



2015
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.

Table of Contents
 Acknowledgements
 Chemicals Used
 Methods of Application
 Weed/Crop Code Abbreviations
 Climatology

Trials

C15001	C15010	C15011	C15012
C15014	C15015	C15016	C15017
C15018	C15019	C15020	C15021
S15020	S15021	S15022	S15023
S15024	S15025	S15026	S15027
S15028	S15029	S15030	S15031
S15031-2	S15032	BOLT SOY	
NC I	NC II		

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TABLE OF CONTENTS

LIST OF CHEMICALS USED

DEFINITIONS OF METHODS OF APPLICATION

CLIMATOLOGICAL DATA

NO-TILL CORN (C15001)

CORN POSTEMERGENCE (C15010)

CORN POSTEMERGENCE II (C15011)

CORN POSTEMERGENCE III (C15012)

CORN POSTEMERGENCE IV (C15014)

CORN POSTEMERGENCE V (C15015)

CORN POSTEMERGENCE VI (C15016)

CORN POSTEMERGENCE VII (C15017)

CORN POSTEMERGENCE VIII (C15018)

CORN POSTEMERGENCE IX (C15019)

CORN VARIETIES (C15020)

CORN VARIETIES II (C15021)

NO-TILL SOYBEAN (S15020)

NO-TILL SOYBEAN II (S15021)

NO-TILL SOYBEAN III (S15022)

NO-TILL SOYBEAN IV (S15023)

NO-TILL SOYBEAN V (S15024)

NO-TILL SOYBEAN VI (S15025)

NO-TILL SOYBEAN VII (S15026)

NO-TILL SOYBEAN VIII (S15027)

NO-TILL SOYBEAN IX (S15030)

NO-TILL SOYBEAN X (S15031)

SOYBEAN POSTEMERGENCE (S15028)

SOYBEAN POSTEMERGENCE II (S15029)

SOYBEAN POSTEMERGENCE III (S15031-2)

SOYBEAN VARIETIES (S15032)

BOLT SOYBEAN

NON CROP

NON CROP II

ACKNOWLEDGEMENTS

Special assistance in preparing this publication was provided by the following individuals:

Matthew Allen, Sr. Lab Technician, who assisted with plot establishment, spraying and harvesting.

James Dollarhide, Research Analyst, who assisted with plot harvest.

Thanks to **Bayer, Monsanto and Syngenta** for supplying corn and soybean seed.

HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
AATREX	ATRAZINE	SYNGENTA
ABUNDIT S	GLYPHOSATE	DUPONT
ACURON	BICYCLOPYRONE	SYNGENTA
ACTIVATOR 90	NON-IONIC SURFACTANT	LOVELAND
AMS	AMMONIUM SULFATE	CLEAN CROP
ANTHEM	PYROXASULFONE + FLUTHIACET-METHYL	FMC
ANTHEM ATZ	PYROXASULFONE + FLUTHIACET-METHYL + ATRAZINE	FMC
ARMEZON	TOPRAMEZONE	BASF
ARMEZON PRO	TOPRAMEZONE + DIMETHANIMID-P	BASF
AUTHORITY ELITE	SULFENTRAZONE + S-METOLACHLOR	FMC
AUTHORITY FIRST	SULFENTRAZONE + CLORANSULAM-METHYL	FMC
AUTHORITY MAXX	SULFENTRAZONE + CHLORIMURON-ETHYL	FMC
AUTHORITY MTZ	SULFENTRAZONE + METRIBUZIN	FMC
AUTHORITY XL	SULFENTRAZONE	FMC
BAS 96110H		BASF
BESIEGE	LAMBDA-CYHALOTHRIN + CHLORANTRANILIPROLE	SYNGENTA
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE	SYNGENTA
BOUNDARY	S-METOLACHLOR + METRIBUZIN	SYNGENTA
BROADAXE	SULFENTRAZONE + S-METOLACHLOR	SYNGENTA
CADET	FLUTHIACET-METHYL	FMC
CALLISTO	MESOTRIONE	SYNGENTA
CANOPY	METRIBUZIN + CHLORIMURON ETHYL	DUPONT
CAPRENO	THIENCARBOZONE + TEMBOTRIONE	BAYER
CHA-060		CHEMINOVA
CHA-2745		CHEMINOVA
CINCH	S-METOLACHLOR	DUPONT
CINCH ATZ	S-METOLACHLOR + ATRAZINE	DUPONT
CLARITY	DICAMBA	BASF
CLASS ACT NG	AMMONIUM SULFATE + CORN SYRUP + ALKYL POLYGLUCOSIDE	WINFIELD
COBRA	LACTOFEN	VALENT
CORVUS HERBICIDE	ISOXAFLUTOLE + THIENCARBAZONE-METHYL	BAYER
CROP OIL CONCENTRATE (COC)		LOVELAND
DAWN	FOMESAFEN	CHEMINOVA
DIFLEXX	DICAMBA	BAYER
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA
DURANGO DMA	GLYPHOSATE	DOW AGROSCIENCE
ENDIGO	LAMBDA-CYHALOTHRIN + THIAMETHOXAM	SYNGENTA
ENVIVE	FLUMIOXAZIN + THIFENSULFURON	DUPONT

HERBICIDES IN REPORT (CONTINUED)

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
FIERCE	FLUMIOXAZIN + PYROXASULFONE	VALENT
FIERCE FIRST	FLUMIOXAZIN + PYROXASULFONE + CLORANSULAM	VALENT
FIERCE XLT	FLUMIOXAZIN + PYROXASULFONE + CHLORIMURON	VALENT
FIRSTRATE	CLORANSULAM	DOW AGROSCIENCE
FLEXSTAR	FOMESAFEN	SYNGENTA
FLEXSTAR GT	FOMESAFEN + GLYPHOSATE	SYNGENTA
GANGSTER FR	CLORANSULAM	VALENT
GRAMOXONE	PARAQUAT	SYNGENTA
HALEX GT	GLYPHOSATE (PS) + MESOTRIONE + S-METOLACHLOR	SYNGENTA
HEADLINE	PYRACLOSTROBIN	BASF
HEADLINE AMP	PYRACLOSTROBIN + METCONAZOLE	BASF
HORNET	FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
IMPACT	TOPRAMEZONE	AMVAC
INSTIGATE	RIMSULFURON + MESOTRIONE	DUPONT
KEYSTONE NXT	ACETOCHLOR + ATRAZINE	DOW AGROSCIENCE
LAUDIS	TEMBOTRIONE	BAYER
LAUDIS FLEXX		BAYER
LEADOFF	RIMSULFURON + THIFENSULFURON	DUPONT
LEXAR EZ	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIBERTY 280	GLUFOSINATE AMMONIUM	BAYER
LUMAX	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MARVEL	FLUTHIACET METHYL + FOMESAFEN	FMC
MSO	METHYLATED SEED OIL	LOVELAND
NIS	NON-IONIC SURFACTANT	
NPAK AMS LIQUID	AMMONIUM SULFATE	WINFIELD
OPTILL	SAFLUFENACIL + IMAZETHAPYR	BASF
ORO9	ALCOHOL ETHOXYLATE	ORO AGRI
OUTLOOK	DIMETHENAMID-P	BASF
PREFIX	S-METOLACHLOR + BENOXACOR	SYNGENTA
PRINCEP	SIMAZINE	SYNGENTA
PRIAXOR	FLUXAPYROXAD + PYRACLOSTROBIN	BASF
PROWL H2O	PENDIMETHALIN	BASF

HERBICIDES IN REPORT (CONTINUED)

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
QUADRIS TOP	AZOXYSTROBIN + DIFENOCONAZOLE	SYNGENTA
REALM Q	RIMSULFURON + MESOTRIONE + SAFENER	DUPONT
REFLEX	FOMESAFEN	SYNGENTA
RESOLVE Q	RIMSULFURON + SAFENER	DUPONT
ROUNDUP POWERMAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROWEL	FLUMIOXAZIN	MONSANTO
ROWEL FX	FLUMIOXAZIN + CHLORIMURON	MONSANTO
SENCOR	METRIBUZIN	BAYER
SEQUENCE	GLYPHOSATE + S-METOLACHLOR	SYNGENTA
SHARPEN	SAFLUFENACIL	BASF
SOLSTICE	MESOTRIONE + FLUTHIACET-METHYL	FMC
SONIC	SULFENTRAZONE + CLORANSULAM-METHYL	DOW AGROSCIENCE
SPARTAN	SULFENTRAZONE	FMC
STALWART XTRA LITE	METOLACHLOR + ATRAZINE	SIPCAM
STALWART MTZ	METOLACHLOR	SIPCAM
STATUS	DIFLUFENZOPYR + DICAMBA	BASF
STRATEGO YLD	PROTHIOCONAZOLE + TRIFLOXYSTROBIN	BAYER
SURESTART	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SURESTART II	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SURPASS NXT	ACETOCHLOR	DOW AGROSCIENCE
SURVEIL PREMIX	FLUMIOXAZIN + CLORANSULAM-METHLY	DOW AGROSCIENCE
TOPYRALATE		ISK BIOSCIENCES
TOUCHDOWN TOTAL	GLYPHOSATE	SYNGENTA
TRICOR	METRIBUZIN	UNITED PHOSPHORUS INC
TRIVAPRO	SOLATENOL + AZOXYSTROBIN + PROPICONAZOLE	SYNGENTA
TRIVENCE	CHLORIMURON + METRIBUZIN + FLUMIOXAZIN	DUPONT
UAN	28% UREA AMMONIUM NITRATE FERTILIZER	
VALOR SX	FLUMIOXAZIN	VALENT
VALOR XLT	FLUMIOXAZIN + CHLORIMURON	VALENT
VERDICT	SAFLUFENACIL + DIMETHENAMID-P	BASF
WARRANT	ACETOCHLOR	MONSANTO
ZIDUA	PYROXASULFONE	BASF

DEFINITIONS FOR METHODS OF APPLICATION

PREEMERGENCE

PRE PREEMERGENCE

POSTEMERGENCE

EP EARLY POSTEMERGENCE, WEEDS 0-2"
MP MID-POSTEMERGENCE, WEEDS 2-4"
LP LATE POSTEMERGENCE, WEEDS 4-6"
V2 SECOND TRIFOLIATE, SOYBEAN, 2 COLLAR CORN
V3 THIRD TRIFOLIATE, SOYBEAN
6-10"C SIX TO TEN INCH CORN
V4 12 INCH CORN, FOURTH TRIFOLIATE, SOYBEAN
>V4 GREATER THAN FOUR TRIFOLIATES, SOYBEAN
12C 12 INCH CORN
V5 5 UNFOLDED TRIFOLIATES(SOYBEAN), 5 COLLARS(CORN)
28 DAP 28 DAYS AFTER PLANTING
V5-IFN 5 TRIFOLIATES- IF NEEDED
IFN IF NEEDED
VT TASSLING CORN
R3 BEGINNING POD ON SOYBEAN

ABBREVIATIONS

Crop and Weed Species

<u>ABBR</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>
AMACH	Smooth Pigweed	<i>Amaranthus hybridus</i>
AMBTR	Giant Ragweed	<i>Ambrosia trifida</i>
CHEAL	Common Lambsquarters	<i>Chenopodium album</i>
GLXMA	Soybean	<i>Glycine max</i>
IPOSS	Morningglory	<i>Ipomoea sp.</i>
SETFA	Giant Foxtail	<i>Setaria faberi</i>
ZEAMX	Corn	<i>Zea mays</i>

APRIL CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
04-01-2015	66	35	50		92	27	52	45	53	48	
04-02-2015	72	50	61	1.18	95	33	53	48	54	50	
04-03-2015 E	68	51	59	5.22	100	75	59	53			
04-04-2015	55	36	45		93	38	54	50	55	52	
04-05-2015	64	38	51		70	24	53	48	54	50	
04-06-2015	70	49	59		86	41	54	50	55	52	
04-07-2015	72	58	65	0.70	98	78	56	53	58	55	
04-08-2015	79	57	68	0.57	99	70	59	55	61	57	
04-09-2015	82	63	72		91	43	61	57	62	59	
04-10-2015	74	50	62	1.63	97	48	60	58	62	60	
04-11-2015	64	41	52		77	36	59	55	60	57	
04-12-2015	77	41	59		76	26	59	54	60	56	
04-13-2015	79	59	69	0.43	98	53	60	56	62	58	
04-14-2015	60	54	57	1.05	96	62	60	57	62	59	
04-15-2015	60	53	56		95	61	57	56	59	58	
04-16-2015	73	56	64	0.10	94	68	59	56	61	58	
04-17-2015	76	60	68		96	60	61	58	62	60	
04-18-2015	78	52	65		98	40	61	58	62	59	
04-19-2015	72	59	65	0.72	95	60	60	59	62	61	
04-20-2015	64	47	55	0.19	94	64	60	58	62	59	
04-21-2015	63	43	53		77	34	57	55	59	57	
04-22-2015	60	40	50	0.14	90	32	56	54	57	56	
04-23-2015	59	37	48		73	25	54	51	56	53	
04-24-2015	62	33	47		76	28	53	50	55	51	
04-25-2015	57	46	51	0.52	97	67	53	53	55	54	
04-26-2015	63	43	53	0.04	96	41	54	51	56	54	
04-27-2015	65	36	50		93	41	54	51	55	53	
04-28-2015	63	38	50		90	43	54	51	56	53	
04-29-2015	71	41	56		93	38	55	51	56	53	
04-30-2015	63	45	54	0.70	92	52	55	53	56	55	

Summary for Spindletop for the period 4-1-2015 through 4-30-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
	68	47	57	13.19	91	47	57	53	58	55	
(Deviation from normal)	+2	+2	+2	+9.31							

MAY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
05-01-2015	72	43	57		95	44	56	52	57	54	
05-02-2015	77	46	61		94	30	57	53	57	54	
05-03-2015	78	51	64		80	36	58	54	58	55	
05-04-2015	82	58	70		73	45	60	55	59	56	
05-05-2015	83	62	72		76	39	61	57	61	58	
05-06-2015	87	59	73		89	34	62	58	61	59	
05-07-2015	89	61	75		87	37	63	60	62	60	
05-08-2015	87	60	73		91	38	64	60	63	61	
05-09-2015	87	63	75		84	41	65	61	64	62	
05-10-2015	85	67	76		84	50	65	63	65	63	
05-11-2015	88	64	76	0.02	96	47	65	63	65	63	
05-12-2015	72	54	63	0.01	96	45	65	64	65	63	
05-13-2015	70	47	58		94	45	64	60	62	59	
05-14-2015	74	46	60		89	47	64	59	61	59	
05-15-2015	85	62	73	T	82	52	69	62	63	60	
05-16-2015	74	68	71	0.67	96	81	68	66	65	63	
05-17-2015	84	68	76		92	62	72	66	66	65	
05-18-2015	79	68	73	0.26	94	75	71	68	67	66	
05-19-2015	76	55	65		97	40	73	67	66	65	
05-20-2015	72	47	59		93	54	70	65	65	63	
05-21-2015	57	45	51		95	63	68	62	63	60	
05-22-2015	74	44	59		93	36	68	59	61	58	
05-23-2015	80	51	65		90	34	68	62	62	59	
05-24-2015	84	59	71		76	36	72	63	64	61	
05-25-2015	79	67	73	0.10	96	54	70	66	65	63	
05-26-2015	84	65	74	0.30	95	55	72	67	67	64	
05-27-2015	83	63	73	0.60	97	55	74	68	68	66	
05-28-2015	81	61	71	0.80	98	59	72	68	68	66	
05-29-2015	83	66	74	0.26	97	58	74	69	70	67	
05-30-2015	86	70	78		86	50	76	70	71	68	
05-31-2015	81	62	71		88	61	75	71	71	69	

Summary for Spindletop for the period 5-1-2015 through 5-31-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
(Deviation from normal)+4	+4	+3	+4	-1.45	90	48	67	63	64	62	

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

JUNE CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
06-01-2015	62	54	58	1.00	96	89	72	67	70	65	
06-02-2015	60	55	57		96	82	66	65	65	64	
06-03-2015	70	58	64		97	70	66	64	65	64	
06-04-2015	84	55	69	0.01	98	48	70	63	68	63	
06-05-2015	85	60	72		98	44	71	65	70	65	
06-06-2015	80	63	71		96	64	72	68	70	67	
06-07-2015	90	60	75		98	44	74	67	72	67	
06-08-2015	83	67	75	0.25	95	66	72	70	71	70	
06-09-2015	86	61	73	0.22	96	46	75	68	72	68	
06-10-2015	91	61	76		97	34	77	69	73	68	
06-11-2015	93	68	80		82	37	78	71	74	69	
06-12-2015	92	74	83		82	50	75	73	75	71	
06-13-2015	90	72	81		89	50	75	74	76	73	
06-14-2015	91	74	82		84	47	75	73	77	73	
06-15-2015	92	74	83		87	47	75	74	77	74	
06-16-2015	92	73	82	0.06	95	47	78	75	76	74	
06-17-2015	89	71	80	0.87	96	55	78	74	78	73	
06-18-2015	92	70	81	0.14	98	54	79	74	80	74	
06-19-2015	85	70	77	1.65	97	69	76	74	77	74	
06-20-2015	82	71	76	2.10	97	72	74	73	76	74	
06-21-2015	87	68	77		96	49	76	76			
06-22-2015	88	70	79	0.01	97	57	78	74	80	75	
06-23-2015	91	74	82	0.04	85	54	78	75	80	76	
06-24-2015	87	66	76		88	38	79	74	81	75	
06-25-2015	90	64	77	0.06	93	59	78	74	80	75	
06-26-2015	88	70	79	0.60	95	51	79	75	81	76	
06-27-2015	73	62	67	0.10	94	63	77	73	79	74	
06-28-2015	79	58	68		88	38	75	70	76	71	
06-29-2015	80	63	71	0.30	94	64	73	70	75	72	
06-30-2015	84	65	74	0.79	96	55	75	71	77	73	

Summary for the period 6-1-2015 through 6-30-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP			TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	
(Deviation from normal)	+2	+4	+3	+4.54	93	55	75	71	75	71

JULY CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
07-01-2015	81	65	73	0.40	96	65	74	71	76	73	
07-02-2015	78	69	73	0.70	97	76	74	72	76	74	
07-03-2015	78	69	73	0.27	96	79	78	77			
07-04-2015	81	67	74	0.09	97	59	78	77			
07-05-2015	80	68	74		100	60	76	76	77	74	
07-06-2015	85	65	75		97	54	77	72	78	74	
07-07-2015	81	70	75	0.76	94	73	76	74	77	76	
07-08-2015	80	71	75	0.03	95	79	74	73	76	75	
07-09-2015	83	74	78	0.01	90	72	75	73	76	75	
07-10-2015	84	69	76	0.95	96	72	77	73	77	75	
07-11-2015	82	66	74		98	55	79	73	78	75	
07-12-2015	87	70	78	0.40	96	67	78	74	78	75	
07-13-2015	88	68	78	1.12	97	67	79	76	78	76	
07-14-2015	89	69	79	2.59	98	50	77	73	77	74	
07-15-2015	82	66	74		94	67	78	74	77	75	
07-16-2015	86	64	75		98	59	80	74	77	75	
07-17-2015	91	69	80		97	57	79	76	78	75	
07-18-2015	92	70	81	1.65	97	63	80	75	79	75	
07-19-2015	91	72	81	0.01	95	62	80	78	79	77	
07-20-2015	88	71	79	0.01	97	66	80	77	79	77	
07-21-2015	86	72	79	0.50	96	56	80	78	79	77	
07-22-2015	84	65	74		82	36	80	76	78	76	
07-23-2015	85	64	74		88	44	81	75	77	74	
07-24-2015	87	63	75		93	42	81	75	76	73	
07-25-2015	90	63	76		94	42	82	75	76	73	
07-26-2015	90	68	79		95	48	82	76	77	74	
07-27-2015	88	74	81	0.20	93	61	82	78	77	76	
07-28-2015	89	71	80	0.25	96	63	81	78	77	76	
07-29-2015	94	72	83	0.27	97	55	82	77	78	75	
07-30-2015	85	68	76	0.01	96	45	82	78	77	76	
07-31-2015	87	62	74		96	42	80	75	76	73	

Summary for the period 7-1-2015 through 7-31-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
	86	68	77	10.22	95	59	79	75	77	75	
(Deviation from normal)	0	+3	+2	+5.22							

AUGUST CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
08-01-2015	85	65	75		91	37	80	75	75	73	
08-02-2015	88	61	74		94	40	79	74	75	72	
08-03-2015	89	64	76	0.12	93	52	77	74	75	72	
08-04-2015	88	69	78	0.51	94	53	76	75	76	74	
08-05-2015	89	67	78		97	54	77	74	77	74	
08-06-2015	77	67	72	1.84	97	84	76	74	76	75	
08-07-2015	80	66	73	0.01	97	69	75	73	76	74	
08-08-2015	84	61	72		98	55	78	75	79	74	
08-09-2015	86	64	75		93	56	79	75			
08-10-2015	85	72	78	T	91	74					
08-11-2015	83	70	76	0.50	97	60					
08-12-2015	81	62	71		93	50					
08-13-2015 E	81	56	68		96	49	74	73			
08-14-2015	86	64	75		97	36	76	71	75	72	
08-15-2015	90	59	74		96	41	77	71	75	71	
08-16-2015	90	64	77		95	45	78	72	76	72	
08-17-2015	82	70	76		97	70	76	74	75	74	
08-18-2015	88	68	78	0.03	98	54	77	73	76	73	
08-19-2015	88	72	80	0.01	94	60	77	74	76	74	
08-20-2015	79	60	69	0.32	96	49	76	74	75	74	
08-21-2015	81	57	69		98	39	76	71	74	71	
08-22-2015	85	58	71		88	43	76	71	74	71	
08-23-2015	89	68	78	0.10	90	49	77	73	75	73	
08-24-2015	80	62	71		90	42	76	73	75	73	
08-25-2015	76	54	65		93	41	74	70	72	70	
08-26-2015	77	54	65		96	46	72	69	72	69	
08-27-2015	77	54	65		97	46	72	68	71	69	
08-28-2015	86	52	69		96	38	74	68	72	68	
08-29-2015	89	64	76	0.05	89	47	74	70	73	70	
08-30-2015	88	69	78		90	48	75	71	74	71	
08-31-2015	89	65	77		95	38	77	72	75	72	

Summary for the period 8-1-2015 through 8-31-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
(Deviation from normal)+0	84	63	74	3.49	94	50	76	72	75	72	
	+1	+1	+1	-0.44							

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

SEPTEMBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
09-01-2015	92	65	78		95	37	77	72	75	72	
09-02-2015	93	67	80		96	36	77	72	75	72	
09-03-2015	94	68	81		95	36	78	73	76	73	
09-04-2015	97	68	82		95	33	78	73	76	73	
09-05-2015	94	66	80		91	35	78	74	76	73	
09-06-2015	95	67	81		94	38	78	74	76	73	
09-07-2015	93	66	79		97	39	78	73	76	73	
09-08-2015	93	69	81		90	38	78	74	76	74	
09-09-2015	86	72	79	0.45	97	58	76	74	75	74	
09-10-2015	85	66	75		96	47	77	74	76	74	
09-11-2015	87	61	74	0.01	97	38	75	71	75	72	
09-12-2015	72	55	63	0.09	95	52	73	70	73	71	
09-13-2015	70	49	59		97	41	70	67	71	69	
09-14-2015	78	48	63		89	31	70	65	70	66	
09-15-2015	83	54	68		89	36	71	65	70	67	
09-16-2015	85	53	69		92	33	71	66	71	67	
09-17-2015	85	57	71		93	34	72	66	71	68	
09-18-2015	86	60	73		87	40	72	67	71	68	
09-19-2015	87	61	74		92	47	71	68	71	69	
09-20-2015	76	54	65		90	38	76	54			
09-21-2015	80	52	66		91	33	70	66	70	67	
09-22-2015	82	49	65		97	36	70	65	70	66	
09-23-2015	84	54	69		96	36	70	65	70	66	
09-24-2015	87	56	71		88	34	72	66	71	67	
09-25-2015	73	60	66	0.37	94	50	69	67	70	68	
09-26-2015	72	61	66	0.15	93	73	68	66	69	67	
09-27-2015	82	60	71		96	49	70	66	70	67	
09-28-2015	84	62	73		98	53	71	67	71	68	
09-29-2015	72	68	70	1.32	97	88	70	69	71	70	
09-30-2015	68	61	64	1.10	96	82	69	67	71	69	

Summary for the period 9-1-2015 through 9-30-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(Deviation from normal)+6	+6	+5	+5	+0.29			73	69	73	70	

OCTOBER CLIMATOLOGICAL DATA, SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
10-01-2015	60	55	57	0.40	96	81	67	64	69	66	
10-02-2015	56	48	52	0.21	96	82	63	61	66	64	
10-03-2015	55	48	51	0.14	96	91	61	59	63	62	
10-04-2015	76	54	65	0.11	95	60	63	59	66	62	
10-05-2015	80	58	69	0.07	95	50	66	62	68	65	
10-06-2015	83	56	69	0.04	96	38	67	63	69	65	
10-07-2015	84	53	68	0.01	98	39	67	63	69	66	
10-08-2015	84	59	71		96	41	68	64	69	66	
10-09-2015	78	57	67	0.07	90	62	67	66	68	67	
10-10-2015	70	48	59		93	41	66	64	67	65	
10-11-2015	73	43	58	0.01	97	37	65	61	66	63	
10-12-2015	78	51	64	0.02	96	45	64	61	65	63	
10-13-2015	67	53	60	0.04	96	54	64	62	65	64	
10-14-2015	70	47	58		92	35	62	60	64	62	
10-15-2015	72	41	56		95	31	62	58	63	60	
10-16-2015	64	43	53		68	30	61	59	62	60	
10-17-2015	59	35	47		92	35	59	56	60	58	
10-18-2015	60	30	45		96	30	56	53	58	55	
10-19-2015	68	35	51		81	28	56	53	58	55	
10-20-2015	72	45	58		78	32	58	54	59	56	
10-21-2015	76	47	61		76	38	59	54	60	56	
10-22-2015	80	56	68		82	44	61	57	62	59	
10-23-2015	81	52	66		95	38	62	58	63	60	
10-24-2015	69	61	65	0.25	96	62	62	60	63	62	
10-25-2015	63	48	55		97	60	62	60	63	62	
10-26-2015	62	47	54	0.01	88	60	60	58	61	60	
10-27-2015	56	54	55	0.88	97	85	58	57	60	59	
10-28-2015	67	57	62	0.49	96	74	60	57	61	59	
10-29-2015	61	42	51	0.02	93	38	59	57	61	59	
10-30-2015	52	37	44	0.01	93	61	56	55	58	56	
10-31-2015	62	41	51		95	59	55	54	57	55	

Summary for the period 10-1-2015 through 10-31-2015:

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	MN	
(Deviation from normal)	+1	+3	+2	+0.21	92	50	62	59	63	61	

APRIL-OCTOBER SUMMARY

Spindletop Monthly Climate Data(04-2015 to 10-2015)

----- 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	
2015	Apr	68	47	57	82	33	+2	0	0	57	53	
2015	May	80	58	69	89	43	+5	0	0	67	63	
2015	Jun	85	66	75	93	54	+3	11	0	75	71	
2015	Jul	86	68	77	94	62	+1	6	0	79	75	
2015	Aug	84	63	74	90	52	-1	2	0	76	72	
2015	Sep	84	60	72	97	48	+4	8	0	73	69	
2015	Oct	69	48	59	84	30	+2	0	1	62	59	

----- PRECIPITATION -----									
YEAR	MONTH	DEPARTURE		CUMULATIVE		GREATEST	% RAIN DAYS	NO. DAYS >=.01	
		TOTAL	FROM NORMAL	TOTAL	DEPARTURE	24 HOUR TOTAL			
2015	Apr	13.19	+9.31	13.19	+9.31	5.22	47	14	
2015	May	3.02	-1.45	16.21	+7.86	0.80	29	9	
2015	Jun	8.20	+4.54	24.41	+12.40	2.10	53	16	
2015	Jul	10.22	+5.22	34.63	+17.62	2.59	61	19	
2015	Aug	3.49	-0.44	38.12	+17.18	1.84	32	10	
2015	Sep	3.49	+0.29	41.61	+17.47	1.32	23	7	
2015	Oct	2.78	+0.21	44.39	+17.68	0.88	55	17	

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NO TILL CORN

Trial ID: C15001
 Protocol ID: SYN-CORN-PRE-NT
 Project ID:

Location: LEXINGTON, KY Trial Year: 2015
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Ipomoea sp.	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Scientific Name	Zea mays			Zea mays
Crop Name	Corn			Corn
Rating Date				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Plant-Eval Interval				
Days After Emergence				

Trt No.	Treatment Name	Rate Unit	Growth Stage	Rating					
				1	2	3	4	5	6
1	ACURON	2.5 QT/A	PRE	0	99	99	99	0	95
2	ACURON	1.5 QT/A	PRE	0	99	99	99	0	99
	HALEX GT	3.6 PT/A	12C						
	AATREX	1 QT/A	12C						
	AMS	1 % V/V	12C						
	NIS	0.25 % V/V	12C						
3	ACURON	1.5 QT/A	PRE	0	99	99	99	0	99
	ACURON	1.5 QT/A	12C						
4	ACURON	1.5 QT/A	PRE	0	99	99	99	0	93
	ACURON	1.5 QT/A	12C						
	TOUCHDOWN TOTAL	32 FL OZ/A	12C						
5	STALWART XTRA LITE	2.1 QT/A	PRE	0	99	99	99	0	93
	ROUNDUP POWERMAX	32 FL OZ/A	12C						
6	ANTHEM MAXX	4 OZ/A	V4	0	99	99	99	0	88
	AATREX	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
7	SOLSTICE	2.5 OZ/A	V4	0	99	99	99	0	83
	AATREX	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
8	LEADOFF		PRE	0	99	99	99	0	99
	AATREX	1 QT/A	PRE						
	REALM Q		MP						
	ABUNDIT S	32 FL OZ/A	MP						
	AATREX	1.5 QT/A	MP						
	NIS	0.25 % V/V	MP						
9	REALM Q		EP	0	99	99	99	0	99
	ABUNDIT S	32 FL OZ/A	EP						
	AATREX	1.5 QT/A	EP						
	NIS	0.25 % V/V	EP						
10	KEYSTONE NXT	2.4 QT/A	PRE	0	99	99	99	0	93
	HORNET	3 OZ/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
11	SURESTART II	2.5 PT/A	PRE	0	99	99	99	0	95
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
12	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	0	99
	AATREX	2 PT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	V5						
	CAPRENO HERBICIDE	3 OZ/A	V5						
	DIFLEXX	8 OZ/A	V5						
	AATREX	2 PT/A	V5						
	MSO	0.5 % V/V	V5						
	AMS	3.7 % V/V	V5						

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

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Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	AMBTR	IPOSS		SETFA
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail
Crop Code		ZEAMX				ZEAMX
BBCH Scale		BCOR				BCOR
Crop Scientific Name		Zea mays				Zea mays
Crop Name		Corn				Corn
Rating Date						
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Plant-Eval Interval						
Days After Emergence						

Trt	Treatment No. Name	Rate Rate Unit	Growth Stage	1	2	3	4	5	6
13	ZIDUA	5 OZ/A	PRE	0	99	99	99	0	99
	SHARPEN	2 OZ/A	PRE						
	MSO	1 % V/V	PRE						
	AMS	8.5 LB AI/100 GAL	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C						
	STATUS	5 OZ/A	6-10°C						
	ATRAZINE	32 FL OZ/A	6-10°C						
	NIS	0.25 % V/V	6-10°C						
	AMS	8.5 LB AI/100 GAL	6-10°C						
14	VERDICT	18 FL OZ/A	PRE	0	99	99	99	0	99
	MSO	1 % V/V	PRE						
	AMS	8.5 LB AI/100 GAL	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C						
	STATUS	5 OZ/A	6-10°C						
	ZIDUA	5 FL OZ/A	6-10°C						
	NIS	0.25 % V/V	6-10°C						
	AMS	8.5 LB AI/100 GAL	6-10°C						
	LSD P=.05								5.8
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	3.4
	CV			0.0	0.0	0.0	0.0	0.0	3.61
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.223
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.8020
	Treatment F			0.000	0.000	0.000	0.000	0.000	5.815
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date					
Rating Type					
Rating Unit	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Timing	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Plant-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After Emergence					

Trt No.	Treatment Name	Rate Unit	Growth Stage	7	8	9	10	11	12
1	ACURON	2.5 QT/A	PRE	91	99	0	95	91	99
2	ACURON	1.5 QT/A	PRE	99	99	0	99	99	99
	HALEX GT	3.6 PT/A	12C						
	AATREX	1 QT/A	12C						
	AMS	1 % V/V	12C						
	NIS	0.25 % V/V	12C						
3	ACURON	1.5 QT/A	PRE	99	99	0	99	99	99
	ACURON	1.5 QT/A	12C						
4	ACURON	1.5 QT/A	PRE	99	99	0	93	99	99
	ACURON	1.5 QT/A	12C						
	TOUCHDOWN TOTAL	32 FL OZ/A	12C						
5	STALWART XTRA LITE	2.1 QT/A	PRE	93	99	0	93	93	99
	ROUNDUP POWERMAX	32 FL OZ/A	12C						
6	ANTHEM MAXX	4 OZ/A	V4	99	99	0	88	99	99
	AATREX	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
7	SOLSTICE	2.5 OZ/A	V4	99	99	0	83	99	99
	AATREX	1 LB AI/A	V4						
	ROUNDUP POWERMAX	22 FL OZ/A	V4						
	COC	1 % V/V	V4						
8	LEADOFF		PRE	99	99	0	99	99	99
	AATREX	1 QT/A	PRE						
	REALM Q		MP						
	ABUNDIT S	32 FL OZ/A	MP						
	AATREX	1.5 QT/A	MP						
	NIS	0.25 % V/V	MP						
9	REALM Q		EP	99	99	0	99	99	99
	ABUNDIT S	32 FL OZ/A	EP						
	AATREX	1.5 QT/A	EP						
	NIS	0.25 % V/V	EP						
10	KEYSTONE NXT	2.4 QT/A	PRE	99	99	0	93	99	99
	HORNET	3 OZ/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
11	SURESTART II	2.5 PT/A	PRE	96	99	0	95	96	99
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
12	CORVUS HERBICIDE	4 OZ/A	PRE	99	99	0	99	99	99
	AATREX	2 PT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	V5						
	CAPRENO HERBICIDE	3 OZ/A	V5						
	DIFLEXX	8 OZ/A	V5						
	AATREX	2 PT/A	V5						
	MSO	0.5 % V/V	V5						
	AMS	3.7 % V/V	V5						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA	IPOSS
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ipomoea sp.
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date					
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Plant-Eval Interval					
Days After Emergence					

