12
10 AUTHORITY MTZ	14 OZ/A	PRE	99	99	99	99	0	99
XTENDIMAX	22 FL OZ/A	MP						
ROUNDUP POWERMAX	28.4 FL OZ/A	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

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-21-2017	7-21-2017	7-21-2017	10-6-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	72 31	72 31	72 31	149 108
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	66 DE-1	66 DE-1	66 DE-1	143 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	19
		Rate Unit					
1	CHECK UNTREATED			0	0	0	0.6
2	BOUNDARY	1 QT/A	PRE	99	99	70	83.1
	AG13063	1 % V/V	+MP/R1				
	A21472C	56.5 FL OZ/A	+MP/R1				
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1				
3	BROADAXE XC	25 FL OZ/A	PRE	99	99	50	87.2
	AG13063	1 % V/V	+MP/R1				
	A21472C	56.5 FL OZ/A	+MP/R1				
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1				
4	PREFIX	1 QT/A	PRE	99	99	50	82.7
	AG13063	1 % V/V	+MP/R1				
	A21472C	56.5 FL OZ/A	+MP/R1				
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1				
5	BOUNDARY	1 QT/A	PRE	99	99	50	86.4
	AG13063	1 % V/V	+MP/R1				
	A21472C	56.5 FL OZ/A	+MP/R1				
	FLEXSTAR	24 FL OZ/A	+MP/R1				
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1				
6	BROADAXE XC	25 FL OZ/A	PRE	99	99	70	86.2
	AG13063	1 % V/V	+MP/R1				
	A21472C	56.5 FL OZ/A	+MP/R1				
	FLEXSTAR	24 FL OZ/A	+MP/R1				
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1				
7	VALOR XLT	3 OZ WT/A	PRE	99	99	99	88.9
	AG13063	1 % V/V	+MP/R1				
	XTENDIMAX	55 FL OZ/A	+MP/R1				
	ROUNDUP POWERMAX	28.4 FL OZ/A	+MP/R1				
8	AG13063	1 % V/V	MP	99	99	99	78.9
	A21472C	56.5 FL OZ/A	MP				
	ROUNDUP POWERMAX	28.4 FL OZ/A	MP				
9	AG13063	1 % V/V	MP	99	99	99	75.5
	XTENDIMAX	22 FL OZ/A	MP				
	ROUNDUP POWERMAX	28.4 FL OZ/A	MP				

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed		
Pest Code		AMBTR	IPOSS	ERICA		
Pest Name		Giant ragweed	Morning glory	Marestail		
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date		7-21-2017	7-21-2017	7-21-2017	10-6-2017	
Rating Type		CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit		PERCENT	PERCENT	PERCENT	BU	
Number of Subsamples		1	1	1	1	
Rating Timing		8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.		72 31	72 31	72 31	149 108	
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence		66 DE-1	66 DE-1	66 DE-1	143 DE-1	
ARM Action Codes		P	P	P	TY1	
Number of Decimals		0	0	0	1	
Trt Treatment	Rate	Growth				
No. Name	Rate Unit	Stage	13	14	15	19
10 AUTHORITY MTZ	14 OZ/A	PRE	99	99	99	72.3
XTENDIMAX	22 FL OZ/A	MP				
ROUNDUP POWERMAX	28.4 FL OZ/A	MP				
LSD P=.05			.	.	.	6.52
Standard Deviation			0.0	0.0	0.0	3.80
CV			0.0	0.0	0.0	5.12
Replicate F			0.000	0.000	0.000	1.497
Replicate Prob(F)			1.0000	1.0000	1.0000	0.2504
Treatment F			0.000	0.000	0.000	144.553
Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001

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

University of Kentucky

NO TILL SOYBEAN V

Trial ID: S17024 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: SYN-HDC050A4 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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 = $3.63 \times [17] \times (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN V

Trial ID: S17024 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-HDC050A4 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-6-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 160000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 7.5 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-16-2017
Harvest Date: 10-6-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 40 FT
Harvest Equipment: HEGE
Soil Temperature, Unit: 59 F **% Standard Moisture:** 13.0
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

University of Kentucky

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 **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B	C
Application Date:	5-10-2017	5-26-2017	6-20-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	+MP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	SARA CARTER	C H SLACK	C H SLACK
Air Temperature, Unit:	80 F	77 F	78 F
% Relative Humidity:	40	46	55
Wind Velocity, Unit:	7 MPH	6 MPH	6 MPH
Wind Direction:	SW	SWW	WSW
Soil Temperature, Unit:	65 F	65 F	73 F
Soil Moisture:	GOOD	EXCELL	GOOD
% Cloud Cover:	60	5	20
Next Moisture Occurred On:	5-11-2017	5-27-2017	6-22-2017

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA BSOY
Height, Unit:	4 IN	8 IN	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	1 IN	2 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	4 IN	6 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	1.5 IN	2.5 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:	2 IN	3 IN	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:	FLAFAI	FLAFAI	FLAFAI
Nozzle Size:	TTI 003	TTI 003	TTI 003
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:	18 GPA	18 GPA	18 GPA
Mix Size, Unit:	2.2 liters	2.2 liters	2.2 liters
Propellant:	CO2	CO2	CO2

University of Kentucky

NO TILL SOYBEAN VI

Trial ID: S17025 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-NTSOY Investigator: Sara Carter
 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	IPOSS	ERICA	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-7-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 6
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
1	BOUNDARY	1.5 PT/A	PRE	0	99	99	99	99	0
	FLEXSTAR GT	3.5 PT/A	21DAP						
2	PREFIX	2 PT/A	PRE	0	99	99	99	99	0
	SEQUENCE	2.5 PT/A	21DAP						
3	BOUNDARY	1.5 PT/A	PRE	0	99	99	99	99	0
	PREFIX	2 PT/A	21DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
4	BROADAXE XC	20 OZ/A	PRE	0	99	99	99	99	0
	PREFIX	2 PT/A	21DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
5	A21472C	56.5 FL OZ/A	PRE	0	99	99	99	99	0
	PREFIX	2 PT/A	21DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
6	A21472C	56.5 FL OZ/A	PRE	0	99	99	99	99	0
	A21472C	56.5 FL OZ/A	21DAP						
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
7	VERDICT	6 OZ/A	PRE	0	99	99	99	99	0
	AMS	2.5% V/V	PRE						
	MSO	0.5% V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
8	AUTHORITY XL	7 OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
9	VALOR XLT	3.5 OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP						
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 1,2,3,4,5,6,7,8,9,10,11,12,15 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS	ERICA		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code						GLXMA	
Crop Name						Soybean	
Rating Date		6-7-2017	6-7-2017	6-7-2017	6-7-2017	7-5-2017	7-5-2017
Rating Type		CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1
Rating Timing		4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.		28 6	28 6	28 6	28 6	56 34	56 34
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence		22 DE-1	22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1
ARM Action Codes		P	P	P	P	P	P
Number of Decimals		0	0	0	0	0	0
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	7	8	9	10	11
							12
1 BOUNDARY	1.5 PT/A	PRE	99	99	99	99	0
FLEXSTAR GT	3.5 PT/A	21DAP					99
2 PREFIX	2 PT/A	PRE	99	99	99	99	0
SEQUENCE	2.5 PT/A	21DAP					99
3 BOUNDARY	1.5 PT/A	PRE	99	99	99	99	0
PREFIX	2 PT/A	21DAP					99
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
4 BROADAXE XC	20 OZ/A	PRE	99	99	99	99	0
PREFIX	2 PT/A	21DAP					99
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
5 A21472C	56.5 FL OZ/A	PRE	99	99	99	99	0
PREFIX	2 PT/A	21DAP					99
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
6 A21472C	56.5 FL OZ/A	PRE	99	99	99	99	0
A21472C	56.5 FL OZ/A	21DAP					99
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
7 VERDICT	6 OZ/A	PRE	99	99	99	99	0
AMS	2.5% V/V	PRE					99
MSO	0.5% V/V	PRE					
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
8 AUTHORITY XL	7 OZ/A	PRE	99	99	99	99	0
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					99
9 VALOR XLT	3.5 OZ/A	PRE	99	99	99	99	0
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					99
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

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

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Pest Type			W Weed	W Weed	W Weed		
Pest Code			AMBTR	IPOSS	ERICA		
Pest Name			Giant ragweed	Morning glory	Marestail		
Crop Code						GLXMA	
Crop Name						Soybean	
Rating Date			7-5-2017	7-5-2017	7-5-2017	10-6-2017	
Rating Type			CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit			PERCENT	PERCENT	PERCENT	BU	
Number of Subsamples			1	1	1	1	
Rating Timing			8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.			56 34	56 34	56 34	149 127	
Trt-Eval Interval			AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence			50 DE-1	50 DE-1	50 DE-1	143 DE-1	
ARM Action Codes			P	P	P	TY1	
Number of Decimals			0	0	0	1	
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	13	14	15	19	
1 BOUNDARY	1.5 PT/A	PRE	90	90	99	76.6	
FLEXSTAR GT	3.5 PT/A	21DAP					
2 PREFIX	2 PT/A	PRE	95	95	99	73.0	
SEQUENCE	2.5 PT/A	21DAP					
3 BOUNDARY	1.5 PT/A	PRE	89	89	99	88.4	
PREFIX	2 PT/A	21DAP					
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
4 BROADAXE XC	20 OZ/A	PRE	89	90	99	73.2	
PREFIX	2 PT/A	21DAP					
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
5 A21472C	56.5 FL OZ/A	PRE	90	90	99	76.9	
PREFIX	2 PT/A	21DAP					
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
6 A21472C	56.5 FL OZ/A	PRE	95	95	99	62.7	
A21472C	56.5 FL OZ/A	21DAP					
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
7 VERDICT	6 OZ/A	PRE	95	95	99	70.2	
AMS	2.5 % V/V	PRE					
MSO	0.5 % V/V	PRE					
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
8 AUTHORITY XL	7 OZ/A	PRE	99	99	99	78.1	
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
9 VALOR XLT	3.5 OZ/A	PRE	99	99	99	78.7	
ROUNDUP POWERMAX	32 FL OZ/A	21DAP					
LSD P=.05			1.0	0.7	.	4.60	
Standard Deviation			0.6	0.4	0.0	2.66	
CV			0.62	0.41	0.0	3.53	
Replicate F			0.000	1.000	0.000	4.259	
Replicate Prob(F)			1.0000	0.3897	1.0000	0.0329	
Treatment F			149.000	307.000	0.000	20.669	
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001	

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University of Kentucky

NO TILL SOYBEAN VI

Trial ID: S17025 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: SYN-NTSOY Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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)

$TY1 = 3.63 * [17] * (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN VI

Trial ID: S17025 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-NTSOY Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY/SARAH GEHANT

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-6-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 160000 S/A	Planting Date: 5-8-2017
Depth, Unit: 1.5 IN	Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN	Planting Equipment: FE field equipment
	Emergence Date: 5-16-2017
	Harvest Date: 10-6-2017
Soil Temperature, Unit: 59 F	Harvested Width, Unit: 5 FT
Soil Moisture: GOOD good	Harvested Length, Unit: 40 FT
Seed Bed: MEDIUM medium	Harvest Equipment: HEGE
	% Standard Moisture: 13.0

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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

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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 9 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-10-2017	6-1-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	21DAP
Application Placement:	BROFOL	BROFOL
Applied By:	SARA CARTER	C H SLACK
Air Temperature, Unit:	80 F	72 F
% Relative Humidity:	40	60
Wind Velocity, Unit:	7 MPH	6 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	64 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	60	10
Next Moisture Occurred On:	5-11-2017	6-5-2017

University of Kentucky

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	4	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	4 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1 IN	2 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 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	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: S17026 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DOW-SOY Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS	ERICA	SETFA	SETFA			
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail	Giant foxtail	Giant foxtail			
Crop Code	GLXMA					GLXMA				
Crop Name	Soybean					Soybean				
Rating Date	5-24-2017	5-24-2017	5-24-2017	5-24-2017	5-24-2017	6-7-2017	6-7-2017			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1	1	1			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 1	28 1			
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL			
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1	22 DE-1			
ARM Action Codes	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0			
Trt	Treatment	Rate	Growth	1	2	3	4	5	6	7
No.	Name	Rate Unit	Stage							
1	SONIC	4 OZ/A	PRE	0	99	99	99	70	0	99
	DURANGO DMA	24 FL OZ/A	MP							
	AMS	2.5 % V/V	MP							
2	SONIC	5 OZ/A	PRE	0	99	99	99	95	0	99
	DURANGO DMA	24 FL OZ/A	MP							
	AMS	2.5 % V/V	MP							
3	SONIC	3 OZ/A	PRE	0	99	99	99	80	0	99
	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	99	99	99	99	0	99
	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
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

University of Kentucky

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed		
Pest Code		AMBTR	IPOSS	ERICA		SETFA	AMBTR	IPOSS		
Pest Name		Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory		
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date		6-7-2017	6-7-2017	6-7-2017	7-5-2017	7-5-2017	7-5-2017	7-5-2017		
Rating Type		CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples		1	1	1	1	1	1	1		
Rating Timing		4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.		28 1	28 1	28 1	56 29	56 29	56 29	56 29		
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence		22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1		
ARM Action Codes		P	P	P	P	P	P	P		
Number of Decimals		0	0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12	13	14
1	SONIC	4 OZ/A	PRE	99	99	70	0	99	99	99
	DURANGO DMA	24 FL OZ/A	MP							
	AMS	2.5 % V/V	MP							
2	SONIC	5 OZ/A	PRE	99	99	95	0	99	99	99
	DURANGO DMA	24 FL OZ/A	MP							
	AMS	2.5 % V/V	MP							
3	SONIC	3 OZ/A	PRE	99	99	80	0	99	99	99
	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	99	99	99	0	99	99	99
	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
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

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Pest Type	W Weed
Pest Code	ERICA
Pest Name	Marestail
Crop Code	
Crop Name	
Rating Date	7-5-2017
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	8 WEEK
Days After First/Last Applic.	56 29
Trt-Eval Interval	AFTER APPL
Days After Emergence	50 DE-1
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	
					15
1	SONIC	4 OZ/A		PRE	70
	DURANGO DMA	24 FL OZ/A		MP	
	AMS	2.5 % V/V		MP	
2	SONIC	5 OZ/A		PRE	95
	DURANGO DMA	24 FL OZ/A		MP	
	AMS	2.5 % V/V		MP	
3	SONIC	3 OZ/A		PRE	80
	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	99
	DURANGO DMA	24 FL OZ/A		MP	
	AMS	2.5 % V/V		MP	
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

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

University of Kentucky

NO TILL SOYBEAN VII

Trial ID: S17026 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DOW-SOY Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN VII

Trial ID: S17026 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DOW-SOY Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-20-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 160000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.5 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 7.5 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 59 F **Emergence Date:** 5-16-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

University of Kentucky

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 **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 4 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-10-2017	6-6-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	SARA CARTER	C H SLACK
Air Temperature, Unit:	80 F	72 F
% Relative Humidity:	40	65
Wind Velocity, Unit:	7 MPH	6 MOH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	64 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	60	50
Next Moisture Occurred On:	5-11-2017	6-13-2017

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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:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	5 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	1 IN	2 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 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	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
5-10-2017	SARA	GLYPHOSATE ADDED TO ALL TREATMENTS FOR BURNDOWN

University of Kentucky

NO TILL SOYBEAN VIII

Trial ID: S17027 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: VALENT-64.06 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

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 Name	Soybean				Soybean
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	21 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	6
1	UNTREATED CHECK			0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
3	ROUNDUP POWERMAX	32 FL OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A	PRE						
	ZIDUA PRO	6 FL OZ/A	PRE						
	NIS	0.25 % V/V	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
4	ROUNDUP POWERMAX	32 FL OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A	PRE						
	VALOR EZ	2.5 FL OZ/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
5	ROUNDUP POWERMAX	32 FL OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A	PRE						
	FIERCE	3 OZ/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
6	ROUNDUP POWERMAX	32 FL OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A	PRE						
	FIERCE MTZ	1 PT/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						

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

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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 Name	Soybean					Soybean
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 DE-1	21 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
7	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A		PRE						
	VALOR EZ	2.5 FL	OZ/A	PRE						
	SENCOR	4 OZ/A		PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
8	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A		PRE						
	AUTHORITY MTZ	11 OZ/A		PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
9	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A		PRE						
	AUTHORITY ELITE	26 FL	OZ/A	PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
10	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	0	99	99	99	99	0
	CLARITY	1 PT/A		PRE						
	VALOR EZ	2 FL	OZ/A	PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
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 1,2,3,4,5,6,7,9,10,11,12,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	7-3-2017	7-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
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 27	56 27
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	49 DE-1	49 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12
1	UNTREATED CHECK			0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	89	99	99	0	99
	CLARITY	1 PT/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
3	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A	PRE						
	ZIDUA PRO	6 FL OZ/A	PRE						
	NIS	0.25 % V/V	EP						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
4	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A	PRE						
	VALOR EZ	2.5 FL OZ/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
5	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A	PRE						
	FIERCE	3 OZ/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
6	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A	PRE						
	FIERCE MTZ	1 PT/A	PRE						
	NIS	0.25 % V/V	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,9,10,11,12,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	7-3-2017	7-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
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 27	56 27
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	49 DE-1	49 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	7	8	9	10	11	12
7	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A		PRE						
	VALOR EZ	2.5 FL	OZ/A	PRE						
	SENCOR	4 OZ/A		PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
8	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A		PRE						
	AUTHORITY MTZ	11 OZ/A		PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
9	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	99	99	99	0	99
	CLARITY	1 PT/A		PRE						
	AUTHORITY ELITE	26 FL	OZ/A	PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
10	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	93	99	99	0	99
	CLARITY	1 PT/A		PRE						
	VALOR EZ	2 FL	OZ/A	PRE						
	NIS	0.25 %	V/V	PRE						
	ROUNDUP POWERMAX	32 FL	OZ/A	EP						
	CLARITY	1 PT/A		EP						
	NIS	0.25 %	V/V	EP						
LSD P=.05					.	1.7	.	.	.	.
Standard Deviation					0.0	1.0	0.0	0.0	0.0	0.0
CV					0.0	1.17	0.0	0.0	0.0	0.0
Replicate F					0.000	0.288	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	0.7530	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	2760.018	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 1,2,3,4,5,6,7,9,10,11,12,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-3-2017	7-3-2017	7-3-2017	10-13-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 27	56 27	56 27	158 129
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	49 DE-1	49 DE-1	49 DE-1	151 DE-1
ARM Action Codes	P	P	P	TY1 TYn
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	19
1	UNTREATED CHECK			0	0	0	2.8
2	ROUNDUP POWERMAX	32 FL OZ/A	PRE	89	99	99	51.9
	CLARITY	1 PT/A	PRE				
	NIS	0.25 % V/V	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	CLARITY	1 PT/A	EP				
	NIS	0.25 % V/V	EP				
3	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	34.2
	CLARITY	1 PT/A	PRE				
	ZIDUA PRO	6 FL OZ/A	PRE				
	NIS	0.25 % V/V	EP				
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	CLARITY	1 PT/A	EP				
	NIS	0.25 % V/V	EP				
4	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	34.5
	CLARITY	1 PT/A	PRE				
	VALOR EZ	2.5 FL OZ/A	PRE				
	NIS	0.25 % V/V	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	CLARITY	1 PT/A	EP				
	NIS	0.25 % V/V	EP				
5	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	33.4
	CLARITY	1 PT/A	PRE				
	FIERCE	3 OZ/A	PRE				
	NIS	0.25 % V/V	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	CLARITY	1 PT/A	EP				
	NIS	0.25 % V/V	EP				
6	ROUNDUP POWERMAX	32 FL OZ/A	PRE	99	99	99	46.6
	CLARITY	1 PT/A	PRE				
	FIERCE MTZ	1 PT/A	PRE				
	NIS	0.25 % V/V	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	EP				
	CLARITY	1 PT/A	EP				
	NIS	0.25 % V/V	EP				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-3-2017	7-3-2017	7-3-2017	10-13-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	56 27	56 27	56 27	158 129
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	49 DE-1	49 DE-1	49 DE-1	151 DE-1
ARM Action Codes	P	P	P	TY1 TYn
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	19
7	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	99	99	31.0
	CLARITY	1 PT/A		PRE				
	VALOR EZ	2.5 FL	OZ/A	PRE				
	SENCOR	4 OZ/A		PRE				
	NIS	0.25 %	V/V	PRE				
	ROUNDUP POWERMAX	32 FL	OZ/A	EP				
	CLARITY	1 PT/A		EP				
	NIS	0.25 %	V/V	EP				
8	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	99	99	34.4
	CLARITY	1 PT/A		PRE				
	AUTHORITY MTZ	11 OZ/A		PRE				
	NIS	0.25 %	V/V	PRE				
	ROUNDUP POWERMAX	32 FL	OZ/A	EP				
	CLARITY	1 PT/A		EP				
	NIS	0.25 %	V/V	EP				
9	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	99	99	99	37.0
	CLARITY	1 PT/A		PRE				
	AUTHORITY ELITE	26 FL	OZ/A	PRE				
	NIS	0.25 %	V/V	PRE				
	ROUNDUP POWERMAX	32 FL	OZ/A	EP				
	CLARITY	1 PT/A		EP				
	NIS	0.25 %	V/V	EP				
10	ROUNDUP POWERMAX	32 FL	OZ/A	PRE	93	99	99	35.1
	CLARITY	1 PT/A		PRE				
	VALOR EZ	2 FL	OZ/A	PRE				
	NIS	0.25 %	V/V	PRE				
	ROUNDUP POWERMAX	32 FL	OZ/A	EP				
	CLARITY	1 PT/A		EP				
	NIS	0.25 %	V/V	EP				
LSD P=.05					1.7	.	.	5.56
Standard Deviation					1.0	0.0	0.0	3.24
CV					1.17	0.0	0.0	9.51
Replicate F					0.288	0.000	0.000	3.686
Replicate Prob(F)					0.7530	1.0000	1.0000	0.0455
Treatment F					2760.018	0.000	0.000	46.638
Treatment Prob(F)					0.0001	1.0000	1.0000	0.0001