Trit No.	Treatment Name	Rate Rate Unit	Growth Stage	7	8	9	10	11	12
13	ZIDUA	5 OZ/A	PRE	96	99	0	99	96	99
	SHARPEN	2 OZ/A	PRE						
	MSO	1 % V/V	PRE						
	AMS	8.5 LB AI/100 GAL	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C						
	STATUS	5 OZ/A	6-10°C						
	ATRAZINE	32 FL OZ/A	6-10°C						
	NIS	0.25 % V/V	6-10°C						
	AMS	8.5 LB AI/100 GAL	6-10°C						
14	VERDICT	18 FL OZ/A	PRE	99	99	0	99	99	99
	MSO	1 % V/V	PRE						
	AMS	8.5 LB AI/100 GAL	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C						
	STATUS	5 OZ/A	6-10°C						
	ZIDUA	5 FL OZ/A	6-10°C						
	NIS	0.25 % V/V	6-10°C						
	AMS	8.5 LB AI/100 GAL	6-10°C						
	LSD P=.05			5.3	.	.	5.8	5.3	.
	Standard Deviation			3.1	0.0	0.0	3.4	3.1	0.0
	CV			3.23	0.0	0.0	3.61	3.23	0.0
	Replicate F			1.217	0.000	0.000	0.223	1.217	0.000
	Replicate Prob(F)			0.3124	1.0000	1.0000	0.8020	0.3124	1.0000
	Treatment F			1.890	0.000	0.000	5.815	1.890	0.000
	Treatment Prob(F)			0.0811	1.0000	1.0000	0.0001	0.0811	1.0000

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date 9/15/2015
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Plant-Eval Interval 134 DP-1
 Days After Emergence 126 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	16
1	ACURON	2.5	QT/A	PRE	204
2	ACURON	1.5	QT/A	PRE	207
	HALEX GT	3.6	PT/A	12C	
	AATREX	1	QT/A	12C	
	AMS	1	% V/V	12C	
	NIS	0.25	% V/V	12C	
3	ACURON	1.5	QT/A	PRE	206
	ACURON	1.5	QT/A	12C	
4	ACURON	1.5	QT/A	PRE	209
	ACURON	1.5	QT/A	12C	
	TOUCHDOWN TOTAL	32	FL OZ/A	12C	
5	STALWART XTRA LITE	2.1	QT/A	PRE	206
	ROUNDUP POWERMAX	32	FL OZ/A	12C	
6	ANTHEM MAXX	4	OZ/A	V4	200
	AATREX	1	LB AI/A	V4	
	ROUNDUP POWERMAX	22	FL OZ/A	V4	
	COC	1	% V/V	V4	
7	SOLSTICE	2.5	OZ/A	V4	203
	AATREX	1	LB AI/A	V4	
	ROUNDUP POWERMAX	22	FL OZ/A	V4	
	COC	1	% V/V	V4	
8	LEADOFF			PRE	204
	AATREX	1	QT/A	PRE	
	REALM Q			MP	
	ABUNDIT S	32	FL OZ/A	MP	
	AATREX	1.5	QT/A	MP	
	NIS	0.25	% V/V	MP	
9	REALM Q			EP	204
	ABUNDIT S	32	FL OZ/A	EP	
	AATREX	1.5	QT/A	EP	
	NIS	0.25	% V/V	EP	
10	KEYSTONE NXT	2.4	QT/A	PRE	198
	HORNET	3	OZ/A	PRE	
	DURANGO DMA	1	QT/A	MP	
	AMS	2.5	% V/V	MP	
11	SURESTART II	2.5	PT/A	PRE	193
	AATREX	1	QT/A	PRE	
	DURANGO DMA	1	QT/A	MP	
	AMS	2.5	% V/V	MP	
12	CORVUS HERBICIDE	4	OZ/A	PRE	199
	AATREX	2	PT/A	PRE	
	ROUNDUP POWERMAX	32	FL OZ/A	V5	
	CAPRENO HERBICIDE	3	OZ/A	V5	
	DIFLEXX	8	OZ/A	V5	
	AATREX	2	PT/A	V5	
	MSO	0.5	% V/V	V5	
	AMS	3.7	% V/V	V5	

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date 9/15/2015
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Plant-Eval Interval 134 DP-1
 Days After Emergence 126 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
					16
13	ZIDUA	5 OZ/A		PRE	191
	SHARPEN	2 OZ/A		PRE	
	MSO	1 % V/V		PRE	
	AMS	8.5 LB AI/100 GAL		PRE	
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C	
	STATUS	5 OZ/A		6-10°C	
	ATRAZINE	32 FL OZ/A		6-10°C	
	NIS	0.25 % V/V		6-10°C	
	AMS	8.5 LB AI/100 GAL		6-10°C	
14	VERDICT	18 FL OZ/A		PRE	208
	MSO	1 % V/V		PRE	
	AMS	8.5 LB AI/100 GAL		PRE	
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C	
	STATUS	5 OZ/A		6-10°C	
	ZIDUA	5 FL OZ/A		6-10°C	
	NIS	0.25 % V/V		6-10°C	
	AMS	8.5 LB AI/100 GAL		6-10°C	
	LSD P=.05				19.1
	Standard Deviation				11.4
	CV				5.62
	Replicate F				0.516
	Replicate Prob(F)				0.6031
	Treatment F				0.690
	Treatment Prob(F)				0.7552

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NO TILL CORN

Trial ID: C15001	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: SYN-CORN-PRE-NT	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: SCOTT CULLY	

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

Plant-Eval Interval

134 DP-1 = 1 ZEAMX 5/4/2015

ARM Action Codes

TY1 = $4.444898^{[14]} \cdot (100 - [15]) / 84.5$

University of Kentucky

NO TILL CORN

Trial ID: C15001 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: SYN-CORN-PRE-NT Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: SCOTT CULLY

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: N68B-3122

Planting Date: 5/4/2015
Planting Rate, Unit: 30000 S/A **Planting Method:** PLANTD planted
Depth, Unit: 1.5 IN **Planting Equipment:** FE Field Equipment
Row Spacing, Unit: 30 IN **Emergence Date:** 5/12/2015
Harvest Date: 9/15/2015
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 35 FT
Soil Temperature, Unit: 58 F **Harvest Equipment:** COMBINE
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:** 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:** 14 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C	D
Application Date:	5/7/2015	5/27/2015	5/29/2015	6/2/2015
Appl. Start Time:		11:00 AM		
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	V4/6-10"C	MP/V5/12C
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	89 F	76 F	78 F	57 F
% Relative Humidity:	50	50	75	88
Wind Velocity, Unit:	5 MPH	8 MPH	6 MPH	4 MPH
Wind Direction:	SW	W	SW	W
Soil Temperature, Unit:	61 F	71 F	72 F	65 F
Soil Moisture:	DRY	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	30	40
Next Moisture Occurred On:	5/11/2015	5/28/2015	6/1/2015	6/4/2015

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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:		V4	V4	V5
Height, Unit:		9 IN	10 IN	12 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W DESC	SETFA W	SETFA W
Stage Majority, Percent:		2LF		
Height, Unit:		2 IN	2.5 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		3LF		
Height, Unit:		2 IN	3 IN	4 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:		1LF		
Height, Unit:		1 IN	1.5 IN	2 IN

Application Equipment

	A	B	C	D
Appl. Equipment:	ATV	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2	CO2

Date	By	Notes
5/6/2015	SARA LAWSON	ENTIRE TRIAL AREA OVERSPRAYED WITH GLYPHOSATE

University of Kentucky

CORN POSTEMERGENCE

Trial ID: C15010	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: BASF-CORN	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: GREG STAPLETON	

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6/5/2015	6/5/2015	6/5/2015	6/5/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	36 14	36 14	36 14	36 14
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1

Trt Treatment No. Name	Rate Rate Unit	Growth Stage	1	2	3	4	5
1 CHECK			0	0	0	0	0
2 ZIDUA	5 FL OZ/A	PRE	0	99	99	99	99
SHARPEN	2 FL OZ/A	PRE					
MSO	1 % V/V	PRE					
AMS	8.5 % V/V	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
BAS 67703H	16 FL OZ/A	6-10°C					
ATRAZINE	16 FL OZ/A	6-10°C					
NIS	0.25 % V/V	6-10°C					
AMS	8.5 LB AI/100 GAL	6-10°C					
3 VERDICT	14 FL OZ/A	PRE	0	99	99	99	99
MSO	1 % V/V	PRE					
AMS	8.5 LB AI/100 GAL	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
BAS 67703H	16 FL OZ/A	6-10°C					
ATRAZINE	16 FL OZ/A	6-10°C					
NIS	0.25 % V/V	6-10°C					
AMS	8.5 LB AI/100 GAL	6-10°C					
4 VERDICT	18 FL OZ/A	PRE	0	99	99	99	99
MSO	1 % V/V	PRE					
AMS	8.5 LB AI/100 GAL	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
STATUS	5 OZ/A	6-10°C					
ZIDUA	5 FL OZ/A	6-10°C					
NIS	0.25 % V/V	6-10°C					
AMS	8.5 LB AI/100 GAL	6-10°C					
5 VERDICT	18 FL OZ/A	PRE	0	99	99	99	99
MSO	1 % V/V	PRE					
AMS	8.5 LB AI/100 GAL	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
STATUS	5 OZ/A	6-10°C					
PROWL H20	32 FL OZ/A	6-10°C					
NIS	0.25 % V/V	6-10°C					
AMS	8.5 LB AI/100 GAL	6-10°C					
6 ZIDUA	5 FL OZ/A	PRE	0	99	99	99	99
SHARPEN	2 FL OZ/A	PRE					
MSO	1 % V/V	PRE					
AMS	8.5 LB AI/100 GAL	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
STATUS	5 OZ/A	6-10°C					
ATRAZINE	32 FL OZ/A	6-10°C					
NIS	0.25 % V/V	6-10°C					
AMS	8.5 LB AI/100 GAL	6-10°C					
7 LUMAX	24 FL OZ/A	PRE	0	99	98	99	99
HALEX GT	58 FL OZ/A	6-10°C					

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

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	36 14	36 14	36 14	36 14	36 14
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
8	CORVUS HERBICIDE	4.5	FL OZ/A	PRE	0	99	99	99	99
	ATRAZINE	32	FL OZ/A	PRE					
	ROUNDUP POWERMAX	22	FL OZ/A	6-10°C					
	LAUDIS	3	FL OZ/A	6-10°C					
	ATRAZINE	16	FL OZ/A	6-10°C					
	LSD P=.05						1.4		
	Standard Deviation				0.0	0.0	0.8	0.0	0.0
	CV				0.0	0.0	0.94	0.0	0.0
	Replicate F				0.000	0.000	1.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	0.3927	1.0000	1.0000
	Treatment F				0.000	0.000	5492.849	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	1.0000

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	CHEAL	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	
Crop Code		ZEAMX				ZEAMX
BBCH Scale		BCOR				BCOR
Crop Scientific Name		Zea mays				Zea mays
Crop Name		Corn				Corn
Rating Date		6/19/2015	6/19/2015	6/19/2015	6/19/2015	7/2/2015
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.		50 28	50 28	50 28	50 28	63 41
Trt-Eval Interval						
Plant-Eval Interval		51 DP-1	51 DP-1	51 DP-1	51 DP-1	64 DP-1
Days After Emergence		45 DE-1	45 DE-1	45 DE-1	45 DE-1	58 DE-1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6	7	8	9	10	11
1	CHECK				0	0	0	0	0	0
2	ZIDUA	5 FL OZ/A		PRE	0	99	99	99	99	0
	SHARPEN	2 FL OZ/A		PRE						
	MSO	1 % V/V		PRE						
	AMS	8.5 % V/V		PRE						
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C						
	BAS 67703H	16 FL OZ/A		6-10°C						
	ATRAZINE	16 FL OZ/A		6-10°C						
	NIS	0.25 % V/V		6-10°C						
	AMS	8.5 LB AI/100 GAL		6-10°C						
3	VERDICT	14 FL OZ/A		PRE	0	99	99	99	99	0
	MSO	1 % V/V		PRE						
	AMS	8.5 LB AI/100 GAL		PRE						
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C						
	BAS 67703H	16 FL OZ/A		6-10°C						
	ATRAZINE	16 FL OZ/A		6-10°C						
	NIS	0.25 % V/V		6-10°C						
	AMS	8.5 LB AI/100 GAL		6-10°C						
4	VERDICT	18 FL OZ/A		PRE	0	99	99	99	99	0
	MSO	1 % V/V		PRE						
	AMS	8.5 LB AI/100 GAL		PRE						
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C						
	STATUS	5 OZ/A		6-10°C						
	ZIDUA	5 FL OZ/A		6-10°C						
	NIS	0.25 % V/V		6-10°C						
	AMS	8.5 LB AI/100 GAL		6-10°C						
5	VERDICT	18 FL OZ/A		PRE	0	99	99	99	99	0
	MSO	1 % V/V		PRE						
	AMS	8.5 LB AI/100 GAL		PRE						
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C						
	STATUS	5 OZ/A		6-10°C						
	PROWL H20	32 FL OZ/A		6-10°C						
	NIS	0.25 % V/V		6-10°C						
	AMS	8.5 LB AI/100 GAL		6-10°C						
6	ZIDUA	5 FL OZ/A		PRE	0	99	99	99	99	0
	SHARPEN	2 FL OZ/A		PRE						
	MSO	1 % V/V		PRE						
	AMS	8.5 LB AI/100 GAL		PRE						
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C						
	STATUS	5 OZ/A		6-10°C						
	ATRAZINE	32 FL OZ/A		6-10°C						
	NIS	0.25 % V/V		6-10°C						
	AMS	8.5 LB AI/100 GAL		6-10°C						
7	LUMAX	24 FL OZ/A		PRE	0	99	98	99	99	0
	HALEX GT	58 FL OZ/A		6-10°C						

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Pest Type		W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	CHEAL	AMBTR	IPOSS			
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.			
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory			
Crop Code		ZEAMX				ZEAMX		
BBCH Scale		BCOR				BCOR		
Crop Scientific Name		Zea mays				Zea mays		
Crop Name		Corn				Corn		
Rating Date		6/19/2015	6/19/2015	6/19/2015	6/19/2015	7/2/2015		
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK		
Days After First/Last Applic.		50 28	50 28	50 28	50 28	63 41		
Trt-Eval Interval								
Plant-Eval Interval		51 DP-1	51 DP-1	51 DP-1	51 DP-1	64 DP-1		
Days After Emergence		45 DE-1	45 DE-1	45 DE-1	45 DE-1	58 DE-1		
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	6	7	8	9	10	11
8 CORVUS HERBICIDE	4.5 FL OZ/A	PRE	0	99	99	99	98	0
ATRAZINE	32 FL OZ/A	PRE						
ROUNDUP POWERMAX	22 FL OZ/A	6-10"C						
LAUDIS	3 FL OZ/A	6-10"C						
ATRAZINE	16 FL OZ/A	6-10"C						
LSD P=.05					1.4		1.4	
Standard Deviation			0.0	0.0	0.8	0.0	0.8	0.0
CV			0.0	0.0	0.94	0.0	0.94	0.0
Replicate F			0.000	0.000	1.000	0.000	1.000	0.000
Replicate Prob(F)			1.0000	1.0000	0.3927	1.0000	0.3927	1.0000
Treatment F			0.000	0.000	5492.849	0.000	5492.849	0.000
Treatment Prob(F)			1.0000	1.0000	0.0001	1.0000	0.0001	1.0000

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			W Weed	W Weed	W Weed	W Weed		
			SETFA	CHEAL	AMBTR	IPOSS		
			Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.		
			Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory		
							ZEAMX	
							BCOR	
							Zea mays	
							Corn	
			7/2/2015	7/2/2015	7/2/2015	7/2/2015		
			CONTROL	CONTROL	CONTROL	CONTROL	YIELD	
			PERCENT	PERCENT	PERCENT	PERCENT	BU	
			8 WEEK	8 WEEK	8 WEEK	8 WEEK		
			63 41	63 41	63 41	63 41		
			64 DP-1	64 DP-1	64 DP-1	64 DP-1		
			58 DE-1	58 DE-1	58 DE-1	58 DE-1		
Trt No.	Treatment Name	Rate Unit	Growth Stage	12	13	14	15	20
1	CHECK			0	0	0	0	16
2	ZIDUA	5 FL OZ/A	PRE	99	99	99	99	204
	SHARPEN	2 FL OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 % V/V	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	BAS 67703H	16 FL OZ/A	6-10°C					
	ATRAZINE	16 FL OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
3	VERDICT	14 FL OZ/A	PRE	99	99	99	99	202
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	BAS 67703H	16 FL OZ/A	6-10°C					
	ATRAZINE	16 FL OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
4	VERDICT	18 FL OZ/A	PRE	99	99	99	99	208
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	STATUS	5 OZ/A	6-10°C					
	ZIDUA	5 FL OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
5	VERDICT	18 FL OZ/A	PRE	99	99	99	99	198
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	STATUS	5 OZ/A	6-10°C					
	PROWL H20	32 FL OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
6	ZIDUA	5 FL OZ/A	PRE	99	99	99	99	196
	SHARPEN	2 FL OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	STATUS	5 OZ/A	6-10°C					
	ATRAZINE	32 FL OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
7	LUMAX	24 FL OZ/A	PRE	99	98	99	99	196
	HALEX GT	58 FL OZ/A	6-10°C					

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Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	CHEAL	AMBTR	IPOSS			
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.			
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory			
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Scientific Name					Zea mays		
Crop Name					Corn		
Rating Date	7/2/2015	7/2/2015	7/2/2015	7/2/2015			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU		
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.	63 41	63 41	63 41	63 41			
Trt-Eval Interval							
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1			
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1			
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	12	13	14	15	20
8 CORVUS HERBICIDE	4.5 FL OZ/A	PRE	99	99	99	98	204
ATRAZINE	32 FL OZ/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	6-10"C					
LAUDIS	3 FL OZ/A	6-10"C					
ATRAZINE	16 FL OZ/A	6-10"C					
LSD P=.05				1.4		1.4	20.2
Standard Deviation			0.0	0.8	0.0	0.8	11.6
CV			0.0	0.94	0.0	0.94	6.48
Replicate F			0.000	1.000	0.000	1.000	7.190
Replicate Prob(F)			1.0000	0.3927	1.0000	0.3927	0.0071
Treatment F			0.000	5492.849	0.000	5492.849	96.509
Treatment Prob(F)			1.0000	0.0001	1.0000	0.0001	0.0001

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CORN POSTEMERGENCE

Trial ID: C15010	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: BASF-CORN	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: GREG STAPLETON	

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = US
 IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

37 DP-1 = 1 ZEAMX 4/29/2015

51 DP-1 = 1 ZEAMX 4/29/2015

64 DP-1 = 1 ZEAMX 4/29/2015

ARM Action Codes

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

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CORN POSTEMERGENCE

Trial ID: C15010 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: BASF-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC64-89RIB		
Planting Rate, Unit: 30000 S/A		Planting Date: 4/29/2015
Depth, Unit: 1.5 IN		Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN		Planting Equipment: FE Field Equipment
		Emergence Date: 5/5/2015
		Harvest Date: 9/15/2015
		Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 54 F		Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good		Harvest Equipment: COMBINE
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

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

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	4/30/2015	5/22/2015
Appl. Start Time:	9:00 AM	1:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	10C
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	72 F
% Relative Humidity:	80	35
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	SE	WSW
Soil Temperature, Unit:	55 F	59 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	10
Next Moisture Occurred On:	5/11/2015	5/25/2015

Crop Stage At Each Application

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

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Pest Stage At Each Application

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

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CORN POSTEMERGENCE II

Trial ID: C15011 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: ISK-CORN-CD Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DENNIS TONKS

Trt	Treatment	Rate	Growth					
No.	Name	Rate Unit	Stage	1	2	3	4	5
1	UNTREATED CHECK			0	0	0	0	0
2	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	37
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
3	TOLPYRALATE	1.35 FL OZ/A	MP	0	99	99	99	67
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
4	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
5	TOLPYRALATE	1.35 FL OZ/A	MP	0	99	99	98	99
	ATRAZINE	1 LB AI/A	MP					
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
6	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	DUAL II MAGNUM	1.5 PT/A	MP					
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
7	TOLPYRALATE	1 FL OZ/A	MP	3	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	SURPASS NXT	2 PT/A	MP					
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
8	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	MSO	0.5 % V/V	MP					
	AMS	17 LB AI/100 GAL	MP					
9	TOLPYRALATE	1 FL OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	STATUS	5 OZ WT/A	MP					
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
10	CALLISTO	3 FL OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	COC	1 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
11	IMPACT	1 FL OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB AI/A	MP					
	MSO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					

Could not calculate LSD (% mean diff) for columns 2,3,6,8,11,13 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	CHEAL	AMBTR	IPOSS					
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.					
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory					
Crop Code	ZEAMX								
BBCH Scale	BCOR								
Crop Scientific Name	Zea mays								
Crop Name	Corn								
Rating Type	INJURY	CONTROL	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK					
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST					
Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
12	LAUDIS	3 FL	OZ/A	MP	0	99	99	99	99
	ATRAZINE	1 LB	AI/A	MP					
	MISO	0.5 %	V/V	MP					
	UAN-28%	2.5 %	V/V	MP					
	LSD P=.05				2.8	.	.	1.1	15.5
	Standard Deviation				1.7	0.0	0.0	0.7	9.2
	CV				600.0	0.0	0.0	0.74	11.06
	Replicate F				1.000	0.000	0.000	1.000	1.397
	Replicate Prob(F)				0.3840	1.0000	1.0000	0.3840	0.2685
	Treatment F				1.000	0.000	0.000	5500.563	37.670
	Treatment Prob(F)				0.4767	1.0000	1.0000	0.0001	0.0001

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6	7	8	9	10
1	UNTREATED CHECK				0	0	0	0	0
2	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	82	33
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
3	TOLPYRALATE	1.35 FL OZ/A		MP	0	99	99	85	65
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
4	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	88	89
	ATRAZINE	1 LB AI/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
5	TOLPYRALATE	1.35 FL OZ/A		MP	0	99	99	93	95
	ATRAZINE	1 LB AI/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
6	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	92	95
	ATRAZINE	1 LB AI/A		MP					
	DUAL II MAGNUM	1.5 PT/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
7	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	95	95
	ATRAZINE	1 LB AI/A		MP					
	SURPASS NXT	2 PT/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
8	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	93	92
	ATRAZINE	1 LB AI/A		MP					
	ROUNDUP POWERMAX	22 FL OZ/A		MP					
	MSO	0.5 % V/V		MP					
	AMS	17 LB AI/100 GAL		MP					
9	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	95	95
	ATRAZINE	1 LB AI/A		MP					
	STATUS	5 OZ WT/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
10	CALLISTO	3 FL OZ/A		MP	0	98	99	95	95
	ATRAZINE	1 LB AI/A		MP					
	COC	1 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
11	IMPACT	1 FL OZ/A		MP	0	99	99	91	93
	ATRAZINE	1 LB AI/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	CHEAL	AMBTR	IPOSS				
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.				
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory				
Crop Code	ZEAMX							
BBCH Scale	BCOR							
Crop Scientific Name	Zea mays							
Crop Name	Corn							
Rating Type	INJURY	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	6	7	8	9	10
12	LAUDIS	3 FL OZ/A	MP	0	98	99	95	96
	ATRAZINE	1 LB AI/A	MP					
	MISO	0.5 % V/V	MP					
	UAN-28%	2.5 % V/V	MP					
	LSD P=.05				1.5		3.5	20.0
	Standard Deviation			0.0	0.9	0.0	2.1	11.8
	CV			0.0	0.99	0.0	2.48	15.03
	Replicate F			0.000	2.200	0.000	1.290	1.319
	Replicate Prob(F)			1.0000	0.1346	1.0000	0.2953	0.2876
	Treatment F			0.000	3018.335	0.000	498.972	20.602
	Treatment Prob(F)			1.0000	0.0001	1.0000	0.0001	0.0001

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15
1	UNTREATED CHECK				0	0	0	0	0
2	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	82	33
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
3	TOLPYRALATE	1.35 FL OZ/A		MP	0	99	99	85	65
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
4	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	88	89
	ATRAZINE	1 LB AI/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
5	TOLPYRALATE	1.35 FL OZ/A		MP	0	99	99	93	95
	ATRAZINE	1 LB AI/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
6	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	92	95
	ATRAZINE	1 LB AI/A		MP					
	DUAL II MAGNUM	1.5 PT/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
7	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	95	95
	ATRAZINE	1 LB AI/A		MP					
	SURPASS NXT	2 PT/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
8	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	93	92
	ATRAZINE	1 LB AI/A		MP					
	ROUNDUP POWERMAX	22 FL OZ/A		MP					
	MSO	0.5 % V/V		MP					
	AMS	17 LB AI/100 GAL		MP					
9	TOLPYRALATE	1 FL OZ/A		MP	0	99	99	95	95
	ATRAZINE	1 LB AI/A		MP					
	STATUS	5 OZ WT/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
10	CALLISTO	3 FL OZ/A		MP	0	98	99	95	95
	ATRAZINE	1 LB AI/A		MP					
	COC	1 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
11	IMPACT	1 FL OZ/A		MP	0	99	99	91	93
	ATRAZINE	1 LB AI/A		MP					
	MSO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	CHEAL	AMBTR	IPOSS					
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.					
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory					
Crop Code	ZEAMX								
BBCH Scale	BCOR								
Crop Scientific Name	Zea mays								
Crop Name	Corn								
Rating Type	INJURY	CONTROL	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK					
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST					
Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
12	LAUDIS	3 FL OZ/A		MP	0	98	99	95	96
	ATRAZINE	1 LB AI/A		MP					
	MISO	0.5 % V/V		MP					
	UAN-28%	2.5 % V/V		MP					
	LSD P=.05					1.5		3.5	20.0
	Standard Deviation				0.0	0.9	0.0	2.1	11.8
	CV				0.0	0.99	0.0	2.48	15.03
	Replicate F				0.000	2.200	0.000	1.290	1.319
	Replicate Prob(F)				1.0000	0.1346	1.0000	0.2953	0.2876
	Treatment F				0.000	3018.335	0.000	498.972	20.602
	Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001	0.0001

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Trt-Eval Interval

Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	19
1	UNTREATED CHECK			7
2	TOLPYRALATE	1 FL OZ/A	MP	152
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
3	TOLPYRALATE	1.35 FL OZ/A	MP	172
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
4	TOLPYRALATE	1 FL OZ/A	MP	184
	ATRAZINE	1 LB AI/A	MP	
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
5	TOLPYRALATE	1.35 FL OZ/A	MP	193
	ATRAZINE	1 LB AI/A	MP	
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
6	TOLPYRALATE	1 FL OZ/A	MP	194
	ATRAZINE	1 LB AI/A	MP	
	DUAL II MAGNUM	1.5 PT/A	MP	
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
7	TOLPYRALATE	1 FL OZ/A	MP	184
	ATRAZINE	1 LB AI/A	MP	
	SURPASS NXT	2 PT/A	MP	
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
8	TOLPYRALATE	1 FL OZ/A	MP	183
	ATRAZINE	1 LB AI/A	MP	
	ROUNDUP POWERMAX	22 FL OZ/A	MP	
	MSO	0.5 % V/V	MP	
	AMS	17 LB AI/100 GAL	MP	
9	TOLPYRALATE	1 FL OZ/A	MP	190
	ATRAZINE	1 LB AI/A	MP	
	STATUS	5 OZ WT/A	MP	
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
10	CALLISTO	3 FL OZ/A	MP	185
	ATRAZINE	1 LB AI/A	MP	
	COC	1 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	
11	IMPACT	1 FL OZ/A	MP	173
	ATRAZINE	1 LB AI/A	MP	
	MSO	0.5 % V/V	MP	
	UAN-28%	2.5 % V/V	MP	

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	
					19
12	LAUDIS	3 FL OZ/A		MP	175
	ATRAZINE	1 LB AI/A		MP	
	MSO	0.5 % V/V		MP	
	UAN-28%	2.5 % V/V		MP	
	LSD P=.05				23.4
	Standard Deviation				13.8
	CV				8.33
	Replicate F				6.913
	Replicate Prob(F)				0.0047
	Treatment F				41.173
	Treatment Prob(F)				0.0001

University of Kentucky

CORN POSTEMERGENCE II

Trial ID: C15011	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: ISK-CORN-CD	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: DENNIS TONKS	

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 CHEAL, *Chenopodium album*, = US
 AMBTR, *Ambrosia trifida*, = US
 IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

ARM Action Codes

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

University of Kentucky

CORN POSTEMERGENCE II

Trial ID: C15011 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: ISK-CORN-CD Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: DENNIS TONKS

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-89 RIB

Planting Rate, Unit: 30000 S/A	Planting Date: 4/29/2015
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
	Emergence Date: 5/5/2015
	Harvest Date: 9/15/2015
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 54 F	Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good	Harvest Equipment: COMBINE
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT² **Treatments:** 12
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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

Application Date: 5/22/2015 **A**
Appl. Start Time: 1:00 PM
Application Method: SPRAY
Application Timing: MP
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 72 F
% Relative Humidity: 35
Wind Velocity, Unit: 8 MPH
Wind Direction: WSW
Soil Temperature, Unit: 59 F
Soil Moisture: GOOD
% Cloud Cover: 10
Next Moisture Occurred On: 5/25/2015

Crop Stage At Each Application

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

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Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 4LF
Height, Unit: 4 IN
Pest 2 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 6LF
Height, Unit: 2 IN
Pest 3 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 5LF
Height, Unit: 4 IN
Pest 4 Code, Type, Scale: IPOSS W
Stage Majority, Percent: 2LF
Height, Unit: 3 IN

Application Equipment

A
Appl. Equipment: ATV
Equipment Type: ALTEVE
Operation Pressure, Unit: 30 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 10 FT
Boom Height, Unit: 30 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume, Unit: 24 GPA
Mix Size, Unit: 3 liters
Propellant: CO2

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CORN POSTEMERGENCE III

Trial ID: C15012 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DOW-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

W Weed	W Weed	W Weed	W Weed	W Weed	
SETFA	CHEAL	AMBTR	IPOSS		
Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.		
Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory		
Pest Type	ZEAMX				ZEAMX
Pest Code	BCOR				BCOR
Pest Scientific Name	Zea mays				Zea mays
Pest Name	Corn				Corn
Crop Code	6/2/2015	6/2/2015	6/2/2015	6/2/2015	6/2/2015
BBCH Scale	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Crop Scientific Name	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop Name	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Rating Date	33 14	33 14	33 14	33 14	33 14
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	33 14	33 14	33 14	33 14	33 14
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	1	2	3
			4	5	6
1 KEYSTONE NXT	2.4 QT/A	PRE	0	99	99
HORNET	3 OZ/A	PRE			99
DURANGO DMA	1 QT/A	MP			99
AMS	2.5 % V/V	MP			99
2 SURESTART II	2.5 PT/A	PRE	0	99	99
AATREX	1 QT/A	PRE			99
DURANGO DMA	1 QT/A	MP			99
AMS	2.5 % V/V	MP			99
3 SURESTART II	2 PT/A	EP	0	96	99
DURANGO DMA	1 QT/A	EP			96
AMS	2.5 % V/V	EP			94
4 GF-3471	2.5 QT/A	PRE	0	99	99
AATREX	1 QT/A	PRE			99
DURANGO DMA	1 QT/A	MP			99
AMS	2.5 % V/V	MP			99
5 GF-3471	1.5 QT/A	PRE	0	99	99
AATREX	1 QT/A	PRE			99
GF-3471	1.25 QT/A	MP			99
AATREX	1 QT/A	MP			99
DURANGO DMA	1 QT/A	MP			99
AMS	2.5 % V/V	MP			99
6 CHECK			0	0	0
LSD P=.05				3.9	3.9
Standard Deviation			0.0	2.1	2.1
CV			0.0	2.59	2.59
Replicate F			0.000	1.000	1.000
Replicate Prob(F)			1.0000	0.4019	0.4019
Treatment F			0.000	1076.800	1076.800
Treatment Prob(F)			1.0000	0.0001	0.0001

Could not calculate LSD (% mean diff) for columns 1,3,6,8,11,13 because error mean square = 0.

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Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
	Pest Type			W Weed	W Weed	W Weed	W Weed		W Weed
	Pest Code			SETFA	CHEAL	AMBTR	IPOSS		SETFA
	Pest Scientific Name			Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.		Setaria faberi
	Pest Name			Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory		Giant foxtail
	Crop Code							ZEAMX	
	BBCH Scale							BCOR	
	Crop Scientific Name							Zea mays	
	Crop Name							Corn	
	Rating Date			6/16/2015	6/16/2015	6/16/2015	6/16/2015	7/14/2015	7/14/2015
	Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
	Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Timing			4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
	Days After First/Last Applic.			47 28	47 28	47 28	47 28	75 56	75 56
	Trt-Eval Interval			AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
	Plant-Eval Interval			48 DP-1	48 DP-1	48 DP-1	48 DP-1	76 DP-1	76 DP-1
	Days After Emergence			42 DE-1	42 DE-1	42 DE-1	42 DE-1	70 DE-1	70 DE-1
1	KEYSTONE NXT	2.4 QT/A	PRE	99	99	90	91	0	99
	HORNET	3 OZ/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
2	SURESTART II	2.5 PT/A	PRE	99	99	99	95	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	96	99	80	78	0	96
	DURANGO DMA	1 QT/A	EP						
	AMS	2.5 % V/V	EP						
4	GF-3471	2.5 QT/A	PRE	99	99	95	99	0	99
	AATREX	1 QT/A	PRE						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
5	GF-3471	1.5 QT/A	PRE	99	99	99	99	0	99
	AATREX	1 QT/A	PRE						
	GF-3471	1.25 QT/A	MP						
	AATREX	1 QT/A	MP						
	DURANGO DMA	1 QT/A	MP						
	AMS	2.5 % V/V	MP						
6	CHECK			0	0	0	0	0	0
	LSD P=.05			3.9	.	3.0	4.9	.	3.9
	Standard Deviation			2.1	0.0	1.6	2.7	0.0	2.1
	CV			2.59	0.0	2.14	3.51	0.0	2.59
	Replicate F			1.000	0.000	1.000	0.708	0.000	1.000
	Replicate Prob(F)			0.4019	1.0000	0.4019	0.5158	1.0000	0.4019
	Treatment F			1076.800	0.000	1632.670	608.785	0.000	1076.800
	Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	IPOSS	
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Common lambsqu>	Giant ragweed	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	7/14/2015	7/14/2015	7/14/2015	9/15/2015
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	75 56	75 56	75 56	138 119
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	
Plant-Eval Interval	76 DP-1	76 DP-1	76 DP-1	139 DP-1
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	133 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	19
1	KEYSTONE NXT	2.4 QT/A	PRE	99	90	91	195
	HORNET	3 OZ/A	PRE				
	DURANGO DMA	1 QT/A	MP				
	AMS	2.5 % V/V	MP				
2	SURESTART II	2.5 PT/A	PRE	99	99	95	194
	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	80	78	166
	DURANGO DMA	1 QT/A	EP				
	AMS	2.5 % V/V	EP				
4	GF-3471	2.5 QT/A	PRE	99	95	99	203
	AATREX	1 QT/A	PRE				
	DURANGO DMA	1 QT/A	MP				
	AMS	2.5 % V/V	MP				
5	GF-3471	1.5 QT/A	PRE	99	99	99	196
	AATREX	1 QT/A	PRE				
	GF-3471	1.25 QT/A	MP				
	AATREX	1 QT/A	MP				
	DURANGO DMA	1 QT/A	MP				
	AMS	2.5 % V/V	MP				
6	CHECK			0	0	0	24
LSD P=.05					3.0	4.9	28.6
Standard Deviation				0.0	1.6	2.7	15.7
CV				0.0	2.14	3.51	9.64
Replicate F				0.000	1.000	0.708	0.553
Replicate Prob(F)				1.0000	0.4019	0.5158	0.5918
Treatment F				0.000	1632.670	608.785	58.449
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001

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CORN POSTEMERGENCE III

Trial ID: C15012 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DOW-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = US
 IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

Plant-Eval Interval

34 DP-1 = 1 ZEAMX 4/29/2015
 48 DP-1 = 1 ZEAMX 4/29/2015
 76 DP-1 = 1 ZEAMX 4/29/2015
 139 DP-1 = 1 ZEAMX 4/29/2015

ARM Action Codes

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

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CORN POSTEMERGENCE III

Trial ID: C15012 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DOW-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-89 RIB

Planting Rate, Unit: 30000 S/A	Planting Date: 4/29/2015
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
	Emergence Date: 5/5/2015
	Harvest Date: 9/15/2015
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 54 F	Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good	Harvest Equipment: COMBINE
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	4/30/2015	5/15/2015	5/19/2015
Appl. Start Time:	9:00 AM	10:00 AM	
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	S LAWSON	C H SLACK
Air Temperature, Unit:	52 F	70 F	74 F
% Relative Humidity:	80	46	46
Wind Velocity, Unit:	6 MPH	8 MPH	8 MPH
Wind Direction:	SE	W	WNW
Soil Temperature, Unit:	55 F	61 F	65 F
Soil Moisture:	GOOD	DRY	EXCELL
% Cloud Cover:	10	10	20
Next Moisture Occurred On:	4/30/2015	5/16/2015	5/25/2015

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:	4 IN	5 IN	5 IN

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Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	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 POSTMERGENCE IV

Trial ID: C15014
Protocol ID: SYN-CORN-PRE
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: SCOTT CULLY

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6/2/2015	6/2/2015	6/2/2015	6/2/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	33 6	33 6	33 6	33 6
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
1	ACURON	2.5 QT/A	PRE	0	96	99	57	53
2	ACURON	1.5 QT/A	PRE	0	99	99	90	99
	HALEX GT	3.6 PT/A	12C					
	AATREX	1 QT/A	12C					
	AMS	1 % W/V	12C					
	NIS	0.25 % V/V	12C					
3	ACURON	1.5 QT/A	PRE	0	99	99	99	99
	ACURON	1.5 QT/A	12C					
4	ACURON	1.5 QT/A	PRE	0	99	99	99	99
	ACURON	1.5 QT/A	12C					
	TOUCHDOWN TOTAL	32 FL OZ/A	12C					
5	STALWART XTRA LITE	2.1 QT/A	PRE	0	99	99	89	99
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	ANTHEM MAXX	4 OZ/A	V4	0	99	99	99	99
	AATREX	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
7	SOLSTICE	2.5 OZ/A	V4	0	99	99	99	99
	AATREX	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
8	LEADOFF		PRE	0	99	99	99	99
	AATREX	1 QT/A	PRE					
	REALM Q		MP					
	ABUNDIT S	32 FL OZ/A	MP					
	AATREX	1.5 QT/A	MP					
	NIS	0.25 % V/V	MP					
9	REALM Q		EP	0	99	99	99	99
	ABUNDIT S	32 FL OZ/A	EP					
	AATREX	1.5 QT/A	EP					
	NIS	0.25 % V/V	EP					
10	KEYSTONE NXT	2.4 QT/A	PRE	0	99	99	99	99
	HORNET	3 OZ/A	PRE					
	DURANGO DMA	1 QT/A	MP					
	AMS	2.5 % V/V	MP					
11	SURESTART II	2.5 PT/A	PRE	0	99	99	99	99
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	MP					
	AMS	2.5 % V/V	MP					

Could not calculate LSD (% mean diff) for columns 1,3,6,8,11,13 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6/2/2015	6/2/2015	6/2/2015	6/2/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	33 6	33 6	33 6	33 6
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1

Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	1	2	3	4	5
12	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	AATREX	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5					
	CAPRENO HERBICIDE	3 OZ/A	V5					
	DIFLEXX	8 OZ/A	V5					
	AATREX	2 PT/A	V5					
	MSO	0.5 % V/V	V5					
	AMS	3.7 % V/V	V5					
13	ZIDUA	5 OZ/A	PRE	0	99	99	99	99
	SHARPEN	2 OZ/A	PRE					
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	STATUS	5 OZ/A	6-10°C					
	ATRAZINE	32 FL OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
14	VERDICT	18 FL OZ/A	PRE	0	99	99	99	99
	MSO	1 % V/V	PRE					
	AMS	8.5 LB AI/100 GAL	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	6-10°C					
	STATUS	5 OZ/A	6-10°C					
	ZIDUA	5 OZ/A	6-10°C					
	NIS	0.25 % V/V	6-10°C					
	AMS	8.5 LB AI/100 GAL	6-10°C					
LSD P=.05				.	1.0	.	2.6	2.6
Standard Deviation				0.0	0.6	0.0	1.6	1.5
CV				0.0	0.62	0.0	1.65	1.61
Replicate F				0.000	1.000	0.000	1.210	1.000
Replicate Prob(F)				1.0000	0.3816	1.0000	0.3144	0.3816
Treatment F				0.000	4.000	0.000	161.592	187.690
Treatment Prob(F)				1.0000	0.0013	1.0000	0.0001	0.0001

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	6/16/2015	6/16/2015	6/16/2015	6/16/2015	6/16/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	47 20	47 20	47 20	47 20	47 20
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1

Trt No.	Treatment Name	Rate Unit	Growth Stage	6	7	8	9	10
1	ACURON	2.5 QT/A	PRE	0	99	99	47	50
2	ACURON	1.5 QT/A	PRE	0	99	99	93	98
	HALEX GT	3.6 PT/A	12C					
	AATREX	1 QT/A	12C					
	AMS	1 % W/V	12C					
	NIS	0.25 % V/V	12C					
3	ACURON	1.5 QT/A	PRE	0	72	99	90	90
	ACURON	1.5 QT/A	12C					
4	ACURON	1.5 QT/A	PRE	0	99	99	95	95
	ACURON	1.5 QT/A	12C					
	TOUCHDOWN TOTAL	32 FL OZ/A	12C					
5	STALWART XTRA LITE	2.1 QT/A	PRE	0	99	99	88	93
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	ANTHEM MAXX	4 OZ/A	V4	0	99	99	90	92
	AATREX	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
7	SOLSTICE	2.5 OZ/A	V4	0	96	99	92	99
	AATREX	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
8	LEADOFF		PRE	0	99	99	92	99
	AATREX	1 QT/A	PRE					
	REALM Q		MP					
	ABUNDIT S	32 FL OZ/A	MP					
	AATREX	1.5 QT/A	MP					
	NIS	0.25 % V/V	MP					
9	REALM Q		EP	0	99	99	98	96
	ABUNDIT S	32 FL OZ/A	EP					
	AATREX	1.5 QT/A	EP					
	NIS	0.25 % V/V	EP					
10	KEYSTONE NXT	2.4 QT/A	PRE	0	99	99	96	96
	HORNET	3 OZ/A	PRE					
	DURANGO DMA	1 QT/A	MP					
	AMS	2.5 % V/V	MP					
11	SURESTART II	2.5 PT/A	PRE	0	99	99	99	95
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	MP					
	AMS	2.5 % V/V	MP					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6/16/2015	6/16/2015	6/16/2015	6/16/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	47 20	47 20	47 20	47 20
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	6	7	8	9	10
12	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	AATREX	2 PT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		V5					
	CAPRENO HERBICIDE	3 OZ/A		V5					
	DIFLEXX	8 OZ/A		V5					
	AATREX	2 PT/A		V5					
	MSO	0.5 % V/V		V5					
	AMS	3.7 % V/V		V5					
13	ZIDUA	5 OZ/A		PRE	0	99	99	95	99
	SHARPEN	2 OZ/A		PRE					
	MSO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C					
	STATUS	5 OZ/A		6-10°C					
	ATRAZINE	32 FL OZ/A		6-10°C					
	NIS	0.25 % V/V		6-10°C					
	AMS	8.5 LB AI/100 GAL		6-10°C					
14	VERDICT	18 FL OZ/A		PRE	0	99	99	99	99
	MSO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C					
	STATUS	5 OZ/A		6-10°C					
	ZIDUA	5 OZ/A		6-10°C					
	NIS	0.25 % V/V		6-10°C					
	AMS	8.5 LB AI/100 GAL		6-10°C					
	LSD P=.05					2.8		4.7	5.5
	Standard Deviation				0.0	1.6	0.0	2.8	3.2
	CV				0.0	1.69	0.0	3.11	3.5
	Replicate F				0.000	0.142	0.000	1.109	0.334
	Replicate Prob(F)				1.0000	0.8686	1.0000	0.3449	0.7191
	Treatment F				0.000	59.257	0.000	65.830	45.752
	Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	7/14/2015	7/14/2015	7/14/2015	7/14/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	75 48	75 48	75 48	75 48
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	76 DP-1	76 DP-1	76 DP-1	76 DP-1
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	70 DE-1

Trt No.	Treatment Name	Rate Unit	Growth Stage	11	12	13	14	15
1	ACURON	2.5 QT/A	PRE	0	99	99	47	50
2	ACURON	1.5 QT/A	PRE	0	99	99	93	98
	HALEX GT	3.6 PT/A	12C					
	AATREX	1 QT/A	12C					
	AMS	1 % W/V	12C					
	NIS	0.25 % V/V	12C					
3	ACURON	1.5 QT/A	PRE	0	72	99	90	90
	ACURON	1.5 QT/A	12C					
4	ACURON	1.5 QT/A	PRE	0	99	99	95	95
	ACURON	1.5 QT/A	12C					
	TOUCHDOWN TOTAL	32 FL OZ/A	12C					
5	STALWART XTRA LITE	2.1 QT/A	PRE	0	99	99	88	93
	ROUNDUP POWERMAX	32 FL OZ/A	12C					
6	ANTHEM MAXX	4 OZ/A	V4	0	99	99	90	92
	AATREX	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
7	SOLSTICE	2.5 OZ/A	V4	0	96	99	92	99
	AATREX	1 LB AI/A	V4					
	ROUNDUP POWERMAX	22 FL OZ/A	V4					
	COC	1 % V/V	V4					
8	LEADOFF		PRE	0	99	99	92	99
	AATREX	1 QT/A	PRE					
	REALM Q		MP					
	ABUNDIT S	32 FL OZ/A	MP					
	AATREX	1.5 QT/A	MP					
	NIS	0.25 % V/V	MP					
9	REALM Q		EP	0	99	99	98	96
	ABUNDIT S	32 FL OZ/A	EP					
	AATREX	1.5 QT/A	EP					
	NIS	0.25 % V/V	EP					
10	KEYSTONE NXT	2.4 QT/A	PRE	0	99	99	96	96
	HORNET	3 OZ/A	PRE					
	DURANGO DMA	1 QT/A	MP					
	AMS	2.5 % V/V	MP					
11	SURESTART II	2.5 PT/A	PRE	0	99	99	99	95
	AATREX	1 QT/A	PRE					
	DURANGO DMA	1 QT/A	MP					
	AMS	2.5 % V/V	MP					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	7/14/2015	7/14/2015	7/14/2015	7/14/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	75 48	75 48	75 48	75 48
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	76 DP-1	76 DP-1	76 DP-1	76 DP-1
Days After Emergence	70 DE-1	70 DE-1	70 DE-1	70 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
12	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	AATREX	2 PT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		V5					
	CAPRENO HERBICIDE	3 OZ/A		V5					
	DIFLEXX	8 OZ/A		V5					
	AATREX	2 PT/A		V5					
	MSO	0.5 % V/V		V5					
	AMS	3.7 % V/V		V5					
13	ZIDUA	5 OZ/A		PRE	0	99	99	95	99
	SHARPEN	2 OZ/A		PRE					
	MSO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C					
	STATUS	5 OZ/A		6-10°C					
	ATRAZINE	32 FL OZ/A		6-10°C					
	NIS	0.25 % V/V		6-10°C					
	AMS	8.5 LB AI/100 GAL		6-10°C					
14	VERDICT	18 FL OZ/A		PRE	0	99	99	99	99
	MSO	1 % V/V		PRE					
	AMS	8.5 LB AI/100 GAL		PRE					
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C					
	STATUS	5 OZ/A		6-10°C					
	ZIDUA	5 OZ/A		6-10°C					
	NIS	0.25 % V/V		6-10°C					
	AMS	8.5 LB AI/100 GAL		6-10°C					
	LSD P=.05					2.8		4.7	5.5
	Standard Deviation				0.0	1.6	0.0	2.8	3.2
	CV				0.0	1.69	0.0	3.11	3.5
	Replicate F				0.000	0.142	0.000	1.109	0.334
	Replicate Prob(F)				1.0000	0.8686	1.0000	0.3449	0.7191
	Treatment F				0.000	59.257	0.000	65.830	45.752
	Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001	0.0001

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date 9/15/2015
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic. 138 111
 Trt-Eval Interval
 Plant-Eval Interval 139 DP-1
 Days After Emergence 133 DE-1

Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	19
1	ACURON	2.5 QT/A	PRE	94
2	ACURON	1.5 QT/A	PRE	201
	HALEX GT	3.6 PT/A	12C	
	AATREX	1 QT/A	12C	
	AMS	1 % W/V	12C	
	NIS	0.25 % V/V	12C	
3	ACURON	1.5 QT/A	PRE	174
	ACURON	1.5 QT/A	12C	
4	ACURON	1.5 QT/A	PRE	201
	ACURON	1.5 QT/A	12C	
	TOUCHDOWN TOTAL	32 FL OZ/A	12C	
5	STALWART XTRA LITE	2.1 QT/A	PRE	190
	ROUNDUP POWERMAX	32 FL OZ/A	12C	
6	ANTHEM MAXX	4 OZ/A	V4	184
	AATREX	1 LB AI/A	V4	
	ROUNDUP POWERMAX	22 FL OZ/A	V4	
	COC	1 % V/V	V4	
7	SOLSTICE	2.5 OZ/A	V4	208
	AATREX	1 LB AI/A	V4	
	ROUNDUP POWERMAX	22 FL OZ/A	V4	
	COC	1 % V/V	V4	
8	LEADOFF		PRE	203
	AATREX	1 QT/A	PRE	
	REALM Q		MP	
	ABUNDIT S	32 FL OZ/A	MP	
	AATREX	1.5 QT/A	MP	
	NIS	0.25 % V/V	MP	
9	REALM Q		EP	186
	ABUNDIT S	32 FL OZ/A	EP	
	AATREX	1.5 QT/A	EP	
	NIS	0.25 % V/V	EP	
10	KEYSTONE NXT	2.4 QT/A	PRE	185
	HORNET	3 OZ/A	PRE	
	DURANGO DMA	1 QT/A	MP	
	AMS	2.5 % V/V	MP	
11	SURESTART II	2.5 PT/A	PRE	185
	AATREX	1 QT/A	PRE	
	DURANGO DMA	1 QT/A	MP	
	AMS	2.5 % V/V	MP	

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date 9/15/2015
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Days After First/Last Applic. 138 111
 Trt-Eval Interval
 Plant-Eval Interval 139 DP-1
 Days After Emergence 133 DE-1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	
12	CORVUS HERBICIDE	4 OZ/A		PRE	193
	AATREX	2 PT/A		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		V5	
	CAPRENO HERBICIDE	3 OZ/A		V5	
	DIFLEXX	8 OZ/A		V5	
	AATREX	2 PT/A		V5	
	MSO	0.5 % V/V		V5	
	AMS	3.7 % V/V		V5	
13	ZIDUA	5 OZ/A		PRE	186
	SHARPEN	2 OZ/A		PRE	
	MSO	1 % V/V		PRE	
	AMS	8.5 LB AI/100 GAL		PRE	
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C	
	STATUS	5 OZ/A		6-10°C	
	ATRAZINE	32 FL OZ/A		6-10°C	
	NIS	0.25 % V/V		6-10°C	
	AMS	8.5 LB AI/100 GAL		6-10°C	
14	VERDICT	18 FL OZ/A		PRE	188
	MSO	1 % V/V		PRE	
	AMS	8.5 LB AI/100 GAL		PRE	
	ROUNDUP POWERMAX	22 FL OZ/A		6-10°C	
	STATUS	5 OZ/A		6-10°C	
	ZIDUA	5 OZ/A		6-10°C	
	NIS	0.25 % V/V		6-10°C	
	AMS	8.5 LB AI/100 GAL		6-10°C	
	LSD P=.05				15.7
	Standard Deviation				9.3
	CV				5.07
	Replicate F				1.845
	Replicate Prob(F)				0.1781
	Treatment F				26.385
	Treatment Prob(F)				0.0001

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CORN POSTMERGENCE IV

Trial ID: C15014	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: SYN-CORN-PRE	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: SCOTT CULLY	

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 CHEAL, *Chenopodium album*, = US
 AMBTR, *Ambrosia trifida*, = US
 IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

Plant-Eval Interval

34 DP-1 = 1 ZEAMX 4/29/2015
 48 DP-1 = 1 ZEAMX 4/29/2015
 76 DP-1 = 1 ZEAMX 4/29/2015
 139 DP-1 = 1 ZEAMX 4/29/2015

ARM Action Codes

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

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CORN POSTMERGENCE IV

Trial ID: C15014 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: SYN-CORN-PRE Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

<p>Crop 1: ZEAMX Zea mays Corn Variety: DKC 64-89 RIB</p>	<p>Planting Rate, Unit: 30000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN</p> <p>Soil Temperature, Unit: 59 F Soil Moisture: GOOD good Seed Bed: MEDIUM medium</p>	<p>Planting Date: 4/29/2015 Planting Method: PLANTD planted Planting Equipment: FE Field Equipment Emergence Date: 5/5/2015 Harvest Date: 9/15/2015 Harvested Width, Unit: 5 FT Harvested Length, Unit: 38 FT Harvest Equipment: COMBINE % Standard Moisture: 15.5</p>
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Pest Description

- Pest 1 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest 2 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C	D	E
Application Date:	4/30/2015	5/15/2015	5/19/2015	5/22/2015	5/27/2015
Appl. Start Time:	9:00 AM	10:00 AM	1:30 PM	1:00 PM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	V4/6-10°C	V5/12C
Application Placement:	BROSOI	BANFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	S LAWSON	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	70 F	74 F	72 F	76 F
% Relative Humidity:	80	46	46	35	70
Wind Velocity, Unit:	6 MPH	8 MPH	8 MPH	8 MPH	9 MPH
Wind Direction:	SE	W	WNW	WSW	W
Soil Temperature, Unit:	55 F	61 F	65 F	60 F	67 F
Soil Moisture:	GOOD	DRY	EXCELL	GOOD	EXCELL
% Cloud Cover:	10	10		10	10
Next Moisture Occurred On:	4/30/2015	5/16/2015	5/25/2015	5/25/2015	5/27/2015

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			V3	V4	V5
Height, Unit:			8 IN	10 IN	12 IN

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Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:			2LF		4LF
Height, Unit:		2 IN	2 IN	3 IN	4 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:			6LF		8LF
Height, Unit:		2 IN	2 IN	3 IN	4 IN
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:			4 LF		7LF
Height, Unit:		2 IN	3 IN	4 IN	6 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:			2LF		3LF
Height, Unit:		1.5 IN	2 IN	2.5 IN	4 IN

Application Equipment

	A	B	C	D	E
Appl. Equipment:	ATV	ATV	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2	CO2	CO2

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CORN POSTEMERGENCE V

Trial ID: C15015 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: SYN-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	CHEAL	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	
Crop Code		ZEAMX				ZEAMX
BBCH Scale		BCOR				BCOR
Crop Scientific Name		Zea mays				Zea mays
Crop Name		Corn				Corn
Rating Date		6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/24/2015
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.		41 14	41 14	41 14	41 14	55 28
Trt-Eval Interval		AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval		42 DP-1	42 DP-1	42 DP-1	42 DP-1	56 DP-1
Days After Emergence		36 DE-1	36 DE-1	36 DE-1	36 DE-1	50 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED CHECK				0	0	0	0	0	0
2	ACURON	2.5 QT/A		PRE	0	99	95	85	85	0
3	ACURON	2.5 QT/A		PRE	0	99	99	88	90	0
	AATREX	1 QT/A		PRE						
4	ACURON	2.5 QT/A		PRE	0	99	99	99	99	0
	N-PAK AMS LIQUID	2.5 % V/V		12C						
	STATUS	5 OZ WT/A		12C						
	TOUCHDOWN TOTAL	30 FL OZ/A		12C						
5	RESOLVE Q			PRE	0	99	50	50	50	0
	REALM Q	4 OZ/A		12C						
6	SURESTART II	3 PT/A		PRE	0	99	99	23	30	0
	AATREX	1 QT/A		PRE						
7	VERDICT	0.5 PT/A		PRE	0	99	99	99	99	0
	ZIDUA	1 OZ/A		12C						
	STATUS	2.5 OZ/A		12C						
	ROUNDUP POWERMAX	32 FL OZ/A		12C						
8	CORVUS HERBICIDE	5.6 OZ/A		PRE	0	99	85	70	70	0
	AATREX	1 QT/A		PRE						
9	CORVUS HERBICIDE	3.3 OZ/A		PRE	0	99	99	99	99	0
	AATREX	1 QT/A		PRE						
	CAPRENO HERBICIDE	3 OZ/A		12C						
	AATREX	1 QT/A		12C						
	ROUNDUP POWERMAX	32 FL OZ/A		12C						
10	ACURON	2.5 QT/A		PRE	0	99	99	99	95	0
	PRINCEP	1 QT/A		PRE						
11	ACURON	1.25 QT/A		PRE	0	99	99	95	95	0
	N-PAK AMS LIQUID	2.5 % V/V		12C						
	ACURON	1.25 QT/A		12C						
	NIS	0.25 % V/V		12C						
12	ACURON	1.25 QT/A		PRE	0	99	95	95	99	0
	N-PAK AMS LIQUID	2.5 % V/V		12C						
	HALEX GT	3.6 PT/A		12C						
	AATREX	1.5 PT/A		12C						
	NIS	0.25 % V/V		12C						
LSD P=.05					.	.	.	2.8	.	.
Standard Deviation					0.0	0.0	0.0	1.7	0.0	0.0
CV					0.0	0.0	0.0	2.22	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	0.3840	1.0000	1.0000
Treatment F					0.000	0.000	0.000	1209.305	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 1,2,3,5,6,11 because error mean square = 0.

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12
	Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed
	Pest Code				SETFA	CHEAL	AMBTR	IPOSS		SETFA
	Pest Scientific Name				Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.		Setaria faberi
	Pest Name				Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory		Giant foxtail
	Crop Code									
	BBCH Scale									
	Crop Scientific Name									
	Crop Name									
	Rating Date				6/24/2015	6/24/2015	6/24/2015	6/24/2015	7/22/2015	7/22/2015
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Timing				4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
	Days After First/Last Applic.				55 28	55 28	55 28	55 28	83 56	83 56
	Trt-Eval Interval				AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
	Plant-Eval Interval				56 DP-1	56 DP-1	56 DP-1	56 DP-1	84 DP-1	84 DP-1
	Days After Emergence				50 DE-1	50 DE-1	50 DE-1	50 DE-1	78 DE-1	78 DE-1
	Trt Treatment									
	No. Name									
1	UNTREATED CHECK				0	0	0	0	0	0
2	ACURON	2.5	QT/A	PRE	99	95	82	82	0	99
3	ACURON	2.5	QT/A	PRE	96	99	82	88	0	96
	AATREX	1	QT/A	PRE						
4	ACURON	2.5	QT/A	PRE	99	99	99	99	0	99
	N-PAK AMS LIQUID	2.5 %	V/V	12C						
	STATUS	5	OZ WT/A	12C						
	TOUCHDOWN TOTAL	30	FL OZ/A	12C						
5	RESOLVE Q			PRE	99	47	53	53	0	99
	REALM Q	4	OZ/A	12C						
6	SURESTART II	3	PT/A	PRE	99	99	23	30	0	99
	AATREX	1	QT/A	PRE						
7	VERDICT	0.5	PT/A	PRE	99	99	96	99	0	99
	ZIDUA	1	OZ/A	12C						
	STATUS	2.5	OZ/A	12C						
	ROUNDUP POWERMAX	32	FL OZ/A	12C						
8	CORVUS HERBICIDE	5.6	OZ/A	PRE	99	85	70	70	0	99
	AATREX	1	QT/A	PRE						
9	CORVUS HERBICIDE	3.3	OZ/A	PRE	99	99	96	93	0	99
	AATREX	1	QT/A	PRE						
	CAPRENO HERBICIDE	3	OZ/A	12C						
	AATREX	1	QT/A	12C						
	ROUNDUP POWERMAX	32	FL OZ/A	12C						
10	ACURON	2.5	QT/A	PRE	99	99	81	92	0	99
	PRINCEP	1	QT/A	PRE						
11	ACURON	1.25	QT/A	PRE	98	99	95	95	0	98
	N-PAK AMS LIQUID	2.5 %	V/V	12C						
	ACURON	1.25	QT/A	12C						
	NIS	0.25 %	V/V	12C						
12	ACURON	1.25	QT/A	PRE	99	95	96	99	0	99
	N-PAK AMS LIQUID	2.5 %	V/V	12C						
	HALEX GT	3.6	PT/A	12C						
	AATREX	1.5	PT/A	12C						
	NIS	0.25 %	V/V	12C						
	LSD P=.05				2.7	2.8	9.4	8.6	.	2.7
	Standard Deviation				1.6	1.7	5.5	5.1	0.0	1.6
	CV				1.75	1.97	7.6	6.73	0.0	1.75
	Replicate F				1.868	1.000	0.166	0.436	0.000	1.868
	Replicate Prob(F)				0.1781	0.3840	0.8483	0.6523	1.0000	0.1781
	Treatment F				968.414	1007.746	99.618	118.784	0.000	968.414
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	IPOSS	
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Common lambsqu>	Giant ragweed	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	7/22/2015	7/22/2015	7/22/2015	9/15/2015
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	83 56	83 56	83 56	138 111
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	139 DP-1
Days After Emergence	78 DE-1	78 DE-1	78 DE-1	133 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	13	14	15	19
1	UNTREATED CHECK				0	0	0	5
2	ACURON	2.5	QT/A	PRE	95	82	82	140
3	ACURON	2.5	QT/A	PRE	99	82	88	174
	AATREX	1	QT/A	PRE				
4	ACURON	2.5	QT/A	PRE	99	99	99	201
	N-PAK AMS LIQUID	2.5 %	V/V	12C				
	STATUS	5	OZ WT/A	12C				
	TOUCHDOWN TOTAL	30	FL OZ/A	12C				
5	RESOLVE Q			PRE	47	53	53	109
	REALM Q	4	OZ/A	12C				
6	SURESTART II	3	PT/A	PRE	99	23	30	98
	AATREX	1	QT/A	PRE				
7	VERDICT	0.5	PT/A	PRE	99	96	99	186
	ZIDUA	1	OZ/A	12C				
	STATUS	2.5	OZ/A	12C				
	ROUNDUP POWERMAX	32	FL OZ/A	12C				
8	CORVUS HERBICIDE	5.6	OZ/A	PRE	85	70	70	103
	AATREX	1	QT/A	PRE				
9	CORVUS HERBICIDE	3.3	OZ/A	PRE	99	96	93	179
	AATREX	1	QT/A	PRE				
	CAPRENO HERBICIDE	3	OZ/A	12C				
	AATREX	1	QT/A	12C				
	ROUNDUP POWERMAX	32	FL OZ/A	12C				
10	ACURON	2.5	QT/A	PRE	99	81	92	140
	PRINCEP	1	QT/A	PRE				
11	ACURON	1.25	QT/A	PRE	99	95	95	172
	N-PAK AMS LIQUID	2.5 %	V/V	12C				
	ACURON	1.25	QT/A	12C				
	NIS	0.25 %	V/V	12C				
12	ACURON	1.25	QT/A	PRE	95	96	99	199
	N-PAK AMS LIQUID	2.5 %	V/V	12C				
	HALEX GT	3.6	PT/A	12C				
	AATREX	1.5	PT/A	12C				
	NIS	0.25 %	V/V	12C				
	LSD P=.05				2.8	9.4	8.6	29.9
	Standard Deviation				1.7	5.5	5.1	17.7
	CV				1.97	7.6	6.73	12.43
	Replicate F				1.000	0.166	0.436	2.540
	Replicate Prob(F)				0.3840	0.8483	0.6523	0.1017
	Treatment F				1007.746	99.618	118.784	30.803
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001

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CORN POSTEMERGENCE V

Trial ID: C15015 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: SYN-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = US
 IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

Plant-Eval Interval

42 DP-1 = 1 ZEAMX 4/29/2015
 56 DP-1 = 1 ZEAMX 4/29/2015
 84 DP-1 = 1 ZEAMX 4/29/2015
 139 DP-1 = 1 ZEAMX 4/29/2015

ARM Action Codes

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

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CORN POSTEMERGENCE V

Trial ID: C15015 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: SYN-CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC 64-89 RIB		
Planting Rate, Unit: 30000 S/A	Planting Date: 4/29/2015	Planting Method: PLANTD planted
Depth, Unit: 1.5 IN	Planting Equipment: FE	Field Equipment
Row Spacing, Unit: 30 IN	Emergence Date: 5/5/2015	Harvest Date: 9/15/2015
	Harvested Width, Unit: 5 FT	
Soil Temperature, Unit: 55 F	Harvested Length, Unit: 38 FT	
Soil Moisture: GOOD good	Harvest Equipment: COMBINE	
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	4/30/2015	5/27/2015
Appl. Start Time:	9:00 AM	10:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	76 F
% Relative Humidity:	80	50
Wind Velocity, Unit:	6 MPH	9 MPH
Wind Direction:	SE	W
Soil Temperature, Unit:	55 F	67 F
Soil Moisture:	GOOD	EXCELL
% Cloud Cover:	10	10
Next Moisture Occurred On:	4/30/2015	5/27/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		V5
Height, Unit:		12 IN

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		4LF
Height, Unit:		4 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		8LD
Height, Unit:		4 IN
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		6LF
Height, Unit:		6 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:		3LF
Height, Unit:		4 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters
Propellant:	CO2	CO2