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

University of Kentucky

NO TILL SOYBEAN VIII

Trial ID: S17027 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: VALENT-64.06 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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)

TYn = Yield conversion formula 'n', created by ARM from Yield Conversion dialog

TY1 = $3.821053 * [17] * (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN VIII

Trial ID: S17027 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: VALENT-64.06 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-13-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.25 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-15-2017
Harvest Date: 10-13-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
Soil Temperature, Unit: 59 F **% Standard Moisture:** 13.0
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5-8-2017	6-6-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	64 F	70 F
% Relative Humidity:	39	50
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	ENE	SW
Soil Temperature, Unit:	59 F	71 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	40	30
Next Moisture Occurred On:	5-9-2017	6-13-2017

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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:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	4 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	0.5 IN	1.5 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 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:	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 IX

Trial ID: S17028
Protocol ID: AMVAC-NTSOY-EPP
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR	IPOSS	ERICA	TAROF	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion	
Crop Code						GLXMA
Crop Name						Soybean
Rating Date	5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-22-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	0 WEEK	0 WEEK	0 WEEK	0 WEEK	0 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	24 24
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER PLANT
Days After Emergence	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	6 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
3	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
4	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
5	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	METRIBUZIN	0.372 LB/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
6	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
7	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion	
Crop Code						GLXMA
Crop Name						Soybean
Rating Date	5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-22-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	0 WEEK	0 WEEK	0 WEEK	0 WEEK	0 WEEK	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	24 24
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER PLANT
Days After Emergence	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	6 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
8	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	ENVIVE	2.5 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
9	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	METRIBUZIN	0.372 LB/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
10	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
11	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
12	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	90	0
	2,4-D ESTER	16 OZ/A	-14D						
	TRIVENCE	10 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
13	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	90	0
	2,4-D ESTER	16 OZ/A	-14D						
	SPARTAN	8 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
14	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	95	0
	2,4-D ESTER	16 OZ/A	-14D						
	AUTHORITY ELITE	24 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS	ERICA	TAROF			
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion			
Crop Code									GLXMA
Crop Name									Soybean
Rating Date		5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-12-2017	5-22-2017	
Rating Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples		1	1	1	1	1	1	1	
Rating Timing		0 WEEK	0 WEEK	0 WEEK	0 WEEK	0 WEEK	0 WEEK	2 WEEK	
Days After First/Last Applic.		14 14	14 14	14 14	14 14	14 14	14 14	24 24	
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER PLANT	
Days After Emergence		-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	6 DE-1	
ARM Action Codes		P	P	P	P	P	P	P	
Number of Decimals		0	0	0	0	0	0	0	
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	
15 ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	95	0	
2,4-D ESTER	16 OZ/A	-14D							
AUTHORITY ELITE	24 FL OZ/A	-14D							
SCEPTER	2.1 OZ/A	-14D							
COC	1 % V/V	-14D							
AMS	8.5 LB/100 GAL	-14D							
16 ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	95	0	
2,4-D ESTER	16 OZ/A	-14D							
AUTHORITY ELITE	24 FL OZ/A	-14D							
SCEPTER	2.1 OZ/A	-14D							
METRIBUZIN	0.372 LB/A	-14D							
COC	1 % V/V	-14D							
AMS	8.5 LB/100 GAL	-14D							
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 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion	
Crop Code						GLXMA
Crop Name						Soybean
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24	38 38
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER PLANT
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
3	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
4	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
5	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	METRIBUZIN	0.372 LB/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
6	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
7	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion	
Crop Code						GLXMA
Crop Name						Soybean
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24	38 38
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER PLANT
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
8	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	ENVIVE	2.5 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	14D						
9	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	METRIBUZIN	0.372 LB/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
10	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
11	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	99	0
	2,4-D ESTER	16 OZ/A	-14D						
	VALOR SX	2.53 OZ/A	-14D						
	DUAL MAGNUM	20 FL OZ/A	-14D						
	SCEPTER	2.1 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
12	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	90	0
	2,4-D ESTER	16 OZ/A	-14D						
	TRIVENCE	10 OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
13	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	90	0
	2,4-D ESTER	16 OZ/A	-14D						
	SPARTAN	8 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						
14	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	95	0
	2,4-D ESTER	16 OZ/A	-14D						
	AUTHORITY ELITE	24 FL OZ/A	-14D						
	COC	1 % V/V	-14D						
	AMS	8.5 LB/100 GAL	-14D						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF	
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion	
Crop Code						GLXMA
Crop Name						Soybean
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24	38 38
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER PLANT
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	7	8	9	10	11	12	
15	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	95	0	
	2,4-D ESTER	16 OZ/A	-14D							
	AUTHORITY ELITE	24 FL OZ/A	-14D							
	SCEPTER	2.1 OZ/A	-14D							
	COC	1 % V/V	-14D							
	AMS	8.5 LB/100 GAL	-14D							
16	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	99	99	99	95	0	
	2,4-D ESTER	16 OZ/A	-14D							
	AUTHORITY ELITE	24 FL OZ/A	-14D							
	SCEPTER	2.1 OZ/A	-14D							
	METRIBUZIN	0.372 LB/A	-14D							
	COC	1 % V/V	-14D							
	AMS	8.5 LB/100 GAL	-14D							
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 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion
Crop Code					
Crop Name					
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	38 38	38 38	38 38	38 38	38 38
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	13	14	15	16	17
No.	Name	Rate Unit	Stage					
1	UNTREATED			0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	30	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
3	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	85	99	99	90
	2,4-D ESTER	16 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
4	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	87	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	DUAL MAGNUM	20 FL OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
5	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	88	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	DUAL MAGNUM	20 FL OZ/A	-14D					
	METRIBUZIN	0.372 LB/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
6	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	33	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
7	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	80	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion
Crop Code					
Crop Name					
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	38 38	38 38	38 38	38 38	38 38
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	20 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	13	14	15	16	17
8	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	89	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	ENVIVE	2.5 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
9	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	89	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	METRIBUZIN	0.372 LB/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
10	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	62	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	DUAL MAGNUM	20 FL OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
11	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	80	99	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	DUAL MAGNUM	20 FL OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
12	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	89	99	99	90
	2,4-D ESTER	16 OZ/A	-14D					
	TRIVENCE	10 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
13	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	75	99	99	90
	2,4-D ESTER	16 OZ/A	-14D					
	SPARTAN	8 FL OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
14	ROUNDUP POWERMAX	32 FL OZ/A	-14D	99	70	99	99	95
	2,4-D ESTER	16 OZ/A	-14D					
	AUTHORITY ELITE	24 FL OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 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	ERICA	TAROF
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Common dandelion
Crop Code					
Crop Name					
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-5-2017	6-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
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	4 WEEK
Days After First/Last Applic.	38 38	38 38	38 38	38 38	38 38
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	20 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	13	14	15	16	17
15	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	99	90	99	99	95
	2,4-D ESTER	16 OZ/A		-14D					
	AUTHORITY ELITE	24 FL	OZ/A	-14D					
	SCEPTER	2.1 OZ/A		-14D					
	COC	1 % V/V		-14D					
	AMS	8.5 LB/100 GAL		-14D					
16	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	99	90	99	99	95
	2,4-D ESTER	16 OZ/A		-14D					
	AUTHORITY ELITE	24 FL	OZ/A	-14D					
	SCEPTER	2.1 OZ/A		-14D					
	METRIBUZIN	0.372 LB/A		-14D					
	COC	1 % V/V		-14D					
	AMS	8.5 LB/100 GAL		-14D					
LSD P=.05					.	2.8	.	.	.
Standard Deviation					0.0	1.7	0.0	0.0	0.0
CV					0.0	2.38	0.0	0.0	0.0
Replicate F					0.000	1.985	0.000	0.000	0.000
Replicate Prob(F)					1.0000	0.1550	1.0000	1.0000	1.0000
Treatment F					0.000	754.288	0.000	0.000	0.000
Treatment Prob(F)					1.0000	0.0001	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

University of Kentucky

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				
Crop Name	Soybean				
Rating Date	7-3-2017	7-3-2017	7-3-2017	7-3-2017	7-3-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	66 66	66 66	66 66	66 66	66 66
Trt-Eval Interval		AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	48 DE-1	48 DE-1	48 DE-1	48 DE-1	48 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	18	19	20	21	22
1	UNTREATED			0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	10	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
3	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	43	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
4	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	53	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	DUAL MAGNUM	20 FL OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
5	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	70	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	DUAL MAGNUM	20 FL OZ/A	-14D					
	METRIBUZIN	0.372 LB/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
6	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	10	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					
7	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	53	99	99
	2,4-D ESTER	16 OZ/A	-14D					
	VALOR SX	2.53 OZ/A	-14D					
	SCEPTER	2.1 OZ/A	-14D					
	COC	1 % V/V	-14D					
	AMS	8.5 LB/100 GAL	-14D					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

University of Kentucky

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				
Crop Name	Soybean				
Rating Date	7-3-2017	7-3-2017	7-3-2017	7-3-2017	7-3-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	66 66	66 66	66 66	66 66	66 66
Trt-Eval Interval	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	48 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Growth	18		19		20		21		22	
No.	Name	Rate Unit	Stage										
8	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	80	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	ENVIVE	2.5 OZ/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	14D										
9	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	73	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	VALOR SX	2.53 OZ/A	-14D										
	SCEPTER	2.1 OZ/A	-14D										
	METRIBUZIN	0.372 LB/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	-14D										
10	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	10	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	VALOR SX	2.53 OZ/A	-14D										
	DUAL MAGNUM	20 FL OZ/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	-14D										
11	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	50	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	VALOR SX	2.53 OZ/A	-14D										
	DUAL MAGNUM	20 FL OZ/A	-14D										
	SCEPTER	2.1 OZ/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	-14D										
12	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	70	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	TRIVENCE	10 OZ/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	-14D										
13	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	57	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	SPARTAN	8 FL OZ/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	-14D										
14	ROUNDUP POWERMAX	32 FL OZ/A	-14D	0	99	30	99	99	99				
	2,4-D ESTER	16 OZ/A	-14D										
	AUTHORITY ELITE	24 FL OZ/A	-14D										
	COC	1 % V/V	-14D										
	AMS	8.5 LB/100 GAL	-14D										

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

University of Kentucky

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				
Crop Name	Soybean				
Rating Date	7-3-2017	7-3-2017	7-3-2017	7-3-2017	7-3-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	66 66	66 66	66 66	66 66	66 66
Trt-Eval Interval		AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT
Days After Emergence	48 DE-1	48 DE-1	48 DE-1	48 DE-1	48 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	18	19	20	21	22
15	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	0	99	80	99	99
	2,4-D ESTER	16 OZ/A		-14D					
	AUTHORITY ELITE	24 FL	OZ/A	-14D					
	SCEPTER	2.1 OZ/A		-14D					
	COC	1 % V/V		-14D					
	AMS	8.5 LB/100 GAL		-14D					
16	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	0	99	70	99	99
	2,4-D ESTER	16 OZ/A		-14D					
	AUTHORITY ELITE	24 FL	OZ/A	-14D					
	SCEPTER	2.1 OZ/A		-14D					
	METRIBUZIN	0.372 LB/A		-14D					
	COC	1 % V/V		-14D					
	AMS	8.5 LB/100 GAL		-14D					
LSD P=.05					.	.	5.0	.	.
Standard Deviation					0.0	0.0	3.0	0.0	0.0
CV					0.0	0.0	6.36	0.0	0.0
Replicate F					0.000	0.000	0.513	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	0.6037	1.0000	1.0000
Treatment F					0.000	0.000	246.510	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	0.0001	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

University of Kentucky

Pest Type	W Weed
Pest Code	TAROF
Pest Name	Common dandelion
Crop Code	
Crop Name	
Rating Date	7-3-2017
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	6 WEEK
Days After First/Last Applic.	66 66
Trt-Eval Interval	AFTER PLANT
Days After Emergence	48 DE-1
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
					23
1	UNTREATED				0
2	ROUNDUP POWERMAX	32 FL OZ/A		-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
3	ROUNDUP POWERMAX	32 FL OZ/A		-14D	90
	2,4-D ESTER	16 OZ/A		-14D	
	SCEPTER	2.1 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
4	ROUNDUP POWERMAX	32 FL OZ/A		-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	SCEPTER	2.1 OZ/A		-14D	
	DUAL MAGNUM	20 FL OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
5	ROUNDUP POWERMAX	32 FL OZ/A		-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	SCEPTER	2.1 OZ/A		-14D	
	DUAL MAGNUM	20 FL OZ/A		-14D	
	METRIBUZIN	0.372 LB/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
6	ROUNDUP POWERMAX	32 FL OZ/A		-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	VALOR SX	2.53 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
7	ROUNDUP POWERMAX	32 FL OZ/A		-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	VALOR SX	2.53 OZ/A		-14D	
	SCEPTER	2.1 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

University of Kentucky

Pest Type W Weed
 Pest Code TAROF
 Pest Name Common dandelion
 Crop Code
 Crop Name
 Rating Date 7-3-2017
 Rating Type CONTROL
 Rating Unit PERCENT
 Number of Subsamples 1
 Rating Timing 6 WEEK
 Days After First/Last Applic. 66 66
 Trt-Eval Interval AFTER PLANT
 Days After Emergence 48 DE-1
 ARM Action Codes P
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	23
8	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	ENVIVE	2.5 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
9	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	VALOR SX	2.53 OZ/A		-14D	
	SCEPTER	2.1 OZ/A		-14D	
	METRIBUZIN	0.372 LB/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
10	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	VALOR SX	2.53 OZ/A		-14D	
	DUAL MAGNUM	20 FL	OZ/A	-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
11	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	99
	2,4-D ESTER	16 OZ/A		-14D	
	VALOR SX	2.53 OZ/A		-14D	
	DUAL MAGNUM	20 FL	OZ/A	-14D	
	SCEPTER	2.1 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
12	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	90
	2,4-D ESTER	16 OZ/A		-14D	
	TRIVENCE	10 OZ/A		-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
13	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	90
	2,4-D ESTER	16 OZ/A		-14D	
	SPARTAN	8 FL	OZ/A	-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	
14	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	95
	2,4-D ESTER	16 OZ/A		-14D	
	AUTHORITY ELITE	24 FL	OZ/A	-14D	
	COC	1 % V/V		-14D	
	AMS	8.5 LB/100 GAL		-14D	

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,21,22,23 because error mean square = 0.

University of Kentucky

Pest Type W Weed
 Pest Code TAROF
 Pest Name Common dandelion
 Crop Code
 Crop Name
 Rating Date 7-3-2017
 Rating Type CONTROL
 Rating Unit PERCENT
 Number of Subsamples 1
 Rating Timing 6 WEEK
 Days After First/Last Applic. 66 66
 Trt-Eval Interval AFTER PLANT
 Days After Emergence 48 DE-1
 ARM Action Codes P
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
15	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	95
	2,4-D ESTER	16 OZ/A		-14D	
	AUTHORITY ELITE	24 FL	OZ/A	-14D	
	SCEPTER	2.1 OZ/A		-14D	
	COC	1 %	V/V	-14D	
	AMS	8.5 LB/100 GAL		-14D	
16	ROUNDUP POWERMAX	32 FL	OZ/A	-14D	95
	2,4-D ESTER	16 OZ/A		-14D	
	AUTHORITY ELITE	24 FL	OZ/A	-14D	
	SCEPTER	2.1 OZ/A		-14D	
	METRIBUZIN	0.372 LB/A		-14D	
	COC	1 %	V/V	-14D	
	AMS	8.5 LB/100 GAL		-14D	
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

University of Kentucky

NO TILL SOYBEAN IX

Trial ID: S17028 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: AMVAC-NTSOY-EPP Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Maretail = US
TAROF, Taraxacum officinale, Common dandelion = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN IX

Trial ID: S17028 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: AMVAC-NTSOY-EPP Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-28-2017
Completion Date: 8-24-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.25 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 59 F **Emergence Date:** 5-16-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

University of Kentucky

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

Pest 5 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 16 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

A
Application Date: 4-28-2017
Application Method: SPRAY
Application Timing: -14D
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 72 F
% Relative Humidity: 59
Wind Velocity, Unit: 8 MPH
Wind Direction: ENE
Soil Temperature, Unit: 62 F
Soil Moisture: EXCELL
% Cloud Cover: 40
Next Moisture Occurred On: 4-29-2017

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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
Height, Unit: 1 IN
Pest 2 Code, Type, Scale: AMBTR W
Height, Unit: 2 IN
Pest 3 Code, Type, Scale: IPOSS W
Height, Unit: 0.5 IN
Pest 4 Code, Type, Scale: ERICA W
Height, Unit: 2 IN
Pest 5 Code, Type, Scale: TAROF 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: 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

University of Kentucky

NO TILL SOYBEAN X

Trial ID: S17029
Protocol ID: DUP-SOY-NT
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
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	ERICA		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code	GLXMA					GLXMA	
Crop Name	Soybean					Soybean	
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017	6-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	20 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	7
1	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0	99
	ABUNDIT EDGE	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
2	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0	99
	ABUNDIT EDGE	1 QT/A	MP							
	CLASSIC	0.5 OZ/A	MP							
	CINCH	1 PT/A	MP							
3	CANOPY	6 OZ/A	PRE	0	99	99	99	99	0	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
4	CANOPY	6 OZ/A	PRE	0	99	99	99	99	0	99
	CINCH	1 PT/A	PRE							
	CLASSIC	0.5 OZ/A	MP							
	CINCH	1 PT/A	MP							
	ABUNDIT EDGE	1 QT/A	MP							
5	ENVIVE	3.5 OZ/A	PRE	0	99	99	99	99	0	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
6	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0	99
	CINCH	1 PT/A	PRE							
	ABUNDIT EDGE	1 QT/A	MP							
	PREFIX	1 QT/A	MP							
7	CHECK UNTREATED			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 1,2,3,4,5,6,7,8,9,10,11,12,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	IPOSS	ERICA		SETFA	AMBTR	IPOSS		
Pest Name	Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory		
Crop Code				GLXMA					
Crop Name				Soybean					
Rating Date	6-5-2017	6-5-2017	6-5-2017	7-3-2017	7-3-2017	7-3-2017	7-3-2017		
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1	1		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	28 28	28 28	28 28	56 26	56 26	56 26	56 26		
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1		
ARM Action Codes	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0		
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	8	9	10	11	12	13	14
1 TRIVENCE	8 OZ/A PRE		99	99	99	0	99	95	99
ABUNDIT EDGE	1 QT/A MP								
PREFIX	1 QT/A MP								
2 TRIVENCE	8 OZ/A PRE		99	99	99	0	99	89	99
ABUNDIT EDGE	1 QT/A MP								
CLASSIC	0.5 OZ/A MP								
CINCH	1 PT/A MP								
3 CANOPY	6 OZ/A PRE		99	99	99	0	99	93	99
CINCH	1 PT/A PRE								
ABUNDIT EDGE	1 QT/A MP								
PREFIX	1 QT/A MP								
4 CANOPY	6 OZ/A PRE		99	99	99	0	99	99	99
CINCH	1 PT/A PRE								
CLASSIC	0.5 OZ/A MP								
CINCH	1 PT/A MP								
ABUNDIT EDGE	1 QT/A MP								
5 ENVIVE	3.5 OZ/A PRE		99	99	99	0	99	85	99
CINCH	1 PT/A PRE								
ABUNDIT EDGE	1 QT/A MP								
PREFIX	1 QT/A MP								
6 TRIVENCE	8 OZ/A PRE		99	99	99	0	99	99	99
CINCH	1 PT/A PRE								
ABUNDIT EDGE	1 QT/A MP								
PREFIX	1 QT/A MP								
7 CHECK UNTREATED			0	0	0	0	0	0	0
LSD P=.05			.	.	.	.	.	2.0	.
Standard Deviation			0.0	0.0	0.0	0.0	0.0	1.1	0.0
CV			0.0	0.0	0.0	0.0	0.0	1.38	0.0
Replicate F			0.000	0.000	0.000	0.000	0.000	1.909	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.1906	1.0000
Treatment F			0.000	0.000	0.000	0.000	0.000	3124.156	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	1.0000