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CORN POSTEMERGENCE VI

Trial ID: C15016 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: FMC CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Scientific Name	Zea mays				Zea mays
Crop Name	Corn				Corn
Rating Date	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.	36 14	36 14	36 14	36 14	36 14
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6
1	CHECK				0	0	0	0	0	0
2	ANTHEM MAXX	3 OZ/A		PRE	0	99	99	33	70	0
3	ANTHEM MAXX	4 OZ/A		PRE	0	99	99	30	70	0
4	DUAL II MAGNUM	1.3 PT/A		PRE	0	99	99	20	20	0
5	ANTHEM MAXX	3 OZ/A		PRE	0	99	99	99	99	0
	SOLSTICE	2.5 OZ/A		V4						
	AATREX	1 LB AI/A		V4						
	ROUNDUP POWERMAX	22 OZ/A		V4						
	COC	1 % V/V		V4						
6	ANTHEM MAXX	4 OZ/A		PRE	0	99	99	99	99	0
	SOLSTICE	2.5 OZ/A		V4						
	AATREX	1 LB AI/A		V4						
	ROUNDUP POWERMAX	22 OZ/A		V4						
	COC	1 % V/V		V4						
7	ANTHEM MAXX	4 OZ/A		V4	0	99	99	99	99	0
	AATREX	1 LB AI/A		V4						
	COC	1 % V/V		V4						
8	ANTHEM MAXX	4 OZ/A		V4	0	99	99	99	99	0
	AATREX	1 LB AI/A		V4						
	ROUNDUP POWERMAX	22 OZ/A		V4						
	COC	1 % V/V		V4						
9	SOLSTICE	3.15 OZ/A		V4	0	99	99	99	99	0
	ROUNDUP POWERMAX	22 OZ/A		V4						
	COC	1 % V/V		V4						
10	SOLSTICE	2.5 OZ/A		V4	0	99	99	99	99	0
	AATREX	1 LB AI/A		V4						
	ROUNDUP POWERMAX	22 OZ/A		V4						
	COC	1 % V/V		V4						
11	SOLSTICE	2.5 OZ/A		V4	0	99	99	99	99	0
	ANTHEM	2 OZ/A		V4						
	AATREX	1 LB AI/A		V4						
	ROUNDUP POWERMAX	22 OZ/A		V4						
	COC	1 % V/V		V4						
12	LEXAR	96 OZ/A		V4	0	94	99	99	99	0
	COC	1 % V/V		V4						
13	HALEX GT	3.6 PT/A		V4	0	94	99	99	99	0
	COC	1 % V/V		V4						
14	CHECK				0	0	0	0	0	0
LSD P=.05					.	4.9	.	2.6	.	.
Standard Deviation					0.0	2.9	0.0	1.5	0.0	0.0
CV					0.0	3.49	0.0	2.22	0.0	0.0
Replicate F					0.000	2.167	0.000	1.000	0.000	0.000
Replicate Prob(F)					1.0000	0.1348	1.0000	0.3816	1.0000	1.0000
Treatment F					0.000	443.975	0.000	2210.927	0.000	0.000
Treatment Prob(F)					1.0000	0.0001	1.0000	0.0001	1.0000	1.0000

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	CHEAL	AMBTR	IPOSS	SETFA			
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi			
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail			
Crop Code					ZEAMX			
BBCH Scale					BCOR			
Crop Scientific Name					Zea mays			
Crop Name					Corn			
Rating Date	6/19/2015	6/19/2015	6/19/2015	6/19/2015	7/17/2015			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
Days After First/Last Applic.	50 28	50 28	50 28	50 28	78 56			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	79 DP-1			
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	73 DE-1			
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	7	8	9	10	11	12
1 CHECK			0	0	0	0	0	0
2 ANTHEM MAXX	3 OZ/A	PRE	99	95	27	70	0	99
3 ANTHEM MAXX	4 OZ/A	PRE	99	99	23	70	0	99
4 DUAL II MAGNUM	1.3 PT/A	PRE	99	99	20	20	0	99
5 ANTHEM MAXX	3 OZ/A	PRE	99	99	93	99	0	99
SOLSTICE	2.5 OZ/A	V4						
AATREX	1 LB AI/A	V4						
ROUNDUP POWERMAX	22 OZ/A	V4						
COC	1 % V/V	V4						
6 ANTHEM MAXX	4 OZ/A	PRE	99	99	93	95	0	99
SOLSTICE	2.5 OZ/A	V4						
AATREX	1 LB AI/A	V4						
ROUNDUP POWERMAX	22 OZ/A	V4						
COC	1 % V/V	V4						
7 ANTHEM MAXX	4 OZ/A	V4	99	99	90	93	0	99
AATREX	1 LB AI/A	V4						
COC	1 % V/V	V4						
8 ANTHEM MAXX	4 OZ/A	V4	99	99	93	96	0	99
AATREX	1 LB AI/A	V4						
ROUNDUP POWERMAX	22 OZ/A	V4						
COC	1 % V/V	V4						
9 SOLSTICE	3.15 OZ/A	V4	98	99	93	96	0	98
ROUNDUP POWERMAX	22 OZ/A	V4						
COC	1 % V/V	V4						
10 SOLSTICE	2.5 OZ/A	V4	99	99	95	99	0	99
AATREX	1 LB AI/A	V4						
ROUNDUP POWERMAX	22 OZ/A	V4						
COC	1 % V/V	V4						
11 SOLSTICE	2.5 OZ/A	V4	99	99	93	96	0	99
ANTHEM	2 OZ/A	V4						
AATREX	1 LB AI/A	V4						
ROUNDUP POWERMAX	22 OZ/A	V4						
COC	1 % V/V	V4						
12 LEXAR	96 OZ/A	V4	86	99	99	99	0	86
COC	1 % V/V	V4						
13 HALEX GT	3.6 PT/A	V4	94	99	95	96	0	94
COC	1 % V/V	V4						
14 CHECK			0	0	0	0	0	0
LSD P=.05			7.2	2.8	5.3	2.5	.	7.2
Standard Deviation			4.3	1.7	3.2	1.5	0.0	4.3
CV			5.17	2.01	4.86	2.01	0.0	5.17
Replicate F			2.320	1.000	1.616	0.532	0.000	2.320
Replicate Prob(F)			0.1182	0.3816	0.2181	0.5936	1.0000	0.1182
Treatment F			203.812	1338.539	486.121	1956.090	0.000	203.812
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	IPOSS	
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Common lambsqu>	Giant ragweed	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	7/17/2015	7/17/2015	7/17/2015	9/15/2015
Rating Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.	78 56	78 56	78 56	138 116
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	
Plant-Eval Interval	79 DP-1	79 DP-1	79 DP-1	139 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1	133 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	13	14	15	20
		Rate Unit					
1	CHECK			0	0	0	4
2	ANTHEM MAXX	3 OZ/A	PRE	95	27	70	4
3	ANTHEM MAXX	4 OZ/A	PRE	99	23	70	5
4	DUAL II MAGNUM	1.3 PT/A	PRE	99	20	20	8
5	ANTHEM MAXX	3 OZ/A	PRE	99	93	99	196
	SOLSTICE	2.5 OZ/A	V4				
	AATREX	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 OZ/A	V4				
	COC	1 % V/V	V4				
6	ANTHEM MAXX	4 OZ/A	PRE	99	93	95	181
	SOLSTICE	2.5 OZ/A	V4				
	AATREX	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 OZ/A	V4				
	COC	1 % V/V	V4				
7	ANTHEM MAXX	4 OZ/A	V4	99	90	93	158
	AATREX	1 LB AI/A	V4				
	COC	1 % V/V	V4				
8	ANTHEM MAXX	4 OZ/A	V4	99	93	96	167
	AATREX	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 OZ/A	V4				
	COC	1 % V/V	V4				
9	SOLSTICE	3.15 OZ/A	V4	99	93	96	181
	ROUNDUP POWERMAX	22 OZ/A	V4				
	COC	1 % V/V	V4				
10	SOLSTICE	2.5 OZ/A	V4	99	95	99	181
	AATREX	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 OZ/A	V4				
	COC	1 % V/V	V4				
11	SOLSTICE	2.5 OZ/A	V4	99	93	96	186
	ANTHEM	2 OZ/A	V4				
	AATREX	1 LB AI/A	V4				
	ROUNDUP POWERMAX	22 OZ/A	V4				
	COC	1 % V/V	V4				
12	LEXAR	96 OZ/A	V4	99	99	99	184
	COC	1 % V/V	V4				
13	HALEX GT	3.6 PT/A	V4	99	95	96	183
	COC	1 % V/V	V4				
14	CHECK			0	0	0	6
LSD P=.05				2.8	5.3	2.5	7.9
Standard Deviation				1.7	3.2	1.5	4.7
CV				2.01	4.86	2.01	4.01
Replicate F				1.000	1.616	0.532	0.456
Replicate Prob(F)				0.3816	0.2181	0.5936	0.6390
Treatment F				1338.539	486.121	1956.090	1026.109
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001

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CORN POSTEMERGENCE VI

Trial ID: C15016	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: FMC CORN	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: RUSTY MITCHELL	

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = US
 IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

Plant-Eval Interval

37 DP-1 = 1 ZEAMX 4/29/2015
 51 DP-1 = 1 ZEAMX 4/29/2015
 79 DP-1 = 1 ZEAMX 4/29/2015
 139 DP-1 = 1 ZEAMX 4/29/2015

ARM Action Codes

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

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CORN POSTEMERGENCE VI

Trial ID: C15016 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: FMC CORN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-89 RIB

Planting Rate, Unit: 30000 S/A	Planting Date: 4/29/2015
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
	Emergence Date: 5/5/2015
	Harvest Date: 9/15/2015
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 55 F	Harvested Length, Unit: 38 FT
Soil Moisture: GOOD good	Harvest Equipment: COMBINE
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

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

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	4/30/2015	5/22/2015
Appl. Start Time:	9:00 AM	1:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V4
Application Placement:	BROSOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	72 F
% Relative Humidity:	80	35
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	SE	WSW
Soil Temperature, Unit:	55 F	59 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	10
Next Moisture Occurred On:	4/30/2015	5/25/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V4 95
Height, Unit:		10 IN

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Pest Stage At Each Application

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

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CORN POSTEMERGENCE VII

Trial ID: C15017	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: DUP-15-908	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: KELLY BACKSCHEIDER	

Ttr No.	Treatment Name	Rate Rate Unit	Growth Stage	W Weed						
				1	2	3	4	5	6	
				SETFA		CHEAL		AMBTR		IPOSS
				Setaria faberi		Chenopodium al>		Ambrosia trifi>		Ipomoea sp.
				Giant foxtail		Common lambsqu>		Giant ragweed		Morning glory
			ZEAMX							ZEAMX
			BCOR							BCOR
			Zea mays							Zea mays
			Corn							Corn
			INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
			AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST

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

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	CHEAL	AMBTR	IPOSS					
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.					
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory					
Crop Code	ZEAMX				ZEAMX				
BBCH Scale	BCOR				BCOR				
Crop Scientific Name	Zea mays				Zea mays				
Crop Name	Corn				Corn				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6
10	CINCH ATZ	1 QT/A	PRE	0	99	99	99	99	0
	RESOLVE Q		V4						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						
11	HALEX GT	3.6 PT/A	V2	0	99	99	99	99	0
	AATREX	1 QT/A	V2						
	NIS	0.25 % V/V	V2						
12	CAPRENO HERBICIDE	3 OZ/A	V2	0	99	99	99	99	0
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
13	BICEP II MAGNUM	1 QT/A	PRE	0	99	99	99	99	0
	HALEX GT	3.6 PT/A	V2						
	AATREX	1 QT/A	V2						
	NIS	0.25 % V/V	V2						
14	CORVUS HERBICIDE	4.5 FL OZ/A	PRE	0	99	99	99	99	0
	CAPRENO HERBICIDE	3 FL OZ/A	V2						
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
15	AATREX	1.5 QT/A	PRE	0	99	99	99	99	0
	CINCH	1 PT/A	PRE						
	ABUNDIT S	32 FL OZ/A	PRE						
	AATREX	1.5 QT/A	V2						
	ABUNDIT S	32 FL OZ/A	V2						
16	LEXAR	3 QT/A	PRE	0	99	99	70	83	0
17	UNTREATED CHECK			0	0	0	0	0	0
18	CHECK			0	0	0	0	0	0
	LSD P=.05			.	.	.	0.9	1.1	.
	Standard Deviation			0.0	0.0	0.0	0.5	0.7	0.0
	CV			0.0	0.0	0.0	0.63	0.78	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	0.3784	0.3784	1.0000
	Treatment F			0.000	0.000	0.000	10451.578	6598.601	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	CHEAL	AMBTR	IPOSS	SETFA				
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi				
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail				
Crop Code					ZEAMX				
BBCH Scale					BCOR				
Crop Scientific Name					Zea mays				
Crop Name					Corn				
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	7	8	9	10	11	12
1	LEADOFF		PRE	99	99	99	99	0	99
	AATREX	1 QT/A	PRE						
	REALM Q		V4						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						
2	LEADOFF		PRE	99	99	90	96	0	99
	AATREX	1 QT/A	PRE						
	RESOLVE Q		V4						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						
3	REALM Q		V2	99	99	99	99	0	99
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
4	RESOLVE Q		V2	99	99	99	99	0	99
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
5	REALM Q		V2	99	99	95	96	0	99
	CINCH	1 PT/A	V2						
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
6	RESOLVE Q		V2	99	99	87	92	0	99
	CINCH	1 PT/A	V2						
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	2 QT/A	V2						
	NIS	0.25 % V/V	V2						
7	INSTIGATE		PRE	99	99	99	99	0	99
	CINCH	1 PT/A	PRE						
	REALM Q		V4						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						
8	INSTIGATE		PRE	99	99	96	95	0	99
	CINCH	1 PT/A	PRE						
	RESOLVE Q		V4						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						
9	CINCH ATZ		PRE	99	99	95	96	0	99
	REALM Q	1 QT/A	PRE						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	CHEAL	AMBTR	IPOSS	SETFA				
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi				
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail				
Crop Code					ZEAMX				
BBCH Scale					BCOR				
Crop Scientific Name					Zea mays				
Crop Name					Corn				
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12
10	CINCH ATZ	1 QT/A	PRE	99	99	89	95	0	99
	RESOLVE Q		V4						
	ABUNDIT S	32 FL OZ/A	V4						
	AATREX	1.5 QT/A	V4						
	NIS	0.25 % V/V	V4						
11	HALEX GT	3.6 PT/A	V2	99	99	93	99	0	99
	AATREX	1 QT/A	V2						
	NIS	0.25 % V/V	V2						
12	CAPRENO HERBICIDE	3 OZ/A	V2	99	99	90	99	0	99
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
13	BICEP II MAGNUM	1 QT/A	PRE	99	99	89	92	0	99
	HALEX GT	3.6 PT/A	V2						
	AATREX	1 QT/A	V2						
	NIS	0.25 % V/V	V2						
14	CORVUS HERBICIDE	4.5 FL OZ/A	PRE	99	99	95	99	0	99
	CAPRENO HERBICIDE	3 FL OZ/A	V2						
	ABUNDIT S	32 FL OZ/A	V2						
	AATREX	1.5 QT/A	V2						
	NIS	0.25 % V/V	V2						
15	AATREX	1.5 QT/A	PRE	99	99	95	99	0	99
	CINCH	1 PT/A	PRE						
	ABUNDIT S	32 FL OZ/A	PRE						
	AATREX	1.5 QT/A	V2						
	ABUNDIT S	32 FL OZ/A	V2						
16	LEXAR	3 QT/A	PRE	99	99	70	83	0	99
17	UNTREATED CHECK			0	0	0	0	0	0
18	CHECK			0	0	0	0	0	0
	LSD P=.05			.	.	3.9	2.6	.	.
	Standard Deviation			0.0	0.0	2.3	1.5	0.0	0.0
	CV			0.0	0.0	2.85	1.81	0.0	0.0
	Replicate F			0.000	0.000	1.347	0.100	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	0.2736	0.9047	1.0000	1.0000
	Treatment F			0.000	0.000	514.056	1228.560	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000	1.0000

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Trt No.	Treatment Name	Rate Unit	Growth Stage	13	14	15	19
1	LEADOFF		PRE	99	99	99	226
	AATREX	1 QT/A	PRE				
	REALM Q		V4				
	ABUNDIT S	32 FL OZ/A	V4				
	AATREX	1.5 QT/A	V4				
	NIS	0.25 % V/V	V4				
2	LEADOFF		PRE	99	90	96	226
	AATREX	1 QT/A	PRE				
	RESOLVE Q		V4				
	ABUNDIT S	32 FL OZ/A	V4				
	AATREX	1.5 QT/A	V4				
	NIS	0.25 % V/V	V4				
3	REALM Q		V2	99	99	99	210
	ABUNDIT S	32 FL OZ/A	V2				
	AATREX	1.5 QT/A	V2				
	NIS	0.25 % V/V	V2				
4	RESOLVE Q		V2	99	99	99	234
	ABUNDIT S	32 FL OZ/A	V2				
	AATREX	1.5 QT/A	V2				
	NIS	0.25 % V/V	V2				
5	REALM Q		V2	99	95	96	215
	CINCH	1 PT/A	V2				
	ABUNDIT S	32 FL OZ/A	V2				
	AATREX	1.5 QT/A	V2				
	NIS	0.25 % V/V	V2				
6	RESOLVE Q		V2	99	87	92	204
	CINCH	1 PT/A	V2				
	ABUNDIT S	32 FL OZ/A	V2				
	AATREX	2 QT/A	V2				
	NIS	0.25 % V/V	V2				
7	INSTIGATE		PRE	99	99	99	223
	CINCH	1 PT/A	PRE				
	REALM Q		V4				
	ABUNDIT S	32 FL OZ/A	V4				
	AATREX	1.5 QT/A	V4				
	NIS	0.25 % V/V	V4				
8	INSTIGATE		PRE	99	96	95	220
	CINCH	1 PT/A	PRE				
	RESOLVE Q		V4				
	ABUNDIT S	32 FL OZ/A	V4				
	AATREX	1.5 QT/A	V4				
	NIS	0.25 % V/V	V4				
9	CINCH ATZ		PRE	99	95	96	220
	REALM Q	1 QT/A	PRE				
	ABUNDIT S	32 FL OZ/A	V4				
	AATREX	1.5 QT/A	V4				
	NIS	0.25 % V/V	V4				

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Pest Type	W Weed	W Weed	W Weed				
Pest Code	CHEAL	AMBTR	IPOSS				
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.				
Pest Name	Common lambsqu>	Giant ragweed	Morning glory				
Crop Code				ZEAMX			
BBCH Scale				BCOR			
Crop Scientific Name				Zea mays			
Crop Name				Corn			
Rating Type	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	BU			
Rating Timing	8 WEEK	8 WEEK	4 WEEK				
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST				
Trt No.	Treatment Name	Rate Unit	Growth Stage	13	14	15	19
10	CINCH ATZ	1 QT/A	PRE	99	89	95	206
	RESOLVE Q		V4				
	ABUNDIT S	32 FL OZ/A	V4				
	AATREX	1.5 QT/A	V4				
	NIS	0.25 % V/V	V4				
11	HALEX GT	3.6 PT/A	V2	99	93	99	200
	AATREX	1 QT/A	V2				
	NIS	0.25 % V/V	V2				
12	CAPRENO HERBICIDE	3 OZ/A	V2	99	90	99	201
	ABUNDIT S	32 FL OZ/A	V2				
	AATREX	1.5 QT/A	V2				
	NIS	0.25 % V/V	V2				
13	BICEP II MAGNUM	1 QT/A	PRE	99	89	92	211
	HALEX GT	3.6 PT/A	V2				
	AATREX	1 QT/A	V2				
	NIS	0.25 % V/V	V2				
14	CORVUS HERBICIDE	4.5 FL OZ/A	PRE	99	95	99	201
	CAPRENO HERBICIDE	3 FL OZ/A	V2				
	ABUNDIT S	32 FL OZ/A	V2				
	AATREX	1.5 QT/A	V2				
	NIS	0.25 % V/V	V2				
15	AATREX	1.5 QT/A	PRE	99	95	99	203
	CINCH	1 PT/A	PRE				
	ABUNDIT S	32 FL OZ/A	PRE				
	AATREX	1.5 QT/A	V2				
	ABUNDIT S	32 FL OZ/A	V2				
16	LEXAR	3 QT/A	PRE	99	70	83	153
17	UNTREATED CHECK			0	0	0	16
18	CHECK			0	0	0	9
LSD P=.05					3.9	2.6	24.1
Standard Deviation				0.0	2.3	1.5	14.5
CV				0.0	2.85	1.81	7.75
Replicate F				0.000	1.347	0.100	0.674
Replicate Prob(F)				1.0000	0.2736	0.9047	0.5162
Treatment F				0.000	514.056	1228.560	62.110
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001

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CORN POSTEMERGENCE VII

Trial ID: C15017 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DUP-15-908 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = US
 IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

ARM Action Codes

TY1 = 4.321429*[17]*(100-[18])/84.5

University of Kentucky

CORN POSTEMERGENCE VII

Trial ID: C15017 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DUP-15-908 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: DKC 64-89		
Planting Rate, Unit: 30000 S/A		Planting Date: 4/29/2015
Depth, Unit: 1.5 IN		Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN		Planting Equipment: FE Field Equipment
		Emergence Date: 5/5/2015
		Harvest Date: 9/15/2015
		Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 55 F		Harvested Length, Unit: 36 FT
Soil Moisture: GOOD good		Harvest Equipment: COMBINE
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT2 **Treatments:** 18 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	4/30/2015	5/19/2015	5/22/2015
Appl. Start Time:	9:00 AM	2:00 PM	1:00 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V4
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	74 F	72 F
% Relative Humidity:	80	46	35
Wind Velocity, Unit:	6 MPH	8 MPH	8 MPH
Wind Direction:	SE	WNW	WSW
Soil Temperature, Unit:	55 F	65 F	60 F
Soil Moisture:	GOOD	EXCELL	GOOD
% Cloud Cover:	10	20	10
Next Moisture Occurred On:	4/30/2015	5/25/2015	5/25/2015

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		V2-V3	V4
Height, Unit:		7 IN	9 IN

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:		21LF	
Height, Unit:		2 IN	3 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		6LF	
Height, Unit:		2 IN	3 IN
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		4LF	
Height, Unit:		3 IN	5 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:		2LF	
Height, Unit:		2 IN	3 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	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

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CORN POSTEMERGENCE VIII

Trial ID: C15018 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: BAY-CORN-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MARK WADDINGTON

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code		ZEAMX			
BBCH Scale		BCOR			
Crop Scientific Name		Zea mays			
Crop Name		Corn			
Rating Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK
Trt-Eval Interval		AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	CORVUS HERBICIDE	3	OZ/A	PRE	0	99	99	95	98
	UNTREATED WEED FREE								
	ROUNDUP POWERMAX	32	FL OZ/A	V4					
2	CORVUS HERBICIDE	3	OZ/A	PRE	0	99	99	99	99
	LAUDIS	3	OZ/A	V4					
	MSO	1	% V/V	V4					
	AMS	17	LB AI/100 GAL	V4					
	ROUNDUP POWERMAX	32	FL OZ/A	V4					
3	CORVUS HERBICIDE	3	OZ/A	PRE	0	99	99	99	99
	STRATEGO YLD	2	OZ/A	V4					
	NIS	0.125	% V/V	V4					
	AMS	17	LB AI/100 GAL	V4					
	ROUNDUP POWERMAX	32	FL OZ/A	V4					
4	CORVUS HERBICIDE	3	OZ/A	PRE	0	99	99	99	99
	LAUDIS	3	OZ/A	V4					
	STRATEGO YLD	2	OZ/A	V4					
	MSO	1	% V/V	V4					
	AMS	17	LB AI/100 GAL	V4					
	ROUNDUP POWERMAX	32	FL OZ/A	V4					
	LSD P=.05							6.3	2.3
	Standard Deviation				0.0	0.0	0.0	3.2	1.2
	CV				0.0	0.0	0.0	3.24	1.17
	Replicate F				0.000	0.000	0.000	1.000	1.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	0.4219	0.4219
	Treatment F				0.000	0.000	0.000	1.000	1.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	0.4547	0.4547

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

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Trt	Treatment No. Name	Rate Rate Unit	Growth Stage	6	7	8	9	10
	1 CORVUS HERBICIDE	3 OZ/A	PRE	0	99	99	92	92
	UNTREATED WEED FREE							
	ROUNDUP POWERMAX	32 FL OZ/A	V4					
	2 CORVUS HERBICIDE	3 OZ/A	PRE	0	99	99	95	93
	LAUDIS	3 OZ/A	V4					
	MSO	1 % V/V	V4					
	AMS	17 LB AI/100 GAL	V4					
	ROUNDUP POWERMAX	32 FL OZ/A	V4					
	3 CORVUS HERBICIDE	3 OZ/A	PRE	0	99	99	88	93
	STRATEGO YLD	2 OZ/A	V4					
	NIS	0.125 % V/V	V4					
	AMS	17 LB AI/100 GAL	V4					
	ROUNDUP POWERMAX	32 FL OZ/A	V4					
	4 CORVUS HERBICIDE	3 OZ/A	PRE	0	99	99	90	88
	LAUDIS	3 OZ/A	V4					
	STRATEGO YLD	2 OZ/A	V4					
	MSO	1 % V/V	V4					
	AMS	17 LB AI/100 GAL	V4					
	ROUNDUP POWERMAX	32 FL OZ/A	V4					
	LSD P=.05			.	.	.	7.9	6.1
	Standard Deviation			0.0	0.0	0.0	3.9	3.1
	CV			0.0	0.0	0.0	4.32	3.34
	Replicate F			0.000	0.000	0.000	1.050	2.416
	Replicate Prob(F)			1.0000	1.0000	1.0000	0.4064	0.1700
	Treatment F			0.000	0.000	0.000	1.471	2.062
	Treatment Prob(F)			1.0000	1.0000	1.0000	0.3138	0.2068

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Trt	Treatment No.	Name	Rate	Unit	Growth Stage	11	12	13	14	15
		1 CORVUS HERBICIDE	3 OZ/A		PRE	0	99	99	92	92
		UNTREATED WEED FREE								
		ROUNDUP POWERMAX	32 FL OZ/A		V4					
		2 CORVUS HERBICIDE	3 OZ/A		PRE	0	99	99	95	93
		LAUDIS	3 OZ/A		V4					
		MSO	1 % V/V		V4					
		AMS	17 LB AI/100 GAL		V4					
		ROUNDUP POWERMAX	32 FL OZ/A		V4					
		3 CORVUS HERBICIDE	3 OZ/A		PRE	0	99	99	88	93
		STRATEGO YLD	2 OZ/A		V4					
		NIS	0.125 % V/V		V4					
		AMS	17 LB AI/100 GAL		V4					
		ROUNDUP POWERMAX	32 FL OZ/A		V4					
		4 CORVUS HERBICIDE	3 OZ/A		PRE	0	99	99	90	88
		LAUDIS	3 OZ/A		V4					
		STRATEGO YLD	2 OZ/A		V4					
		MSO	1 % V/V		V4					
		AMS	17 LB AI/100 GAL		V4					
		ROUNDUP POWERMAX	32 FL OZ/A		V4					
		LSD P=.05				.	.	.	7.9	6.1
		Standard Deviation				0.0	0.0	0.0	3.9	3.1
		CV				0.0	0.0	0.0	4.32	3.34
		Replicate F				0.000	0.000	0.000	1.050	2.416
		Replicate Prob(F)				1.0000	1.0000	1.0000	0.4064	0.1700
		Treatment F				0.000	0.000	0.000	1.471	2.062
		Treatment Prob(F)				1.0000	1.0000	1.0000	0.3138	0.2068

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Unit	Growth Stage	20
1	CORVUS HERBICIDE	3	OZ/A	PRE	213
	UNTREATED WEED FREE				
	ROUNDUP POWERMAX	32	FL OZ/A	V4	
2	CORVUS HERBICIDE	3	OZ/A	PRE	221
	LAUDIS	3	OZ/A	V4	
	MSO	1	% V/V	V4	
	AMS	17	LB AI/100 GAL	V4	
	ROUNDUP POWERMAX	32	FL OZ/A	V4	
3	CORVUS HERBICIDE	3	OZ/A	PRE	210
	STRATEGO YLD	2	OZ/A	V4	
	NIS	0.125	% V/V	V4	
	AMS	17	LB AI/100 GAL	V4	
	ROUNDUP POWERMAX	32	FL OZ/A	V4	
4	CORVUS HERBICIDE	3	OZ/A	PRE	216
	LAUDIS	3	OZ/A	V4	
	STRATEGO YLD	2	OZ/A	V4	
	MSO	1	% V/V	V4	
	AMS	17	LB AI/100 GAL	V4	
	ROUNDUP POWERMAX	32	FL OZ/A	V4	
	LSD P=.05				13.6
	Standard Deviation				6.8
	CV				3.17
	Replicate F				0.651
	Replicate Prob(F)				0.5547
	Treatment F				1.555
	Treatment Prob(F)				0.2950

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CORN POSTEMERGENCE VIII

Trial ID: C15018	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: BAY-CORN-2	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: MARK WADDINGTON	

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 CHEAL, *Chenopodium album*, = US
 AMBTR, *Ambrosia trifida*, = US
 IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

ARM Action Codes

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

University of Kentucky

CORN POSTEMERGENCE VIII

Trial ID: C15018 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: BAY-CORN-2 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MARK WADDINGTON

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX	Zea mays	Corn
Variety: BECKS 5828		
Planting Rate, Unit: 30000 S/A		Planting Date: 4/29/2015
Depth, Unit: 1.5 IN		Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN		Planting Equipment: FE Field Equipment
		Emergence Date: 5/8/2015
		Harvest Date: 9/15/2015
		Harvested Width, Unit: 5 FT
		Harvested Length, Unit: 38 FT
Soil Temperature, Unit: 55 F		Harvest Equipment: COMBINE
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 440 FT2 **Treatments:** 4 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B
Application Date:	4/30/2015	5/22/2015
Appl. Start Time:	9:00 AM	1:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V4
Application Placement:	BROSOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	72 F
% Relative Humidity:	80	35
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	SE	WSW
Soil Temperature, Unit:	55 F	60 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	10
Next Moisture Occurred On:	4/30/2015	5/25/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V4 95
Height, Unit:		8 IN

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Pest Stage At Each Application

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

Trial ID: C15019
 Protocol ID: BAYER-CORN-RR-LL
 Project ID:

Location: LEXINGTON, KY Trial Year: 2015
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: MARK WADDINGTON

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
1	UNTREATED			0	0	0	0	0
2	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	1 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
3	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	LAUDIS	2 OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	1 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
4	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5-V6					
	CAPRENO HERBICIDE	3 OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	2 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
5	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5-V6					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	2 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
6	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5-V6					
	LAUDIS FLEXX	32 FL OZ/A	V5-V6					
	ATRAZINE	1 PT/A	V5-V6					
	MSO	1 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
7	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	CAPRENO HERBICIDE	3 OZ/A	V5-V6					
	ATRAZINE	2 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					

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

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Pest Type			W Weed	W Weed	W Weed	W Weed		
Pest Code			SETFA	CHEAL	AMBTR	IPOSS		
Pest Scientific Name			Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.		
Pest Name			Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory		
Crop Code		ZEAMX						
BBCH Scale		BCOR						
Crop Scientific Name		Zea mays						
Crop Name		Corn						
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK		
Trt-Eval Interval		AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST		
Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
8	ROUNDUP POWERMAX	32 FL OZ/A	V3	0	99	99	99	99
	CAPRENO HERBICIDE	3 OZ/A	V3					
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	MISO	0.5 % V/V	V3					
	AMS	17 LB AI/100 GAL	V3					
9	CORVUS HERBICIDE	2.5 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	1 PT/A	PRE					
	ROUNDUP POWERMAX	16 FL OZ/A	V3					
	CORVUS HERBICIDE	2.5 OZ/A	V3					
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	1 PT/A	V3					
10	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	99	99
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
11	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	99	99
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
12	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	99	99
	DIFLEXX	8 OZ/A	V3					
	ZIDUA	1.5 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
13	SURESTART	2 PT/A	V3	0	99	99	99	99
	DURANGO	22 FL OZ/A	V3					
	AMS	17 LB AI/100 GAL	V3					
14	ACURON	2 QT/A	PRE	0	99	99	70	80
15	HALEX GT	3 PT/A	V3	0	99	99	99	99
	ATRAZINE	2 PT/A	V3					
	NIS	0.25 % V/V	V3					
	AMS	17 LB AI/100 GAL	V3					
16	CHECK			0	0	0	0	0
LSD P=.05				.	.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6	7	8	9	10
1	UNTREATED				0	0	0	0	0
2	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	ATRAZINE	2 PT/A		PRE					
	LIBERTY 280	29 FL OZ/A		V5-V6					
	DIFLEXX	8 OZ/A		V5-V6					
	ATRAZINE	1 PT/A		V5-V6					
	MSO	0.5 % V/V		V5-V6					
	AMS	17 LB AI/100 GAL		V5-V6					
3	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	ATRAZINE	2 PT/A		PRE					
	LIBERTY 280	29 FL OZ/A		V5-V6					
	LAUDIS	2 OZ/A		V5-V6					
	DIFLEXX	8 OZ/A		V5-V6					
	ATRAZINE	1 PT/A		V5-V6					
	MSO	0.5 % V/V		V5-V6					
	AMS	17 LB AI/100 GAL		V5-V6					
4	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	ATRAZINE	2 PT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		V5-V6					
	CAPRENO HERBICIDE	3 OZ/A		V5-V6					
	DIFLEXX	8 OZ/A		V5-V6					
	ATRAZINE	2 PT/A		V5-V6					
	MSO	0.5 % V/V		V5-V6					
	AMS	17 LB AI/100 GAL		V5-V6					
5	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	ATRAZINE	2 PT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		V5-V6					
	LIBERTY 280	29 FL OZ/A		V5-V6					
	DIFLEXX	8 OZ/A		V5-V6					
	ATRAZINE	2 PT/A		V5-V6					
	MSO	0.5 % V/V		V5-V6					
	AMS	17 LB AI/100 GAL		V5-V6					
6	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	99	99
	ATRAZINE	2 PT/A		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		V5-V6					
	LAUDIS FLEXX	32 FL OZ/A		V5-V6					
	ATRAZINE	1 PT/A		V5-V6					
	MSO	1 % V/V		V5-V6					
	AMS	17 LB AI/100 GAL		V5-V6					
7	CORVUS HERBICIDE	4 OZ/A		PRE	0	99	99	98	98
	ATRAZINE	2 PT/A		PRE					
	LIBERTY 280	29 FL OZ/A		V5-V6					
	CAPRENO HERBICIDE	3 OZ/A		V5-V6					
	ATRAZINE	2 PT/A		V5-V6					
	MSO	0.5 % V/V		V5-V6					
	AMS	17 LB AI/100 GAL		V5-V6					

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Pest Type		W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	CHEAL	AMBTR	IPOSS			
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.			
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory			
Crop Code	ZEAMX							
BBCH Scale	BCOR							
Crop Scientific Name	Zea mays							
Crop Name	Corn							
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Trt No.	Treatment Name	Rate	Growth Stage	6	7	8	9	10
8	ROUNDUP POWERMAX	32 FL OZ/A	V3	0	98	99	96	98
	CAPRENO HERBICIDE	3 OZ/A	V3					
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	MISO	0.5 % V/V	V3					
	AMS	17 LB AI/100 GAL	V3					
9	CORVUS HERBICIDE	2.5 OZ/A	PRE	0	99	99	98	96
	ATRAZINE	1 PT/A	PRE					
	ROUNDUP POWERMAX	16 FL OZ/A	V3					
	CORVUS HERBICIDE	2.5 OZ/A	V3					
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	1 PT/A	V3					
10	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	95	99
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
11	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	99	99
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
12	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	98	99
	DIFLEXX	8 OZ/A	V3					
	ZIDUA	1.5 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
13	SURESTART	2 PT/A	V3	0	99	99	90	91
	DURANGO	22 FL OZ/A	V3					
	AMS	17 LB AI/100 GAL	V3					
14	ACURON	2 QT/A	PRE	0	99	99	67	80
15	HALEX GT	3 PT/A	V3	0	99	99	93	95
	ATRAZINE	2 PT/A	V3					
	NIS	0.25 % V/V	V3					
	AMS	17 LB AI/100 GAL	V3					
16	CHECK			0	0	0	0	0
LSD P=.05				.	1.0	.	5.6	4.8
Standard Deviation				0.0	0.6	0.0	3.4	2.9
CV				0.0	0.67	0.0	4.08	3.39
Replicate F				0.000	1.000	0.000	3.690	1.732
Replicate Prob(F)				1.0000	0.3798	1.0000	0.0369	0.1942
Treatment F				0.000	10272.251	0.000	291.277	406.932
Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001	0.0001

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			W Weed	W Weed	W Weed	W Weed		
			SETFA	CHEAL	AMBTR	IPOSS		
			Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.		
			Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory		
Pest Type			ZEAMX					
Pest Code			BCOR					
Pest Scientific Name			Zea mays					
Pest Name			Corn					
Crop Code			IMJURY	CONTROL	CONTROL	CONTROL		
BBCH Scale			PERCENT	PERCENT	PERCENT	PERCENT		
Crop Scientific Name			8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Crop Name			AFTER POST	AFTER POST	AFTER POST	AFTER POST		
Rating Type			11	12	13	14		
Rating Unit			15					
Rating Timing								
Trt-Eval Interval								
Trt No.	Treatment Name	Rate Unit	Growth Stage	11	12	13	14	15
1	UNTREATED			0	0	0	0	0
2	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	1 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
3	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	LAUDIS	2 OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	1 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
4	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5-V6					
	CAPRENO HERBICIDE	3 OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	2 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
5	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5-V6					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	DIFLEXX	8 OZ/A	V5-V6					
	ATRAZINE	2 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
6	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	99	99
	ATRAZINE	2 PT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V5-V6					
	LAUDIS FLEXX	32 FL OZ/A	V5-V6					
	ATRAZINE	1 PT/A	V5-V6					
	MSO	1 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					
7	CORVUS HERBICIDE	4 OZ/A	PRE	0	99	99	98	98
	ATRAZINE	2 PT/A	PRE					
	LIBERTY 280	29 FL OZ/A	V5-V6					
	CAPRENO HERBICIDE	3 OZ/A	V5-V6					
	ATRAZINE	2 PT/A	V5-V6					
	MSO	0.5 % V/V	V5-V6					
	AMS	17 LB AI/100 GAL	V5-V6					

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Pest Type		W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	CHEAL	AMBTR	IPOSS			
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.			
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory			
Crop Code	ZEAMX							
BBCH Scale	BCOR							
Crop Scientific Name	Zea mays							
Crop Name	Corn							
Rating Type	IMJURY	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
Trt-Eval Interval	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST			
Trt No.	Treatment Name	Rate	Growth Stage	11	12	13	14	15
8	ROUNDUP POWERMAX	32 FL OZ/A	V3	0	98	99	96	98
	CAPRENO HERBICIDE	3 OZ/A	V3					
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	MISO	0.5 % V/V	V3					
	AMS	17 LB AI/100 GAL	V3					
9	CORVUS HERBICIDE	2.5 OZ/A	PRE	0	99	99	98	96
	ATRAZINE	1 PT/A	PRE					
	ROUNDUP POWERMAX	16 FL OZ/A	V3					
	CORVUS HERBICIDE	2.5 OZ/A	V3					
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	1 PT/A	V3					
10	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	95	99
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
11	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	99	99
	DIFLEXX	8 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
12	CORVUS HERBICIDE	4 OZ/A	V3	0	99	99	98	99
	DIFLEXX	8 OZ/A	V3					
	ZIDUA	1.5 OZ/A	V3					
	ATRAZINE	2 PT/A	V3					
	ROUNDUP POWERMAX	8 OZ/A	V3					
13	SURESTART	2 PT/A	V3	0	99	99	90	91
	DURANGO	22 FL OZ/A	V3					
	AMS	17 LB AI/100 GAL	V3					
14	ACURON	2 QT/A	PRE	0	99	99	67	80
15	HALEX GT	3 PT/A	V3	0	99	99	93	95
	ATRAZINE	2 PT/A	V3					
	NIS	0.25 % V/V	V3					
	AMS	17 LB AI/100 GAL	V3					
16	CHECK			0	0	0	0	0
LSD P=.05				.	1.0	.	5.6	4.8
Standard Deviation				0.0	0.6	0.0	3.4	2.9
CV				0.0	0.67	0.0	4.08	3.39
Replicate F				0.000	1.000	0.000	3.690	1.732
Replicate Prob(F)				1.0000	0.3798	1.0000	0.0369	0.1942
Treatment F				0.000	10272.251	0.000	291.277	406.932
Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001	0.0001

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	20
1	UNTREATED				24
2	CORVUS HERBICIDE	4 OZ/A		PRE	214
	ATRAZINE	2 PT/A		PRE	
	LIBERTY 280	29 FL OZ/A		V5-V6	
	DIFLEXX	8 OZ/A		V5-V6	
	ATRAZINE	1 PT/A		V5-V6	
	MSO	0.5 % V/V		V5-V6	
	AMS	17 LB AI/100 GAL		V5-V6	
3	CORVUS HERBICIDE	4 OZ/A		PRE	213
	ATRAZINE	2 PT/A		PRE	
	LIBERTY 280	29 FL OZ/A		V5-V6	
	LAUDIS	2 OZ/A		V5-V6	
	DIFLEXX	8 OZ/A		V5-V6	
	ATRAZINE	1 PT/A		V5-V6	
	MSO	0.5 % V/V		V5-V6	
	AMS	17 LB AI/100 GAL		V5-V6	
4	CORVUS HERBICIDE	4 OZ/A		PRE	205
	ATRAZINE	2 PT/A		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		V5-V6	
	CAPRENO HERBICIDE	3 OZ/A		V5-V6	
	DIFLEXX	8 OZ/A		V5-V6	
	ATRAZINE	2 PT/A		V5-V6	
	MSO	0.5 % V/V		V5-V6	
	AMS	17 LB AI/100 GAL		V5-V6	
5	CORVUS HERBICIDE	4 OZ/A		PRE	176
	ATRAZINE	2 PT/A		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		V5-V6	
	LIBERTY 280	29 FL OZ/A		V5-V6	
	DIFLEXX	8 OZ/A		V5-V6	
	ATRAZINE	2 PT/A		V5-V6	
	MSO	0.5 % V/V		V5-V6	
	AMS	17 LB AI/100 GAL		V5-V6	
6	CORVUS HERBICIDE	4 OZ/A		PRE	188
	ATRAZINE	2 PT/A		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		V5-V6	
	LAUDIS FLEXX	32 FL OZ/A		V5-V6	
	ATRAZINE	1 PT/A		V5-V6	
	MSO	1 % V/V		V5-V6	
	AMS	17 LB AI/100 GAL		V5-V6	
7	CORVUS HERBICIDE	4 OZ/A		PRE	181
	ATRAZINE	2 PT/A		PRE	
	LIBERTY 280	29 FL OZ/A		V5-V6	
	CAPRENO HERBICIDE	3 OZ/A		V5-V6	
	ATRAZINE	2 PT/A		V5-V6	
	MSO	0.5 % V/V		V5-V6	
	AMS	17 LB AI/100 GAL		V5-V6	

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Type YIELD
 Rating Unit BU
 Rating Timing
 Trt-Eval Interval

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	20
8	ROUNDUP POWERMAX	32 FL OZ/A		V3	182
	CAPRENO HERBICIDE	3 OZ/A		V3	
	DIFLEXX	8 OZ/A		V3	
	ATRAZINE	2 PT/A		V3	
	MISO	0.5 % V/V		V3	
	AMS	17 LB AI/100 GAL		V3	
9	CORVUS HERBICIDE	2.5 OZ/A		PRE	203
	ATRAZINE	1 PT/A		PRE	
	ROUNDUP POWERMAX	16 FL OZ/A		V3	
	CORVUS HERBICIDE	2.5 OZ/A		V3	
	DIFLEXX	8 OZ/A		V3	
	ATRAZINE	1 PT/A		V3	
10	CORVUS HERBICIDE	4 OZ/A		V3	202
	ATRAZINE	2 PT/A		V3	
	ROUNDUP POWERMAX	8 OZ/A		V3	
11	CORVUS HERBICIDE	4 OZ/A		V3	199
	DIFLEXX	8 OZ/A		V3	
	ATRAZINE	2 PT/A		V3	
	ROUNDUP POWERMAX	8 OZ/A		V3	
12	CORVUS HERBICIDE	4 OZ/A		V3	211
	DIFLEXX	8 OZ/A		V3	
	ZIDUA	1.5 OZ/A		V3	
	ATRAZINE	2 PT/A		V3	
	ROUNDUP POWERMAX	8 OZ/A		V3	
13	SURESTART	2 PT/A		V3	210
	DURANGO	22 FL OZ/A		V3	
	AMS	17 LB AI/100 GAL		V3	
14	ACURON	2 QT/A		PRE	97
15	HALEX GT	3 PT/A		V3	203
	ATRAZINE	2 PT/A		V3	
	NIS	0.25 % V/V		V3	
	AMS	17 LB AI/100 GAL		V3	
16	CHECK				26
	LSD P=.05				36.3
	Standard Deviation				21.8
	CV				12.76
	Replicate F				4.265
	Replicate Prob(F)				0.0234
	Treatment F				25.392
	Treatment Prob(F)				0.0001

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CORN POSTEMERGENCE IX

Trial ID: C15019
Protocol ID: BAYER-CORN-RR-LL
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: MARK WADDINGTON

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
CHEAL, *Chenopodium album*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea sp.*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
BU = bushel

ARM Action Codes

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

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CORN POSTEMERGENCE IX

Trial ID: C15019 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: BAYER-CORN-RR-LL Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MARK WADDINGTON

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/29/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: BECKS 5828

Planting Rate, Unit: 30000 S/A	Planting Date: 4/29/2015
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 55 F	Emergence Date: 5/5/2015
Soil Moisture: GOOD good	Harvest Date: 9/15/2015
Seed Bed: MEDIUM medium	Harvested Width, Unit: 5 FT
	Harvested Length, Unit: 38 FT
	Harvest Equipment: COMBINE
	% 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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 4 Type:** W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

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

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

Soil Description

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

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.5 MI

Application Description

	A	B	C
Application Date:	4/30/2015	5/19/2015	5/27/2015
Appl. Start Time:	9:00 AM		10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V3	V5
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	74 F	76 F
% Relative Humidity:	80	46	50
Wind Velocity, Unit:	6 MPH	8 MPH	9 MPH
Wind Direction:	SE	WNW	W
Soil Temperature, Unit:	56 F	65 F	67 F
Soil Moisture:	GOOD	EXCELL	EXCELL
% Cloud Cover:	10	20	30
Next Moisture Occurred On:	4/30/2015	5/25/2015	5/27/2015

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V3		V5
Height, Unit:	8 IN		12 IN

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Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	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

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CORN VARIETIES

Trial ID: C15020
 Protocol ID: CORN-VAR-BASF-MON
 Project ID:

Location: LEXINGTON, KY Trial Year: 2015
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: MATT LIVESAY/GLEN MURPHY

Tri	Treatment	Rate	Growth	Appl	
No.	Name	Rate Unit	Stage	Code	3
1	VERDICT	15 OZ/A	PRE	A	201.2
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	DKC 60-67				
2	VERDICT	15 OZ/A	PRE	A	231.7
	HEADLINE	6 OZ/A	INFURROW	A	
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	DKC 60-67				
3	VERDICT	15 OZ/A	PRE	A	223.9
	HEADLINE	6 OZ/A	INFURROW	A	
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	PRIAXOR	4 OZ/A	V5	C	
	DKC 60-67				
4	VERDICT	15 OZ/A	PRE	A	218.9
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	DKC 61-55				
5	VERDICT	15 OZ/A	PRE	A	199.1
	HEADLINE	6 OZ/A	INFURROW	A	
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	DKC 61-55				
6	VERDICT	15 OZ/A	PRE	A	216.7
	HEADLINE	6 OZ/A	INFURROW	A	
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	PRIAXOR	4 OZ/A	V5	C	
	DKC 61-55				
7	VERDICT	15 OZ/A	PRE	A	210.0
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	P 1197				
8	VERDICT	15 OZ/A	PRE	A	220.8
	HEADLINE	6 OZ/A	INFURROW	A	
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	P 1197				
9	VERDICT	15 OZ/A	PRE	A	210.6
	HEADLINE	6 OZ/A	INFURROW	A	
	ARMEZON	1 OZ/A	V3	B	
	ZIDUA	2 OZ/A	V3	B	
	COC	1 % V/V	V3	B	
	PRIAXOR	4 OZ/A	V5	C	
	P 1197				

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

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Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	
10	VERDICT	15	OZ/A	PRE	A	218.0
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 61-79					
11	VERDICT	15	OZ/A	PRE	A	216.4
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 61-79					
12	VERDICT	15	OZ/A	PRE	A	225.6
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 61-79					
13	VERDICT	15	OZ/A	PRE	A	209.7
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	HEADLINE AMP	10	OZ/A	R1	D	
	DKC 61-79					
14	VERDICT	15	OZ/A	PRE	A	213.2
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 62-78					
15	VERDICT	15	OZ/A	PRE	A	212.5
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 62-78					
16	VERDICT	15	OZ/A	PRE	A	217.0
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 62-78					
17	VERDICT	15	OZ/A	PRE	A	214.5
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 63-35					
18	VERDICT	15	OZ/A	PRE	A	228.0
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 63-35					
19	VERDICT	15	OZ/A	PRE	A	217.3
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 63-35					
20	VERDICT	15	OZ/A	PRE	A	224.8
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 63-60					

University of Kentucky

Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	
21	VERDICT	15	OZ/A	PRE	A	211.3
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 63-60					
22	VERDICT	15	OZ/A	PRE	A	228.3
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 63-60					
23	VERDICT	15	OZ/A	PRE	A	213.1
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	HEADLINE AMP	10	OZ/A	R1	D	
	DKC 63-60					
24	VERDICT	15	OZ/A	PRE	A	211.9
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 63-72					
25	VERDICT	15	OZ/A	PRE	A	201.3
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 63-72					
26	VERDICT	15	OZ/A	PRE	A	211.1
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 63-72					
27	VERDICT	15	OZ/A	PRE	A	220.8
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	HEADLINE AMP	10	OZ/A	R1	D	
	DKC 63-72					
28	VERDICT	15	OZ/A	PRE	A	219.1
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	P 1479					
29	VERDICT	15	OZ/A	PRE	A	204.1
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	P 1479					
30	VERDICT	15	OZ/A	PRE	A	216.3
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	P 1479					
31	VERDICT	15	OZ/A	PRE	A	209.5
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 64-89					

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Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	
32	VERDICT	15	OZ/A	PRE	A	223.1
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 64-89					
33	VERDICT	15	OZ/A	PRE	A	215.7
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 64-89					
34	VERDICT	15	OZ/A	PRE	A	222.4
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	HEADLINE AMP	10	OZ/A	R1	D	
	DKC 64-89					
35	VERDICT	15	OZ/A	PRE	A	211.9
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 65-71					
36	VERDICT	15	OZ/A	PRE	A	207.9
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 65-71					
37	VERDICT	15	OZ/A	PRE	A	208.8
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 65-71				A	
38	VERDICT	15	OZ/A	PRE	A	230.8
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	HEADLINE AMP	10	OZ/A	R1	D	
	DKC 65-71					
39	VERDICT	15	OZ/A	PRE	A	189.9
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 66-59					
40	VERDICT	15	OZ/A	PRE	A	207.9
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	DKC 66-59					
41	VERDICT	15	OZ/A	PRE	A	195.9
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1	% V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 66-59				A	

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Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Type	YIELD
Rating Unit	BU

Trit No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	3
42	VERDICT	15	OZ/A	PRE	A	228.9
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	HEADLINE AMP	10	OZ/A	R1	D	
	DKC 66-59					
43	VERDICT	15	OZ/A	PRE	A	192.0
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	DKC 67-58					
44	VERDICT	15	OZ/A	PRE	A	206.5
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	DKC 67-58					
45	VERDICT	15	OZ/A	PRE	A	193.1
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 67-58					
46	VERDICT	15	OZ/A	PRE	A	213.1
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	DKC 67-72					
47	VERDICT	15	OZ/A	PRE	A	215.0
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	DKC 67-72					
48	VERDICT	15	OZ/A	PRE	A	229.4
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 67-72					
49	VERDICT	15	OZ/A	PRE	A	210.6
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	DKC 68-26					
50	VERDICT	15	OZ/A	PRE	A	220.9
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	DKC 68-26					
51	VERDICT	15	OZ/A	PRE	A	212.8
	HEADLINE	6	OZ/A	INFURROW	A	
	ARMEZON	1	OZ/A	V3	B	
	ZIDUA	2	OZ/A	V3	B	
	COC	1 %	V/V	V3	B	
	PRIAXOR	4	OZ/A	V5	C	
	DKC 68-26					

LSD P=.05 .
 Standard Deviation .
 CV .

Crop Code
 ZEAMX, BCOR, Zea mays, = US
Rating Type
 YIELD = yield
Rating Unit

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BU = bushel
ARM Action Codes
TY1 = 1.196703*[1]*(100-[2])/84.5

University of Kentucky

CORN VARIETIES

Trial ID: C15020 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: CORN-VAR-BASF-MON Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: MATT LIVESAY/GLEN MURPHY

General Trial Information

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

Discipline: S varietal screening
Trial Status: F one-year/final
Initiation Date: 5/13/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

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

Planting Rate, Unit: 30000 S/A	Planting Date: 5/13/2015
Depth, Unit: 1.5 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
	Emergence Date: 5/19/2015
	Harvest Date: 9/23/2015
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 62 F	Harvested Length, Unit: 130 FT
Soil Moisture: GOOD good	Harvest Equipment: COMBINE
Seed Bed: SMOOTH smooth	% Standard Moisture: 15.5

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Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 135 FT
Treated Plot Area: 1350 FT² **Treatments:** 51 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1 MI

Application Description

	A	B	C	D
Application Date:	5/13/2015	5/28/2015	6/11/2015	7/22/2015
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V3	V5	R1
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	SARA LAWSON
Air Temperature, Unit:	65 F	75 F	88 F	82 F
% Relative Humidity:	55	68	55	50
Wind Velocity, Unit:	5 MPH	6 MPH	7 MPH	3 MPH
Wind Direction:	SW	WSW	SE	W
Soil Temperature, Unit:	62 F	70 F	75 F	78 F
Soil Moisture:	GOOD	WET	GOOD	WET
% Cloud Cover:	30	20	40	50
Next Moisture Occurred On:	5/16/2015	5/28/2015	6/16/2015	7/27/2015

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:	V3	95	V5	95	R1	95		

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CORN VARIETIES II

Trial ID: C15021
Protocol ID: SYN-CORN-FUNGI
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: SARAH GEHANT&SCOTT CULLY

Crop Code ZEAMX
BBCH Scale BCOR
Crop Scientific Name Zea mays
Crop Name Corn
Rating Date 9/22/2015
Rating Type YIELD
Rating Unit BU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
1	LEXAR EZ	1.5	QT/A	PRE	121
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N45P-3011				
2	LEXAR EZ	1.5	QT/A	PRE	146
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N45P-3011				
3	LEXAR EZ	1.5	QT/A	PRE	211
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N59B-3111A				
4	LEXAR EZ	1.5	QT/A	PRE	218
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N59B-3111A				
5	LEXAR EZ	1.5	QT/A	PRE	213
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N60F-3111				
6	LEXAR EZ	1.5	QT/A	PRE	212
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N60F-3111				
7	LEXAR EZ	1.5	QT/A	PRE	182
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N66V-3000GT				
8	LEXAR EZ	1.5	QT/A	PRE	175
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N66V-3000GT				
9	LEXAR EZ	1.5	QT/A	PRE	213
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N70J-3011A				

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

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Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Date	9/22/2015
Rating Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	3
10	LEXAR EZ	1.5	QT/A	PRE	198
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N70J-3011A				
11	LEXAR EZ	1.5	QT/A	PRE	205
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N79M-GT/CB/LL				
12	LEXAR EZ	1.5	QT/A	PRE	209
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N79M-GT/CB/LL				
13	LEXAR EZ	1.5	QT/A	PRE	184
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N76A-GT/CB/LL				
14	LEXAR EZ	1.5	QT/A	PRE	201
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N76A-GT/CB/LL				
15	LEXAR EZ	1.5	QT/A	PRE	196
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N74R-3000GT				
16	LEXAR EZ	1.5	QT/A	PRE	201
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N74R-3000GT				
17	LEXAR EZ	1.5	QT/A	PRE	221
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N74L-GT				
18	LEXAR EZ	1.5	QT/A	PRE	211
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N74L-GT				
19	LEXAR EZ	1.5	QT/A	PRE	176
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N75H-3010A				
20	LEXAR EZ	1.5	QT/A	PRE	217
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N75H-3010A				
21	LEXAR EZ	1.5	QT/A	PRE	182
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	N83D-3000GT				

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Crop Code ZEAMX
 BBCH Scale BCOR
 Crop Scientific Name Zea mays
 Crop Name Corn
 Rating Date 9/22/2015
 Rating Type YIELD
 Rating Unit BU

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	
22	LEXAR EZ	1.5	QT/A	PRE	174
	HALEX GT	3.5	PT/A	V5	
	AATREX	1	QT/A	V5	
	TRIVAPRO	14	FL OZ/A	V5	
	QUILT XCEL	10.5	FL OZ/A	V5	
	A15457K	4.1	FL OZ/A	V5	
	N83D-3000GT				
	LSD P=.05				.
	Standard Deviation				.
	CV				.

Crop Code
 ZEAMX, BCOR, Zea mays, = US
Rating Type
 YIELD = yield
Rating Unit
 BU = bushel
ARM Action Codes
 TY1 = 1.037143*[1]*(100-[2])/84.5

University of Kentucky

CORN VARIETIES II

Trial ID: C15021 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: SYN-CORN-FUNGI Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SARAH GEHANT&SCOTT CULLY

General Trial Information

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

Discipline: F fungicide
Trial Status: C
Initiation Date: 5/8/2015
Completion Date: 9/22/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop	1: ZEAMX	Zea mays	Corn
Planting Rate, Unit:	30000	S/A	Planting Date: 5/8/2015
Depth, Unit:	1.5	IN	Planting Method: PLANTD planted
Row Spacing, Unit:	30	IN	Planting Equipment: FE Field Equipment
			Emergence Date: 5/14/2015
			Harvest Date: 9/22/2015
Soil Temperature, Unit:	62	F	Harvested Width, Unit: 5 FT
Soil Moisture:	GOOD	good	Harvested Length, Unit: 150 FT
Seed Bed:	SMOOTH	smooth	Harvest Equipment: COMBINE
			% Standard Moisture: 15.5

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Site and Design

Treated Plot Width: 15 FT
Treated Plot Length: 150 FT
Treated Plot Area: 2250 FT² **Treatments:** 22
Replications: 1

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: WEWEDR wet-wet-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5/8/2015	6/4/2015
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V5
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	82 F	80 F
% Relative Humidity:	65	70
Wind Velocity, Unit:	3 MPH	5 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	62 F	65 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	20
Next Moisture Occurred On:	5/11/2015	6/8/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5 95
Height, Unit:		12 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 GAL	3 GAL
Propellant:	CO2	CO2

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NO TILL SOYBEAN

Trial ID: S15020 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: FMC-SOY Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

Pest Type				W Weed	W Weed	W Weed		W Weed
Pest Code				SETFA	AMBTR	IPOSS		SETFA
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi
Pest Name				Giant foxtail	Giant ragweed	Morning glory		Giant foxtail
Crop Code		GLXMA						GLXMA
BBCH Scale		BSOY						BSOY
Crop Scientific Name		Glycine max						Glycine max
Crop Name		Soybean						Soybean
Rating Type		INJURY		CONTROL	CONTROL	CONTROL		INJURY
Rating Unit		PERCENT		PERCENT	PERCENT	PERCENT		PERCENT
Rating Timing		2 WEEK		2 WEEK	2 WEEK	2 WEEK		4 WEEK
Trt 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	22 OZ/A	V2	0	99	99	99	0	99
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
3 AUTHORITY ELITE	24 OZ/A	PRE	0	99	99	99	0	99
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	2 OZ/A	V5-IFN						
4 AUTHORITY MAXX	5 OZ/A	PRE	0	99	99	99	0	99
ANTHEM MAXX	2.5 OZ/A	PRE						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	2 OZ/A	V5-IFN						
5 AUTHORITY MAXX	5 OZ/A	PRE	0	99	99	99	0	99
ANTHEM MAXX	3 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
6 AUTHORITY MAXX	5 OZ/A	PRE	0	99	99	99	0	99
ANTHEM MAXX	2.5 OZ/A	V2						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
7 AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	0	99
ANTHEM MAXX	2.5 OZ/A	PRE						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
8 AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	0	99
ANTHEM MAXX	3 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
9 AUTHORITY MTZ	14 OZ/A	PRE	0	99	99	99	0	99
ANTHEM MAXX	2.5 OZ/A	V2						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
10 FIERCE	3 OZ/A	PRE	0	99	99	99	0	99
PREFIX	32 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						

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

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Pest Type			W Weed	W Weed	W Weed		W Weed		
Pest Code			SETFA	AMBTR	IPOSS		SETFA		
Pest Scientific Name			Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi		
Pest Name			Giant foxtail	Giant ragweed	Morning glory		Giant foxtail		
Crop Code		GLXMA				GLXMA			
BBCH Scale		BSOY				BSOY			
Crop Scientific Name		Glycine max				Glycine max			
Crop Name		Soybean				Soybean			
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK		
Trt	Treatment	Rate	Growth	1	2	3	4	5	6
No.	Name	Rate Unit	Stage						
11	BOUNDARY	32 OZ/A	PRE	0	99	99	99	0	99
	PREFIX	32 OZ/A	V2						
	ROUNDUP POWERMAX	22 OZ/A	V2						
	NIS	0.25 % V/V	V2						
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
12	VALOR XLT	3 OZ/A	PRE	0	99	99	99	0	99
	PREFIX	32 OZ/A	V2						
	ROUNDUP POWERMAX	22 OZ/A	V2						
	NIS	0.25 % V/V	V2						
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
LSD P=.05									
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type			W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code			AMBTR	IPOSS		SETFA	AMBTR	IPOSS
Pest Scientific Name			Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name			Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory
Crop Code					GLXMA			
BBCH Scale					BSOY			
Crop Scientific Name					Glycine max			
Crop Name					Soybean			
Rating Type			CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing			4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
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	22 OZ/A	V2	99	99	0	99	99	99
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
3 AUTHORITY ELITE	24 OZ/A	PRE	99	99	0	99	99	99
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	2 OZ/A	V5-IFN						
4 AUTHORITY MAXX	5 OZ/A	PRE	99	99	0	99	99	99
ANTHEM MAXX	2.5 OZ/A	PRE						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	2 OZ/A	V5-IFN						
5 AUTHORITY MAXX	5 OZ/A	PRE	99	99	0	99	99	99
ANTHEM MAXX	3 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
6 AUTHORITY MAXX	5 OZ/A	PRE	99	99	0	99	99	99
ANTHEM MAXX	2.5 OZ/A	V2						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
7 AUTHORITY MTZ	14 OZ/A	PRE	99	99	0	99	99	99
ANTHEM MAXX	2.5 OZ/A	PRE						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
8 AUTHORITY MTZ	14 OZ/A	PRE	99	99	0	99	99	99
ANTHEM MAXX	3 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
9 AUTHORITY MTZ	14 OZ/A	PRE	99	99	0	99	99	99
ANTHEM MAXX	2.5 OZ/A	V2						
MARVEL	7 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
10 FIERCE	3 OZ/A	PRE	99	99	0	99	99	99
PREFIX	32 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS			
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.			
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory			
Crop Code			GLXMA					
BBCH Scale			BSOY					
Crop Scientific Name			Glycine max					
Crop Name			Soybean					
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK			
Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
11 BOUNDARY	32 OZ/A	PRE	99	99	0	99	99	99
PREFIX	32 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
12 VALOR XLT	3 OZ/A	PRE	99	99	0	99	99	99
PREFIX	32 OZ/A	V2						
ROUNDUP POWERMAX	22 OZ/A	V2						
NIS	0.25 % V/V	V2						
ROUNDUP POWERMAX	22 OZ/A	V5-IFN						
LSD P=.05			.	.	.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0	0.0	0.0
Replicate F			0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code GLXMA
 BBCH Scale BSOY
 Crop Scientific Name Glycine max
 Crop Name Soybean
 Rating Type YIELD
 Rating Unit BU
 Rating Timing

Trt No.	Treatment Name	Rate	Growth Stage	17
1	UNTREATED CHECK			4
2	ROUNDUP POWERMAX	22 OZ/A	V2	33
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	
3	AUTHORITY ELITE	24 OZ/A	PRE	35
	MARVEL	7 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	2 OZ/A	V5-IFN	
4	AUTHORITY MAXX	5 OZ/A	PRE	43
	ANTHEM MAXX	2.5 OZ/A	PRE	
	MARVEL	7 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	2 OZ/A	V5-IFN	
5	AUTHORITY MAXX	5 OZ/A	PRE	46
	ANTHEM MAXX	3 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	
6	AUTHORITY MAXX	5 OZ/A	PRE	36
	ANTHEM MAXX	2.5 OZ/A	V2	
	MARVEL	7 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	
7	AUTHORITY MTZ	14 OZ/A	PRE	36
	ANTHEM MAXX	2.5 OZ/A	PRE	
	MARVEL	7 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	
8	AUTHORITY MTZ	14 OZ/A	PRE	39
	ANTHEM MAXX	3 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	
9	AUTHORITY MTZ	14 OZ/A	PRE	21
	ANTHEM MAXX	2.5 OZ/A	V2	
	MARVEL	7 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	
10	FIERCE	3 OZ/A	PRE	35
	PREFIX	32 OZ/A	V2	
	ROUNDUP POWERMAX	22 OZ/A	V2	
	NIS	0.25 % V/V	V2	
	ROUNDUP POWERMAX	22 OZ/A	V5-IFN	

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Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Crop Code GLXMA
 BBCH Scale BSOY
 Crop Scientific Name Glycine max
 Crop Name Soybean
 Rating Type YIELD
 Rating Unit BU
 Rating Timing

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
11	BOUNDARY	32 OZ/A		PRE	37
	PREFIX	32 OZ/A		V2	
	ROUNDUP POWERMAX	22 OZ/A		V2	
	NIS	0.25 % V/V		V2	
	ROUNDUP POWERMAX	22 OZ/A		V5-IFN	
12	VALOR XLT	3 OZ/A		PRE	42
	PREFIX	32 OZ/A		V2	
	ROUNDUP POWERMAX	22 OZ/A		V2	
	NIS	0.25 % V/V		V2	
	ROUNDUP POWERMAX	22 OZ/A		V5-IFN	
	LSD P=.05				7.2
	Standard Deviation				4.2
	CV				12.5
	Replicate F				11.228
	Replicate Prob(F)				0.0004
	Treatment F				21.587
	Treatment Prob(F)				0.0001