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

University of Kentucky

Pest Type	W Weed
Pest Code	ERICA
Pest Name	Marestail
Crop Code	
Crop Name	
Rating Date	7-3-2017
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	8 WEEK
Days After First/Last Applic.	56 26
Trt-Eval Interval	AFTER APPL
Days After Emergence	48 DE-1
ARM Action Codes	P
Number of Decimals	0

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	15
1	TRIVENCE	8 OZ/A PRE		99
	ABUNDIT EDGE	1 QT/A MP		
	PREFIX	1 QT/A MP		
2	TRIVENCE	8 OZ/A PRE		99
	ABUNDIT EDGE	1 QT/A MP		
	CLASSIC	0.5 OZ/A MP		
	CINCH	1 PT/A MP		
3	CANOPY	6 OZ/A PRE		99
	CINCH	1 PT/A PRE		
	ABUNDIT EDGE	1 QT/A MP		
	PREFIX	1 QT/A MP		
4	CANOPY	6 OZ/A PRE		99
	CINCH	1 PT/A PRE		
	CLASSIC	0.5 OZ/A MP		
	CINCH	1 PT/A MP		
	ABUNDIT EDGE	1 QT/A MP		
5	ENVIVE	3.5 OZ/A PRE		99
	CINCH	1 PT/A PRE		
	ABUNDIT EDGE	1 QT/A MP		
	PREFIX	1 QT/A MP		
6	TRIVENCE	8 OZ/A PRE		99
	CINCH	1 PT/A PRE		
	ABUNDIT EDGE	1 QT/A MP		
	PREFIX	1 QT/A MP		
7	CHECK UNTREATED			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

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

University of Kentucky

NO TILL SOYBEAN X

Trial ID: S17029 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DUP-SOY-NT Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN X

Trial ID: S17029 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-SOY-NT Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 11-1-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.25 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Soil Temperature, Unit: 59 F **Emergence Date:** 5-16-2017
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

University of Kentucky

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: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 7 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B
Application Date:	5-8-2017	6-7-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	64 F	65 F
% Relative Humidity:	39	65
Wind Velocity, Unit:	8 MPH	4 MPH
Wind Direction:	ENE	WSW
Soil Temperature, Unit:	59 F	68 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	40	10
Next Moisture Occurred On:	5-9-2017	6-13-2017

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

Date	By	Notes
5-8-2017	SARA	GLYPHOSATE ADDED TO ALL TREATMENTS FOR BURNDOWN

University of Kentucky

NO TILL SOYBEAN XI

Trial ID: S17030 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: WIN DTS2 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: TOM HAYDEN

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 Name	Soybean					Soybean
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-23-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	32 8	32 8	32 8	32 8	32 8	46 22
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1	39 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
1	INTERLOCK	4 FL OZ/A	PRE	0	99	99	99	99	0
	AGH15003	1.3 PT/A	PRE						
	RUGGED	1 PT/A	PRE						
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	SUPERB HC	1 PT/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	XTENDIMAX	22 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
	CLASS ACT RIDION	1 % V/V	LP						
	INTERLOCK	2 FL OZ/A	LP						
2	INTERLOCK	4 FL OZ/A	PRE	0	99	99	99	99	0
	AGH15003	1.3 PT/A	PRE						
	RUGGED	1 PT/A	PRE						
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	SUPERB HC	1 PT/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	XTENDIMAX	22 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
3	INTERLOCK	4 FL OZ/A	PRE	0	99	99	99	99	0
	AGH15003	1.3 PT/A	PRE						
	SHREDDER	10.33 FL OZ/A	PRE						
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	SUPERB HC	1 PT/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	XTENDIMAX	22 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
	CLASS ACT RIDION	1 % V/V	LP						
	INTERLOCK	2 FL OZ/A	LP						

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

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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 Name	Soybean					Soybean
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-23-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	32 8	32 8	32 8	32 8	32 8	46 22
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1	39 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
4	INTERLOCK	4 FL OZ/A	PRE	0	99	99	99	99	0
	AGH15003	1.3 PT/A	PRE						
	SHREDDER	10.33 FL OZ/A	PRE						
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	SUPERB HC	1 PT/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	XTENDIMAX	22 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
5	INTERLOCK	4 FL OZ/A	PRE	0	99	99	99	99	0
	AGH15003	1.3 PT/A	PRE						
	SHARPEN	1 FL OZ/A	PRE						
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	SUPERB HC	1 PT/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	XTENDIMAX	22 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
	CLASS ACT RIDION	1 % V/V	LP						
	INTERLOCK	2 FL OZ/A	LP						
6	INTERLOCK	4 FL OZ/A	PRE	0	99	99	99	99	0
	AGH15003	1.3 PT/A	PRE						
	SHARPEN	1 FL OZ/A	PRE						
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE						
	SUPERB HC	1 PT/A	PRE						
	CLASS ACT NG	2.5 GAL/100 GAL	PRE						
	XTENDIMAX	22 FL OZ/A	LP						
	AG16098	0.5 % V/V	LP						
	ICONIC	0.5 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
7	XTENDIMAX	22 FL OZ/A	LP	0	99	99	99	99	0
	AG16098	0.5 % V/V	LP						
	CLASS ACT RIDION	1 % V/V	LP						
	ROUNDUP POWERMAX	21 FL OZ/A	LP						
	INTERLOCK	2 FL OZ/A	LP						

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

University of Kentucky

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 Name	Soybean					Soybean		
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-23-2017		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK		
Days After First/Last Applic.	32 8	32 8	32 8	32 8	32 8	46 22		
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1	39 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
8 XTENDIMAX	22 FL OZ/A	LP	0	99	99	99	99	0
AG16098	0.5 % V/V	LP						
ICONIC	0.5 % V/V	LP						
ROUNDUP POWERMAX	21 FL OZ/A	LP						
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 1,2,3,4,5,6,7,8,9,10,11,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017	7-21-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	46 22	46 22	46 22	46 22	74 50	74 50
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	67 DE-1	67 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	7	8	9	10	11	12	
1	INTERLOCK	4 FL OZ/A	PRE	99	99	99	99	0	95	
	AGH15003	1.3 PT/A	PRE							
	RUGGED	1 PT/A	PRE							
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE							
	SUPERB HC	1 PT/A	PRE							
	CLASS ACT NG	2.5 GAL/100 GAL	PRE							
	XTENDIMAX	22 FL OZ/A	LP							
	AG16098	0.5 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
	CLASS ACT RIDION	1 % V/V	LP							
	INTERLOCK	2 FL OZ/A	LP							
2	INTERLOCK	4 FL OZ/A	PRE	99	99	99	99	0	99	
	AGH15003	1.3 PT/A	PRE							
	RUGGED	1 PT/A	PRE							
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE							
	SUPERB HC	1 PT/A	PRE							
	CLASS ACT NG	2.5 GAL/100 GAL	PRE							
	XTENDIMAX	22 FL OZ/A	LP							
	AG16098	0.5 % V/V	LP							
	ICONIC	0.5 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
3	INTERLOCK	4 FL OZ/A	PRE	99	99	99	99	0	99	
	AGH15003	1.3 PT/A	PRE							
	SHREDDER	10.33 FL OZ/A	PRE							
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE							
	SUPERB HC	1 PT/A	PRE							
	CLASS ACT NG	2.5 GAL/100 GAL	PRE							
	XTENDIMAX	22 FL OZ/A	LP							
	AG16098	0.5 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
	CLASS ACT RIDION	1 % V/V	LP							
	INTERLOCK	2 FL OZ/A	LP							

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017	7-21-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	46 22	46 22	46 22	46 22	74 50	74 50
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	67 DE-1	67 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	7	8	9	10	11	12	
4	INTERLOCK	4 FL OZ/A	PRE	99	99	99	99	0	99	
	AGH15003	1.3 PT/A	PRE							
	SHREDDER	10.33 FL OZ/A	PRE							
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE							
	SUPERB HC	1 PT/A	PRE							
	CLASS ACT NG	2.5 GAL/100 GAL	PRE							
	XTENDIMAX	22 FL OZ/A	LP							
	AG16098	0.5 % V/V	LP							
	ICONIC	0.5 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
5	INTERLOCK	4 FL OZ/A	PRE	99	99	99	99	0	99	
	AGH15003	1.3 PT/A	PRE							
	SHARPEN	1 FL OZ/A	PRE							
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE							
	SUPERB HC	1 PT/A	PRE							
	CLASS ACT NG	2.5 GAL/100 GAL	PRE							
	XTENDIMAX	22 FL OZ/A	LP							
	AG16098	0.5 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
	CLASS ACT RIDION	1 % V/V	LP							
	INTERLOCK	2 FL OZ/A	LP							
6	INTERLOCK	4 FL OZ/A	PRE	99	99	99	99	0	99	
	AGH15003	1.3 PT/A	PRE							
	SHARPEN	1 FL OZ/A	PRE							
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE							
	SUPERB HC	1 PT/A	PRE							
	CLASS ACT NG	2.5 GAL/100 GAL	PRE							
	XTENDIMAX	22 FL OZ/A	LP							
	AG16098	0.5 % V/V	LP							
	ICONIC	0.5 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
7	XTENDIMAX	22 FL OZ/A	LP	99	99	99	99	0	99	
	AG16098	0.5 % V/V	LP							
	CLASS ACT RIDION	1 % V/V	LP							
	ROUNDUP POWERMAX	21 FL OZ/A	LP							
	INTERLOCK	2 FL OZ/A	LP							

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-21-2017	7-21-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	46 22	46 22	46 22	46 22	74 50	74 50
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	67 DE-1	67 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	7	8	9	10	11	12
8 XTENDIMAX	22 FL OZ/A	LP	99	99	99	99	0	98
AG16098	0.5 % V/V	LP						
ICONIC	0.5 % V/V	LP						
ROUNDUP POWERMAX	21 FL OZ/A	LP						
LSD P=.05			.	.	.	.	.	1.4
Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.8
CV			0.0	0.0	0.0	0.0	0.0	0.83
Replicate F			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	0.3927
Treatment F			0.000	0.000	0.000	0.000	0.000	9.143
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0003

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-21-2017	7-21-2017	7-21-2017	10-31-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	74 50	74 50	74 50	176 152
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	67 DE-1	67 DE-1	67 DE-1	169 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt	Treatment	Rate	Growth				
No.	Name	Rate Unit	Stage	13	14	15	19
1	INTERLOCK	4 FL OZ/A	PRE	90	99	99	43.4
	AGH15003	1.3 PT/A	PRE				
	RUGGED	1 PT/A	PRE				
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE				
	SUPERB HC	1 PT/A	PRE				
	CLASS ACT NG	2.5 GAL/100 GAL	PRE				
	XTENDIMAX	22 FL OZ/A	LP				
	AG16098	0.5 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
	CLASS ACT RIDION	1 % V/V	LP				
	INTERLOCK	2 FL OZ/A	LP				
2	INTERLOCK	4 FL OZ/A	PRE	82	99	99	49.6
	AGH15003	1.3 PT/A	PRE				
	RUGGED	1 PT/A	PRE				
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE				
	SUPERB HC	1 PT/A	PRE				
	CLASS ACT NG	2.5 GAL/100 GAL	PRE				
	XTENDIMAX	22 FL OZ/A	LP				
	AG16098	0.5 % V/V	LP				
	ICONIC	0.5 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
3	INTERLOCK	4 FL OZ/A	PRE	90	99	99	55.5
	AGH15003	1.3 PT/A	PRE				
	SHREDDER	10.33 FL OZ/A	PRE				
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE				
	SUPERB HC	1 PT/A	PRE				
	CLASS ACT NG	2.5 GAL/100 GAL	PRE				
	XTENDIMAX	22 FL OZ/A	LP				
	AG16098	0.5 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
	CLASS ACT RIDION	1 % V/V	LP				
	INTERLOCK	2 FL OZ/A	LP				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-21-2017	7-21-2017	7-21-2017	10-31-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	74 50	74 50	74 50	176 152
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	67 DE-1	67 DE-1	67 DE-1	169 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt	Treatment	Rate	Growth				
No.	Name	Rate Unit	Stage	13	14	15	19
4	INTERLOCK	4 FL OZ/A	PRE	96	99	99	52.1
	AGH15003	1.3 PT/A	PRE				
	SHREDDER	10.33 FL OZ/A	PRE				
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE				
	SUPERB HC	1 PT/A	PRE				
	CLASS ACT NG	2.5 GAL/100 GAL	PRE				
	XTENDIMAX	22 FL OZ/A	LP				
	AG16098	0.5 % V/V	LP				
	ICONIC	0.5 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
5	INTERLOCK	4 FL OZ/A	PRE	95	99	99	48.7
	AGH15003	1.3 PT/A	PRE				
	SHARPEN	1 FL OZ/A	PRE				
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE				
	SUPERB HC	1 PT/A	PRE				
	CLASS ACT NG	2.5 GAL/100 GAL	PRE				
	XTENDIMAX	22 FL OZ/A	LP				
	AG16098	0.5 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
	CLASS ACT RIDION	1 % V/V	LP				
	INTERLOCK	2 FL OZ/A	LP				
6	INTERLOCK	4 FL OZ/A	PRE	99	99	99	52.0
	AGH15003	1.3 PT/A	PRE				
	SHARPEN	1 FL OZ/A	PRE				
	CORNERSTONE 5 PLUS	24 FL OZ/A	PRE				
	SUPERB HC	1 PT/A	PRE				
	CLASS ACT NG	2.5 GAL/100 GAL	PRE				
	XTENDIMAX	22 FL OZ/A	LP				
	AG16098	0.5 % V/V	LP				
	ICONIC	0.5 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
7	XTENDIMAX	22 FL OZ/A	LP	99	99	99	41.5
	AG16098	0.5 % V/V	LP				
	CLASS ACT RIDION	1 % V/V	LP				
	ROUNDUP POWERMAX	21 FL OZ/A	LP				
	INTERLOCK	2 FL OZ/A	LP				

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

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Pest Type		W Weed	W Weed	W Weed		
Pest Code		AMBTR	IPOSS	ERICA		
Pest Name		Giant ragweed	Morning glory	Marestail		
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date		7-21-2017	7-21-2017	7-21-2017	10-31-2017	
Rating Type		CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit		PERCENT	PERCENT	PERCENT	BU	
Number of Subsamples		1	1	1	1	
Rating Timing		8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.		74 50	74 50	74 50	176 152	
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence		67 DE-1	67 DE-1	67 DE-1	169 DE-1	
ARM Action Codes		P	P	P	TY1	
Number of Decimals		0	0	0	1	
Trt Treatment	Rate	Growth				
No. Name	Rate Unit	Stage	13	14	15	19
8 XTENDIMAX	22 FL OZ/A	LP	90	99	99	45.4
AG16098	0.5 % V/V	LP				
ICONIC	0.5 % V/V	LP				
ROUNDUP POWERMAX	21 FL OZ/A	LP				
LSD P=.05			2.1	.	.	3.71
Standard Deviation			1.2	0.0	0.0	2.12
CV			1.31	0.0	0.0	4.36
Replicate F			2.296	0.000	0.000	4.999
Replicate Prob(F)			0.1373	1.0000	1.0000	0.0230
Treatment F			70.377	0.000	0.000	15.262
Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001

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

University of Kentucky

NO TILL SOYBEAN XI

Trial ID: S17030 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: WIN DTS2 Investigator: Sara Carter
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: TOM HAYDEN

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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)

$TY1 = 3.821053 * [17] * (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN XI

Trial ID: S17030 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: WIN DTS2 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: TOM HAYDEN

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-31-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A	Planting Date: 5-8-2017
Depth, Unit: 1.25 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE field equipment
	Emergence Date: 5-15-2017
	Harvest Date: 10-31-2017
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 59 F	Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good	Harvest Equipment: HEGE
Seed Bed: MEDIUM medium	% Standard Moisture: 13

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 8 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B	C
Application Date:	5-8-2017	5-26-2017	6-1-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	LP	LP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	64 F	77 F	78 F
% Relative Humidity:	39	46	55
Wind Velocity, Unit:	8 MPH	6 MPH	4 MPH
Wind Direction:	ENE	SWW	WSW
Soil Temperature, Unit:	59 F	65 F	71 F
Soil Moisture:	EXCELL	EXCELL	GOOD
% Cloud Cover:	40	5	10
Next Moisture Occurred On:	5-9-2017	5-27-2017	6-5-2017

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA BSOY
Height, Unit:	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:	1	IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2	IN	5 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	0.5	IN	2 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:	2	IN	5 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	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
Boom Length, Unit:	10	FT	10 FT
Boom Height, Unit:	30	IN	30 IN
Ground Speed, Unit:	4	MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24	GPA	24 GPA
Mix Size, Unit:	3	liters	3 liters
Propellant:	CO2	CO2	CO2

Date	By	Notes
5-26-2017	SARA	TREATMENTS 1 AND 8 WERE APPLIED TODAY
6-1-2017	SARA	REMAINING LP TREATMENTS APPLIED TODAY

University of Kentucky

NO TILL SOYBEAN XII

Trial ID: S17031 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: MON B7-05 DTS Investigator: Sara Carter
 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	ERICA	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	6-21-2017	6-21-2017	6-21-2017	6-21-2017	6-21-2017	7-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	44 14	44 14	58 2
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
2	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	XTENDIMAX	22 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
3	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	COBRA	10 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
4	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	WARRANT ULTRA	50 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
5	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						

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

University of Kentucky

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 Name	Soybean					Soybean
Rating Date	6-21-2017	6-21-2017	6-21-2017	6-21-2017	6-21-2017	7-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	44 14	44 14	58 2
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
6	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	COBRA	10 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
7	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	WARRANT	48 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
8	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	SELECT MAX	6 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
9	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	FIRSTRATE	0.6 OZ WT/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						