University of Kentucky

NO TILL SOYBEAN

Trial ID: S15020 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: FMC-SOY Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 AMBTR, *Ambrosia trifida*, = US
 IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

ARM Action Codes

TY1 = $4.033333 * [15] * (100 - [16]) / 87$

University of Kentucky

NO TILL SOYBEAN

Trial ID: S15020 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: FMC-SOY Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: RUSTY MITCHELL

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/15/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 180000 S/A	Planting Date: 5/4/2015
Depth, Unit: 1.25 IN	Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN	Planting Equipment: FE Field Equipment
	Emergence Date: 5/11/2015
	Harvest Date: 10/15/2015
	Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 58 F	Harvested Length, Unit: 36 FT
Soil Moisture: DRY dry	Harvest Equipment: WINTERSTEIGER
Seed Bed: SMOOTH smooth	% Standard Moisture: 13

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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 12 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B	C
Application Date:	5/5/2015	6/2/2015	
Application Method:	SPRAY	SPRAY	
Application Timing:	PRE	V2	
Application Placement:	BROFOL	BROFOL	
Applied By:	C H SLACK	C H SLACK	
Air Temperature, Unit:	85 F	60 F	
% Relative Humidity:	50	88	
Wind Velocity, Unit:	8 MPH	6 MPH	
Wind Direction:	SW	WSW	
Soil Temperature, Unit:	59 F	65 F	
Soil Moisture:	DRY	WET	
% Cloud Cover:	20	40	
Next Moisture Occurred On:	5/11/2015	6/4/2015	

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	
Stage Majority, Percent:		V2 95	
Height, Unit:		4 IN	

Pest Stage At Each Application

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

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Application Equipment

	A	B	C
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
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

University of Kentucky

NO TILL SOYBEAN II

Trial ID: S15021 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: VAL-SOY-FF Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed		W Weed			
Pest Code		SETFA	AMBTR	IPOSS		SETFA			
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi			
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail			
Crop Code	GLXMA				GLXMA				
BBCH Scale	BSOY				BSOY				
Crop Scientific Name	Glycine max				Glycine max				
Crop Name	Soybean				Soybean				
Rating Date	5/19/2015	5/19/2015	5/19/2015	5/19/2015	6/2/2015	6/2/2015			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A			
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	29 DP-1	29 DP-1			
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1	22 DE-1			
Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6
1	UNTREATED CHECK			0	0	0	0	0	0
2	AUTHORITY FIRST	3.2 OZ WT/A PRE		0	99	99	99	0	95
3	AUTHORITY FIRST	6.45 OZ WT/A PRE		0	99	99	99	0	99
4	FIERCE FIRST	4 OZ WT/A PRE		0	99	99	99	0	99
5	FIERCE FIRST	6 OZ WT/A PRE		0	99	99	99	0	99
6	ENVIVE	3 OZ WT/A PRE		0	99	99	99	0	99
	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 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		SETFA	AMBTR	IPOSS		
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.		
Pest Name	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory		
Crop Code			GLXMA					
BBCH Scale			BSOY					
Crop Scientific Name			Glycine max					
Crop Name			Soybean					
Rating Date	6/2/2015	6/2/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015		
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	28 28	28 28	56 56	56 56	56 56	56 56		
Trt-Eval Interval	28 DA-A	28 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A		
Plant-Eval Interval	29 DP-1	29 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	22 DE-1	22 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1		
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 AUTHORITY FIRST	3.2 OZ WT/A PRE		93	87	0	96	85	86
3 AUTHORITY FIRST	6.45 OZ WT/A PRE		95	93	0	99	90	92
4 FIERCE FIRST	4 OZ WT/A PRE		95	89	0	99	86	86
5 FIERCE FIRST	6 OZ WT/A PRE		93	89	0	99	89	89
6 ENVIVE	3 OZ WT/A PRE		83	90	0	99	72	87
LSD P=.05			3.7	2.7	.	3.9	2.8	5.1
Standard Deviation			2.0	1.5	0.0	2.1	1.6	2.8
CV			2.66	2.0	0.0	2.59	2.22	3.83
Replicate F			1.000	1.300	0.000	1.000	0.205	4.407
Replicate Prob(F)			0.4019	0.3149	1.0000	0.4019	0.8176	0.0424
Treatment F			1029.600	1809.745	0.000	1076.800	1518.137	491.759
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

University of Kentucky

NO TILL SOYBEAN II

Trial ID: S15021 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: VAL-SOY-FF Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 GLXMA 5/4/2015
29 DP-1 = 1 GLXMA 5/4/2015
57 DP-1 = 1 GLXMA 5/4/2015

University of Kentucky

NO TILL SOYBEAN II

Trial ID: S15021 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: VAL-SOY-FF Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 180000 S/A	Planting Date: 5/4/2015
Depth, Unit: 1.25 IN	Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN	Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 59 F	Emergence Date: 5/11/2015
Soil Moisture: DRY dry	
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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 6 **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: WEWEDR wet-wet-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

A
Application Date: 5/5/2015
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 85 F
% Relative Humidity: 50
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 59 F
Soil Moisture: DRY
% Cloud Cover: 20
Next Moisture Occurred On: 5/11/2015

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

University of Kentucky

Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

University of Kentucky

NO TILL SOYBEAN III

Trial ID: S15022
Protocol ID: VAL-SOY-FXLT
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Trt	Treatment	Rate	Growth	W Weed		W Weed		W Weed		W Weed	
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	1	2
	1 UNTREATED CHECK			0	0	0	0	0	0	0	0
	2 AUTHORITY XL	4 OZ WT/A PRE		0	99	99	99	99	0	99	99
	3 AUTHORITY XL	7.5 OZ WT/A PRE		0	99	99	99	99	0	99	99
	4 FIERCE XLT	4 OZ WT/A PRE		0	99	99	99	99	0	99	99
	5 FIERCE XLT	5.25 OZ WT/A PRE		0	99	99	99	99	0	99	99
	6 ENVIVE	3 OZ WT/A PRE		0	99	99	99	99	0	99	99
	LSD P=.05			.	.	.	.	.	.	.	.
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

University of Kentucky

Pest Type		W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code		AMBTR	IPOSS		SETFA	AMBTR	IPOSS
Pest Scientific Name		Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name		Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	Morning glory
Crop Code					GLXMA		
BBCH Scale					BSOY		
Crop Scientific Name					Glycine max		
Crop Name					Soybean		
Rating Type		CONTROL	CONTROL		INJURY	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT		PERCENT	PERCENT	PERCENT
Rating Timing		4 WEEK	4 WEEK		8 WEEK	8 WEEK	8 WEEK
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	7	8	9	10	11
1 UNTREATED CHECK			0	0	0	0	0
2 AUTHORITY XL	4 OZ WT/A PRE		72	73	0	99	72
3 AUTHORITY XL	7.5 OZ WT/A PRE		88	88	0	99	88
4 FIERCE XLT	4 OZ WT/A PRE		72	84	0	99	72
5 FIERCE XLT	5.25 OZ WT/A PRE		65	75	0	99	65
6 ENVIVE	3 OZ WT/A PRE		70	83	0	99	70
LSD P=.05			5.2	4.7	.	.	5.2
Standard Deviation			2.8	2.6	0.0	0.0	2.8
CV			4.64	3.85	0.0	0.0	4.64
Replicate F			1.207	4.868	0.000	0.000	1.207
Replicate Prob(F)			0.3392	0.0334	1.0000	1.0000	0.3392
Treatment F			356.966	501.132	0.000	0.000	356.966
Treatment Prob(F)			0.0001	0.0001	1.0000	1.0000	0.0001

University of Kentucky

NO TILL SOYBEAN III

Trial ID: S15022	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: VAL-SOY-FXLT	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: JOHN CRANMER	

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO TILL SOYBEAN III

Trial ID: S15022 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: VAL-SOY-FXLT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 180000 S/A Depth, Unit: 1.25 IN Row Spacing, Unit: 7.5 IN Soil Temperature, Unit: 59 F Soil Moisture: DRY dry Seed Bed: MEDIUM medium	Planting Date: 5/4/2015 Planting Method: DRILLE drilled Planting Equipment: FE Field Equipment Emergence Date: 5/11/2015
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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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 6 **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: WEWEDR wet-wet-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

Application Date: 5/5/2015
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 85 F
% Relative Humidity: 50
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 59 F
Soil Moisture: DRY
% Cloud Cover: 20
Next Moisture Occurred On: 5/11/2015

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

University of Kentucky

Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

University of Kentucky

NO TILL SOYBEAN IV

Trial ID: S15023 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DOW-SOYBEAN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

Pest Type	Pest Code	Pest Scientific Name	Pest Name	W Weed	W Weed	W Weed	GLXMA	
				SETFA	AMBTR	IPOSS		GLXMA
				Setaria faberi	Ambrosia trifi>	Ipomoea sp.		
				Giant foxtail	Giant ragweed	Morning glory		
Crop Code				GLXMA			GLXMA	
BBCH Scale				BSOY			BSOY	
Crop Scientific Name				Glycine max			Glycine max	
Crop Name				Soybean			Soybean	
Description							AFTER POST	
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing				BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5
		Rate Unit						
1	SONIC	4.5 OZ/A	PRE	0	99	93	93	0
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
2	SONIC	6 OZ/A	PRE	0	99	99	99	0
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
3	SONIC	3 OZ/A	PRE	0	99	89	89	0
	FIRSTRATE	0.3 OZ/A	MP					
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
4	SURVEIL PREMIX	4.2 OZ/A	PRE	0	99	93	95	0
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
5	STALWART MTZ	1.5 PT/A	PRE	0	99	70	70	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP					
	AMS	3.7 % V/V	MP					
6	CHECK			0	0	0	0	0
	LSD P=.05					2.6	2.1	
	Standard Deviation			0.0	0.0	1.4	1.2	0.0
	CV			0.0	0.0	1.91	1.58	0.0
	Replicate F			0.000	0.000	4.000	1.960	0.000
	Replicate Prob(F)			1.0000	1.0000	0.0529	0.1913	1.0000
	Treatment F			0.000	0.000	2129.850	3095.584	0.000
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000

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

University of Kentucky

			W Weed	W Weed	W Weed		W Weed	W Weed	
			SETFA	AMBTR	IPOSS		SETFA	AMBTR	
			Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	
			Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	
Pest Type							GLXMA		
Pest Code							BSOY		
Pest Scientific Name							Glycine max		
Pest Name							Soybean		
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Description				AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Rating Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Timing				2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	
Trt	Treatment	Rate	Growth	6	7	8	9	10	11
No.	Name	Rate Unit	Stage						
1	SONIC	4.5 OZ/A	PRE	99	99	99	0	99	95
	DURANGO DMA	32 FL OZ/A	MP						
	AMS	2.5 % V/V	MP						
2	SONIC	6 OZ/A	PRE	99	99	99	0	99	89
	DURANGO DMA	32 FL OZ/A	MP						
	AMS	2.5 % V/V	MP						
3	SONIC	3 OZ/A	PRE	99	99	99	0	99	95
	FIRSTRATE	0.3 OZ/A	MP						
	DURANGO DMA	32 FL OZ/A	MP						
	AMS	2.5 % V/V	MP						
4	SURVEIL PREMIX	4.2 OZ/A	PRE	99	99	99	0	99	95
	DURANGO DMA	32 FL OZ/A	MP						
	AMS	2.5 % V/V	MP						
5	STALWART MTZ	1.5 PT/A	PRE	99	99	99	0	99	90
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	3.7 % V/V	MP						
6	CHECK			0	0	0	0	0	0
	LSD P=.05			.	.	.	.	.	0.9
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.5
	CV			0.0	0.0	0.0	0.0	0.0	0.61
	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	0.4019
	Treatment F			0.000	0.000	0.000	0.000	0.000	19497.252
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

University of Kentucky

			W Weed		W Weed	W Weed	W Weed	
			IPOSS		SETFA	AMBTR	IPOSS	
Pest Type				Ipomoea sp.		Setaria faberi	Ambrosia trif>	Ipomoea sp.
Pest Code				Morning glory		Giant foxtail	Giant ragweed	Morning glory
Pest Scientific Name					GLXMA			
Pest Name					BSOY			
Crop Code					Glycine max			
BBCH Scale					Soybean			
Crop Scientific Name				AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Crop Name				CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Description				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Type				4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Rating Unit								
Rating Timing								
Trt No.	Treatment Name	Rate Unit	Growth Stage	12	13	14	15	16
1	SONIC	4.5 OZ/A	PRE	98	0	99	95	98
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
2	SONIC	6 OZ/A	PRE	96	0	99	89	96
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
3	SONIC	3 OZ/A	PRE	98	0	99	95	98
	FIRSTRATE	0.3 OZ/A	MP					
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
4	SURVEIL PREMIX	4.2 OZ/A	PRE	98	0	99	95	98
	DURANGO DMA	32 FL OZ/A	MP					
	AMS	2.5 % V/V	MP					
5	STALWART MTZ	1.5 PT/A	PRE	89	0	99	90	89
	ROUNDUP POWERMAX	32 FL OZ/A	MP					
	AMS	3.7 % V/V	MP					
6	CHECK			0	0	0	0	0
	LSD P=.05			3.8	.	.	0.9	3.8
	Standard Deviation			2.1	0.0	0.0	0.5	2.1
	CV			2.63	0.0	0.0	0.61	2.63
	Replicate F			5.101	0.000	0.000	1.000	5.101
	Replicate Prob(F)			0.0297	1.0000	1.0000	0.4019	0.0297
	Treatment F			1049.785	0.000	0.000	19497.252	1049.785
	Treatment Prob(F)			0.0001	1.0000	1.0000	0.0001	0.0001

University of Kentucky

NO TILL SOYBEAN IV

Trial ID: S15023	Location: LEXINGTON, KY	Trial Year: 2015
Protocol ID: DOW-SOYBEAN	Investigator: Charles H Slack	
Project ID:	Study Director: CHARLES SLACK	
	Sponsor Contact: LAURA CAMPBELL	

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
IPOSS, Ipomoea sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO TILL SOYBEAN IV

Trial ID: S15023 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DOW-SOYBEAN Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: LAURA CAMPBELL

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA	Glycine max	Soybean
Variety: AG3832		BBCH Scale: BSOY
Planting Rate, Unit: 180000 S/A		Planting Date: 5/4/2015
Depth, Unit: 1.25 IN		Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN		Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 58 F		Emergence Date: 5/11/2015
Soil Moisture: DRY	dry	
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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 6 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	5/5/2015	6/2/2015
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	58 F
% Relative Humidity:	50	88
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	59 F	65 F
Soil Moisture:	DRY	WET
% Cloud Cover:	20	30
Next Moisture Occurred On:	5/11/2015	6/4/2015

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:	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

University of Kentucky

Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2QT PARAQUAT

University of Kentucky

NO TILL SOYBEAN V

Trial ID: S15024 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: ORO-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	IPOSS		SETFA			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Ipomoea sp.		Setaria faberi			
Pest Name	Giant foxtail	Giant ragweed	Morning glory		Giant foxtail			
Crop Code	GLXMA				GLXMA			
BBCH Scale	BSOY				BSOY			
Crop Scientific Name	Glycine max				Glycine max			
Crop Name	Soybean				Soybean			
Description	AFTER POST				AFTER POST			
Rating Date	6/22/2015	6/22/2015	6/22/2015	6/22/2015	6/26/2015	6/26/2015		
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	3 DAY	3 DAY	3 DAY	3 DAY	1 WEEK	1 WEEK		
Days After First/Last Applic.	4 4	4 4	4 4	4 4	8 8	8 8		
Trt-Eval Interval	4 DA-A	3 DA-A	3 DA-A	3 DA-A	7 DA-A	7 DA-A		
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	53 DP-1	53 DP-1		
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	46 DE-1	46 DE-1		
Trt Treatment	Rate	Growth	1	2	3	4	5	6
No. Name	Rate Unit	Stage						
1 COBRA	12.5 OZ/A	V4	33	91	98	98	23	97
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
2 CADET	0.6 OZ/A	V4	4	91	92	93	3	92
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
3 MARVEL	7.25 OZ/A	V4	25	91	95	95	18	97
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
4 FLEXSTAR GT	3.75 PT/A	V4	8	95	94	94	4	97
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
5 COBRA	12.5 OZ/A	V4	40	94	96	96	25	98
COC	0.5 % V/V	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
6 CADET	0.6 OZ/A	V4	8	83	88	88	1	96
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
7 MARVEL	7.25 OZ/A	V4	20	92	95	95	11	96
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
8 FLEXSTAR GT	3.75 PT/A	V4	4	91	94	94	3	94
AMS	2.5 % V/V	V4						
LSD P=.05			7.2	8.3	6.4	6.2	6.2	5.8
Standard Deviation			4.9	5.7	4.4	4.2	4.2	4.0
CV			28.06	6.21	4.65	4.51	38.75	4.13
Replicate F			0.778	3.986	3.776	3.438	1.393	5.550
Replicate Prob(F)			0.5195	0.0215	0.0260	0.0354	0.2725	0.0058
Treatment F			32.519	1.709	2.049	2.062	21.671	0.841
Treatment Prob(F)			0.0001	0.1610	0.0962	0.0943	0.0001	0.5660

Could not calculate LSD (% mean diff) for columns 17 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS			
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.			
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory			
Crop Code			GLXMA					
BBCH Scale			BSOY					
Crop Scientific Name			Glycine max					
Crop Name			Soybean					
Description			AFTER POST					
Rating Date	6/26/2015	6/26/2015	7/3/2015	7/3/2015	7/3/2015			
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	1 WEEK	1 WEEK	2 WEEK	2 WEEK	2 WEEK			
Days After First/Last Applic.	8 8	8 8	15 15	15 15	15 15			
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A			
Plant-Eval Interval	53 DP-1	53 DP-1	60 DP-1	60 DP-1	60 DP-1			
Days After Emergence	46 DE-1	46 DE-1	53 DE-1	53 DE-1	53 DE-1			
Trt Treatment	Rate	Growth	7	8	9	10	11	12
No. Name	Rate Unit	Stage						
1 COBRA	12.5 OZ/A	V4	99	99	23	97	99	99
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
2 CADET	0.6 OZ/A	V4	95	96	3	92	95	96
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
3 MARVEL	7.25 OZ/A	V4	98	98	18	97	98	98
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
4 FLEXSTAR GT	3.75 PT/A	V4	96	96	4	97	96	96
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
5 COBRA	12.5 OZ/A	V4	99	99	25	98	99	99
COC	0.5 % V/V	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
6 CADET	0.6 OZ/A	V4	91	91	1	96	91	91
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
7 MARVEL	7.25 OZ/A	V4	97	97	11	96	97	97
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
8 FLEXSTAR GT	3.75 PT/A	V4	97	97	3	94	97	97
AMS	2.5 % V/V	V4						
LSD P=.05			4.7	4.2	6.2	5.8	4.7	4.2
Standard Deviation			3.2	2.9	4.2	4.0	3.2	2.9
CV			3.28	2.96	38.75	4.13	3.28	2.96
Replicate F			5.632	5.385	1.393	5.550	5.632	5.385
Replicate Prob(F)			0.0054	0.0066	0.2725	0.0058	0.0054	0.0066
Treatment F			2.665	3.022	21.671	0.841	2.665	3.022
Treatment Prob(F)			0.0386	0.0232	0.0001	0.5660	0.0386	0.0232

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	IPOSS	SETFA				
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Ipomoea sp.	Setaria faberi				
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail				
Crop Code	GLXMA			GLXMA				
BBCH Scale	BSOY			BSOY				
Crop Scientific Name	Glycine max			Glycine max				
Crop Name	Soybean			Soybean				
Description	AFTER POST			AFTER POST				
Rating Date	7/17/2015	7/17/2015	7/17/2015	7/17/2015				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	4 WEEK	4 WEEK				
Days After First/Last Applic.	29 29	29 29	29 29	29 29				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A				
Plant-Eval Interval	74 DP-1	74 DP-1	74 DP-1	74 DP-1				
Days After Emergence	67 DE-1	67 DE-1	67 DE-1	67 DE-1				
Trt Treatment	Rate	Growth	13	14	15	16	17	18
No. Name	Rate Unit	Stage						
1 COBRA	12.5 OZ/A	V4	14	97	99	99	0	97
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
2 CADET	0.6 OZ/A	V4	0	92	95	96	0	92
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
3 MARVEL	7.25 OZ/A	V4	8	97	98	98	0	97
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
4 FLEXSTAR GT	3.75 PT/A	V4	0	97	96	96	0	97
AMS	2.5 % V/V	V4						
OR 009	4.8 OZ/A	V4						
5 COBRA	12.5 OZ/A	V4	11	98	99	99	0	98
COC	0.5 % V/V	V4						
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
6 CADET	0.6 OZ/A	V4	0	96	91	91	0	96
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
7 MARVEL	7.25 OZ/A	V4	1	96	97	97	0	96
ROUNDUP POWERMAX	22 FL OZ/A	V4						
AMS	2.5 % V/V	V4						
8 FLEXSTAR GT	3.75 PT/A	V4	3	94	97	97	0	94
AMS	2.5 % V/V	V4						
LSD P=.05			4.9	5.8	4.7	4.2	.	5.8
Standard Deviation			3.3	4.0	3.2	2.9	0.0	4.0
CV			73.85	4.13	3.28	2.96	0.0	4.13
Replicate F			2.116	5.550	5.632	5.385	0.000	5.550
Replicate Prob(F)			0.1286	0.0058	0.0054	0.0066	1.0000	0.0058
Treatment F			10.993	0.841	2.665	3.022	0.000	0.841
Treatment Prob(F)			0.0001	0.5660	0.0386	0.0232	1.0000	0.5660

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			W Weed	W Weed		
			AMBTR	IPOSS		
			Ambrosia trifi>	Ipomoea sp.		
			Giant ragweed	Morning glory		
						GLXMA
						BSOY
						Glycine max
						Soybean
			7/31/2015	7/31/2015		
			CONTROL	CONTROL	YIELD	
			PERCENT	PERCENT	BU	
			8 WEEK	8 WEEK		
			43 43	43 43		
			14 DA-A	14 DA-A		
			88 DP-1	88 DP-1		
			81 DE-1	81 DE-1		
Trt No.	Treatment Name	Rate Unit	Growth Stage	19	20	25
1	COBRA	12.5 OZ/A	V4	99	99	67
	ROUNDUP POWERMAX	22 FL OZ/A	V4			
	AMS	2.5 % V/V	V4			
	OR 009	4.8 OZ/A	V4			
2	CADET	0.6 OZ/A	V4	95	96	69
	ROUNDUP POWERMAX	22 FL OZ/A	V4			
	AMS	2.5 % V/V	V4			
	OR 009	4.8 OZ/A	V4			
3	MARVEL	7.25 OZ/A	V4	98	98	74
	ROUNDUP POWERMAX	22 FL OZ/A	V4			
	AMS	2.5 % V/V	V4			
	OR 009	4.8 OZ/A	V4			
4	FLEXSTAR GT	3.75 PT/A	V4	96	96	76
	AMS	2.5 % V/V	V4			
	OR 009	4.8 OZ/A	V4			
5	COBRA	12.5 OZ/A	V4	99	99	69
	COC	0.5 % V/V	V4			
	ROUNDUP POWERMAX	22 FL OZ/A	V4			
	AMS	2.5 % V/V	V4			
6	CADET	0.6 OZ/A	V4	91	91	72
	ROUNDUP POWERMAX	22 FL OZ/A	V4			
	AMS	2.5 % V/V	V4			
7	MARVEL	7.25 OZ/A	V4	97	97	73
	ROUNDUP POWERMAX	22 FL OZ/A	V4			
	AMS	2.5 % V/V	V4			
8	FLEXSTAR GT	3.75 PT/A	V4	97	97	71
	AMS	2.5 % V/V	V4			
	LSD P=.05			4.7	4.2	8.4
	Standard Deviation			3.2	2.9	5.7
	CV			3.28	2.96	7.99
	Replicate F			5.632	5.385	35.693
	Replicate Prob(F)			0.0054	0.0066	0.0001
	Treatment F			2.665	3.022	0.951
	Treatment Prob(F)			0.0386	0.0232	0.4904

University of Kentucky

NO TILL SOYBEAN V

Trial ID: S15024 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: ORO-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 AMBTR, *Ambrosia trifida*, = US
 IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
 BU = bushel

Plant-Eval Interval

49 DP-1 = 1 GLXMA 5/4/2015
 53 DP-1 = 1 GLXMA 5/4/2015
 60 DP-1 = 1 GLXMA 5/4/2015
 74 DP-1 = 1 GLXMA 5/4/2015
 88 DP-1 = 1 GLXMA 5/4/2015

ARM Action Codes

TY1 = $6.05 * [23] * (100 - [24]) / 87$

University of Kentucky

NO TILL SOYBEAN V

Trial ID: S15024 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: ORO-SB Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: FRAN CAMPBELL

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA	Glycine max	Soybean
Variety: ASGROW 3832		
Planting Rate, Unit: 180000 S/A		Planting Date: 5/4/2015
Depth, Unit: 1.5 IN		Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN		Planting Equipment: FE Field Equipment
		Emergence Date: 5/11/2015
		Harvest Date: 10/15/2015
		Harvested Width, Unit: 5 FT
Soil Temperature, Unit: 58 F		Harvested Length, Unit: 24 FT
Soil Moisture: DRY dry		Harvest Equipment: WINTERSTEIGER
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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT2 **Treatments:** 8 **Tillage Type:** NOTILL no-till
Replications: 4 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

A
Application Date: 6/18/2015
Application Method: SPRAY
Application Timing: 4TH TRI
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 85 F
% Relative Humidity: 65
Wind Velocity, Unit: 4 MPH
Wind Direction: WSW
Soil Temperature, Unit: 76 F
Soil Moisture: WET
% Cloud Cover: 30
Next Moisture Occurred On: 6/19/2015

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY
Stage Scale Used: BBCH
Stage Majority, Percent: V4 100
Height, Unit: 18 IN

Pest Stage At Each Application

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

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Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

University of Kentucky

NO TILL SOYBEAN VI

Trial ID: S15025
Protocol ID: HGLXMAPET1502
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: ANDY KENDIG

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed			
Pest Code		SETFA	AMBTR	IPOSS		SETFA	AMBTR			
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>			
Pest Name		Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed			
Crop Code	GLXMA				GLXMA					
BBCH Scale	BSOY				BSOY					
Crop Scientific Name	Glycine max				Glycine max					
Crop Name	Soybean				Soybean					
Rating Date	5/19/2015	5/19/2015	5/19/2015	5/19/2015	6/2/2015	6/2/2015	6/2/2015			
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28	28 28			
Trt-Eval Interval	24 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A			
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	29 DP-1	29 DP-1	29 DP-1			
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-1	22 DE-1	22 DE-1			
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5	6	7
1	CHA-2745	1.0 LB A/A PRE		0	99	90	90	0	92	74
2	CHA-2745	1.25 LB A/A PRE		0	99	81	80	0	92	73
3	CHA-2745	1.5 LB A/A PRE		0	99	86	83	0	92	80
4	CHA-2745	1.25 LB A/A PRE		0	99	90	90	0	99	87
	DAWN	0.30 LB A/A PRE								
5	CHA-2745	1.25 LB A/A PRE		0	99	99	99	0	99	97
	CHA-060	0.026 LB A/A PRE								
6	CHA-2745	1.25 LB A/A PRE		0	98	89	87	0	98	75
	SPARTAN	0.14 LB A/A PRE								
7	CHA-2745	1.0 LB A/A PRE		0	99	99	99	0	99	98
	CHA-060	0.023 LB A/A PRE								
	DAWN	0.28 LB A/A PRE								
8	CHA-2745	1.0 LB A/A PRE		0	99	99	99	0	99	97
	CHA-060	0.02 LB A/A PRE								
	SPARTAN	0.16 LB A/A PRE								
9	DUAL MAGNUM	1.0 LB A/A PRE		0	99	53	30	0	99	45
10	SPARTAN	0.14 LB A/A PRE		0	96	70	70	0	96	69
11	AUTHORITY ELITE	1.37 LB A/A PRE		0	95	81	80	0	95	78
12	UNTREATED			0	0	0	0	0	0	0
	LSD P=.05			.	1.0	2.6	1.5	.	9.3	11.5
	Standard Deviation			0.0	0.7	1.8	1.0	0.0	6.5	8.0
	CV			0.0	0.79	2.28	1.36	0.0	7.33	11.05
	Replicate F			0.000	1.360	1.907	0.914	0.000	4.216	0.133
	Replicate Prob(F)			1.0000	0.2722	0.1477	0.4448	1.0000	0.0125	0.9395
	Treatment F			0.000	6378.439	990.601	3469.447	0.000	74.697	46.200
	Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

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

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifid	Ipomoea sp.
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	6/2/2015	6/26/2015	6/26/2015	6/26/2015
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.	28 28	52 52	52 52	52 52
Trt-Eval Interval	28 DA-A	52 DA-A	52 DA-A	52 DA-A
Plant-Eval Interval	29 DP-1	53 DP-1	53 DP-1	53 DP-1
Days After Emergence	22 DE-1	46 DE-1	46 DE-1	46 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12
1	CHA-2745	1.0 LB A/A PRE		78	0	92	61	61
2	CHA-2745	1.25 LB A/A PRE		75	0	92	38	50
3	CHA-2745	1.5 LB A/A PRE		74	0	92	35	61
4	CHA-2745	1.25 LB A/A PRE		79	0	99	70	68
	DAWN	0.30 LB A/A PRE						
5	CHA-2745	1.25 LB A/A PRE		98	0	99	85	88
	CHA-060	0.026 LB A/A PRE						
6	CHA-2745	1.25 LB A/A PRE		77	0	98	58	68
	SPARTAN	0.14 LB A/A PRE						
7	CHA-2745	1.0 LB A/A PRE		98	0	99	80	90
	CHA-060	0.023 LB A/A PRE						
	DAWN	0.28 LB A/A PRE						
8	CHA-2745	1.0 LB A/A PRE		98	0	99	85	90
	CHA-060	0.02 LB A/A PRE						
	SPARTAN	0.16 LB A/A PRE						
9	DUAL MAGNUM	1.0 LB A/A PRE		30	0	99	43	30
10	SPARTAN	0.14 LB A/A PRE		74	0	96	43	68
11	AUTHORITY ELITE	1.37 LB A/A PRE		78	0	95	45	43
12	UNTREATED			0	0	0	0	0
	LSD P=.05			13.1	.	9.3	6.2	7.5
	Standard Deviation			9.1	0.0	6.5	4.3	5.2
	CV			12.72	0.0	7.33	8.09	8.77
	Replicate F			0.606	0.000	4.216	5.375	0.432
	Replicate Prob(F)			0.6155	1.0000	0.0125	0.0040	0.7316
	Treatment F			40.167	0.000	74.697	132.403	101.903
	Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001	0.0001

University of Kentucky

NO TILL SOYBEAN VI

Trial ID: S15025
Protocol ID: HGLXMAPET1502
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: ANDY KENDIG

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea sp.*, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 GLXMA 5/4/2015
29 DP-1 = 1 GLXMA 5/4/2015
53 DP-1 = 1 GLXMA 5/4/2015

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NO TILL SOYBEAN VI

Trial ID: S15025 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: HGLXMAPET1502 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: ANDY KENDIG

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA	Glycine max	Soybean
Variety: AG3832		BBCH Scale: BSOY
Planting Rate, Unit: 180000 S/A		Planting Date: 5/4/2015
Depth, Unit: 1.25 IN		Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN		Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 58 F		Emergence Date: 5/11/2015
Soil Moisture: DRY	dry	
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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 33 FT
Treated Plot Area: 280.5 FT² **Treatments:** 12 **Tillage Type:** NOTILL no-till
Replications: 4 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

A
Application Date: 5/5/2015
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 80 F
% Relative Humidity: 50
Wind Velocity, Unit: 4 MPH
Wind Direction: SW
Soil Temperature, Unit: 59 F
Soil Moisture: DRY
% Cloud Cover: 20
Next Moisture Occurred On: 5/11/2015

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

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Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

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NO TILL SOYBEAN VII

Trial ID: S15026
Protocol ID: MON-24-04-SB
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: DAN CHILDS

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	GLXMA				GLXMA
BBCH Scale	BSOY				BSOY
Crop Scientific Name	Glycine max				Glycine max
Crop Name	Soybean				Soybean
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	6/18/2015	6/18/2015	6/18/2015	6/18/2015	7/2/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	44 14	58 28
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	59 DP-1
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	55 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5
1	ROWEL	3 OZ WT/A	PRE	0	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
2	ROWEL FX	4 OZ WT/A	PRE	0	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
3	ROWEL	2 OZ WT/A	PRE	0	99	99	99	0
	WARRANT	48 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
4	WARRANT	48 FL OZ/A	PRE	10	99	99	99	0
	REFLEX	16 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	COBRA	10 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
5	WARRANT	48 FL OZ/A	PRE	10	99	99	99	0
	TRICOR	5 OZ WT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
6	AUTHORITY FIRST	5 OZ WT/A	PRE	15	99	99	99	0
	WARRANT	48 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
7	AUTHORITY MAXX	6.4 OZ WT/A	PRE	15	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	CADET	0.8 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
8	FIERCE	3.5 OZ WT/A	PRE	15	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	COBRA	10 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
9	ZIDUA	2.75 OZ WT/A	PRE	20	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	ULTRA BLAZER	16 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					

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

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	GLXMA				GLXMA
BBCH Scale	BSOY				BSOY
Crop Scientific Name	Glycine max				Glycine max
Crop Name	Soybean				Soybean
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	6/18/2015	6/18/2015	6/18/2015	6/18/2015	7/2/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	44 14	44 14	44 14	44 14	58 28
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	59 DP-1
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	55 DE-1

Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
10	VERDICT	5 FL OZ/A	PRE	25	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	ULTRA BLAZER	16 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
11	BROADAXE XC	25 FL OZ/A	PRE	10	99	99	99	0
	FLEXSTAR GT	56 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
12	BOUNDARY	24 FL OZ/A	PRE	0	99	99	99	0
	TOUCHDOWN TOTAL	33.8 FL OZ/A	V3					
	PREFIX	32 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
13	TRIVENCE	7.25 OZ WT/A	PRE	10	99	99	99	0
	ABUNDIT EXTRA	32 FL OZ/A	V3					
	COBRA	10 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
14	WARRANT	48 FL OZ/A	PRE	10	99	99	99	0
	TRICOR	5 OZ WT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
LSD P=.05				0.0	0.0	0.0	0.0	0.0
Standard Deviation				0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	7/2/2015	7/2/2015	7/2/2015	7/30/2015
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	58 28	58 28	58 28	86 56
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	87 DP-1
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	83 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	6	7	8	9	10
1	ROWEL	3 OZ WT/A	PRE	99	95	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
2	ROWEL FX	4 OZ WT/A	PRE	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
3	ROWEL	2 OZ WT/A	PRE	99	93	99	0	99
	WARRANT	48 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
4	WARRANT	48 FL OZ/A	PRE	99	92	99	0	99
	REFLEX	16 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	COBRA	10 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
5	WARRANT	48 FL OZ/A	PRE	99	92	99	0	99
	TRICOR	5 OZ WT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
6	AUTHORITY FIRST	5 OZ WT/A	PRE	99	90	99	0	99
	WARRANT	48 FL OZ/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
7	AUTHORITY MAXX	6.4 OZ WT/A	PRE	99	98	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	CADET	0.8 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
8	FIERCE	3.5 OZ WT/A	PRE	99	87	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	COBRA	10 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
9	ZIDUA	2.75 OZ WT/A	PRE	99	91	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	ULTRA BLAZER	16 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	7/2/2015	7/2/2015	7/2/2015	7/30/2015
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.	58 28	58 28	58 28	86 56
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	87 DP-1
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	83 DE-1

Trt No.	Treatment Name	Rate Unit	Growth Stage	6	7	8	9	10
10	VERDICT	5 FL OZ/A	PRE	99	87	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	ULTRA BLAZER	16 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
11	BROADAXE XC	25 FL OZ/A	PRE	99	95	95	0	99
	FLEXSTAR GT	56 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
12	BOUNDARY	24 FL OZ/A	PRE	99	95	99	0	99
	TOUCHDOWN TOTAL	33.8 FL OZ/A	V3					
	PREFIX	32 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
13	TRIVENCE	7.25 OZ WT/A	PRE	99	93	99	0	99
	ABUNDIT EXTRA	32 FL OZ/A	V3					
	COBRA	10 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
14	WARRANT	48 FL OZ/A	PRE	99	95	99	0	99
	TRICOR	5 OZ WT/A	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	V3					
	WARRANT	48 FL OZ/A	V3					
	FLEXSTAR	17 FL OZ/A	V3					
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3					
LSD P=.05					4.6			
Standard Deviation				0.0	2.8	0.0	0.0	0.0
CV				0.0	2.98	0.0	0.0	0.0
Replicate F				0.000	1.736	0.000	0.000	0.000
Replicate Prob(F)				1.0000	0.1961	1.0000	1.0000	1.0000
Treatment F				0.000	4.794	0.000	0.000	0.000
Treatment Prob(F)				1.0000	0.0003	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Giant ragweed	Morning glory	
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Scientific Name			Glycine max
Crop Name			Soybean
Description	AFTER POST	AFTER POST	
Rating Date	7/30/2015	7/30/2015	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	
Days After First/Last Applic.	86 56	86 56	
Plant-Eval Interval	87 DP-1	87 DP-1	
Days After Emergence	83 DE-1	83 DE-1	

Trt No.	Treatment Name	Rate	Growth Stage	11	12	17
		Rate Unit				
1	ROWEL	3 OZ WT/A	PRE	95	99	68
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	WARRANT	48 FL OZ/A	V3			
	FLEXSTAR	17 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
2	ROWEL FX	4 OZ WT/A	PRE	99	99	69
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	WARRANT	48 FL OZ/A	V3			
	FLEXSTAR	17 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
3	ROWEL	2 OZ WT/A	PRE	93	99	62
	WARRANT	48 FL OZ/A	PRE			
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	WARRANT	48 FL OZ/A	V3			
	FLEXSTAR	17 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
4	WARRANT	48 FL OZ/A	PRE	92	99	64
	REFLEX	16 FL OZ/A	PRE			
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	COBRA	10 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
5	WARRANT	48 FL OZ/A	PRE	92	99	59
	TRICOR	5 OZ WT/A	PRE			
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	FLEXSTAR	17 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
6	AUTHORITY FIRST	5 OZ WT/A	PRE	90	99	60
	WARRANT	48 FL OZ/A	PRE			
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	FLEXSTAR	17 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
7	AUTHORITY MAXX	6.4 OZ WT/A	PRE	98	99	62
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	CADET	0.8 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
8	FIERCE	3.5 OZ WT/A	PRE	87	99	43
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	COBRA	10 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
9	ZIDUA	2.75 OZ WT/A	PRE	91	99	47
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	ULTRA BLAZER	16 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			

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Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	
Pest Name	Giant ragweed	Morning glory	
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Scientific Name			Glycine max
Crop Name			Soybean
Description	AFTER POST	AFTER POST	
Rating Date	7/30/2015	7/30/2015	
Rating Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Rating Timing	8 WEEK	8 WEEK	
Days After First/Last Applic.	86 56	86 56	
Plant-Eval Interval	87 DP-1	87 DP-1	
Days After Emergence	83 DE-1	83 DE-1	

Trt No.	Treatment Name	Rate Unit	Growth Stage	11	12	17
10	VERDICT	5 FL OZ/A	PRE	87	99	46
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	ULTRA BLAZER	16 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
11	BROADAXE XC	25 FL OZ/A	PRE	95	99	60
	FLEXSTAR GT	56 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
12	BOUNDARY	24 FL OZ/A	PRE	95	99	57
	TOUCHDOWN TOTAL	33.8 FL OZ/A	V3			
	PREFIX	32 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
13	TRIVENCE	7.25 OZ WT/A	PRE	93	99	72
	ABUNDIT EXTRA	32 FL OZ/A	V3			
	COBRA	10 FL OZ/A	V3			
	WARRANT	48 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
14	WARRANT	48 FL OZ/A	PRE	95	99	64
	TRICOR	5 OZ WT/A	PRE			
	ROUNDUP POWERMAX	32 FL OZ/A	V3			
	WARRANT	48 FL OZ/A	V3			
	FLEXSTAR	17 FL OZ/A	V3			
	CLASS ACT NEXT GENERATION	2.5 % V/V	V3			
	LSD P=.05			4.6	.	4.2
	Standard Deviation			2.8	0.0	2.5
	CV			2.98	0.0	4.19
	Replicate F			1.736	0.000	10.693
	Replicate Prob(F)			0.1961	1.0000	0.0004
	Treatment F			4.794	0.000	36.639
	Treatment Prob(F)			0.0003	1.0000	0.0001

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NO TILL SOYBEAN VII

Trial ID: S15026
Protocol ID: MON-24-04-SB
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: DAN CHILDS

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
IPOSS, Ipomoea sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
BU = bushel

Plant-Eval Interval

45 DP-1 = 1 GLXMA 5/4/2015
59 DP-1 = 1 GLXMA 5/4/2015
87 DP-1 = 1 GLXMA 5/4/2015

ARM Action Codes

TY1 = 4.033333*[15]*(100-[16])/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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 14 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

No. Previous Crop
1. Soybean

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: WEDRWWE wet-dry-wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B
Application Date:	5/5/2015	6/4/2015
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	82 F
% Relative Humidity:	50	60
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	59 F	65 F
Soil Moisture:	DRY	SLIWET
% Cloud Cover:	20	35
Next Moisture Occurred On:	5/11/2015	6/8/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3 95
Height, Unit:		6 IN

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	3 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	5 IN	5 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2.5 IN	2.5 IN

Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

University of Kentucky

NO TILL SOYBEAN VIII

Trial ID: S15027 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: SYN-SOY-NT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

			W Weed	W Weed	W Weed	W Weed			
			SETFA	AMBTR	IPOSS	SETFA			
			Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi			
			Giant foxtail	Giant ragweed	Morning glory	Giant foxtail			
Pest Type			GLXMA			GLXMA			
Pest Code			BSOY			BSOY			
Pest Scientific Name			Glycine max			Glycine max			
Pest Name			Soybean			Soybean			
Crop Code			AFTER POST			AFTER POST			
BBCH Scale			INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	
Crop Scientific Name			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Crop Name			2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	
Description									
Rating Type									
Rating Unit									
Rating Timing									
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	1	2	3	4	5	6
1	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	BOUNDARY	1.5 PT/A	PRE						
	FLEXSTAR GT	3.5 PT/A	EP						
2	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	PREFIX	2 PT/A	PRE						
	SEQUENCE	2.5 PT/A	EP						
3	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	BOUNDARY	1.5 PT/A	PRE						
	PREFIX	2 PT/A	EP						
	TOUCHDOWN TOTAL	32 FL OZ/A	EP						
4	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	BROADAXE XC	25 OZ/A	PRE						
	PREFIX	2 PT/A	EP						
	TOUCHDOWN TOTAL	32 FL OZ/A	EP						
5	SEQUENCE	2.5 PT/A	PRE	0	99	99	99	0	99
	PREFIX	2 PT/A	EP						
	TOUCHDOWN TOTAL	32 FL OZ/A	EP						
6	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	STALWART MTZ	1.5 PT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
7	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	AUTHORITY MAXX	5 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
8	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	AUTHORITY MTZ	14 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
9	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	ANTHEM	6.5 OZ/A	PRE						
	AUTHORITY MTZ	14 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
10	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	VALOR XLT	3 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
11	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	AUTHORITY FIRST	6.45 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
12	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	FIERCE	4.5 OZ WT/A	PRE						
	GANGSTER FR	0.45 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
13	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	ENVIVE	3 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
14	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	OPTILL	2 OZ WT/A	PRE						
	ZIDUA	2 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						

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

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	IPOSS	SETFA					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi					
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail					
Crop Code	GLXMA			GLXMA					
BBCH Scale	BSOY			BSOY					
Crop Scientific Name	Glycine max			Glycine max					
Crop Name	Soybean			Soybean					
Description	AFTER POST			AFTER POST					
Rating Type	INJURY	CONTROL	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK					
Trt	Treatment	Rate	Growth	1	2	3	4	5	6
No.	Name	Rate Unit	Stage						
15	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	VERDICT	5 FL OZ/A	PRE						
	ZIDUA	2.5 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
16	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	ZIDUA	2.5 OZ WT/A	PRE						
	SHARPEN	1 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
17	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	SONIC	4.5 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
18	GRAMOXONE	2.5 PT/A	PRE	0	99	99	99	0	99
	ZIDUA	2.5 OZ WT/A	PRE						
	SHARPEN	1 FL OZ/A	PRE						
	METRIBUZIN	5 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 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

University of Kentucky

			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
			AMBTR	IPOSS	SETFA	AMBTR	IPOSS		
Pest Type			Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.		
Pest Code			Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory		
Pest Scientific Name									
Pest Name									
Crop Code					GLXMA				
BBCH Scale					BSOY				
Crop Scientific Name					Glycine max				
Crop Name					Soybean				
Description			AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Rating Type			CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Timing			4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	7	8	9	10	11	12
1	GRAMOXONE BOUNDARY	2.5 PT/A	PRE	92	99	0	99	92	99
	FLEXSTAR GT	1.5 PT/A	PRE						
		3.5 PT/A	EP						
2	GRAMOXONE PREFIX	2.5 PT/A	PRE	93	99	0	99	93	99
	SEQUENCE	2 PT/A	PRE						
		2.5 PT/A	EP						
3	GRAMOXONE BOUNDARY	2.5 PT/A	PRE	93	99	0	99	93	99
	PREFIX	1.5 PT/A	PRE						
		2 PT/A	EP						
	TOUCHDOWN TOTAL	32 FL OZ/A	EP						
4	GRAMOXONE BROADAXE XC	2.5 PT/A	PRE	90	99	0	99	90	99
	PREFIX	25 OZ/A	PRE						
		2 PT/A	EP						
	TOUCHDOWN TOTAL	32 FL OZ/A	EP						
5	SEQUENCE PREFIX	2.5 PT/A	PRE	92	99	0	99	92	99
		2 PT/A	EP						
	TOUCHDOWN TOTAL	32 FL OZ/A	EP						
6	GRAMOXONE STALWART MTZ	2.5 PT/A	PRE	89	97	0	99	89	99
	ROUNDUP POWERMAX	1.5 PT/A	PRE						
		32 FL OZ/A	MP						
7	GRAMOXONE AUTHORITY MAXX	2.5 PT/A	PRE	95	99	0	99	95	99
		5 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
8	GRAMOXONE AUTHORITY MTZ	2.5 PT/A	PRE	89	99	0	99	89	99
		14 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
9	GRAMOXONE ANTHEM	2.5 PT/A	PRE	89	99	0	99	89	99
		6.5 OZ/A	PRE						
	AUTHORITY MTZ	14 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
10	GRAMOXONE VALOR XLT	2.5 PT/A	PRE	95	99	0	99	95	99
		3 OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
11	GRAMOXONE AUTHORITY FIRST	2.5 PT/A	PRE	88	99	0	99	88	99
		6.45 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
12	GRAMOXONE FIERCE	2.5 PT/A	PRE	93	99	0	99	93	99
		4.5 OZ WT/A	PRE						
	GANGSTER FR	0.45 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
13	GRAMOXONE ENVIVE	2.5 PT/A	PRE	93	99	0	99	93	99
		3 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
14	GRAMOXONE OPTILL	2.5 PT/A	PRE	90	99	0	99	90	99
		2 OZ WT/A	PRE						
	ZIDUA	2 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS				
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.				
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Morning glory				
Crop Code			GLXMA						
BBCH Scale			BSOY						
Crop Scientific Name			Glycine max						
Crop Name			Soybean						
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Rating Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK				
Trt	Treatment	Rate	Growth	7	8	9	10	11	12
No.	Name	Rate Unit	Stage						
15	GRAMOXONE	2.5 PT/A	PRE	89	99	0	99	89	99
	VERDICT	5 FL OZ/A	PRE						
	ZIDUA	2.5 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
16	GRAMOXONE	2.5 PT/A	PRE	90	99	0	99	90	99
	ZIDUA	2.5 OZ WT/A	PRE						
	SHARPEN	1 FL OZ/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
17	GRAMOXONE	2.5 PT/A	PRE	86	99	0	99	86	99
	SONIC	4.5 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
18	GRAMOXONE	2.5 PT/A	PRE	86	99	0	99	86	99
	ZIDUA	2.5 OZ WT/A	PRE						
	SHARPEN	1 FL OZ/A	PRE						
	METRIBUZIN	5 OZ WT/A	PRE						
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	LSD P=.05			3.9	1.6	.	.	3.9	.
	Standard Deviation			2.4	1.0	0.0	0.0	2.4	0.0
	CV			2.63	0.96	0.0	0.0	2.63	0.0
	Replicate F			3.876	1.000	0.000	0.000	3.876	0.000
	Replicate Prob(F)			0.0305	0.3784	1.0000	1.0000	0.0305	1.0000
	Treatment F			3.866	1.000	0.000	0.000	3.866	0.000
	Treatment Prob(F)			0.0004	0.4813	1.0000	1.0000	0.0004	1.0000

University of Kentucky

NO TILL SOYBEAN VIII

Trial ID: S15027 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: SYN-SOY-NT Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: SCOTT CULLY

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

NO TILL SOYBEAN VIII

Trial ID: S15027 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: SYN-SOY-NT Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: SCOTT CULLY

General Trial Information

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

Discipline: H herbicide
Trial Status: C
Initiation Date: 5/4/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 180000 S/A	Planting Date: 5/4/2015
Depth, Unit: 1.25 IN	Planting Method: DRILLE drilled
Row Spacing, Unit: 7.5 IN	Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 58 F	Emergence Date: 5/11/2015
Soil Moisture: DRY dry	
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

Site and Design

Treated Plot Width: 8.5 FT **Site Type:** FIELD field
Treated Plot Length: 44 FT
Treated Plot Area: 374 FT² **Treatments:** 18 **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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2 MI

Application Description

	A	B	C
Application Date:	5/5/2015	6/2/2015	6/2/2015
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	57 F	57 F
% Relative Humidity:	50	88	88
Wind Velocity, Unit:	8 MPH	4 MPH	4 MPH
Wind Direction:	SW	WSW	WSW
Soil Temperature, Unit:	58 F	64 F	64 F
Soil Moisture:	DRY	WET	WET
% Cloud Cover:	20	30	30
Next Moisture Occurred On:	5/11/2015	6/4/2015	6/4/2015

Crop Stage At Each Application

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

Pest Stage At Each Application

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

University of Kentucky

Application Equipment

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

Date	By	Notes
5/5/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT PARAQUAT

University of Kentucky

SOYBEAN POSTEMERGENCE

Trial ID: S15028
Protocol ID: BAYER-HP15USAWGB
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: MARK WADDINGTON

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	GLXMA				GLXMA
BBCH Scale	BSOY				BSOY
Crop Scientific Name	Glycine max				Glycine max
Crop Name	Soybean				Soybean
Description					AFTER POST
Rating Date					
Rating Type		INJURY	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing		BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST
Days After First/Last Applic.					2 WEEK
Plant-Eval Interval					
Days After Emergence					

Trt	Treatment	Rate	Growth	1	2	3	4	5
No.	Name	Rate Unit	Stage					
1	UNTREATED			0	0	0	0	0
2	AUTHORITY FIRST	6.5 OZ/A	PRE	0	99	89	89	0
	LIBERTY 280	29 FL OZ/A	>V4					
	AMS	8.5 LB AI/100 GAL	>V4					
	LIBERTY 280	29 FL OZ/A	IFN					
	AMS	8.5 LB AI/100 GAL	IFN					
3	FIERCE	3.5 OZ/A	PRE	0	99	83	90	0
	LIBERTY 280	29 FL OZ/A	>V4					
	AMS	8.5 LB AI/100 GAL	>V4					
	LIBERTY 280	29 FL OZ/A	IFN					
	AMS	8.5 LB AI/100 GAL	IFN					
4	VALOR XLT	3.5 OZ/A	PRE	0	99	95	95	0
	VALOR SX	2.06 OZ/A	PRE					
	CLASSIC	1.44 OZ/A	PRE					
	LIBERTY 280	29 FL OZ/A	V3-EP					
	ZIDUA	2 OZ/A	V3-EP					
	AMS	8.5 LB AI/100 GAL	V3-EP					
	LIBERTY 280	29 FL OZ/A	IFN					
	AMS	8.5 LB AI/100 GAL	IFN					
5	LIBERTY 280	29 FL OZ/A	V3-EP	0	0	0	0	0
	PREFIX	2 PT/A	V3-EP					
	AMS	8.5 LB AI/100 GAL	V3-EP					
	LIBERTY 280	29 FL OZ/A	>V4					
	WARRANT	3 PT/A	>V4					
	AMS	8.5 LB AI/100 GAL	>V4					
6	OPTILL	2 OZ/A	PRE	0	99	80	80	0
	OUTLOOK	10 OZ/A	PRE					
	LIBERTY 280	29 FL OZ/A	>V4					
	AMS	8.5 LB AI/100 GAL	>V4					
	LIBERTY 280	29 FL OZ/A	IFN					
	AMS	8.5 LB AI/100 GAL	IFN					
7	ENVIVE	4 OZ/A	PRE	0	99	80	80	0
	LIBERTY 280	29 FL OZ/A	V3-EP					
	OUTLOOK	14 OZ/A	V3-EP					
	AMS	8.5 LB AI/100 GAL	V3-EP					
	LIBERTY 280	29 FL OZ/A	IFN					
	AMS	8.5 LB AI/100 GAL	IFN					

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

University of Kentucky

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Name		Giant foxtail	Giant ragweed	Morning glory	
Crop Code	GLXMA				GLXMA
BBCH Scale	BSOY				BSOY
Crop Scientific Name	Glycine max				Glycine max
Crop Name	Soybean				Soybean
Description					AFTER POST
Rating Date					
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK
Days After First/Last Applic.					
Plant-Eval Interval					
Days After Emergence					

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
8	LIBERTY 280	29	FL OZ/A	V3-EP	0	0	0	0	0
	OUTLOOK	14	OZ/A	V3-EP					
	AMS	8.5	LB AI/100 GAL	V3-EP					
	LIBERTY 280	29	FL OZ/A	>V4					
	WARRANT	3	PT/A	>V4					
	AMS	8.5	LB AI/100 GAL	>V4					
	LSD P=.05						1.8	0.7	
	Standard Deviation				0.0	0.0	1.0	0.4	0.0
	CV				0.0	0.0	1.95	0.75	0.0
	Replicate F				0.000	0.000	1.874	1.000	0.000
	Replicate Prob(F)				1.0000	1.0000	0.1900	0.3927	1.0000
	Treatment F				0.000	0.000	5463.951	36835.111	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	1.0000

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	7/15/2015	7/15/2015	7/15/2015		
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	69 19	69 19	69 19		
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1		
Days After Emergence	64 DE-1	64 DE-1	64 DE-1		

Trt	Treatment	Rate	Growth	6	7	8	9	10	11
No.	Name	Rate Unit	Stage						
1	UNTREATED			0	0	0	0	0	0
2	AUTHORITY FIRST	6.5 OZ/A	PRE	99	99	99	0	99	99
	LIBERTY 280	29 FL OZ/A	>V4						
	AMS	8.5 LB AI/100 GAL	>V4						
	LIBERTY 280	29 FL OZ/A	IFN						
	AMS	8.5 LB AI/100 GAL	IFN						
3	FIERCE	3.5 OZ/A	PRE	99	99	99	0	99	90
	LIBERTY 280	29 FL OZ/A	>V4						
	AMS	8.5 LB AI/100 GAL	>V4						
	LIBERTY 280	29 FL OZ/A	IFN						
	AMS	8.5 LB AI/100 GAL	IFN						
4	VALOR XLT	3.5 OZ/A	PRE	99	99	99	0	99	89
	VALOR SX	2.06 OZ/A	PRE						
	CLASSIC	1.44 OZ/A	PRE						
	LIBERTY 280	29 FL OZ/A	V3-EP						
	ZIDUA	2 OZ/A	V3-EP						
	AMS	8.5 LB AI/100 GAL	V3-EP						
	LIBERTY 280	29 FL OZ/A	IFN						
	AMS	8.5 LB AI/100 GAL	IFN						
5	LIBERTY 280	29 FL OZ/A	V3-EP	99	99	99	0	99	99
	PREFIX	2 PT/A	V3-EP						
	AMS	8.5 LB AI/100 GAL	V3-EP						
	LIBERTY 280	29 FL OZ/A	>V4						
	WARRANT	3 PT/A	>V4						
	AMS	8.5 LB AI/100 GAL	>V4						
6	OPTILL	2 OZ/A	PRE	99	99	99	0	99	89
	OUTLOOK	10 OZ/A	PRE						
	LIBERTY 280	29 FL OZ/A	>V4						
	AMS	8.5 LB AI/100 GAL	>V4						
	LIBERTY 280	29 FL OZ/A	IFN						
	AMS	8.5 LB AI/100 GAL	IFN						
7	ENVIVE	4 OZ/A	PRE	99	99	99	0	99	90
	LIBERTY 280	29 FL OZ/A	V3-EP						
	OUTLOOK	14 OZ/A	V3-EP						
	AMS	8.5 LB AI/100 GAL	V3-EP						
	LIBERTY 280	29 FL OZ/A	IFN						
	AMS	8.5 LB AI/100 GAL	IFN						

University of Kentucky

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	7/15/2015	7/15/2015	7/15/2015		
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	69 19	69 19	69 19		
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1		
Days After Emergence	64 DE-1	64 DE-1	64 DE-1		

Trt No.	Treatment Name	Rate Unit	Growth Stage	6	7	8	9	10	11
8	LIBERTY 280	29 FL OZ/A	V3-EP	99	99	99	0	99	89
	OUTLOOK	14 OZ/A	V3-EP						
	AMS	8.5 LB AI/100 GAL	V3-EP						
	LIBERTY 280	29 FL OZ/A	>V4						
	WARRANT	3 PT/A	>V4						
	AMS	8.5 LB AI/100 GAL	>V4						
	LSD P=.05								1.1
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.6
	CV			0.0	0.0	0.0	0.0	0.0	0.79
	Replicate F			0.000	0.000	0.000	0.000	0.000	2.882
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0895
	Treatment F			0.000	0.000	0.000	0.000	0.000	8001.118
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.				
Plant-Eval Interval				
Days After Emergence				

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15	16
1	UNTREATED				0	0	0	0	0
2	AUTHORITY FIRST	6.5 OZ/A		PRE	99	0	99	99	99
	LIBERTY 280	29 FL OZ/A		>V4					
	AMS	8.5 LB AI/100 GAL		>V4					
	LIBERTY 280	29 FL OZ/A		IFN					
	AMS	8.5 LB AI/100 GAL		IFN					
3	FIERCE	3.5 OZ/A		PRE	99	0	99	90	99
	LIBERTY 280	29 FL OZ/A		>V4					
	AMS	8.5 LB AI/100 GAL		>V4					
	LIBERTY 280	29 FL OZ/A		IFN					
	AMS	8.5 LB AI/100 GAL		IFN					
4	VALOR XLT	3.5 OZ/A		PRE	99	0	99	89	99
	VALOR SX	2.06 OZ/A		PRE					
	CLASSIC	1.44 OZ/A		PRE					
	LIBERTY 280	29 FL OZ/A		V3-EP					
	ZIDUA	2 OZ/A		V3-EP					
	AMS	8.5 LB AI/100 GAL		V3-EP					
	LIBERTY 280	29 FL OZ/A		IFN					
	AMS	8.5 LB AI/100 GAL		IFN					
5	LIBERTY 280	29 FL OZ/A		V3-EP	99	0	99	99	99
	PREFIX	2 PT/A		V3-EP					
	AMS	8.5 LB AI/100 GAL		V3-EP					
	LIBERTY 280	29 FL OZ/A		>V4					
	WARRANT	3 PT/A		>V4					
	AMS	8.5 LB AI/100 GAL		>V4					
6	OPTILL	2 OZ/A		PRE	99	0	99	89	99
	OUTLOOK	10 OZ/A		PRE					
	LIBERTY 280	29 FL OZ/A		>V4					
	AMS	8.5 LB AI/100 GAL		>V4					
	LIBERTY 280	29 FL OZ/A		IFN					
	AMS	8.5 LB AI/100 GAL		IFN					
7	ENVIVE	4 OZ/A		PRE	99	0	99	90	99
	LIBERTY 280	29 FL OZ/A		V3-EP					
	OUTLOOK	14 OZ/A		V3-EP					
	AMS	8.5 LB AI/100 GAL		V3-EP					
	LIBERTY 280	29 FL OZ/A		IFN					
	AMS	8.5 LB AI/100 GAL		IFN					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	IPOSS
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date				
Rating Type	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.				
Plant-Eval Interval				
Days After Emergence				

Trt No.	Treatment Name	Rate	Unit	Growth Stage	12	13	14	15	16
8	LIBERTY 280	29	FL OZ/A	V3-EP	99	0	99	89	99
	OUTLOOK	14	OZ/A	V3-EP					
	AMS	8.5	LB AI/100 GAL	V3-EP					
	LIBERTY 280	29	FL OZ/A	>V4					
	WARRANT	3	PT/A	>V4					
	AMS	8.5	LB AI/100 GAL	>V4					
	LSD P=.05							1.1	
	Standard Deviation				0.0	0.0	0.0	0.6	0.0
	CV				0.0	0.0	0.0	0.79	0.0
	Replicate F				0.000	0.000	0.000	2.882	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	0.0895	1.0000
	Treatment F				0.000	0.000	0.000	8001.118	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001	1.0000

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SOYBEAN POSTEMERGENCE

Trial ID: S15028
Protocol ID: BAYER-HP15USAWGB
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: MARK WADDINGTON

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

70 DP-1 = 1 GLXMA 5/6/2015

University of Kentucky

SOYBEAN POSTEMERGENCE

Trial ID: S15028 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: BAYER-HP15USAWGB Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: MARK WADDINGTON

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: CZ3945LL
Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.25 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Soil Temperature, Unit: 60 F **Emergence Date:** 5/12/2015
Soil Moisture: DRY dry
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

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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B	C	D
Application Date:	5/7/2015	5/20/2015	5/27/2015	6/26/2015
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP/V3	V3	V4
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	69 F	77 F	85 F
% Relative Humidity:	50	51	70	65
Wind Velocity, Unit:	8 MPH	5 MPH	6 MPH	8 MPH
Wind Direction:	SW	NE	S	WSW
Soil Temperature, Unit:	61 F	64 F	67 F	79 F
Soil Moisture:	DRY	GOOD	WET	WET
% Cloud Cover:	20	10	40	60
Next Moisture Occurred On:	5/11/2015	5/25/2015	5/28/2015	6/26/2015

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:			V1	
Height, Unit:		4 IN	5 IN	12 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:		1 IN	1 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		2 IN	2.5 IN	8 IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	1 IN	4 IN

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Application Equipment

	A	B	C	D
Appl. Equipment:	ATV	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2	CO2

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SOYBEAN POSTEMERGENCE II

Trial ID: S15029 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DUP-15-907 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

Pest Type	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	IPOSS					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.					
Pest Name	Giant foxtail	Giant ragweed	Morning glory					
Crop Code	GLXMA			GLXMA				
BBCH Scale	BSOY			BSOY				
Crop Scientific Name	Glycine max			Glycine max				
Crop Name	Soybean			Soybean				
Description				AFTER POST				
Rating Type	INJURY	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST				
Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5
1	ENVIVE	3.5 OZ/A	PRE	0	99	83	95	0
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
2	CANOPY	6 OZ/A	PRE	0	99	89	89	0
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
3	CANOPY	5 OZ/A	PRE	0	99	85	89	0
	CINCH	16 FL OZ/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
4	TRIVENCE	8 OZ/A	PRE	0	99	83	83	0
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
5	ENVIVE	3.5 OZ/A	PRE	0	99	89	89	0
	SEQUENCE	2.5 PT/A	EP					
	CLASSIC	0.33 OZ A/A	EP					
6	CANOPY	6 OZ/A	PRE	0	99	95	95	0
	SEQUENCE	2.5 PT/A	EP					
	CLASSIC	0.33 OZ A/A	EP					
7	TRIVENCE	8 OZ/A	PRE	0	99	95	95	0
	SEQUENCE	2.5 PT/A	EP					
	CLASSIC	0.33 OZ A/A	EP					
8	ENVIVE	3.5 OZ/A	PRE	0	99	88	89	0
	CINCH	1 PT/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
9	TRIVENCE	8 OZ/A	PRE	0	99	89	89	0
	CINCH	1 PT/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
10	CHECK UNTREATED			0	0	0	0	0
	LSD P=.05			.	.	2.4	1.8	.
	Standard Deviation			0.0	0.0	1.4	1.1	0.0
	CV			0.0	0.0	1.75	1.3	0.0
	Replicate F			0.000	0.000	1.548	4.366	0.000
	Replicate Prob(F)			1.0000	1.0000	0.2396	0.0284	1.0000
	Treatment F			0.000	0.000	1228.698	2227.475	0.000
	Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000

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

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			W Weed	W Weed	W Weed		W Weed	W Weed	
			SETFA	AMBTR	IPOSS		SETFA	AMBTR	
Pest Type			Setaria faberi	Ambrosia trifi>	Ipomoea sp.		Setaria faberi	Ambrosia trifi>	
Pest Code			Giant foxtail	Giant ragweed	Morning glory		Giant foxtail	Giant ragweed	
Pest Scientific Name						GLXMA			
Pest Name						BSOY			
Crop Code						Glycine max			
BBCH Scale						Soybean			
Crop Scientific Name									
Crop Name									
Description			AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Rating Type			CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Timing			2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	6	7	8	9	10	11
1	ENVIVE	3.5 OZ/A	PRE	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP						
	PREFIX	32 FL OZ/A	MP						
2	CANOPY	6 OZ/A	PRE	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP						
	PREFIX	32 FL OZ/A	MP						
3	CANOPY	5 OZ/A	PRE	99	98	99	0	99	93
	CINCH	16 FL OZ/A	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	MP						
	PREFIX	32 FL OZ/A	MP						
4	TRIVENCE	8 OZ/A	PRE	99	99	99	0	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP						
	PREFIX	32 FL OZ/A	MP						
5	ENVIVE	3.5 OZ/A	PRE	99	99	99	0	99	89
	SEQUENCE	2.5 PT/A	EP						
	CLASSIC	0.33 OZ AI/A	EP						
6	CANOPY	6 OZ/A	PRE	99	99	99	0	99	99
	SEQUENCE	2.5 PT/A	EP						
	CLASSIC	0.33 OZ AI/A	EP						
7	TRIVENCE	8 OZ/A	PRE	99	99	99	0	99	99
	SEQUENCE	2.5 PT/A	EP						
	CLASSIC	0.33 OZ AI/A	EP						
8	ENVIVE	3.5 OZ/A	PRE	99	99	99	0	99	99
	CINCH	1 PT/A	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	MP						
	PREFIX	32 FL OZ/A	MP						
9	TRIVENCE	8 OZ/A	PRE	99	99	99	0	99	99
	CINCH	1 PT/A	PRE						
	ROUNDUP POWERMAX	22 FL OZ/A	MP						
	PREFIX	32 FL OZ/A	MP						
10	CHECK UNTREATED			0	0	0	0	0	0
	LSD P=.05			.	1.3	.	.	.	1.6
	Standard Deviation			0.0	0.7	0.0	0.0	0.0	0.9
	CV			0.0	0.82	0.0	0.0	0.0	1.08
	Replicate F			0.000	1.000	0.000	0.000	0.000	1.830
	Replicate Prob(F)			1.0000	0.3874	1.0000	1.0000	1.0000	0.1890
	Treatment F			0.000	5497.563	0.000	0.000	0.000	3218.843
	Treatment Prob(F)			1.0000	0.0001	1.0000	1.0000	1.0000	0.0001