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

University of Kentucky

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 Name	Soybean					Soybean
Rating Date	6-21-2017	6-21-2017	6-21-2017	6-21-2017	6-21-2017	7-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	44 14	44 14	58 2
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
10	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	WARRANT ULTRA	50 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
11	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	COBRA	10 FL OZ/A	V3						
	WARRANT	48 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
12	XTENDIMAX	22 FL OZ/A	PRE	0	99	99	99	99	0
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	SELECT MAX	6 FL OZ/A	V3						
	COBRA	10 FL OZ/A	V3						
	WARRANT	48 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 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	ERICA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail	Giant foxtail
Crop Code					GLXMA
Crop Name					Soybean
Rating Date	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-26-2017
Rating Type	CONTROL	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	8 WEEK
Days After First/Last Applic.	58 2	58 2	58 2	58 2	79 23
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	71 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	7	8	9	10	11	12
1	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
2	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	XTENDIMAX	22 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
3	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	COBRA	10 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
4	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	WARRANT ULTRA	50 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
5	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-26-2017	7-26-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	58 2	58 2	58 2	58 2	79 23	79 23
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	71 DE-1	71 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7		8		9		10		11		12	
No.	Name	Rate Unit	Stage												
6	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	99	99	99	99	99	0	99	99
	WARRANT	48 FL OZ/A	PRE												
	INTACT	0.5 % V/V	V3												
	COBRA	10 FL OZ/A	V3												
	XTENDIMAX	22 FL OZ/A	V3												
	ROUNDUP POWERMAX	32 FL OZ/A	V3												
	INTACT	0.5 % V/V	LP												
	XTENDIMAX	22 FL OZ/A	LP												
	ROUNDUP POWERMAX	32 FL OZ/A	LP												
7	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	99	99	99	99	99	0	99	99
	WARRANT	48 FL OZ/A	PRE												
	INTACT	0.5 % V/V	V3												
	WARRANT	48 FL OZ/A	V3												
	XTENDIMAX	22 FL OZ/A	V3												
	ROUNDUP POWERMAX	32 FL OZ/A	V3												
	INTACT	0.5 % V/V	LP												
	XTENDIMAX	22 FL OZ/A	LP												
	ROUNDUP POWERMAX	32 FL OZ/A	LP												
8	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	99	99	99	99	99	0	99	99
	WARRANT	48 FL OZ/A	PRE												
	SELECT MAX	6 FL OZ/A	V3												
	XTENDIMAX	22 FL OZ/A	V3												
	ROUNDUP POWERMAX	32 FL OZ/A	V3												
	INTACT	0.5 % V/V	V3												
	INTACT	0.5 % V/V	LP												
	XTENDIMAX	22 FL OZ/A	LP												
	ROUNDUP POWERMAX	32 FL OZ/A	LP												
9	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	99	99	99	99	99	0	99	99
	WARRANT	48 FL OZ/A	PRE												
	INTACT	0.5 % V/V	V3												
	FIRSTRATE	0.6 OZ WT/A	V3												
	XTENDIMAX	22 FL OZ/A	V3												
	ROUNDUP POWERMAX	32 FL OZ/A	V3												
	INTACT	0.5 % V/V	LP												
	XTENDIMAX	22 FL OZ/A	LP												
	ROUNDUP POWERMAX	32 FL OZ/A	LP												

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 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	ERICA		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-26-2017	7-26-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	58 2	58 2	58 2	58 2	79 23	79 23
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	71 DE-1	71 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	7	8	9	10	11	12
10	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	WARRANT ULTRA	50 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
11	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	COBRA	10 FL OZ/A	V3						
	WARRANT	48 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
12	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	99	0	99
	WARRANT	48 FL OZ/A	PRE						
	INTACT	0.5 % V/V	V3						
	SELECT MAX	6 FL OZ/A	V3						
	COBRA	10 FL OZ/A	V3						
	WARRANT	48 FL OZ/A	V3						
	XTENDIMAX	22 FL OZ/A	V3						
	ROUNDUP POWERMAX	32 FL OZ/A	V3						
	INTACT	0.5 % V/V	LP						
	XTENDIMAX	22 FL OZ/A	LP						
	ROUNDUP POWERMAX	32 FL OZ/A	LP						
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-26-2017	7-26-2017	7-26-2017	10-31-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	79 23	79 23	79 23	176 120
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	71 DE-1	71 DE-1	71 DE-1	168 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	19
		Rate Unit					
1	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	57
	WARRANT	48 FL OZ/A	PRE				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
2	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	62
	WARRANT	48 FL OZ/A	PRE				
	XTENDIMAX	22 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
3	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	55
	WARRANT	48 FL OZ/A	PRE				
	COBRA	10 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
4	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	60
	WARRANT	48 FL OZ/A	PRE				
	WARRANT ULTRA	50 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
5	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	56
	WARRANT	48 FL OZ/A	PRE				
	INTACT	0.5 % V/V	V3				
	XTENDIMAX	22 FL OZ/A	V3				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-26-2017	7-26-2017	7-26-2017	10-31-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	79 23	79 23	79 23	176 120
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	71 DE-1	71 DE-1	71 DE-1	168 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	19
6	XTENDIMAX	22	FL OZ/A	PRE	99	99	99	60
	WARRANT	48	FL OZ/A	PRE				
	INTACT	0.5	% V/V	V3				
	COBRA	10	FL OZ/A	V3				
	XTENDIMAX	22	FL OZ/A	V3				
	ROUNDUP POWERMAX	32	FL OZ/A	V3				
	INTACT	0.5	% V/V	LP				
	XTENDIMAX	22	FL OZ/A	LP				
	ROUNDUP POWERMAX	32	FL OZ/A	LP				
7	XTENDIMAX	22	FL OZ/A	PRE	99	99	99	50
	WARRANT	48	FL OZ/A	PRE				
	INTACT	0.5	% V/V	V3				
	WARRANT	48	FL OZ/A	V3				
	XTENDIMAX	22	FL OZ/A	V3				
	ROUNDUP POWERMAX	32	FL OZ/A	V3				
	INTACT	0.5	% V/V	LP				
	XTENDIMAX	22	FL OZ/A	LP				
	ROUNDUP POWERMAX	32	FL OZ/A	LP				
8	XTENDIMAX	22	FL OZ/A	PRE	99	99	99	53
	WARRANT	48	FL OZ/A	PRE				
	SELECT MAX	6	FL OZ/A	V3				
	XTENDIMAX	22	FL OZ/A	V3				
	ROUNDUP POWERMAX	32	FL OZ/A	V3				
	INTACT	0.5	% V/V	V3				
	INTACT	0.5	% V/V	LP				
	XTENDIMAX	22	FL OZ/A	LP				
	ROUNDUP POWERMAX	32	FL OZ/A	LP				
9	XTENDIMAX	22	FL OZ/A	PRE	99	99	99	52
	WARRANT	48	FL OZ/A	PRE				
	INTACT	0.5	% V/V	V3				
	FIRSTRATE	0.6	OZ WT/A	V3				
	XTENDIMAX	22	FL OZ/A	V3				
	ROUNDUP POWERMAX	32	FL OZ/A	V3				
	INTACT	0.5	% V/V	LP				
	XTENDIMAX	22	FL OZ/A	LP				
	ROUNDUP POWERMAX	32	FL OZ/A	LP				

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	ERICA	
Pest Name	Giant ragweed	Morning glory	Marestail	
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-26-2017	7-26-2017	7-26-2017	10-31-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	79 23	79 23	79 23	176 120
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	71 DE-1	71 DE-1	71 DE-1	168 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	19
10	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	56
	WARRANT	48 FL OZ/A	PRE				
	INTACT	0.5 % V/V	V3				
	WARRANT ULTRA	50 FL OZ/A	V3				
	XTENDIMAX	22 FL OZ/A	V3				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
11	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	51
	WARRANT	48 FL OZ/A	PRE				
	INTACT	0.5 % V/V	V3				
	COBRA	10 FL OZ/A	V3				
	WARRANT	48 FL OZ/A	V3				
	XTENDIMAX	22 FL OZ/A	V3				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
12	XTENDIMAX	22 FL OZ/A	PRE	99	99	99	49
	WARRANT	48 FL OZ/A	PRE				
	INTACT	0.5 % V/V	V3				
	SELECT MAX	6 FL OZ/A	V3				
	COBRA	10 FL OZ/A	V3				
	WARRANT	48 FL OZ/A	V3				
	XTENDIMAX	22 FL OZ/A	V3				
	ROUNDUP POWERMAX	32 FL OZ/A	V3				
	INTACT	0.5 % V/V	LP				
	XTENDIMAX	22 FL OZ/A	LP				
	ROUNDUP POWERMAX	32 FL OZ/A	LP				
LSD P=.05				.	.	.	7.5
Standard Deviation				0.0	0.0	0.0	4.4
CV				0.0	0.0	0.0	8.06
Replicate F				0.000	0.000	0.000	0.221
Replicate Prob(F)				1.0000	1.0000	1.0000	0.8034
Treatment F				0.000	0.000	0.000	2.727
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0217

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University of Kentucky

NO TILL SOYBEAN XII

Trial ID: S17031 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: MON B7-05 DTS Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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)

$TY1 = 3.821053 * [17] * (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN XII

Trial ID: S17031 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: MON B7-05 DTS Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017
Completion Date: 10-31-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A	Planting Date: 5-8-2017
Depth, Unit: 1.25 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
	Emergence Date: 5-16-2017
	Harvest Date: 10-31-2017
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 59 F	Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good	Harvest Equipment: HEGE
Seed Bed: SMOOTH smooth	% Standard Moisture: 13

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 12 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B	C
Application Date:	5-8-2017	6-7-2017	7-3-2017
Application Method:	SPRAY	SPRAY	spray
Application Timing:	PRE	V3	LP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA
Air Temperature, Unit:	64 F	62 F	78 F
% Relative Humidity:	39	65	81
Wind Velocity, Unit:	8 MPH	5 MPH	1 MPH
Wind Direction:	ENE	SW	W
Soil Temperature, Unit:	59 F	68 F	76 F
Soil Moisture:	EXCELL	GOOD	GOOD
% Cloud Cover:	40	20	10
Next Moisture Occurred On:	5-9-2017	6-13-2017	7-4-2017

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Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:			BBCH		BBCH	
Stage Majority, Percent:			V3 98		V10 100	
Height, Unit:			10 IN		20 IN	

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Height, Unit:	1	IN	4	IN	8	IN
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:	2	IN	4	IN	14	IN
Pest 3 Code, Type, Scale:	IPOSS	W	IPOSS	W	IPOSS	W
Height, Unit:			2	IN	6	IN
Pest 4 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W
Height, Unit:	2	IN	7	IN	10	IN

Application Equipment

	A		B		C	
Appl. Equipment:	ATV		ATV		BACKPACK	
Equipment Type:	ALTEVE		ALTEVE		BELSPR	
Operation Pressure, Unit:	30	PSI	30	PSI	35	PSI
Nozzle Type:	FLAFAI		FLAFAI		FLAFAI	
Nozzle Size:	TTI 003		TTI 003		TTI 003	
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:	18	GPA	18	GPA	18	GPA
Mix Size, Unit:	2.5	liters	2.5	liters	2.5	liters
Propellant:	CO2		CO2		CO2	

Date	By	Notes
5-8-2017	SARA	OVERSPRAYED ENTIRE AREA WITH ROUNDUP FOR BURNDOWN

University of Kentucky

NO TILL SOYBEAN XIII

Trial ID: S17032
Protocol ID: UPI-LL-SOY
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: TONY ESTES-MIKE JANES

Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS	ERICA		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code	GLXMA					GLXMA	
Crop Name	Soybean					Soybean	
Rating Date	6-7-2017	6-7-2017	6-7-2017	6-7-2017	6-7-2017	6-21-2017	6-21-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	30 30	30 30	30 30	30 30	30 30	44 14	44 14
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	AT POST	AFTER APPL	AFTER APPL
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	36 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	7
1	UNTREATED CHECK			0	0	0	0	0	0	0
2	KFD-240-01	42 FL OZ/A PRE		0	99	99	99	99	0	99
	INTERLINE	29 FL OZ/A MP								
	AMS	2.5 % V/V MP								
3	KFD-195-02	44 FL OZ/A PRE		0	99	99	99	99	0	99
	INTERLINE	29 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
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA		SETFA	AMBTR	IPOSS
Pest Name	Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory
Crop Code				GLXMA			
Crop Name				Soybean			
Rating Date	6-21-2017	6-21-2017	6-21-2017	7-5-2017	7-5-2017	7-5-2017	7-5-2017
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	58 28	58 28	58 28	58 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	8	9	10	11	12	13	14
No.	Name	Rate Unit	Stage							
1	UNTREATED CHECK			0	0	0	0	0	0	0
2	KFD-240-01	42 FL OZ/A PRE		99	99	99	0	99	99	99
	INTERLINE	29 FL OZ/A MP								
	AMS	2.5 % V/V MP								
3	KFD-195-02	44 FL OZ/A PRE		99	99	99	0	99	99	99
	INTERLINE	29 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
	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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

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Pest Type	W Weed			
Pest Code	ERICA			
Pest Name	Marestail			
Crop Code	GLXMA			
Crop Name	Soybean			
Rating Date	7-5-2017		10-13-2017	
Rating Type	CONTROL		YIELD	
Rating Unit	PERCENT		BU	
Number of Subsamples	1		1	
Rating Timing	4 WEEK			
Days After First/Last Applic.	58 28		158 128	
Trt-Eval Interval	AFTER APPL			
Days After Emergence	50 DE-1		150 DE-1	
ARM Action Codes	P		TY1	
Number of Decimals	0		1	
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	15	19
1 UNTREATED CHECK			0	13.5
2 KFD-240-01	42 FL OZ/A PRE		99	25.6
INTERLINE	29 FL OZ/A MP			
AMS	2.5 % V/V MP			
3 KFD-195-02	44 FL OZ/A PRE		99	25.2
INTERLINE	29 FL OZ/A MP			
AMS	2.5 % V/V MP			
LSD P=.05			.	9.40
Standard Deviation			0.0	4.15
CV			0.0	19.35
Replicate F			0.000	4.257
Replicate Prob(F)			1.0000	0.1022
Treatment F			0.000	8.266
Treatment Prob(F)			1.0000	0.0380

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

University of Kentucky

NO TILL SOYBEAN XIII

Trial ID: S17032 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: UPI-LL-SOY Investigator: Sara Carter
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: TONY ESTES-MIKE JANES

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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)

$TY1 = 3.821053 * [17] * (100 - [18]) / 87$

University of Kentucky

NO TILL SOYBEAN XIII

Trial ID: S17032 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: UPI-LL-SOY Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: TONY ESTES-MIKE JANES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-13-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ 4105LL

Planting Rate, Unit: 140000 S/A	Planting Date: 5-8-2017
Depth, Unit: 1.25 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE field equipment
	Emergence Date: 5-16-2017
	Harvest Date: 10-13-2017
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 59 F	Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good	Harvest Equipment: HEGE
Seed Bed: MEDIUM medium	% Standard Moisture: 13.0

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 3 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	5-8-2017	6-7-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	60 F	62 F
% Relative Humidity:	50	65
Wind Velocity, Unit:	6 MPH	6 MPH
Wind Direction:	SW	SE
Soil Temperature, Unit:	59 F	68 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	30	10
Next Moisture Occurred On:	5-9-2017	6-13-2017

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

Date	By	Notes
5-8-2017	SARA	OVERSPRAYED WITH LIBERTY @ PRE FOR BURNDOWN

University of Kentucky

NO TILL SOYBEAN XIV

Trial ID: S17033
Protocol ID: DUP-17-110
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
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	ERICA		SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail		Giant foxtail
Crop Code	GLXMA					GLXMA	
Crop Name	Soybean					Soybean	
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017	6-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	20 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	7
1	CANOPY	6 OZ/A	PRE	0	99	99	99	99	0	99
	CINCH	1.25 PT/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
2	CANOPY	6 OZ/A	PRE	0	99	99	99	99	0	99
	ZIDUA	1.5 OZ/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
3	CANOPY	2.25 OZ/A	PRE	0	99	99	99	99	0	99
	BOUNDARY	1.5 PT/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
4	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0	99
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
5	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0	99
	ZIDUA	1.5 OZ/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
6	COMBO 776		PRE	0	99	99	99	99	0	99
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
7	COMBO 776		PRE	0	99	99	99	99	0	99
	ZIDUA	1.5 OZ/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS	ERICA	SETFA	SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	Marestail	Giant foxtail	Giant foxtail
Crop Code	GLXMA					GLXMA	
Crop Name	Soybean					Soybean	
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-5-2017	6-5-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	20 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	7
8 COMBO 710		PRE	0	99	99	99	99	0	99
CINCH	1.25 PT/A	PRE							
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
9 COMBO 710		PRE	0	99	99	99	99	0	99
ZIDUA	1.5 OZ/A	PRE							
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
10 ENVIVE	3.5 OZ/A	PRE	0	99	99	99	99	0	99
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
11 BOUNDARY	2 PT/A	PRE	0	99	99	99	99	0	99
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
12 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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA		SETFA	AMBTR	IPOSS
Pest Name	Giant ragweed	Morning glory	Marestail		Giant foxtail	Giant ragweed	Morning glory
Crop Code				GLXMA			
Crop Name				Soybean			
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-19-2017	6-19-2017	6-19-2017	6-19-2017
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	42 12	42 12	42 12	42 12
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	8	9	10	11	12	13	14
No.	Name	Rate Unit	Stage							
1	CANOPY	6 OZ/A	PRE	99	99	99	0	99	99	99
	CINCH	1.25 PT/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
2	CANOPY	6 OZ/A	PRE	99	99	99	0	99	99	99
	ZIDUA	1.5 OZ/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
3	CANOPY	2.25 OZ/A	PRE	99	99	99	0	99	99	99
	BOUNDARY	1.5 PT/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
4	TRIVENCE	8 OZ/A	PRE	99	99	99	0	99	99	99
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
5	TRIVENCE	8 OZ/A	PRE	99	99	99	0	99	99	99
	ZIDUA	1.5 OZ/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
6	COMBO 776		PRE	99	99	99	0	99	99	99
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							
7	COMBO 776		PRE	99	99	99	0	99	99	99
	ZIDUA	1.5 OZ/A	PRE							
	LIBERTY 280	29 FL OZ/A	28DAP							
	CINCH	1 PT/A	28DAP							
	AMS	2 LB/A	28DAP							

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	ERICA	SETFA	AMBTR	IPOSS	IPOSS
Pest Name	Giant ragweed	Morning glory	Marestail	Giant foxtail	Giant ragweed	Morning glory	
Crop Code				GLXMA			
Crop Name				Soybean			
Rating Date	6-5-2017	6-5-2017	6-5-2017	6-19-2017	6-19-2017	6-19-2017	6-19-2017
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	42 12	42 12	42 12	42 12
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment	Rate	Growth	8	9	10	11	12	13	14
No. Name	Rate Unit	Stage							
8 COMBO 710		PRE	99	99	99	0	99	99	99
CINCH	1.25 PT/A	PRE							
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
9 COMBO 710		PRE	99	99	99	0	99	99	99
ZIDUA	1.5 OZ/A	PRE							
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
10 ENVIVE	3.5 OZ/A	PRE	99	99	99	0	99	99	99
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
11 BOUNDARY	2 PT/A	PRE	99	99	99	0	99	99	99
LIBERTY 280	29 FL OZ/A	28DAP							
CINCH	1 PT/A	28DAP							
AMS	2 LB/A	28DAP							
12 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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 because error mean square = 0.

University of Kentucky

Pest Type	W Weed
Pest Code	ERICA
Pest Name	Marestail
Crop Code	
Crop Name	
Rating Date	6-19-2017
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	6 WEEK
Days After First/Last Applic.	42 12
Trt-Eval Interval	AFTER APPL
Days After Emergence	34 DE-1
ARM Action Codes	P
Number of Decimals	0

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	15
1	CANOPY	6 OZ/A	PRE	99
	CINCH	1.25 PT/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
2	CANOPY	6 OZ/A	PRE	99
	ZIDUA	1.5 OZ/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
3	CANOPY	2.25 OZ/A	PRE	99
	BOUNDARY	1.5 PT/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
4	TRIVENCE	8 OZ/A	PRE	99
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
5	TRIVENCE	8 OZ/A	PRE	99
	ZIDUA	1.5 OZ/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
6	COMBO 776		PRE	99
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
7	COMBO 776		PRE	99
	ZIDUA	1.5 OZ/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	

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

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Pest Type	W Weed
Pest Code	ERICA
Pest Name	Marestail
Crop Code	
Crop Name	
Rating Date	6-19-2017
Rating Type	CONTROL
Rating Unit	PERCENT
Number of Subsamples	1
Rating Timing	6 WEEK
Days After First/Last Applic.	42 12
Trt-Eval Interval	AFTER APPL
Days After Emergence	34 DE-1
ARM Action Codes	P
Number of Decimals	0

Trt No.	Treatment Name	Rate	Growth Stage	
		Rate Unit		15
8	COMBO 710		PRE	99
	CINCH	1.25 PT/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
9	COMBO 710		PRE	99
	ZIDUA	1.5 OZ/A	PRE	
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
10	ENVIVE	3.5 OZ/A	PRE	99
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
11	BOUNDARY	2 PT/A	PRE	99
	LIBERTY 280	29 FL OZ/A	28DAP	
	CINCH	1 PT/A	28DAP	
	AMS	2 LB/A	28DAP	
12	UNTREATED 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

University of Kentucky

NO TILL SOYBEAN XIV

Trial ID: S17033 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DUP-17-110 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Maretail = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN XIV

Trial ID: S17033 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-17-110 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017
Completion Date: 11-1-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ 4105LL

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.25 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Soil Temperature, Unit: 58 F **Emergence Date:** 5-16-2017
Soil Moisture: GOOD good
Seed Bed: SMOOTH smooth

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 12 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B
Application Date:	5-8-2017	6-7-2017
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	65 F
% Relative Humidity:	50	65
Wind Velocity, Unit:	6 MPH	3 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	59 F	68 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	10
Next Moisture Occurred On:	5-9-2017	6-13-2017

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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:	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
Pest 4 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:	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

SOYBEAN POSTEMERGENCE

Trial ID: S17034 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BASF-DTS Investigator: Sara Carter
 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	CHEAL	AMACH
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	Smooth pigweed
Crop Code	GLXMA					
Crop Name	Soybean					
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	37 3	37 3	37 3	37 3	37 3	37 3
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	CHECK			0	0	0	0	0	0
2	VERDICT	5 FL OZ/A	PRE	0	99	99	99	99	99
	OUTLOOK	5 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	+MP						
	ZIDUA	1.3 OZ WT/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
3	PREFIX	32 FL OZ/A	PRE	0	99	99	99	99	99
	XTENDIMAX	22 FL OZ/A	+MP						
	DUAL MAGNUM	16 FL OZ/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
4	WARRANT ULTRA	48 FL OZ/A	PRE	0	99	99	99	99	99
	XTENDIMAX	22 FL OZ/A	+MP						
	WARRANT	48 FL OZ/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
5	ENGENIA	12.8 FL OZ/A	MP	0	99	99	99	99	99
	ZIDUA	1.3 OZ WT/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						
6	XTENDIMAX	22 FL OZ/A	MP	0	99	99	99	99	99
	DUAL MAGNUM	16 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						
7	XTENDIMAX	22 FL OZ/A	MP	0	99	99	99	99	99
	WARRANT	48 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18 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	CHEAL	AMACH
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	Smooth pigweed
Crop Code	GLXMA					
Crop Name	Soybean					
Rating Date	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017	6-9-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	37 3	37 3	37 3	37 3	37 3	37 3
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
8 ENGENIA	12.8 FL OZ/A	MP	0	99	99	99	99	99
ROUNDUP POWERMAX	32 FL OZ/A	MP						
INDUCE	0.25 % 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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18 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	CHEAL	AMACH
Pest Name		Giant foxtail Giant ragweed Morning glory common lambsquarters Smooth pigweed				
Crop Code	GLXMA					
Crop Name	Soybean					
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	6-23-2017	6-23-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	51 17	51 17	51 17	51 17	51 17	51 17
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12
1	CHECK			0	0	0	0	0	0
2	VERDICT	5 FL OZ/A	PRE	0	99	99	99	99	99
	OUTLOOK	5 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	+MP						
	ZIDUA	1.3 OZ WT/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
3	PREFIX	32 FL OZ/A	PRE	0	99	99	99	99	99
	XTENDIMAX	22 FL OZ/A	+MP						
	DUAL MAGNUM	16 FL OZ/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
4	WARRANT ULTRA	48 FL OZ/A	PRE	0	99	99	99	99	99
	XTENDIMAX	22 FL OZ/A	+MP						
	WARRANT	48 FL OZ/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
5	ENGENIA	12.8 FL OZ/A	MP	0	99	99	99	99	99
	ZIDUA	1.3 OZ WT/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						
6	XTENDIMAX	22 FL OZ/A	MP	0	99	99	99	99	99
	DUAL MAGNUM	16 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						
7	XTENDIMAX	22 FL OZ/A	MP	0	99	99	99	99	99
	WARRANT	48 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18 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	CHEAL	AMACH
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	Smooth pigweed
Crop Code	GLXMA					
Crop Name	Soybean					
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	6-23-2017	6-23-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	51 17	51 17	51 17	51 17	51 17	51 17
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth	7		8		9		10		11		12	
No. Name	Rate Unit	Stage												
8 ENGENIA	12.8 FL OZ/A	MP	0	99	99	99	99	99	99	99	99	99	99	99
ROUNDUP POWERMAX	32 FL OZ/A	MP												
INDUCE	0.25 % V/V	MP												
LSD P=.05			.	.	.	.	.	.	.	.	.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0	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	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	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	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	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	1.0000	1.0000	1.0000	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18 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	CHEAL	AMACH
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	Smooth pigweed
Crop Code	GLXMA					
Crop Name	Soybean					
Rating Date	7-21-2017	7-21-2017	7-21-2017	7-21-2017	7-21-2017	7-21-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	79 45	79 45	79 45	79 45	79 45	79 45
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	73 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	13	14	15	16	17	18
No.	Name	Rate Unit	Stage						
1	CHECK			0	0	0	0	0	0
2	VERDICT	5 FL OZ/A	PRE	0	99	99	99	99	99
	OUTLOOK	5 FL OZ/A	PRE						
	ENGENIA	12.8 FL OZ/A	+MP						
	ZIDUA	1.3 OZ WT/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
3	PREFIX	32 FL OZ/A	PRE	0	99	99	99	99	99
	XTENDIMAX	22 FL OZ/A	+MP						
	DUAL MAGNUM	16 FL OZ/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
4	WARRANT ULTRA	48 FL OZ/A	PRE	0	99	99	99	99	99
	XTENDIMAX	22 FL OZ/A	+MP						
	WARRANT	48 FL OZ/A	+MP						
	ROUNDUP POWERMAX	32 FL OZ/A	+MP						
	INDUCE	0.25 % V/V	+MP						
5	ENGENIA	12.8 FL OZ/A	MP	0	99	92	95	99	99
	ZIDUA	1.3 OZ WT/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						
6	XTENDIMAX	22 FL OZ/A	MP	0	99	89	90	99	99
	DUAL MAGNUM	16 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						
7	XTENDIMAX	22 FL OZ/A	MP	0	99	95	95	99	99
	WARRANT	48 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	INDUCE	0.25 % V/V	MP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18 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	CHEAL	AMACH		
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	Smooth pigweed		
Crop Code	GLXMA							
Crop Name	Soybean							
Rating Date	7-21-2017	7-21-2017	7-21-2017	7-21-2017	7-21-2017	7-21-2017		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples	1	1	1	1	1	1		
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	79 45	79 45	79 45	79 45	79 45	79 45		
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL		
Days After Emergence	73 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Growth	13	14	15	16	17	18
No. Name	Rate Unit	Stage						
8 ENGENIA	12.8 FL OZ/A	MP	0	90	90	90	99	99
ROUNDUP POWERMAX	32 FL OZ/A	MP						
INDUCE	0.25 % V/V	MP						
LSD P=.05			.	.	1.9	.	.	.
Standard Deviation			0.0	0.0	1.1	0.0	0.0	0.0
CV			0.0	0.0	1.29	0.0	0.0	0.0
Replicate F			0.000	0.000	1.415	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	0.2757	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	2971.436	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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18 because error mean square = 0.

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Pest Type
 Pest Code
 Pest Name
 Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10-18-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Rating Timing
 Days After First/Last Applic. 168 134
 Trt-Eval Interval
 Days After Emergence 162 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	22
1	CHECK				0.6
2	VERDICT	5 FL OZ/A	PRE		61.4
	OUTLOOK	5 FL OZ/A	PRE		
	ENGENIA	12.8 FL OZ/A	+MP		
	ZIDUA	1.3 OZ WT/A	+MP		
	ROUNDUP POWERMAX	32 FL OZ/A	+MP		
	INDUCE	0.25 % V/V	+MP		
3	PREFIX	32 FL OZ/A	PRE		51.0
	XTENDIMAX	22 FL OZ/A	+MP		
	DUAL MAGNUM	16 FL OZ/A	+MP		
	ROUNDUP POWERMAX	32 FL OZ/A	+MP		
	INDUCE	0.25 % V/V	+MP		
4	WARRANT ULTRA	48 FL OZ/A	PRE		59.7
	XTENDIMAX	22 FL OZ/A	+MP		
	WARRANT	48 FL OZ/A	+MP		
	ROUNDUP POWERMAX	32 FL OZ/A	+MP		
	INDUCE	0.25 % V/V	+MP		
5	ENGENIA	12.8 FL OZ/A	MP		55.0
	ZIDUA	1.3 OZ WT/A	MP		
	ROUNDUP POWERMAX	32 FL OZ/A	MP		
	INDUCE	0.25 % V/V	MP		
6	XTENDIMAX	22 FL OZ/A	MP		62.5
	DUAL MAGNUM	16 FL OZ/A	MP		
	ROUNDUP POWERMAX	32 FL OZ/A	MP		
	INDUCE	0.25 % V/V	MP		
7	XTENDIMAX	22 FL OZ/A	MP		57.7
	WARRANT	48 FL OZ/A	MP		
	ROUNDUP POWERMAX	32 FL OZ/A	MP		
	INDUCE	0.25 % V/V	MP		

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Pest Type			
Pest Code			
Pest Name			
Crop Code	GLXMA		
Crop Name	Soybean		
Rating Date	10-18-2017		
Rating Type	YIELD		
Rating Unit	BU		
Number of Subsamples	1		
Rating Timing			
Days After First/Last Applic.	168 134		
Trt-Eval Interval			
Days After Emergence	162 DE-1		
ARM Action Codes	TY1		
Number of Decimals	1		
<hr/>			
Trt Treatment	Rate	Growth	
No. Name	Rate Unit	Stage	22
8 ENGENIA	12.8 FL OZ/A	MP	45.7
ROUNDUP POWERMAX	32 FL OZ/A	MP	
INDUCE	0.25 % V/V	MP	
LSD P=.05			17.77
Standard Deviation			10.15
CV			20.63
Replicate F			2.438
Replicate Prob(F)			0.1235
Treatment F			12.143
Treatment Prob(F)			0.0001

University of Kentucky

SOYBEAN POSTEMERGENCE

Trial ID: S17034 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BASF-DTS Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

IPOSS, Ipomoea sp., Morning glory = US

CHEAL, Chenopodium album, common lambsquarters = US

AMACH, Amaranthus hybridus, Smooth pigweed = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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 = $3.821053 \times [20] \times (100 - [21]) / 87$

University of Kentucky

SOYBEAN POSTEMERGENCE

Trial ID: S17034 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BASF-DTS Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-2-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-18-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A	Planting Date: 5-2-2017
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE field equipment
	Emergence Date: 5-9-2017
	Harvest Date: 10-18-2017
Soil Temperature, Unit: 62 F	Harvested Width, Unit: 5 FT
Soil Moisture: GOOD good	Harvested Length, Unit: 38 FT
Seed Bed: MEDIUM medium	Harvest Equipment: HEGE
	% Standard Moisture: 13.0

University of Kentucky

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:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 8 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B	C
Application Date:	5-3-2017	5-26-2017	6-6-2017
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:	85 F	77 F	72 F
% Relative Humidity:	39	46	50
Wind Velocity, Unit:	8 MPH	6 MPH	4 MPH
Wind Direction:	ENE	SWW	WSW
Soil Temperature, Unit:	60 F	67 F	70 F
Soil Moisture:	GOOD	EXCELL	GOOD
% Cloud Cover:	40	5	30
Next Moisture Occurred On:	5-4-2017	5-27-2017	6-13-2017

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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:	5 IN	7 IN	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	2 IN	3.5 IN	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	3 IN	5 IN	
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1.5 IN	3 IN	
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	2 IN	3 IN	
Pest 5 Code, Type, Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:	2 IN	4 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

University of Kentucky

SOYBEAN PREEMERGENCE

Trial ID: S17035
Protocol ID: AMVAC-DTS-PRE
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: JOE ARGENTINE

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	CHEAL	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	common lambsquarters	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-31-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 DE-1	21 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED				0	0	0	0	0	0
2	SCEPTER	2.8 OZ/A	PRE		0	99	99	99	99	0
3	BOUNDARY	1.5 PT/A	PRE		0	99	99	99	99	0
4	DUAL MAGNUM	1 PT/A	PRE		5	99	99	99	99	5
	SCEPTER	2.1 OZ/A	PRE							
5	DUAL MAGNUM	1 PT/A	PRE		5	99	99	99	99	5
	SCEPTER	2.8 OZ/A	PRE							
6	CANOPY	6 OZ/A	PRE		5	99	99	99	99	5
7	DUAL MAGNUM	1 PT/A	PRE		10	99	99	99	99	10
	CANOPY	6 OZ/A	PRE							
8	METRIBUZIN	0.5 LB/A	PRE		0	99	99	99	99	0
	SCEPTER	2.1 OZ/A	PRE							
9	METRIBUZIN	0.5 LB/A	PRE		0	99	99	99	99	0
	SCEPTER	2.8 OZ/A	PRE							
10	DUAL MAGNUM	1 PT/A	PRE		0	99	99	99	99	0
	SCEPTER	2.1 OZ/A	PRE							
	METRIBUZIN	0.5 LB/A	PRE							
11	DUAL MAGNUM	1 PT/A	PRE		0	99	99	99	99	0
	SCEPTER	2.8 OZ/A	PRE							
	METRIBUZIN	0.5 LB/A	PRE							
12	ENGENIA	12.8 FL OZ/A	PRE		0	99	99	99	99	0
	SCEPTER	2.1 OZ/A	PRE							
13	DUAL MAGNUM	1 PT/A	PRE		0	99	99	99	99	0
	ENGENIA	12.8 FL OZ/A	PRE							
	SCEPTER	2.1 OZ/A	PRE							
14	DUAL MAGNUM	1 PT/A	PRE		10	99	99	99	99	10
	SCEPTER	2.1 OZ/A	PRE							
	VALOR SX	2.4 OZ/A	PRE							
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 1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17 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	CHEAL		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	common lambsquarters		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	5-31-2017	5-31-2017	5-31-2017	5-31-2017	7-3-2017	7-3-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
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	61 61	61 61
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	54 DE-1	54 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	SCEPTER	2.8 OZ/A	PRE	70	90	99	99	0	70
3	BOUNDARY	1.5 PT/A	PRE	99	70	99	99	0	99
4	DUAL MAGNUM	1 PT/A	PRE	99	90	99	99	0	99
	SCEPTER	2.1 OZ/A	PRE						
5	DUAL MAGNUM	1 PT/A	PRE	99	90	95	99	0	99
	SCEPTER	2.8 OZ/A	PRE						
6	CANOPY	6 OZ/A	PRE	99	90	99	99	0	99
7	DUAL MAGNUM	1 PT/A	PRE	99	95	95	99	0	99
	CANOPY	6 OZ/A	PRE						
8	METRIBUZIN	0.5 LB/A	PRE	95	95	99	99	0	95
	SCEPTER	2.1 OZ/A	PRE						
9	METRIBUZIN	0.5 LB/A	PRE	95	95	99	99	0	95
	SCEPTER	2.8 OZ/A	PRE						
10	DUAL MAGNUM	1 PT/A	PRE	99	90	99	99	0	99
	SCEPTER	2.1 OZ/A	PRE						
	METRIBUZIN	0.5 LB/A	PRE						
11	DUAL MAGNUM	1 PT/A	PRE	99	95	99	99	0	99
	SCEPTER	2.8 OZ/A	PRE						
	METRIBUZIN	0.5 LB/A	PRE						
12	ENGENIA	12.8 FL OZ/A	PRE	99	95	90	99	0	99
	SCEPTER	2.1 OZ/A	PRE						
13	DUAL MAGNUM	1 PT/A	PRE	99	88	90	99	0	99
	ENGENIA	12.8 FL OZ/A	PRE						
	SCEPTER	2.1 OZ/A	PRE						
14	DUAL MAGNUM	1 PT/A	PRE	99	95	99	99	0	99
	SCEPTER	2.1 OZ/A	PRE						
	VALOR SX	2.4 OZ/A	PRE						
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 1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL
Pest Name	Giant ragweed Morning glory common lambsquarters		
Crop Code			
Crop Name			
Rating Date	7-3-2017	7-3-2017	7-3-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	61 61	61 61	61 61
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	54 DE-1	54 DE-1	54 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt	Treatment	Rate	Growth	Growth			
No.	Name	Rate Unit	Stage	13	14	15	16 17
1	UNTREATED			0	0		0
2	SCEPTER	2.8 OZ/A	PRE	86	99		99
3	BOUNDARY	1.5 PT/A	PRE	30	99		99
4	DUAL MAGNUM	1 PT/A	PRE	80	99		99
	SCEPTER	2.1 OZ/A	PRE				
5	DUAL MAGNUM	1 PT/A	PRE	85	95		99
	SCEPTER	2.8 OZ/A	PRE				
6	CANOPY	6 OZ/A	PRE	90	99		99
7	DUAL MAGNUM	1 PT/A	PRE	90	95		99
	CANOPY	6 OZ/A	PRE				
8	METRIBUZIN	0.5 LB/A	PRE	87	99		99
	SCEPTER	2.1 OZ/A	PRE				
9	METRIBUZIN	0.5 LB/A	PRE	90	99		99
	SCEPTER	2.8 OZ/A	PRE				
10	DUAL MAGNUM	1 PT/A	PRE	80	99		99
	SCEPTER	2.1 OZ/A	PRE				
	METRIBUZIN	0.5 LB/A	PRE				
11	DUAL MAGNUM	1 PT/A	PRE	85	99		99
	SCEPTER	2.8 OZ/A	PRE				
	METRIBUZIN	0.5 LB/A	PRE				
12	ENGENIA	12.8 FL OZ/A	PRE	80	80		99
	SCEPTER	2.1 OZ/A	PRE				
13	DUAL MAGNUM	1 PT/A	PRE	80	80		99
	ENGENIA	12.8 FL OZ/A	PRE				
	SCEPTER	2.1 OZ/A	PRE				
14	DUAL MAGNUM	1 PT/A	PRE	80	80		99
	SCEPTER	2.1 OZ/A	PRE				
	VALOR SX	2.4 OZ/A	PRE				
LSD P=.05				1.1	.	.	.
Standard Deviation				0.7	0.0	0.0	.
CV				0.91	0.0	0.0	.
Replicate F				0.000	0.000	0.000	
Replicate Prob(F)				1.0000	1.0000	1.0000	
Treatment F				4455.750	0.000	0.000	
Treatment Prob(F)				0.0001	1.0000	1.0000	

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

University of Kentucky

SOYBEAN PREEMERGENCE

Trial ID: S17035 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: AMVAC-DTS-PRE Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

SOYBEAN PREEMERGENCE

Trial ID: S17035 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: AMVAC-DTS-PRE Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-2-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 11-1-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 62 F **Emergence Date:** 5-10-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 14 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

A
Application Date: 5-3-2017
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Applied By: C H SLACK
Air Temperature, Unit: 85 F
% Relative Humidity: 39
Wind Velocity, Unit: 8 MPH
Wind Direction: ENE
Soil Temperature, Unit: 60 F
Soil Moisture: GOOD
% Cloud Cover: 40
Next Moisture Occurred On: 5-4-2017

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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
Pest 4 Code, Type, Scale: CHEAL 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: 30 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 3 liters
Propellant: CO2

University of Kentucky

SOYBEAN POSTEMERGENCE II

Trial ID: S17036 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: VALENT-64.05 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	CHEAL	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	common lambsquarters	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-19-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	19 19	19 19	19 19	19 19	19 19	47 24
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1	41 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

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	EP	0	0	0	0	0	0
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
3	ZIDUA PRO	4.5 FL OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
4	VALOR EZ	2.5 FL OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
5	FIERCE	3 OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
6	FIERCE MTZ	1 PT/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
7	AUTHORITY MTZ	11 OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
8	AUTHORITY ELITE	26 FL OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
9	VALOR EZ	2.5 FL OZ/A	PRE	0	99	99	99	99	0
	SENCOR	4 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	AMBTR	IPOSS	CHEAL		
Pest Name		Giant foxtail	Giant ragweed	Morning glory	common lambsquarters		
Crop Code	GLXMA					GLXMA	
Crop Name	Soybean					Soybean	
Rating Date	5-22-2017	5-22-2017	5-22-2017	5-22-2017	5-22-2017	6-19-2017	
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples	1	1	1	1	1	1	
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	
Days After First/Last Applic.	19 19	19 19	19 19	19 19	19 19	47 24	
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1	41 DE-1	
ARM Action Codes	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	1	2	3	4	5
10 VALOR EZ	2 FL OZ/A	PRE	0	99	99	99	99
ROUNDUP POWERMAX	32 FL OZ/A	EP					
CLARITY	1 PT/A	EP					
NIS	0.25 % V/V	EP					
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

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	CHEAL		SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	common lambsquarters		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-17-2017	7-17-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	47 24	47 24	47 24	47 24	75 52	75 52
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	69 DE-1	69 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

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	ROUNDUP POWERMAX	32 FL OZ/A	EP	99	95	95	99	0	99
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
3	ZIDUA PRO	4.5 FL OZ/A	PRE	96	95	99	99	0	96
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
4	VALOR EZ	2.5 FL OZ/A	PRE	98	99	99	99	0	98
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
5	FIERCE	3 OZ/A	PRE	98	95	99	99	0	98
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
6	FIERCE MTZ	1 PT/A	PRE	99	95	95	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
7	AUTHORITY MTZ	11 OZ/A	PRE	98	95	99	99	0	98
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
8	AUTHORITY ELITE	26 FL OZ/A	PRE	99	95	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						
9	VALOR EZ	2.5 FL OZ/A	PRE	96	95	95	99	0	96
	SENCOR	4 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	EP						
	CLARITY	1 PT/A	EP						
	NIS	0.25 % V/V	EP						

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	IPOSS	CHEAL	SETFA	SETFA			
Pest Name	Giant foxtail	Giant ragweed	Morning glory	common lambsquarters		Giant foxtail			
Crop Code					GLXMA				
Crop Name					Soybean				
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-17-2017	7-17-2017			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples	1	1	1	1	1	1			
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.	47 24	47 24	47 24	47 24	75 52	75 52			
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL			
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	69 DE-1	69 DE-1			
ARM Action Codes	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	7	8	9	10	11	12	
10 VALOR EZ	2 FL OZ/A PRE		98	95	95		99	0	98
ROUNDUP POWERMAX	32 FL OZ/A EP								
CLARITY	1 PT/A EP								
NIS	0.25 % V/V EP								
LSD P=.05			3.5	3.5
Standard Deviation			2.0	0.0	0.0		0.0	0.0	2.0
CV			2.3	0.0	0.0		0.0	0.0	2.3
Replicate F			9.424	0.000	0.000		0.000	0.000	9.424
Replicate Prob(F)			0.0016	1.0000	1.0000		1.0000	1.0000	0.0016
Treatment F			701.802	0.000	0.000		0.000	0.000	701.802
Treatment Prob(F)			0.0001	1.0000	1.0000		1.0000	1.0000	0.0001

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

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	CHEAL	
Pest Name	Giant ragweed Morning glory common lambsquarters			
Crop Code				GLXMA
Crop Name				Soybean
Rating Date	7-17-2017	7-17-2017	7-17-2017	10-18-2017
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	75 52	75 52	75 52	168 145
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	162 DE-1
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt	Treatment	Rate	Growth	13	14	15	19
No.	Name	Rate Unit	Stage				
1	UNTREATED CHECK			0	0	0	35.1
2	ROUNDUP POWERMAX	32 FL OZ/A EP		90	90	99	102.0
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
3	ZIDUA PRO	4.5 FL OZ/A PRE		90	90	99	111.3
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
4	VALOR EZ	2.5 FL OZ/A PRE		89	90	99	101.8
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
5	FIERCE	3 OZ/A PRE		88	99	99	98.3
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
6	FIERCE MTZ	1 PT/A PRE		90	95	99	77.4
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
7	AUTHORITY MTZ	11 OZ/A PRE		88	99	99	119.4
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
8	AUTHORITY ELITE	26 FL OZ/A PRE		88	99	99	66.6
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					
9	VALOR EZ	2.5 FL OZ/A PRE		90	95	99	107.9
	SENCOR	4 OZ/A PRE					
	ROUNDUP POWERMAX	32 FL OZ/A EP					
	CLARITY	1 PT/A EP					
	NIS	0.25 % V/V EP					

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

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	IPOSS	CHEAL	
Pest Name		Giant ragweed Morning glory common lambsquarters			
Crop Code					GLXMA
Crop Name					Soybean
Rating Date		7-17-2017	7-17-2017	7-17-2017	10-18-2017
Rating Type		CONTROL	CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	PERCENT	BU
Number of Subsamples		1	1	1	1
Rating Timing		8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.		75 52	75 52	75 52	168 145
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence		69 DE-1	69 DE-1	69 DE-1	162 DE-1
ARM Action Codes		P	P	P	TY1
Number of Decimals		0	0	0	1
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	13	14	15
10 VALOR EZ	2 FL OZ/A	PRE	90	95	99
ROUNDUP POWERMAX	32 FL OZ/A	EP			
CLARITY	1 PT/A	EP			
NIS	0.25 % V/V	EP			
LSD P=.05			0.6	.	.
Standard Deviation			0.4	0.0	0.0
CV			0.45	0.0	0.0
Replicate F			1.000	0.000	0.000
Replicate Prob(F)			0.3874	1.0000	1.0000
Treatment F			17916.002	0.000	0.000
Treatment Prob(F)			0.0001	1.0000	1.0000

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

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SOYBEAN POSTEMERGENCE II

Trial ID: S17036 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: VALENT-64.05 Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

IPOSS, Ipomoea sp., Morning glory = US

CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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)

$TY1 = 3.821053 * [17] * (100 - [18]) / 87$

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SOYBEAN POSTEMERGENCE II

Trial ID: S17036 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: VALENT-64.05 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-2-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 11-1-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-2-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Emergence Date: 5-9-2017
Harvest Date: 10-18-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
Soil Temperature, Unit: 60 F **% Standard Moisture:** 13
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B
Application Date:	5-3-2017	5-26-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	77 F
% Relative Humidity:	39	46
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	ENE	SWW
Soil Temperature, Unit:	62 F	65 F
Soil Moisture:	GOOD	EXCELL
% Cloud Cover:	40	5
Next Moisture Occurred On:	5-4-2017	5-27-2017

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	BSOY GLXMA
Height, Unit:	4	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
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL 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:	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 POSTEMERGENCE III

Trial ID: S17037 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-BALBEAN Investigator: Sara Carter
 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	CHEAL	
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-31-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED				0	0	0	0	0	0
2	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	SPARTAN	5 OZ/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
3	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	DUAL II MAGNUM	16 OZ/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
4	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	ZIDUA	1.5 OZ/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
5	FIERCE	3 OZ/A		PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
6	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	VALOR SX	2 OZ/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
7	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	SENCOR	5.33 OZ/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
8	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	WARRANT	3 PT/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						
9	BALANCE BEAN	3 OZ/A		PRE	0	99	99	99	99	0
	BOUNDARY	2 PT/A		PRE						
	ROUNDUP POWERMAX	32 OZ/A		EP						
	AMS	8.5 LB/100 GAL		EP						

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

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	CHEAL	
Pest Name		Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-31-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
10 BALANCE BEAN	3 OZ/A	PRE	0	99	99	99	99	0
PREFIX	2 PT/A	PRE						
ROUNDUP POWERMAX	32 OZ/A	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
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	CHEAL	GLXMA	SETFA
Pest Name	Giant foxtail	Giant ragweed	Morning glory	common lambsquarters		Giant foxtail
Crop Code					GLXMA	
Crop Name					Soybean	
Rating Date	5-31-2017	5-31-2017	5-31-2017	5-31-2017	6-28-2017	6-28-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
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 22	56 22
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	SPARTAN	5 OZ/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
3	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	DUAL II MAGNUM	16 OZ/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
4	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	ZIDUA	1.5 OZ/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
5	FIERCE	3 OZ/A	PRE	99	99	99	99	0	99
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
6	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	VALOR SX	2 OZ/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
7	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	SENCOR	5.33 OZ/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
8	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	WARRANT	3 PT/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
9	BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
	BOUNDARY	2 PT/A	PRE						
	ROUNDUP POWERMAX	32 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 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	CHEAL	SETFA			
Pest Name	Giant foxtail	Giant ragweed	Morning glory common	lambsquarters	Giant foxtail			
Crop Code					GLXMA			
Crop Name					Soybean			
Rating Date	5-31-2017	5-31-2017	5-31-2017	5-31-2017	6-28-2017			
Rating Type	CONTROL	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	8 WEEK			
Days After First/Last Applic.	28 28	28 28	28 28	28 28	56 22			
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL			
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	50 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
10 BALANCE BEAN	3 OZ/A	PRE	99	99	99	99	0	99
PREFIX	2 PT/A	PRE						
ROUNDUP POWERMAX	32 OZ/A	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
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 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 because error mean square = 0.

University of Kentucky

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL
Pest Name	Giant ragweed Morning glory common lambsquarters		
Crop Code			
Crop Name			
Rating Date	6-28-2017	6-28-2017	6-28-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1 1
Rating Timing	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	56 22	56 22	56 22
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	50 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	13	14	15	16
1	UNTREATED				0	0		0
2	BALANCE BEAN	3 OZ/A		PRE	99	99		99
	SPARTAN	5 OZ/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
3	BALANCE BEAN	3 OZ/A		PRE	90	90		99
	DUAL II MAGNUM	16 OZ/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
4	BALANCE BEAN	3 OZ/A		PRE	90	90		99
	ZIDUA	1.5 OZ/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
5	FIERCE	3 OZ/A		PRE	99	99		99
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
6	BALANCE BEAN	3 OZ/A		PRE	99	99		99
	VALOR SX	2 OZ/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
7	BALANCE BEAN	3 OZ/A		PRE	95	99		99
	SENCOR	5.33 OZ/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
8	BALANCE BEAN	3 OZ/A		PRE	95	99		99
	WARRANT	3 PT/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				
9	BALANCE BEAN	3 OZ/A		PRE	99	99		99
	BOUNDARY	2 PT/A		PRE				
	ROUNDUP POWERMAX	32 OZ/A		EP				
	AMS	8.5 LB/100 GAL		EP				

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed
Pest Code		AMBTR	IPOSS	CHEAL
Pest Name		Giant ragweed Morning glory common lambsquarters		
Crop Code				
Crop Name				
Rating Date		6-28-2017	6-28-2017	6-28-2017
Rating Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1 1
Rating Timing		8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.		56 22	56 22	56 22
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence		50 DE-1	50 DE-1	50 DE-1
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	13	14
			15	16
10 BALANCE BEAN	3 OZ/A	PRE	99	99
PREFIX	2 PT/A	PRE		
ROUNDUP POWERMAX	32 OZ/A	EP		
AMS	8.5 LB/100 GAL	EP		
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

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

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SOYBEAN POSTEMERGENCE III

Trial ID: S17037 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BAYER-BALBEAN Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

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SOYBEAN POSTEMERGENCE III

Trial ID: S17037 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-BALBEAN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final **Trial Reliability:** HIGH
Initiation Date: 5-3-2017 **Planned Completion Date:** 10-10-2017
Completion Date: 10-31-2017

Trial Location

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

Latitude of LL Corner °: 38.127276 N
Longitude of LL Corner °: 84.484563 W

Directions:
 GPS coordinates taken from SW corner of study

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: STINE 41BA20-FG72

Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 61 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

Planting Date: 5-3-2017
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 5-9-2017

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:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Site and Design

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

Site Type: FIELD field
Tillage Type: CONTIL conventional-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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

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Application Description

	A	B
Application Date:	5-3-2017	6-6-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	72 F
% Relative Humidity:	39	68
Wind Velocity, Unit:	8 MPH	5 MPH
Wind Direction:	ENE	SE
Soil Temperature, Unit:	61 F	70 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	40	40
Next Moisture Occurred On:	5-4-2017	6-13-2017

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	0	12 98
Stage Minimum, Percent:		11 1
Stage Maximum, Percent:		13 1
Average Diameter, Unit:		5 IN
Height, Unit:		6 IN
Height Minimum, Maximum:		4 6

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	12	99
Stage Minimum, Percent:	11	1
Stage Maximum, Percent:	13	1
Diameter, Unit:	2	IN
Height, Unit:	2	IN
Height Minimum, Maximum:	1	2.5
Density, Unit:	4	1-10
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	14	99
Stage Minimum, Percent:	12	1
Stage Maximum, Percent:	15	1
Diameter, Unit:	4	IN
Height, Unit:	4	IN
Height Minimum, Maximum:	2	5
Density, Unit:	6	1-10
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:	10	99
Stage Minimum, Percent:	09	1
Stage Maximum, Percent:	11	1
Diameter, Unit:	1.5	IN
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	6	1-10
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	11	99
Stage Minimum, Percent:	10	1
Stage Maximum, Percent:	12	1
Diameter, Unit:	1.5	IN
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	5	1-10

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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:	8003 DG	8003 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:	15 GPA	15 GPA
Mix Size, Unit:	2.2 liters	2.2 liters
Propellant:	CO2	CO2

University of Kentucky

SOYBEAN POSTEMERGENCE IV

Trial ID: S17038
Protocol ID: DUP-17-133
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	CHEAL	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	common lambsquarters	
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-31-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0
	ABUNDIT EDGE	32 FL OZ/A	MP						
	FEXAPAN	22 FL OZ/A	MP						
2	TRIVENCE	8 OZ/A	PRE	0	99	99	99	99	0
	ABUNDIT EDGE	32 FL OZ/A	MP						
	FEXAPAN	22 FL OZ/A	MP						
	CINCH	1 PT/A	MP						
3	ENVIVE	3.5 OZ/A	PRE	0	99	99	99	99	0
	ABUNDIT EDGE	32 FL OZ/A	MP						
	FEXAPAN	22 FL OZ/A	MP						
4	ENVIVE	3.5 OZ/A	PRE	0	99	99	99	99	0
	ABUNDIT EDGE	32 FL OZ/A	MP						
	FEXAPAN	22 FL OZ/A	MP						
	CINCH	1 PT/A	MP						
5	CANOPY	6 OZ/A	PRE	0	99	99	99	99	0
	CINCH	1 PT/A	PRE						
	ABUNDIT EDGE	32 FL OZ/A	MP						
	FEXAPAN	22 FL OZ/A	MP						
6	CANOPY	6 OZ/A	PRE	0	99	99	99	99	0
	CINCH	1 PT/A	PRE						
	ABUNDIT EDGE	32 FL OZ/A	MP						
	FEXAPAN	22 FL OZ/A	MP						
	CINCH	1 PT/A	MP						
7	AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	99	0
	XTENDIMAX	22 FL OZ/A	MP						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
8	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

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 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	TRIVENCE	8 OZ/A	PRE	99	99	99				99		0			90
	ABUNDIT EDGE	32 FL OZ/A	MP												
	FEXAPAN	22 FL OZ/A	MP												
2	TRIVENCE	8 OZ/A	PRE	99	99	99				99		0			95
	ABUNDIT EDGE	32 FL OZ/A	MP												
	FEXAPAN	22 FL OZ/A	MP												
	CINCH	1 PT/A	MP												
3	ENVIVE	3.5 OZ/A	PRE	99	99	99				99		0			90
	ABUNDIT EDGE	32 FL OZ/A	MP												
	FEXAPAN	22 FL OZ/A	MP												
4	ENVIVE	3.5 OZ/A	PRE	99	99	99				99		0			99
	ABUNDIT EDGE	32 FL OZ/A	MP												
	FEXAPAN	22 FL OZ/A	MP												
	CINCH	1 PT/A	MP												
5	CANOPY	6 OZ/A	PRE	99	99	99				99		0			90
	CINCH	1 PT/A	PRE												
	ABUNDIT EDGE	32 FL OZ/A	MP												
	FEXAPAN	22 FL OZ/A	MP												
6	CANOPY	6 OZ/A	PRE	99	99	99				99		0			99
	CINCH	1 PT/A	PRE												
	ABUNDIT EDGE	32 FL OZ/A	MP												
	FEXAPAN	22 FL OZ/A	MP												
	CINCH	1 PT/A	MP												
7	AUTHORITY MTZ	14 OZ/A	PRE	99	99	99				99		0			90
	XTENDIMAX	22 FL OZ/A	MP												
	ROUNDUP POWERMAX	32 FL OZ/A	MP												
8	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

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

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL
Pest Name	Giant ragweed Morning glory common lambsquarters		
Crop Code			
Crop Name			
Rating Date	6-14-2017	6-14-2017	6-14-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.	42 13	42 13	42 13
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	36 DE-1	36 DE-1	36 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15
1	TRIVENCE	8 OZ/A	PRE	99	99	99
	ABUNDIT EDGE	32 FL OZ/A	MP			
	FEXAPAN	22 FL OZ/A	MP			
2	TRIVENCE	8 OZ/A	PRE	99	99	99
	ABUNDIT EDGE	32 FL OZ/A	MP			
	FEXAPAN	22 FL OZ/A	MP			
	CINCH	1 PT/A	MP			
3	ENVIVE	3.5 OZ/A	PRE	99	99	99
	ABUNDIT EDGE	32 FL OZ/A	MP			
	FEXAPAN	22 FL OZ/A	MP			
4	ENVIVE	3.5 OZ/A	PRE	99	99	99
	ABUNDIT EDGE	32 FL OZ/A	MP			
	FEXAPAN	22 FL OZ/A	MP			
	CINCH	1 PT/A	MP			
5	CANOPY	6 OZ/A	PRE	99	99	99
	CINCH	1 PT/A	PRE			
	ABUNDIT EDGE	32 FL OZ/A	MP			
	FEXAPAN	22 FL OZ/A	MP			
6	CANOPY	6 OZ/A	PRE	99	99	99
	CINCH	1 PT/A	PRE			
	ABUNDIT EDGE	32 FL OZ/A	MP			
	FEXAPAN	22 FL OZ/A	MP			
	CINCH	1 PT/A	MP			
7	AUTHORITY MTZ	14 OZ/A	PRE	99	99	99
	XTENDIMAX	22 FL OZ/A	MP			
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
8	UNTREATED CHECK			0	0	0
LSD P=.05				.	.	.
Standard Deviation				0.0	0.0	0.0
CV				0.0	0.0	0.0
Replicate F				0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000

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

University of Kentucky

SOYBEAN POSTEMERGENCE IV

Trial ID: S17038 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: DUP-17-133 Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

SOYBEAN POSTEMERGENCE IV

Trial ID: S17038 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: DUP-17-133 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-3-2017
Completion Date: 10-31-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: P40T85X

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-3-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Soil Temperature, Unit: 61 F **Emergence Date:** 5-9-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

University of Kentucky

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:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 8 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B
Application Date:	5-3-2017	6-1-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	78 F
% Relative Humidity:	39	50
Wind Velocity, Unit:	8 MPH	4 MPH
Wind Direction:	ENE	W
Soil Temperature, Unit:	61 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	40	10
Next Moisture Occurred On:	5-4-2017	6-5-2017

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	10	IN

Pest Stage At Each Application

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

SOYBEAN POSTEMERGENCE V

Trial ID: S17039 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: AMVAC-SOY-LL Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

Pest Type	GLXMA		GLXMA		W Weed	W Weed	W Weed	W Weed
Pest Code	Soybean		Soybean		SETFA	AMBTR	IPOSS	CHEAL
Pest Name					Giant foxtail	Giant ragweed	Morning glory	common lambsquarters
Crop Code	GLXMA		GLXMA					
Crop Name	Soybean		Soybean					
Rating Date	6-2-2017		6-9-2017		6-9-2017	6-9-2017	6-9-2017	6-9-2017
Rating Type	INJURY		INJURY		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT		PERCENT		PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1		1		1	1	1	1
Rating Timing	1 WEEK		2 WEEK		2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	7 7		14 14		14 14	14 14	14 14	14 14
Trt-Eval Interval	AFTER APPL		AFTER APPL		AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	24 DE-1		31 DE-1		31 DE-1	31 DE-1	31 DE-1	31 DE-1
ARM Action Codes	P		P		P	P	P	P
Number of Decimals	0		0		0	0	0	0

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	UNTREATED			0	0	0	0	0	0
2	LIBERTY 280	29 OZ/A	EP	0	0	99	99	99	99
	AMS	8.5 LB/100 GAL	EP						
3	LIBERTY 280	29 OZ/A	EP	0	0	99	99	99	99
	SCEPTER	1.4 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
4	LIBERTY 280	296 OZ/A	EP	5	0	99	99	99	99
	CLASSIC	0.33 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
5	LIBERTY 280	29 OZ/A	EP	0	0	99	99	99	99
	DUAL MAGNUM	20 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
6	LIBERTY 280	29 OZ/A	EP	0	0	99	99	99	99
	DUAL MAGNUM	20 OZ/A	EP						
	SCEPTER	1.4 OZ/A	EP						
	AMS	8.5 LB/100 GAL	EP						
7	LIBERTY 280	29 OZ/A	EP	15	10	99	99	99	99
	PREFIX	2.2 PT/A	EP						
	AMS	8.5 LB/100 GAL	EP						
8	LIBERTY 280	29 OZ/A	EP	10	5	99	99	99	99
	PREFIX	2.2 PT/A	EP						
	SCEPTER	1.4 OZ/A	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
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 1,2,3,4,5,6,7,10,11,14,15 because error mean square = 0.

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	common lambsquarters	Giant foxtail
Crop Code	GLXMA					
Crop Name	Soybean					
Rating Date	6-23-2017	6-23-2017	6-23-2017	6-23-2017	6-23-2017	7-7-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	6 WEEK
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28	42 42
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1	59 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12
1	UNTREATED				0	0	0	0	0	0
2	LIBERTY 280	29 OZ/A	EP		0	70	86	99	99	70
	AMS	8.5 LB/100 GAL	EP							
3	LIBERTY 280	29 OZ/A	EP		0	70	95	99	99	70
	SCEPTER	1.4 OZ/A	EP							
	AMS	8.5 LB/100 GAL	EP							
4	LIBERTY 280	296 OZ/A	EP		0	90	89	99	99	80
	CLASSIC	0.33 OZ/A	EP							
	AMS	8.5 LB/100 GAL	EP							
5	LIBERTY 280	29 OZ/A	EP		0	99	89	99	99	99
	DUAL MAGNUM	20 OZ/A	EP							
	AMS	8.5 LB/100 GAL	EP							
6	LIBERTY 280	29 OZ/A	EP		0	93	90	99	99	93
	DUAL MAGNUM	20 OZ/A	EP							
	SCEPTER	1.4 OZ/A	EP							
	AMS	8.5 LB/100 GAL	EP							
7	LIBERTY 280	29 OZ/A	EP		5	99	96	99	99	99
	PREFIX	2.2 PT/A	EP							
	AMS	8.5 LB/100 GAL	EP							
8	LIBERTY 280	29 OZ/A	EP		0	99	96	99	99	99
	PREFIX	2.2 PT/A	EP							
	SCEPTER	1.4 OZ/A	EP							
	AMS	8.5 LB/100 GAL	EP							
	LSD P=.05				.	1.8	2.7	.	.	1.8
	Standard Deviation				0.0	1.0	1.5	0.0	0.0	1.0
	CV				0.0	1.32	1.9	0.0	0.0	1.34
	Replicate F				0.000	1.000	0.018	0.000	0.000	1.000
	Replicate Prob(F)				1.0000	0.3927	0.9823	1.0000	1.0000	0.3927
	Treatment F				0.000	3255.400	1373.051	0.000	0.000	3188.886
	Treatment Prob(F)				1.0000	0.0001	0.0001	1.0000	1.0000	0.0001

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

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Pest Type		W Weed	W Weed	W Weed
Pest Code		AMBTR	IPOSS	CHEAL
Pest Name		Giant ragweed Morning glory common lambsquarters		
Crop Code				
Crop Name				
Rating Date		7-7-2017	7-7-2017	7-7-2017
Rating Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1
Rating Timing		6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.		42 42	42 42	42 42
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence		59 DE-1	59 DE-1	59 DE-1
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	13	14
			15	
1 UNTREATED			0	0
2 LIBERTY 280	29 OZ/A	EP	80	99
AMS	8.5 LB/100 GAL	EP		
3 LIBERTY 280	29 OZ/A	EP	90	99
SCEPTER	1.4 OZ/A	EP		
AMS	8.5 LB/100 GAL	EP		
4 LIBERTY 280	296 OZ/A	EP	88	99
CLASSIC	0.33 OZ/A	EP		
AMS	8.5 LB/100 GAL	EP		
5 LIBERTY 280	29 OZ/A	EP	85	99
DUAL MAGNUM	20 OZ/A	EP		
AMS	8.5 LB/100 GAL	EP		
6 LIBERTY 280	29 OZ/A	EP	88	99
DUAL MAGNUM	20 OZ/A	EP		
SCEPTER	1.4 OZ/A	EP		
AMS	8.5 LB/100 GAL	EP		
7 LIBERTY 280	29 OZ/A	EP	96	99
PREFIX	2.2 PT/A	EP		
AMS	8.5 LB/100 GAL	EP		
8 LIBERTY 280	29 OZ/A	EP	96	99
PREFIX	2.2 PT/A	EP		
SCEPTER	1.4 OZ/A	EP		
AMS	8.5 LB/100 GAL	EP		
LSD P=.05			2.8	.
Standard Deviation			1.6	0.0
CV			2.06	0.0
Replicate F			0.338	0.000
Replicate Prob(F)			0.7189	1.0000
Treatment F			1185.104	0.000
Treatment Prob(F)			0.0001	1.0000

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

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SOYBEAN POSTEMERGENCE V

Trial ID: S17039 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: AMVAC-SOY-LL Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

IPOSS, Ipomoea sp., Morning glory = US

CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

SOYBEAN POSTEMERGENCE V

Trial ID: S17039 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: AMVAC-SOY-LL Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOE ARGENTINE

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-3-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 10-31-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ4105LL

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-3-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 60 F **Emergence Date:** 5-9-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 8 **Tillage Type:** CONTIL conventional-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

A
Application Date: 5-26-2017
Application Method: SPRAY
Application Timing: EP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 77 F
% Relative Humidity: 46
Wind Velocity, Unit: 6 MPH
Wind Direction: SWW
Soil Temperature, Unit: 67 F
Soil Moisture: EXCELL
% Cloud Cover: 5
Next Moisture Occurred On: 5-27-2017

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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: SETFA W
Height, Unit: 1 IN
Pest 2 Code, Type, Scale: AMBTR W
Height, Unit: 2.5 IN
Pest 3 Code, Type, Scale: IPOSS W
Height, Unit: 1 IN
Pest 4 Code, Type, Scale: CHEAL 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: 30 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 XV

Trial ID: S17040 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: VALENT-64.01 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	CHEAL	
Pest Name		Giant foxtail Giant ragweed Morning glory common lambsquarters				
Crop Code	GLXMA					GLXMA
Crop Name	Soybean					Soybean
Rating Date	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-17-2017	5-31-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	28 5
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth	1	2	3	4	5	6
No.	Name	Rate Unit	Stage						
1	UNTREATED CHECK			0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	MP	0	0	0	33	33	0
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
3	VALOR EZ	2.5 FL OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
4	VALOR SX	2.5 OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP ORIGINAL	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
5	VALOR EZ	3 FL OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
6	VALOR SX	3 OZ/A	PRE	0	99	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
LSD P=.05				.	.	.	42.5	42.5	.
Standard Deviation				0.0	0.0	0.0	23.3	23.3	0.0
CV				0.0	0.0	0.0	32.64	32.64	0.0
Replicate F				0.000	0.000	0.000	1.000	1.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	0.4019	0.4019	1.0000
Treatment F				0.000	0.000	0.000	10.600	10.600	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0010	0.0010	1.0000

Could not calculate LSD (% mean diff) for columns 1,2,3,6,7,8,9,10,11,12,13,14,15 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	CHEAL	SETFA
Pest Name		Giant foxtail	Giant ragweed	Morning glory	common lambsquarters	Giant foxtail
Crop Code						GLXMA
Crop Name						Soybean
Rating Date		5-31-2017	5-31-2017	5-31-2017	5-31-2017	6-28-2017
Rating Type		CONTROL	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	8 WEEK
Days After First/Last Applic.		28 5	28 5	28 5	28 5	56 33
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence		22 DE-1	22 DE-1	22 DE-1	22 DE-1	50 DE-1
ARM Action Codes		P	P	P	P	P
Number of Decimals		0	0	0	0	0

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	ROUNDUP POWERMAX	32 FL OZ/A	MP	99	99	99	99	0	99
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
3	VALOR EZ	2.5 FL OZ/A	PRE	99	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
4	VALOR SX	2.5 OZ/A	PRE	99	99	99	99	0	99
	ROUNDUP ORIGINAL	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
5	VALOR EZ	3 FL OZ/A	PRE	99	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
6	VALOR SX	3 OZ/A	PRE	99	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % 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

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed
Pest Code		AMBTR	IPOSS	CHEAL
Pest Name		Giant ragweed Morning glory common lambsquarters		
Crop Code				
Crop Name				
Rating Date		6-28-2017	6-28-2017	6-28-2017
Rating Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1
Rating Timing		8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.		56 33	56 33	56 33
Trt-Eval Interval		AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence		50 DE-1	50 DE-1	50 DE-1
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	13	14
			15	
1 UNTREATED CHECK			0	0
2 ROUNDUP POWERMAX	32 FL OZ/A MP		99	99
AMS	2.5 LB/A MP			
NIS	0.25 % V/V MP			
3 VALOR EZ	2.5 FL OZ/A PRE		99	99
ROUNDUP POWERMAX	32 FL OZ/A MP			
AMS	2.5 LB/A MP			
NIS	0.25 % V/V MP			
4 VALOR SX	2.5 OZ/A PRE		99	99
ROUNDUP ORIGINAL	32 FL OZ/A MP			
AMS	2.5 LB/A MP			
NIS	0.25 % V/V MP			
5 VALOR EZ	3 FL OZ/A PRE		99	99
ROUNDUP POWERMAX	32 FL OZ/A MP			
AMS	2.5 LB/A MP			
NIS	0.25 % V/V MP			
6 VALOR SX	3 OZ/A PRE		99	99
ROUNDUP POWERMAX	32 FL OZ/A MP			
AMS	2.5 LB/A MP			
NIS	0.25 % V/V MP			
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

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

University of Kentucky

NO TILL SOYBEAN XV

Trial ID: S17040 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: VALENT-64.01 Investigator: Sara Carter
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, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

IPOSS, Ipomoea sp., Morning glory = US

CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN XV

Trial ID: S17040 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: VALENT-64.01 Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-3-2017
Completion Date: 8-14-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-3-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 62 F **Emergence Date:** 5-9-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

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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

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 6 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5-3-2017	5-26-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	72 F
% Relative Humidity:	39	70
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	ENE	SW
Soil Temperature, Unit:	61 F	67 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	40	30
Next Moisture Occurred On:	5-4-2017	5-27-2017

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Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	4 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	0.5 IN	1.5 IN
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	1 IN	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	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

SOYBEAN VARIETY

Trial ID: S17041 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-SOY-VAR Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10-31-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Days After First/Last Applic. 166 77
 Trt-Eval Interval 166 DA-A
 Days After Emergence 161 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Growth Stage	3
1	BOUNDARY	1 QT/A	PRE	63.0
	PREFIX	1 QT/A	21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP	
	AMS	2.5 % V/V	21DAP	
	MSO			
	S39-P5X			
2	BOUNDARY	1 QT/A	PRE	62.7
	PREFIX	1 QT/A	21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP	
	AMS	2.5 % V/V	21DAP	
	MSO			
	S39-R9X			
3	BOUNDARY	1 QT/A	PRE	61.7
	PREFIX	1 QT/A	21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP	
	AMS	2.5 % V/V	21DAP	
	MSO			
	S41-A1X			
4	BOUNDARY	1 QT/A	PRE	69.6
	PREFIX	1 QT/A	21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP	
	AMS	2.5 % V/V	21DAP	
	MSO			
	S43-V3X			
5	BOUNDARY	1 QT/A	PRE	67.9
	PREFIX	1 QT/A	21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP	
	AMS	2.5 % V/V	21DAP	
	MSO			
	S45-K5X			
6	BOUNDARY	1 QT/A	PRE	64.8
	PREFIX	1 QT/A	21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A	21DAP	
	AMS	2.5 % V/V	21DAP	
	MSO			
	S48-R2X			

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Crop Code	GLXMA
Crop Name	Soybean
Rating Date	10-31-2017
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Days After First/Last Applic.	166 77
Trt-Eval Interval	166 DA-A
Days After Emergence	161 DE-1
ARM Action Codes	TY1
Number of Decimals	1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	3
7	BOUNDARY	1 QT/A		PRE	60.5
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	S52-Y7X				
8	BOUNDARY	1 QT/A		PRE	59.0
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S39-P5X				
9	BOUNDARY	1 QT/A		PRE	62.5
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S39-R9X				
10	BOUNDARY	1 QT/A		PRE	61.7
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S41-A1X				
11	BOUNDARY	1 QT/A		PRE	71.0
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S43-V3X				

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Crop Code GLXMA
 Crop Name Soybean
 Rating Date 10-31-2017
 Rating Type YIELD
 Rating Unit BU
 Number of Subsamples 1
 Days After First/Last Applic. 166 77
 Trt-Eval Interval 166 DA-A
 Days After Emergence 161 DE-1
 ARM Action Codes TY1
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	3
12	BOUNDARY	1 QT/A		PRE	75.2
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S45K5X				
13	BOUNDARY	1 QT/A		PRE	74.3
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S48-R2X				
14	BOUNDARY	1 QT/A		PRE	71.9
	PREFIX	1 QT/A		21DAP	
	ROUNDUP POWERMAX	32 FL OZ/A		21DAP	
	AMS	2.5 % V/V		21DAP	
	MSO				
	MIRAVIS TOP	13.7 OZ/A		R3	
	ENDIGO	4 OZ/A		R3	
	NIS	0.25 % V/V		R3	
	S52-Y7X				
	LSD P=.05				.
	Standard Deviation				.
	CV				.

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = $1.037143 * [1] * (100 - [2]) / 87$

University of Kentucky

SOYBEAN VARIETY

Trial ID: S17041 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: SYN-SOY-VAR Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: F/F fungicide, foliar treatment
Trial Status: F one-year/final
Initiation Date: 5-18-2017
Completion Date: 10-31-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SEE TREATMENT LIST

Planting Rate, Unit: 140000 S/A	Planting Date: 5-18-2017
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE field equipment
	Emergence Date: 5-23-2017
	Harvest Date: 10-31-2017
Soil Temperature, Unit: 71 F	Harvested Width, Unit: 5 FT
Soil Moisture: GOOD good	Harvested Length, Unit: 140 FT
Seed Bed: MEDIUM medium	Harvest Equipment: HEGE
	% Standard Moisture: 13.0

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Site and Design

Treated Plot Width: 15 FT
Treated Plot Length: 150 FT
Treated Plot Area: 2250 FT² **Treatments:** 14 **Tillage Type:** NOTILL no-till
Replications: 1 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B	C
Application Date:	5-18-2017	6-7-2017	8-15-2017
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	21DAP	R3
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA
Air Temperature, Unit:	80 F	62 F	79 F
% Relative Humidity:	45	65	69
Wind Velocity, Unit:	4 MPH	5 MPH	0 MPH
Wind Direction:	WSW	NE	NNW
Soil Temperature, Unit:	71 F	69 F	74 F
Soil Moisture:	GOOD	GOOD	GOOD
% Cloud Cover:	20	10	10
Next Moisture Occurred On:	5-19-2017	6-13-2017	8-17-2017

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:	3 IN	30 IN	

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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 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

University of Kentucky

NO TILL SOYBEAN XVI

Trial ID: S17042
Protocol ID: BASF-SOYNT
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: GREG STAPLETON

Pest Type	W Weed		W Weed		W Weed		W Weed	
Pest Code	SETFA		AMACH		IPOSS		SETFA	
Pest Name	Giant foxtail		Smooth pigweed		Morning glory		Giant foxtail	
Crop Code	GLXMA				GLXMA			
Crop Name	Soybean				Soybean			
Rating Date	6-15-2017		6-15-2017		6-15-2017		7-10-2017	
Rating Type	INJURY		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.	38 14		38 14		38 14		63 39	
Trt-Eval Interval							63 DA-A	
Days After Emergence	30 DE-1		30 DE-1		30 DE-1		55 DE-1	
ARM Action Codes	P		P		P		P	
Number of Decimals	0		0		0		0	

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
1	CHECK			0	0	0	0	0	0
2	ZIDUA PRO	6 FL OZ/A	PRE	0	99	99	99	0	95
	ROUNDUP POWERMAX	32 FL OZ/A	PRE						
	MSO	1 % V/V	PRE						
	NON AMMONIA WATER COND	2.5 % V/V	PRE						
3	ZIDUA PRO	4.5 FL OZ/A	PRE	0	99	99	99	0	96
	ENGENIA	12.8 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	PRE						
	MSO	1 % V/V	PRE						
	NON AMMONIA WATER COND	2.5 % V/V	PRE						
4	ZIDUA PRO	4.5 FL OZ/A	PRE	0	99	99	99	0	94
	SENCOR	4 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	PRE						
	MSO	1 % V/V	PRE						
	NON AMMONIA WATER COND	2.5 % V/V	PRE						
5	ZIDUA	2.13 FL OZ/A	PRE	0	99	99	99	0	93
	ENGENIA	12.8 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	PRE						
	MSO	1 % V/V	PRE						
	NON AMMONIA WATER COND	2.5 % V/V	PRE						
6	ZIDUA	2.13 FL OZ/A	PRE	0	99	99	99	0	94
	ENGENIA	12.8 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	PRE						
	MSO	1 % V/V	PRE						
	NON AMMONIA WATER COND	2.5 % V/V	PRE						
	ZIDUA	2.13 FL OZ/A	V2						
	ENGENIA	12.8 FL OZ/A	V2						
	PREFERENCE	0.25 % V/V	V2						
	NON AMMONIA WATER COND	2.5 % V/V	V2						
7	ZIDUA	2.47 FL OZ/A	PRE	0	99	99	99	0	96
	ENGENIA	12.8 FL OZ/A	PRE						
	PURSUIT	3 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	PRE						
	MSO	1 % V/V	PRE						
	NON AMMONIA WATER COND	2.5 % V/V	PRE						

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMACH	IPOSS	SETFA
Pest Name		Giant foxtail	Smooth pigweed	Morning glory	Giant foxtail
Crop Code	GLXMA				GLXMA
Crop Name	Soybean				Soybean
Rating Date	6-15-2017	6-15-2017	6-15-2017	6-15-2017	7-10-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	38 14	38 14	38 14	38 14	63 39
Trt-Eval Interval					63 DA-A
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1	55 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	1	2	3	4	5	6
8	ZIDUA	2.74	FL OZ/A	V2	0	99	99	99	0	99
	GENGENIA	12.8	FL OZ/A	V2						
	PURSUIT	3	FL OZ/A	V2						
	ROUNDUP POWERMAX	32	FL OZ/A	V2						
	PREFERENCE	0.25	% V/V	V2						
	NON AMMONIA WATER COND	2.5	% V/V	V2						
9	ZIDUA	3.3	FL OZ/A	PRE	0	99	99	99	0	98
	GENGENIA	12.8	FL OZ/A	PRE						
	PURSUIT	4	FL OZ/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	PRE						
	MSO	1	% V/V	PRE						
	NON AMMONIA WATER COND	2.5	% V/V	PRE						
10	ZIDUA	3.3	FL OZ/A	V2	0	99	99	99	0	99
	GENGENIA	12.8	FL OZ/A	V2						
	PURSUIT	4	FL OZ/A	V2						
	ROUNDUP POWERMAX	32	FL OZ/A	V2						
	PREFERENCE	0.25	% V/V	V2						
	NON AMMONIA WATER COND	2.5	% V/V	V2						
11	ZIDUA	2.47	FL OZ/A	PRE	0	99	99	99	0	96
	GENGENIA	12.8	FL OZ/A	PRE						
	PURSUIT	3	FL OZ/A	PRE						
	ROUNDUP POWERMAX	32	FL OZ/A	PRE						
	MSO	1	% V/V	PRE						
	NON AMMONIA WATER COND	2.5	% V/V	PRE						
	ZIDUA	2.13	FL OZ/A	V2						
	GENGENIA	12.8	FL OZ/A	V2						
	PREFERENCE	0.25	% V/V	V2						
	NON AMMONIA WATER COND	2.5	% V/V	V2						
LSD P=.05					.	.	.	.	.	6.3
Standard Deviation					0.0	0.0	0.0	0.0	0.0	3.7
CV					0.0	0.0	0.0	0.0	0.0	4.25
Replicate F					0.000	0.000	0.000	0.000	0.000	17.439
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.0001
Treatment F					0.000	0.000	0.000	0.000	0.000	183.568
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

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

University of Kentucky

Pest Type		W Weed	W Weed
Pest Code		AMACH	IPOSS
Pest Name		Smooth pigweed	Morning glory
Crop Code			
Crop Name			
Rating Date		7-10-2017	7-10-2017
Rating Type		CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT
Number of Subsamples		1	1
Rating Timing		4 WEEK	4 WEEK
Days After First/Last Applic.		63 39	63 39
Trt-Eval Interval			
Days After Emergence		55 DE-1	55 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment	Rate	Growth	
No. Name	Rate Unit	Stage	
			7 8
1 CHECK			0 0
2 ZIDUA PRO	6 FL OZ/A	PRE	99 99
ROUNDUP POWERMAX	32 FL OZ/A	PRE	
MSO	1 % V/V	PRE	
NON AMMONIA WATER COND	2.5 % V/V	PRE	
3 ZIDUA PRO	4.5 FL OZ/A	PRE	99 99
ENGENIA	12.8 FL OZ/A	PRE	
ROUNDUP POWERMAX	32 FL OZ/A	PRE	
MSO	1 % V/V	PRE	
NON AMMONIA WATER COND	2.5 % V/V	PRE	
4 ZIDUA PRO	4.5 FL OZ/A	PRE	99 99
SENCOR	4 OZ WT/A	PRE	
ROUNDUP POWERMAX	32 FL OZ/A	PRE	
MSO	1 % V/V	PRE	
NON AMMONIA WATER COND	2.5 % V/V	PRE	
5 ZIDUA	2.13 FL OZ/A	PRE	99 99
ENGENIA	12.8 FL OZ/A	PRE	
ROUNDUP POWERMAX	32 FL OZ/A	PRE	
MSO	1 % V/V	PRE	
NON AMMONIA WATER COND	2.5 % V/V	PRE	
6 ZIDUA	2.13 FL OZ/A	PRE	99 99
ENGENIA	12.8 FL OZ/A	PRE	
ROUNDUP POWERMAX	32 FL OZ/A	PRE	
MSO	1 % V/V	PRE	
NON AMMONIA WATER COND	2.5 % V/V	PRE	
ZIDUA	2.13 FL OZ/A	V2	
ENGENIA	12.8 FL OZ/A	V2	
PREFERENCE	0.25 % V/V	V2	
NON AMMONIA WATER COND	2.5 % V/V	V2	
7 ZIDUA	2.47 FL OZ/A	PRE	99 99
ENGENIA	12.8 FL OZ/A	PRE	
PURSUIT	3 FL OZ/A	PRE	
ROUNDUP POWERMAX	32 FL OZ/A	PRE	
MSO	1 % V/V	PRE	
NON AMMONIA WATER COND	2.5 % V/V	PRE	

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

University of Kentucky

Pest Type	W Weed	W Weed
Pest Code	AMACH	IPOSS
Pest Name	Smooth pigweed	Morning glory
Crop Code		
Crop Name		
Rating Date	7-10-2017	7-10-2017
Rating Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Number of Subsamples	1	1
Rating Timing	4 WEEK	4 WEEK
Days After First/Last Applic.	63 39	63 39
Trt-Eval Interval		
Days After Emergence	55 DE-1	55 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	7	8
8 ZIDUA	2.74 FL OZ/A	V2	99	99
GENGENIA	12.8 FL OZ/A	V2		
PURSUIT	3 FL OZ/A	V2		
ROUNDUP POWERMAX	32 FL OZ/A	V2		
PREFERENCE	0.25 % V/V	V2		
NON AMMONIA WATER COND	2.5 % V/V	V2		
9 ZIDUA	3.3 FL OZ/A	PRE	99	99
GENGENIA	12.8 FL OZ/A	PRE		
PURSUIT	4 FL OZ/A	PRE		
ROUNDUP POWERMAX	32 FL OZ/A	PRE		
MSO	1 % V/V	PRE		
NON AMMONIA WATER COND	2.5 % V/V	PRE		
10 ZIDUA	3.3 FL OZ/A	V2	99	99
GENGENIA	12.8 FL OZ/A	V2		
PURSUIT	4 FL OZ/A	V2		
ROUNDUP POWERMAX	32 FL OZ/A	V2		
PREFERENCE	0.25 % V/V	V2		
NON AMMONIA WATER COND	2.5 % V/V	V2		
11 ZIDUA	2.47 FL OZ/A	PRE	99	99
GENGENIA	12.8 FL OZ/A	PRE		
PURSUIT	3 FL OZ/A	PRE		
ROUNDUP POWERMAX	32 FL OZ/A	PRE		
MSO	1 % V/V	PRE		
NON AMMONIA WATER COND	2.5 % V/V	PRE		
ZIDUA	2.13 FL OZ/A	V2		
GENGENIA	12.8 FL OZ/A	V2		
PREFERENCE	0.25 % V/V	V2		
NON AMMONIA WATER COND	2.5 % V/V	V2		
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

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

University of Kentucky

NO TILL SOYBEAN XVI

Trial ID: S17042 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: BASF-SOYNT Investigator: Sara Carter
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, Giant foxtail = US

AMACH, Amaranthus hybridus, Smooth pigweed = US

IPOSS, Ipomoea sp., Morning glory = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

University of Kentucky

NO TILL SOYBEAN XVI

Trial ID: S17042 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BASF-SOYNT Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017 **Planned Completion Date:** 11-1-2017
Completion Date: 11-1-2017

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A **Planting Date:** 5-8-2017
Depth, Unit: 1.25 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE field equipment
Soil Temperature, Unit: 59 F **Emergence Date:** 5-16-2017
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

University of Kentucky

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 **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 11 **Tillage Type:** NOTILL no-till
Replications: 3 **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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5-8-2017	6-1-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V4
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	64 F	71 F
% Relative Humidity:	39	50
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	ENE	SW
Soil Temperature, Unit:	58 F	71 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	40	10
Next Moisture Occurred On:	5-9-2017	6-5-2017

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V4	95
Height, Unit:	6	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMACH W	AMACH W
Height, Unit:	1 IN	3 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	0.5 IN	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	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 XVII

Trial ID: S17043
Protocol ID: MON-B7-01 DTS'LL
Project ID:

Location: LEXINGTON, KY Trial Year: 2017
Investigator: Sara Carter
Study Director: CHARLES SLACK
Sponsor Contact: DAN CHILDS

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 Name	Soybean					Soybean
Rating Date	6-22-2017	6-22-2017	6-22-2017	6-22-2017	6-22-2017	7-10-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	45 15	45 15	45 15	45 15	45 15	63 33
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1	55 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Rate	Growth						
No.	Name	Rate Unit	Stage	1	2	3	4	5	6
1	UNTREATED DTS VARIETY			0	0	0	0	0	0
2	ROWEL INTACT XTENDIMAX ROUNDUP POWERMAX DTS VARIETY	2 OZ WT/A PRE 0.5% V/V V3 22 FL OZ/A V3 32 FL OZ/A V3		0	99	99	99	99	0
3	ROWEL XTENDIMAX INTACT XTENDIMAX ROUNDUP POWERMAX DTS VARIETY	2 OZ WT/A PRE 22 FL OZ/A PRE 0.5% V/V V3 22 FL OZ/A V3 32 FL OZ/A V3		0	99	99	99	99	0
4	ROWEL XTENDIMAX INTACT XTENDIMAX ROUNDUP POWERMAX WARRANT DTS VARIETY	2 OZ WT/A PRE 22 FL OZ/A PRE 0.5% V/V V3 22 FL OZ/A V3 32 FL OZ/A V3 48 FL OZ/A V3		0	99	99	99	99	0
5	UNTREATED LL VARIETY			0	0	0	0	0	0
6	VALOR SX LIBERTY 280 LL VARIETY	2 OZ WT/A PRE 29 FL OZ/A V3		0	99	99	99	99	0
7	AUTHORITY MAXX LIBERTY 280 LL VARIETY	6.4 OZ WT/A PRE 29 FL OZ/A V3		0	99	99	99	99	0

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

University of Kentucky

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 Name	Soybean					Soybean
Rating Date	6-22-2017	6-22-2017	6-22-2017	6-22-2017	6-22-2017	7-10-2017
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	45 15	45 15	45 15	45 15	45 15	63 33
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1	55 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	6
8 AUTHORITY MAXX	6.4 OZ WT/A PRE		0	99	99	99	99	0
LIBERTY 280	29 FL OZ/A V3							
ZIDUA	2 OZ WT/A V3							
LL VARIETY								
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 1,2,3,4,5,6,8,9,10 because error mean square = 0.

University of Kentucky

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
Crop Name					Soybean
Rating Date	7-10-2017	7-10-2017	7-10-2017	7-10-2017	10-31-2017
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples	1	1	1	1	1
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
Days After First/Last Applic.	63 33	63 33	63 33	63 33	176 146
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	55 DE-1	168 DE-1
ARM Action Codes	P	P	P	P	TY1
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	14
		Rate Unit						
1	UNTREATED DTS VARIETY			0	0	0	0	37.6
2	ROWEL INTACT XTENDIMAX ROUNDUP POWERMAX DTS VARIETY	2 OZ WT/A PRE 0.5% V/V V3 22 FL OZ/A V3 32 FL OZ/A V3		98	99	99	99	65.3
3	ROWEL XTENDIMAX INTACT XTENDIMAX ROUNDUP POWERMAX DTS VARIETY	2 OZ WT/A PRE 22 FL OZ/A PRE 0.5% V/V V3 22 FL OZ/A V3 32 FL OZ/A V3		98	99	99	99	66.4
4	ROWEL XTENDIMAX INTACT XTENDIMAX ROUNDUP POWERMAX WARRANT DTS VARIETY	2 OZ WT/A PRE 22 FL OZ/A PRE 0.5% V/V V3 22 FL OZ/A V3 32 FL OZ/A V3 48 FL OZ/A V3		98	99	99	99	61.1
5	UNTREATED LL VARIETY			0	0	0	0	31.7
6	VALOR SX LIBERTY 280 LL VARIETY	2 OZ WT/A PRE 29 FL OZ/A V3		98	99	99	99	58.4
7	AUTHORITY MAXX LIBERTY 280 LL VARIETY	6.4 OZ WT/A PRE 29 FL OZ/A V3		98	99	99	99	59.2

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

University of Kentucky

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		
Crop Name					Soybean		
Rating Date	7-10-2017	7-10-2017	7-10-2017	7-10-2017	10-31-2017		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU		
Number of Subsamples	1	1	1	1	1		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
Days After First/Last Applic.	63 33	63 33	63 33	63 33	176 146		
Trt-Eval Interval	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL			
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	55 DE-1	168 DE-1		
ARM Action Codes	P	P	P	P	TY1		
Number of Decimals	0	0	0	0	1		
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	7	8	9	10	14
8 AUTHORITY MAXX	6.4 OZ WT/A PRE		98	99	99	99	62.0
LIBERTY 280	29 FL OZ/A V3						
ZIDUA	2 OZ WT/A V3						
LL VARIETY							
LSD P=.05			1.9	.	.	.	5.48
Standard Deviation			1.1	0.0	0.0	0.0	3.13
CV			1.46	0.0	0.0	0.0	5.66
Replicate F			21.000	0.000	0.000	0.000	0.706
Replicate Prob(F)			0.0001	1.0000	1.0000	1.0000	0.5105
Treatment F			5365.563	0.000	0.000	0.000	52.382
Treatment Prob(F)			0.0001	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 because error mean square = 0.

University of Kentucky

NO TILL SOYBEAN XVII

Trial ID: S17043 Location: LEXINGTON, KY Trial Year: 2017
Protocol ID: MON-B7-01 DTS'LL Investigator: Sara Carter
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, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
IPOSS, Ipomoea sp., Morning glory = US
ERICA, Erigeron canadensis, Marestalk = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = 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 = $3.821053 * [12] * (100 - [13]) / 87$

University of Kentucky

NO TILL SOYBEAN XVII

Trial ID: S17043 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: MON-B7-01 DTS'LL Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DAN CHILDS

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-8-2017
Completion Date: 10-31-2017

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

Conducted Under GLP: No
Conducted Under GEP: No

Trial Location

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov.: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

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Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG38X6

Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN

Planting Date: 5-8-2017
Planting Method: PLANTD planted
Planting Equipment: FE field equipment
Emergence Date: 5-16-2017
Harvest Date: 10-31-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.0

Soil Temperature, Unit: 59 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

Crop 2: GLXMA Glycine max Soybean
Variety: CZ4105LL

Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN

Planting Date: 5-8-2017
Planting Method: PLANTD planted
Planting Equipment: FE field equipment
Emergence Date: 5-16-2017
Harvest Date: 10-31-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 38 FT
Harvest Equipment: HEGE
% Standard Moisture: 13.0

Soil Temperature, Unit: 59 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

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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 8
Replications: 3

Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: SPLBLO Split-Block

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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: GOOD good
 Closest Weather Station: SPINDLETOP Distance, Unit: 2.25 MI

Application Description

	A	B
Application Date:	5-8-2017	6-7-2017
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	64 F	64 F
% Relative Humidity:	39	65
Wind Velocity, Unit:	8 MPH	4 MPH
Wind Direction:	ENE	SW
Soil Temperature, Unit:	59 F	68 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	40	20
Next Moisture Occurred On:	5-9-2017	6-13-2017

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3 98
Height, Unit:		12 IN
Crop 2 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:		V3 98
Height, Unit:		12 IN

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	1 IN	6 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:		2.5 IN
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	2 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:	TTI 03	TTI 03
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:	18 GPA	18 GPA
Mix Size, Unit:	2.5 liters	2.5 liters
Propellant:	CO2	CO2

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NONCROP

Trial ID: NC17001 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-BURN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	ERICA	ERICA
Pest Name	Marestail	Marestail	Marestail
Rating Date	5-25-2017	6-1-2017	6-15-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1
Rating Timing	1 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	22 7	29 14	43 28
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4
1	UNTREATED				0	0	0	
2	LIBERTY 280	29 OZ/A		MP	90	99	99	
	AMS	8.5 LB/100	GAL	MP				
	2,4-D AMINE	1.5 PT/A		MP				
3	LIBERTY 280	36 OZ/A		MP	90	99	99	
	AMS	8.5 LB/100	GAL	MP				
	2,4-D AMINE	1.5 PT/A		MP				
4	LIBERTY 280	43 OZ/A		MP	90	99	99	
	AMS	8.5 LB/100	GAL	MP				
	2,4-D AMINE	1.5 PT/A		MP				
5	LIBERTY 280	29 OZ/A		MP	99	99	99	
	AMS	8.5 LB/100	GAL	MP				
	SHARPEN	2 OZ/A		MP				
6	LIBERTY 280	36 OZ/A		MP	99	99	99	
	AMS	8.5 LB/100	GAL	MP				
	SHARPEN	2 OZ/A		MP				
7	LIBERTY 280	43 OZ/A		MP	99	99	99	
	AMS	8.5 LB/100	GAL	MP				
	SHARPEN	2 OZ/A		MP				
8	LIBERTY 280	29 OZ/A		MP	90	99	99	
	AMS	8.5 LB/100	GAL	MP				
	DICAMBA DGA	12.8 OZ/A		MP				
9	LIBERTY 280	36 OZ/A		MP	90	99	99	
	AMS	8.5 LB/100	GAL	MP				
	DICAMBA DGA	12.8 OZ/A		MP				
10	LIBERTY 280	43 OZ/A		MP	90	99	99	
	AMS	8.5 LB/100	GAL	MP				
	DICAMBA DGA	12.8 OZ/A		MP				
11	LIBERTY 280	29 OZ/A		LP	90	99	99	
	AMS	8.5 LB/100	GAL	LP				
	2,4-D AMINE	1.5 PT/A		LP				
12	LIBERTY 280	36 OZ/A		LP	90	99	99	
	AMS	8.5 LB/100	GAL	LP				
	2,4-D AMINE	1.5 PT/A		LP				
13	LIBERTY 280	43 OZ/A		LP	90	99	99	
	AMS	8.5 LB/100	GAL	LP				
	2,4-D AMINE	1.5 PT/A		LP				
14	LIBERTY 280	29 OZ/A		LP	99	99	99	
	AMS	8.5 LB/100	GAL	LP				
	SHARPEN	2 OZ/A		LP				

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

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Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	ERICA	ERICA
Pest Name	Marestail	Marestail	Marestail
Rating Date	5-25-2017	6-1-2017	6-15-2017
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1 1
Rating Timing	1 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	22 7	29 14	43 28
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4
15	LIBERTY 280	36 OZ/A		LP	99	99	99	
	AMS	8.5 LB/100 GAL		LP				
	SHARPEN	2 OZ/A		LP				
16	LIBERTY 280	43 OZ/A		LP	99	99	99	
	AMS	8.5 LB/100 GAL		LP				
	SHARPEN	2 OZ/A		LP				
17	LIBERTY 280	29 OZ/A		LP	99	99	99	
	AMS	8.5 LB/100 GAL		LP				
	DICAMBA DGA	12.8 OZ/A		LP				
18	LIBERTY 280	36 OZ/A		LP	90	99	99	
	AMS	8.5 LB/100 GAL		LP				
	DICAMBA DGA	12.8 OZ/A		LP				
19	LIBERTY 280	43 OZ/A		LP	90	99	99	
	AMS	8.5 LB/100 GAL		LP				
	DICAMBA DGA	12.8 OZ/A		LP				
LSD P=.05					.	.	.	.
Standard Deviation					0.0	0.0	0.0	.
CV					0.0	0.0	0.0	.
Replicate F					0.000	0.000	0.000	
Replicate Prob(F)					1.0000	1.0000	1.0000	
Treatment F					0.000	0.000	0.000	
Treatment Prob(F)					1.0000	1.0000	1.0000	

Pest Type

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

Pest Code

ERICA, Erigeron canadensis, Marestail = US

Rating Unit

PERCENT = percent

ARM Action Codes

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

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NONCROP

Trial ID: NC17001 Location: LEXINGTON, KY Trial Year: 2017
 Protocol ID: BAYER-BURN Investigator: Sara Carter
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOSHUA JONES

General Trial Information

Study Director: CHARLES SLACK **Title:** RESEARCH SPECIALIST
Investigator: SARA CARTER **Title:** RESEARCH ANALYST

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-3-2017
Completion Date: 8-14-2017

Trial Location

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

Latitude of LL Corner °: 38.124596 N
Longitude of LL Corner °: 84.4836583 W

Directions:
 GPS coordinates taken from NE corner of study

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: SARA CARTER **Title:** RESEARCH ANALYST
Organization: UNIVERSITY OF KENTUCKY
Address: 105 PLANT SCIENCE BUILDING **Phone No.:** 859-259-1914
City+State/Prov: LEXINGTON, KY **Mobile No.:** 859-559-6710
Postal Code: 40546-0312 **E-mail:** sara.carter@uky.edu

Pest Description

Pest 1 Type: W **Code:** ERICA Erigeron canadensis
Common Name: Marestalk

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Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 19 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** SPLBLO Split-Block

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: GOOD good
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5-3-2017	5-18-2017
Application Method:	SPRAY	SPRAY
Application Timing:	MP	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	87 F
% Relative Humidity:	39	39
Wind Velocity, Unit:	8 MPH	10 MPH
Wind Direction:	ENE	SW
Soil Temperature, Unit:	62 F	71 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	40	10
Next Moisture Occurred On:	5-4-2017	5-19-2017

Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale:	ERICA	WERICA	W	
Stage Majority, Percent:	14	99	16	99
Stage Minimum, Percent:	13	1	15	1
Stage Maximum, Percent:	15	1	17	1
Diameter, Unit:	3	IN	4.5	IN
Height, Unit:	4	IN	8	IN
Height Minimum, Maximum:	2	4.5	3	9
Density, Unit:	8	1-10	8	1-10

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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:	8003 DG	8003 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:	15 GPA	15 GPA
Mix Size, Unit:	2.2 liters	2.2 liters
Propellant:	CO2	CO2