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			W Weed	W Weed	W Weed	W Weed		
			IPOSS	SETFA	AMBTR	IPOSS		
Pest Type				Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	
Pest Code				Morning glory	Giant foxtail	Giant ragweed	Morning glory	
Pest Scientific Name								
Pest Name								
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Description				AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Rating Type				CONTROL	INJURY	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Rating Timing				4 WEEK	8 WEEK	8 WEEK	8 WEEK	
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	12	13	14	15	16
1	ENVIVE	3.5 OZ/A	PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
2	CANOPY	6 OZ/A	PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
3	CANOPY	5 OZ/A	PRE	99	0	99	93	99
	CINCH	16 FL OZ/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
4	TRIVENCE	8 OZ/A	PRE	99	0	99	99	99
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
5	ENVIVE	3.5 OZ/A	PRE	99	0	99	89	99
	SEQUENCE	2.5 PT/A	EP					
	CLASSIC	0.33 OZ AI/A	EP					
6	CANOPY	6 OZ/A	PRE	99	0	99	99	99
	SEQUENCE	2.5 PT/A	EP					
	CLASSIC	0.33 OZ AI/A	EP					
7	TRIVENCE	8 OZ/A	PRE	99	0	99	99	99
	SEQUENCE	2.5 PT/A	EP					
	CLASSIC	0.33 OZ AI/A	EP					
8	ENVIVE	3.5 OZ/A	PRE	99	0	99	99	99
	CINCH	1 PT/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
9	TRIVENCE	8 OZ/A	PRE	99	0	99	99	99
	CINCH	1 PT/A	PRE					
	ROUNDUP POWERMAX	22 FL OZ/A	MP					
	PREFIX	32 FL OZ/A	MP					
10	CHECK UNTREATED			0	0	0	0	0
	LSD P=.05			.	.	.	1.6	.
	Standard Deviation			0.0	0.0	0.0	0.9	0.0
	CV			0.0	0.0	0.0	1.08	0.0
	Replicate F			0.000	0.000	0.000	1.830	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	0.1890	1.0000
	Treatment F			0.000	0.000	0.000	3218.843	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001	1.0000

University of Kentucky

SOYBEAN POSTEMERGENCE II

Trial ID: S15029 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: DUP-15-907 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

University of Kentucky

SOYBEAN POSTEMERGENCE II

Trial ID: S15029 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DUP-15-907 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 140000 S/A	Planting Date: 5/6/2015
Depth, Unit: 1.25 IN	Planting Method: DRILLE drilled
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 60 F	Emergence Date: 5/11/2015
Soil Moisture: DRY dry	
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

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 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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B	C
Application Date:	5/7/2015	5/27/2015	6/2/2015
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	85 F	76 F	58 F
% Relative Humidity:	50	50	90
Wind Velocity, Unit:	8 MPH	8 MPH	6 MPH
Wind Direction:	SW	W	SW
Soil Temperature, Unit:	61 F	67 F	64 F
Soil Moisture:	DRY	GOOD	WET
% Cloud Cover:	20	10	20
Next Moisture Occurred On:	5/11/2015	5/28/2015	6/4/2015

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	V1	V2	
Height, Unit:	3 IN	5 IN	

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Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Mix Size, Unit:	3 liters	3 liters	3 liters
Propellant:	CO2	CO2	CO2

University of Kentucky

NO TILL SOYBEAN IX

Trial ID: S15030
Protocol ID: BASF-SOY-CONV
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: GREG STAPLETON

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Morning glory	Giant foxtail	Giant ragweed	Giant ragweed
Crop Code	GLXMA			GLXMA		
BBCH Scale	BSOY			BSOY		
Crop Scientific Name	Glycine max			Glycine max		
Crop Name	Soybean			Soybean		
Rating Date	5/21/2015	5/21/2015	5/21/2015	5/21/2015	6/4/2015	6/4/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	29 DP-1	29 DP-1
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	10 DE-1	24 DE-1	24 DE-1

Trt	Treatment	Rate	Growth							
No.	Name	Rate Unit	Stage	1	2	3	4	5	6	7
1	CHECK			0	0	0	0	0	0	0
2	SHARPEN	1 FL OZ/A PRE		0	99	99	99	99	99	80
	ZIDUA	4 FL OZ/A PRE								
3	OPTILL	2 OZ WT/A PRE		0	99	99	99	99	99	93
	OUTLOOK	10 FL OZ/A PRE								
4	OPTILL	1.5 OZ WT/A PRE		0	99	99	99	99	99	89
	ZIDUA	1.5 OZ WT/A PRE								
5	OPTILL	2 OZ WT/A PRE		0	99	99	99	99	99	98
	ZIDUA	2 OZ WT/A PRE								
6	SPARTAN CHARGE	45 FL OZ/A PRE		0	99	99	99	99	95	50
7	PROWL H20	40 FL OZ/A PRE		0	99	99	99	99	99	63
8	FIERCE	4.5 OZ WT/A PRE		0	99	99	99	99	99	82
9	FIERCE XLT	5.25 OZ WT/A PRE		0	99	99	99	99	99	99
10	ANTHEM	8.5 FL OZ/A PRE		0	99	99	99	99	98	67
11	PREFIX	32 FL OZ/A PRE		0	99	99	99	99	99	83
12	AUTHORITY XL	8 OZ WT/A PRE		0	99	99	99	99	99	99
	LSD P=.05			.	.	.	.	.	2.6	11.9
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	1.5	7.0
	CV			0.0	0.0	0.0	0.0	0.0	1.67	9.31
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.306	1.684
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.7395	0.2088
	Treatment F			0.000	0.000	0.000	0.000	0.000	1070.225	48.890
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	IPOSS	SETFA	AMBTR	IPOSS					
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Ambrosia trifi>	Ipomoea sp.					
Pest Name	Morning glory	Giant foxtail	Giant ragweed	Morning glory					
Crop Code		GLXMA							
BBCH Scale		BSOY							
Crop Scientific Name		Glycine max							
Crop Name		Soybean							
Rating Date	6/4/2015	7/2/2015	7/2/2015	7/2/2015					
Rating Type	CONTROL	INJURY	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK					
Days After First/Last Applic.	28 28	56 56	56 56	56 56					
Trt-Eval Interval	28 DA-A	56 DA-A	56 DA-A	56 DA-A					
Plant-Eval Interval	29 DP-1	57 DP-1	57 DP-1	57 DP-1					
Days After Emergence	24 DE-1	52 DE-1	52 DE-1	52 DE-1					
Trt No.	Treatment Name	Rate	Growth Stage	8	9	10	11	12	13
1	CHECK			0	0	0	0	0	0
2	SHARPEN	1 FL OZ/A	PRE	87	0	99	57	83	
	ZIDUA	4 FL OZ/A	PRE						
3	OPTILL	2 OZ WT/A	PRE	95	0	99	70	89	
	OUTLOOK	10 FL OZ/A	PRE						
4	OPTILL	1.5 OZ WT/A	PRE	93	0	99	67	90	
	ZIDUA	1.5 OZ WT/A	PRE						
5	OPTILL	2 OZ WT/A	PRE	99	0	99	70	92	
	ZIDUA	2 OZ WT/A	PRE						
6	SPARTAN CHARGE	45 FL OZ/A	PRE	43	0	95	40	43	
7	PROWL H20	40 FL OZ/A	PRE	63	0	99	37	47	
8	FIERCE	4.5 OZ WT/A	PRE	83	0	99	40	70	
9	FIERCE XLT	5.25 OZ WT/A	PRE	99	0	99	86	95	
10	ANTHEM	8.5 FL OZ/A	PRE	72	0	98	43	63	
11	PREFIX	32 FL OZ/A	PRE	83	0	99	70	70	
12	AUTHORITY XL	8 OZ WT/A	PRE	99	0	99	89	90	
	LSD P=.05			12.4	.	2.6	7.8	12.8	.
	Standard Deviation			7.3	0.0	1.5	4.6	7.6	.
	CV			9.59	0.0	1.67	8.24	10.93	.
	Replicate F			1.059	0.000	0.306	0.262	0.183	
	Replicate Prob(F)			0.3637	1.0000	0.7395	0.7719	0.8339	
	Treatment F			48.246	0.000	1070.225	89.101	40.989	
	Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001	0.0001	

University of Kentucky

NO TILL SOYBEAN IX

Trial ID: S15030 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: BASF-SOY-CONV Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: GREG STAPLETON

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea sp.*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 GLXMA 5/6/2015
29 DP-1 = 1 GLXMA 5/6/2015
57 DP-1 = 1 GLXMA 5/6/2015

University of Kentucky

NO TILL SOYBEAN IX

Trial ID: S15030 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: BASF-SOY-CONV Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: GREG STAPLETON

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2015
Completion Date: 10/27/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832

Planting Rate, Unit: 140000 S/A	Planting Date: 5/6/2015
Depth, Unit: 1.25 IN	Planting Method: DRILLE drilled
Row Spacing, Unit: 30 IN	Planting Equipment: FE Field Equipment
Soil Temperature, Unit: 60 F	Emergence Date: 5/11/2015
Soil Moisture: DRY dry	
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

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: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

Application Date: 5/7/2015
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: C H SLACK
Air Temperature, Unit: 85 F
% Relative Humidity: 50
Wind Velocity, Unit: 8 MPH
Wind Direction: SW
Soil Temperature, Unit: 61 F
Soil Moisture: DRY
% Cloud Cover: 20
Next Moisture Occurred On: 5/11/2015

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

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Application Equipment

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

Date	By	Notes
5/6/2015	SARA LAWSON	OVERSPRAYED WITH 2 QT ROUNDUP POWERMAX

University of Kentucky

NO TILL SOYBEAN X

Trial ID: S15031
Protocol ID: VAL-SOY-YIELD
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	CHEAL	IPOSS	
Pest Scientific Name		Setaria faberi	Chenopodium al>	Ipomoea sp.	
Pest Name		Giant foxtail	Common lambsqu>	Morning glory	
Crop Code	GLXMA				GLXMA
BBCH Scale	BSOY				BSOY
Crop Scientific Name	Glycine max				Glycine max
Crop Name	Soybean				Soybean
Description					AFTER POST
Rating Date	5/21/2015	5/21/2015	5/21/2015	5/21/2015	6/16/2015
Rating Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK
Days After First/Last Applic.	14 14	14 14	14 14	14 14	40 14
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	41 DP-1
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	10 DE-1	36 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	UNTREATED CHECK				0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	MP		0	0	0	0	0
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
3	FIERCE	3 OZ WT/A	PRE		0	99	94	94	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
4	AUTHORITY MAXX	5 OZ/A	PRE		0	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
5	BOUNDARY	1.5 PT/A	PRE		0	99	98	94	0
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
	LSD P=.05						2.3	2.1	
	Standard Deviation				0.0	0.0	1.5	1.4	0.0
	CV				0.0	0.0	2.56	2.39	0.0
	Replicate F				0.000	0.000	0.624	2.667	0.000
	Replicate Prob(F)				1.0000	1.0000	0.6130	0.0951	1.0000
	Treatment F				0.000	0.000	5091.858	5846.761	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	1.0000

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

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	IPOSS	SETFA
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ipomoea sp.	Setaria faberi
Pest Name	Giant foxtail	Common lambsqu>	Morning glory	Giant foxtail
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	6/16/2015	6/16/2015	6/16/2015	6/30/2015
Rating Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	40 14	40 14	40 14	54 28
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	55 DP-1
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	50 DE-1

Trt No.	Treatment Name	Rate	Growth Stage	6	7	8	9	10
1	UNTREATED CHECK			0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	MP	99	99	99	0	99
	AMS	2.5 LB/A	MP					
	NIS	0.25 % V/V	MP					
3	FIERCE	3 OZ WT/A	PRE	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	AUTHORITY MAXX	5 OZ/A	PRE	99	99	99	0	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP					
	AMS	2.5 LB/A	MP					
	NIS	0.25 % V/V	MP					
5	BOUNDARY	1.5 PT/A	PRE	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
	CV			0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	IPOSS	SETFA	CHEAL				
Pest Scientific Name	Chenopodium al>	Ipomoea sp.	Setaria faberi	Chenopodium al>				
Pest Name	Common lambsqu>	Morning glory	Giant foxtail	Common lambsqu>				
Crop Code			GLXMA					
BBCH Scale			BSOY					
Crop Scientific Name			Glycine max					
Crop Name			Soybean					
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST				
Rating Date	6/30/2015	6/30/2015	7/28/2015	7/28/2015				
Rating Type	CONTROL	CONTROL	INJURY	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	4 WEEK	4 WEEK	8 WEEK	4 WEEK				
Days After First/Last Applic.	54 28	54 28	82 56	82 56				
Plant-Eval Interval	55 DP-1	55 DP-1	83 DP-1	83 DP-1				
Days After Emergence	50 DE-1	50 DE-1	78 DE-1	78 DE-1				
Trt No.	Treatment Name	Rate	Growth Stage	11	12	13	14	15
		Rate Unit						
1	UNTREATED CHECK			0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	MP	99	99	0	99	99
	AMS	2.5 LB/A	MP					
	NIS	0.25 % V/V	MP					
3	FIERCE	3 OZ WT/A	PRE	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP					
	AMS	2.5 LB/A	MP					
	NIS	0.25 % V/V	MP					
4	AUTHORITY MAXX	5 OZ/A	PRE	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP					
	AMS	2.5 LB/A	MP					
	NIS	0.25 % V/V	MP					
5	BOUNDARY	1.5 PT/A	PRE	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP					
	AMS	2.5 LB/A	MP					
	NIS	0.25 % V/V	MP					
	LSD P=.05			0.0	0.0	0.0	0.0	0.0
	Standard Deviation			0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type W Weed
 Pest Code IPOSS
 Pest Scientific Name Ipomoea sp.
 Pest Name Morning glory
 Crop Code GLXMA
 BBCH Scale BSOY
 Crop Scientific Name Glycine max
 Crop Name Soybean
 Description AFTER POST
 Rating Date 7/28/2015
 Rating Type CONTROL YIELD
 Rating Unit PERCENT BU
 Rating Timing 8 WEEK
 Days After First/Last Applic. 82 56
 Plant-Eval Interval 83 DP-1
 Days After Emergence 78 DE-1

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	16	21
1	UNTREATED CHECK				0	48
2	ROUNDUP POWERMAX	32 FL OZ/A	MP		99	71
	AMS	2.5 LB/A	MP			
	NIS	0.25 % V/V	MP			
3	FIERCE	3 OZ WT/A	PRE		95	72
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
	AMS	2.5 LB/A	MP			
	NIS	0.25 % V/V	MP			
4	AUTHORITY MAXX	5 OZ/A	PRE		96	71
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
	AMS	2.5 LB/A	MP			
	NIS	0.25 % V/V	MP			
5	BOUNDARY	1.5 PT/A	PRE		96	74
	ROUNDUP POWERMAX	32 FL OZ/A	MP			
	AMS	2.5 LB/A	MP			
	NIS	0.25 % V/V	MP			
	LSD P=.05				1.7	9.1
	Standard Deviation				1.1	5.9
	CV				1.42	8.83
	Replicate F				2.667	3.849
	Replicate Prob(F)				0.0951	0.0385
	Treatment F				6215.667	12.995
	Treatment Prob(F)				0.0001	0.0003

University of Kentucky

NO TILL SOYBEAN X

Trial ID: S15031
Protocol ID: VAL-SOY-YIELD
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent
BU = bushel

Plant-Eval Interval

15 DP-1 = 1 GLXMA 5/6/2015
41 DP-1 = 1 GLXMA 5/6/2015
55 DP-1 = 1 GLXMA 5/6/2015
83 DP-1 = 1 GLXMA 5/6/2015

ARM Action Codes

TY1 = 5.185714*[19]*(100-[20])/87

University of Kentucky

NO TILL SOYBEAN X

Trial ID: S15031 Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: VAL-SOY-YIELD Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/6/2015

Trial Location

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

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Other Contacts

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

Crop Description

Crop 1: GLXMA	Glycine max	Soybean
Variety: AG3832		
Planting Rate, Unit: 140000	S/A	Planting Date: 5/6/2015
Depth, Unit: 1.25	IN	Planting Method: DRILLE
Row Spacing, Unit: 30	IN	Planting Equipment: FE
		Emergence Date: 5/11/2015
		Harvested Width, Unit: 5
		Harvested Length, Unit: 28
Soil Temperature, Unit: 60	F	Harvest Equipment: WINTERSTEIGER
Soil Moisture: DRY	dry	% Standard Moisture: 13
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 33 FT
Treated Plot Area: 330 FT² **Treatments:** 5 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

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

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.25 MI

Application Description

	A	B
Application Date:	5/7/2015	6/2/2015
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	82 F	57 F
% Relative Humidity:	60	90
Wind Velocity, Unit:	5 MPH	7 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	60 F	65 F
Soil Moisture:	DRY	WET
% Cloud Cover:	10	40
Next Moisture Occurred On:	5/11/2015	6/4/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		V2
Height, Unit:		5 IN

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

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Equipment Type:	ALTEVE	ALTEVE
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	30 IN	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 III

Trial ID: S15031-2
Protocol ID: VAL-SOY-YIELD
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	UNTREATED CHECK				0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A		MP	0	0	0	0	0
	AMS	2.5 LB/A		MP					
	NIS	0.25 % V/V		MP					
3	FIERCE	3 OZ WT/A		PRE	0	99	94	94	0
	ROUNDUP POWERMAX	32 FL OZ/A		MP					
	AMS	2.5 LB/A		MP					
	NIS	0.25 % V/V		MP					
4	AUTHORITY MAXX	5 OZ/A		PRE	0	99	99	99	0
	ROUNDUP POWERMAX	32 FL OZ/A		MP					
	AMS	2.5 LB/A		MP					
	NIS	0.25 % V/V		MP					
5	BOUNDARY	1.5 PT/A		PRE	0	99	98	94	0
	ROUNDUP POWERMAX	32 FL OZ/A		MP					
	AMS	2.5 LB/A		MP					
	NIS	0.25 % V/V		MP					
	LSD P=.05				.	.	2.3	2.1	.
	Standard Deviation				0.0	0.0	1.5	1.4	0.0
	CV				0.0	0.0	2.56	2.39	0.0
	Replicate F				0.000	0.000	0.624	2.667	0.000
	Replicate Prob(F)				1.0000	1.0000	0.6130	0.0951	1.0000
	Treatment F				0.000	0.000	5091.858	5846.761	0.000
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	1.0000

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMACH	IPOSS	SETFA	AMACH				
Pest Scientific Name	Setaria faberi	Amaranthus hyb>	Ipomoea sp.	Setaria faberi	Amaranthus hyb>				
Pest Name	Giant foxtail	Smooth pigweed	Morning glory	Giant foxtail	Smooth pigweed				
Crop Code				GLXMA					
BBCH Scale				BSOY					
Crop Scientific Name				Glycine max					
Crop Name				Soybean					
Rating Date	7/10/2015	7/10/2015	7/10/2015	7/24/2015	7/24/2015				
Rating Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK				
Days After First/Last Applic.	51 14	51 14	51 14	65 28	65 28				
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	65 DP-1	65 DP-1				
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	60 DE-1	60 DE-1				
Trt	Treatment	Rate	Growth	6	7	8	9	10	11
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	0	99	99
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
3	FIERCE	3 OZ WT/A	PRE	99	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
4	AUTHORITY MAXX	5 OZ/A	PRE	99	99	99	0	99	99
	ROUNDUP POWERMAX	32 FL OZ/A	MP						
	AMS	2.5 LB/A	MP						
	NIS	0.25 % V/V	MP						
5	BOUNDARY	1.5 PT/A	PRE	99	99	99	0	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	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	IPOSS	SETFA	AMACH	IPOSS				
Pest Scientific Name	Ipomoea sp.	Setaria faberi	Amaranthus hyb>	Ipomoea sp.				
Pest Name	Morning glory	Giant foxtail	Smooth pigweed	Morning glory				
Crop Code		GLXMA			GLXMA			
BBCH Scale		BSOY			BSOY			
Crop Scientific Name		Glycine max			Glycine max			
Crop Name		Soybean			Soybean			
Rating Date	7/24/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015			
Rating Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Timing	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
Days After First/Last Applic.	65 28	93 56	93 56	93 56	93 56			
Plant-Eval Interval	65 DP-1	93 DP-1	93 DP-1	93 DP-1	93 DP-1			
Days After Emergence	60 DE-1	88 DE-1	88 DE-1	88 DE-1	88 DE-1			
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	12	13	14	15	16	21
1 UNTREATED CHECK			0	0	0	0	0	55
2 ROUNDUP POWERMAX	32 FL OZ/A	MP	99	0	99	99	99	76
AMS	2.5 LB/A	MP						
NIS	0.25 % V/V	MP						
3 FIERCE	3 OZ WT/A	PRE	99	0	99	99	99	75
ROUNDUP POWERMAX	32 FL OZ/A	MP						
AMS	2.5 LB/A	MP						
NIS	0.25 % V/V	MP						
4 AUTHORITY MAXX	5 OZ/A	PRE	99	0	99	99	99	79
ROUNDUP POWERMAX	32 FL OZ/A	MP						
AMS	2.5 LB/A	MP						
NIS	0.25 % V/V	MP						
5 BOUNDARY	1.5 PT/A	PRE	99	0	99	99	99	80
ROUNDUP POWERMAX	32 FL OZ/A	MP						
AMS	2.5 LB/A	MP						
NIS	0.25 % V/V	MP						
LSD P=.05			.	.	.	.	.	5.5
Standard Deviation			0.0	0.0	0.0	0.0	0.0	3.6
CV			0.0	0.0	0.0	0.0	0.0	4.92
Replicate F			0.000	0.000	0.000	0.000	0.000	14.797
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0002
Treatment F			0.000	0.000	0.000	0.000	0.000	32.378
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

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SOYBEAN POSTEMERGENCE III

Trial ID: S15031-2
Protocol ID: VAL-SOY-YIELD
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

AMACH, Amaranthus hybridus, = US

IPOSS, Ipomoea sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

BU = bushel

Plant-Eval Interval

14 DP-1 = 1 GLXMA 5/20/2015

51 DP-1 = 1 GLXMA 5/20/2015

65 DP-1 = 1 GLXMA 5/20/2015

93 DP-1 = 1 GLXMA 5/20/2015

ARM Action Codes

TY1 = 6.05*[19]*(100-[20])/87

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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: 33 FT
Treated Plot Area: 330 FT2 **Treatments:** 5 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5/20/2015	6/26/2015
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	65 F	82 F
% Relative Humidity:	70	70
Wind Velocity, Unit:	5 MPH	6 MPH
Wind Direction:	SW	WSW
Soil Temperature, Unit:	68 F	67 F
Soil Moisture:	GOOD	WET
% Cloud Cover:	10	60
Next Moisture Occurred On:	5/25/2015	6/26/2015

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		V2
Height, Unit:		5 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:	AMACH W	AMACH W
Height, Unit:	4	IN
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:	2	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

Date	By	Notes
5/20/2015	SARA LAWSON	OVERSPRAYED WITH ROUNDUP POWERMAX 2 QT

University of Kentucky

SOYBEAN VARIETIES

Trial ID: S15032
 Protocol ID: SYN-SB-FUNGI
 Project ID:

Location: LEXINGTON, KY Trial Year: 2015
 Investigator: Charles H Slack
 Study Director: CHARLES SLACK
 Sponsor Contact: SARAH GEHANT&SCOTT CULLY

Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Rate	Growth Stage	
				3
1	BOUNDARY	1.5 PT/A	PRE	61
	FLEXSTAR GT	3.5 PT/A	MP	
	S35-C3			
2	BOUNDARY	1.5 PT/A	PRE	67
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP	7 OZ/A	R3	
	ENDIGO	3.5 OZ/A	R3	
	S35-C3			
3	BOUNDARY	1.5 PT/A	PRE	61
	FLEXSTAR GT	3.5 PT/A	MP	
	S39-C4			
4	BOUNDARY	1.5 PT/A	PRE	66
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP	7 OZ/A	R3	
	ENDIGO	3.5 OZ/A	R3	
	S39-C4			
5	BOUNDARY	1.5 PT/A	PRE	57
	FLEXSTAR GT	3.5 PT/A	MP	
	S39-U2			
6	BOUNDARY	1.5 PT/A	PRE	68
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP	7 OZ/A	R3	
	ENDIGO	3.5 OZ/A	R3	
	S39-U2			
7	BOUNDARY	1.5 PT/A	PRE	60
	FLEXSTAR GT	3.5 PT/A	MP	
	S41-J6			
8	BOUNDARY	1.5 PT/A	PRE	57
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP	7 OZ/A	R3	
	ENDIGO	3.5 OZ/A	R3	
	S41-J6			
9	BOUNDARY	1.5 PT/A	PRE	59
	FLEXSTAR GT	3.5 PT/A	MP	
	S45-V8			
10	BOUNDARY	1.5 PT/A	PRE	59
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP	7 OZ/A	R3	
	ENDIGO	3.5 OZ/A	R3	
	S45-V8			
11	BOUNDARY	1.5 PT/A	PRE	58
	FLEXSTAR GT	3.5 PT/A	MP	
	S46-L2			
12	BOUNDARY	1.5 PT/A	PRE	63
	FLEXSTAR GT	3.5 PT/A	MP	
	QUADRIS TOP	7 OZ/A	R3	
	ENDIGO	3.5 OZ/A	R3	
	S46-L2			
13	BOUNDARY	1.5 PT/A	PRE	59
	FLEXSTAR GT	3.5 PT/A	MP	
	AG4632			

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

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Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Type	YIELD
Rating Unit	BU

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
					3
14	BOUNDARY	1.5	PT/A	PRE	55
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP	7	OZ/A	R3	
	ENDIGO	3.5	OZ/A	R3	
	AG4632				
15	BOUNDARY	1.5	PT/A	PRE	60
	FLEXSTAR GT	3.5	PT/A	MP	
	P47T36R				
16	BOUNDARY	1.5	PT/A	PRE	54
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP	7	OZ/A	R3	
	ENDIGO	3.5	OZ/A	R3	
	P47T36R				
17	BOUNDARY	1.5	PT/A	PRE	53
	FLEXSTAR GT	3.5	PT/A	MP	
	S48-P4				
18	BOUNDARY	1.5	PT/A	PRE	50
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP	7	OZ/A	R3	
	ENDIGO	3.5	OZ/A	R3	
	S48-P4				
19	BOUNDARY	1.5	PT/A	PRE	56
	FLEXSTAR GT	3.5	PT/A	MP	
	S52-Y2				
20	BOUNDARY	1.5	PT/A	PRE	53
	FLEXSTAR GT	3.5	PT/A	MP	
	QUADRIS TOP	7	OZ/A	R3	
	ENDIGO	3.5	OZ/A	R3	
	S52-Y2				
	LSD P=.05				.
	Standard Deviation				.
	CV				.

Crop Code
 GLXMA, BSOY, Glycine max, = US
Rating Type
 YIELD = yield
Rating Unit
 BU = bushel
ARM Action Codes
 $TY1 = 0.968*[C1]*(100-[C2])/87$

University of Kentucky

SOYBEAN VARIETIES

Trial ID: S15032 Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: SYN-SB-FUNGI Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: SARAH GEHANT&SCOTT CULLY

General Trial Information

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

Discipline: F fungicide
Trial Status: F one-year/final
Initiation Date: 5/12/2015
Completion Date: 10/27/2015

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

Other Contacts

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

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SEE TREATMENT LIST
Planting Rate, Unit: 140000 S/A **Planting Date:** 5/12/2015
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FE Field Equipment
Emergence Date: 5/18/2015
Harvest Date: 10/23/2015
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 150 FT
Soil Temperature, Unit: 64 F
Soil Moisture: DRY dry
Seed Bed: SMOOTH smooth
Harvest Equipment: WINTERSTEIGER
% Standard Moisture: 13

University of Kentucky

Site and Design

Treated Plot Width: 15 FT
 Treated Plot Length: 150 FT
 Treated Plot Area: 2250 FT² Replications: 1
 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: SLIWET slightly wet
 Closest Weather Station: SPINDLETOP Distance, Unit: 2.5 MI

Application Description

	A	B	C
Application Date:	5/12/2015	6/10/2015	7/29/2015
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	R3
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA LAWSON
Air Temperature, Unit:	65 F	85 F	94 F
% Relative Humidity:	65	50	70
Wind Velocity, Unit:	4 MPH	6 MPH	3 MPH
Wind Direction:	WSW	W	SW
Soil Temperature, Unit:	64 F	60 F	76 F
Soil Moisture:	DRY	GOOD	WET
% Cloud Cover:	20	10	10
Next Moisture Occurred On:	5/16/2015	6/16/2015	7/30/2015

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:			BBCH
Stage Majority, Percent:			R3 100
Height, Unit:		18 IN	38 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 gallons	3 gallons	3 gallons
Propellant:	CO2	CO2	CO2

University of Kentucky

BOLT SOYBEAN

Trial ID: DUP-BOLT Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DUP-BOLT Investigator: Charles H Slack
 Project ID: Study Director: ERIN HARAMOTO
 Sponsor Contact: KELLY BACKSCHEIDER

Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date									
Rating Type	PHYCHL	PHYCHL	PHYCHL	PHYCHL	PHYNEC	PHYNEC	PHYNEC		
Rating Unit	1-10	1-10	1-10	1-10	1-10	1-10	1-10		
Rating Timing	15 DAP	29 DAP	43 DAP	57 DAP	15 DAP	29 DAP	43 DAP		
Days After First/Last Applic.									
Trt-Eval Interval									
Plant-Eval Interval									
Days After Emergence									
Trt Treatment	Rate	Growth	1	2	3	4	5	6	7
No. Name	Unit	Stage							
1 LEADOFF	1.5 OZ/A	PRE	0	0	0	0	0	0	0
2 LEADOFF	3 OZ/A	PRE	1	0	0	0	0	0	0
3 AFFINITY BROADSPEC	0.5 OZ/A	PRE	0	0	0	0	0	0	0
4 AFFINITY BROADSPEC	1 OZ/A	PRE	0	0	0	0	0	0	0
5 UNTREATED CHECK			0	0	0	0	0	0	0
LSD P=.05			0.5	.	.	.	.	.	.
Standard Deviation			0.3	0.0	0.0	0.0	0.0	0.0	0.0
CV			96.82	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F			1.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			0.4096	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			16.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			0.0007	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

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Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date						10/14/2015		
Rating Type	PHYNEC	PHYSTU	PHYSTU	PHYSTU	PHYSTU	YIELD		
Rating Unit	1-10	1-10	1-10	1-10	1-10	bu/ac		
Rating Timing	57 DAP	14 DAP	28 DAP	43 DAP	57 DAP			
Days After First/Last Applic.						153 153		
Trt-Eval Interval						153 DA-A		
Plant-Eval Interval						154 DP-1		
Days After Emergence						149 DE-1		
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	8	9	10	11	12	15
1 LEADOFF	1.5 OZ/A PRE		0	0	1	0	0	61
2 LEADOFF	3 OZ/A PRE		0	0	1	0	0	63
3 AFFINITY BROADSPEC	0.5 OZ/A PRE		0	0	0	0	0	62
4 AFFINITY BROADSPEC	1 OZ/A PRE		0	0	0	0	0	61
5 UNTREATED CHECK			0	0	0	0	0	66
LSD P=.05					1.8			5.9
Standard Deviation			0.0	0.0	1.0	0.0	0.0	3.1
CV			0.0	0.0	243.67	0.0	0.0	5.01
Replicate F			0.000	0.000	0.211	0.000	0.000	2.346
Replicate Prob(F)			1.0000	1.0000	0.8145	1.0000	1.0000	0.1579
Treatment F			0.000	0.000	0.947	0.000	0.000	1.103
Treatment Prob(F)			1.0000	1.0000	0.4846	1.0000	1.0000	0.4179

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BOLT SOYBEAN

Trial ID: DUP-BOLT Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: DUP-BOLT Investigator: Charles H Slack
Project ID: Study Director: ERIN HARAMOTO
Sponsor Contact: KELLY BACKSCHEIDER

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYCHL = phytotoxicity - chlorosis

PHYNEC = phytotoxicity - necrosis /burn

PHYSTU = phytotoxicity - stunting

YIELD = yield

Rating Unit

1-10 = 1-10 index/scale

bu/ac = bushels per acre

Plant-Eval Interval

154 DP-1 = 1 GLXMA 5/13/2015

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Site and Design

Treated Plot Width: 15 FT
Treated Plot Length: 44 FT
Treated Plot Area: 660 FT² **Treatments:** 5
Replications: 3

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

Soil Description

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

Moisture and Weather Conditions

Overall Moisture Conditions: WEDRWE wet-dry-wet

Application Description

Application Date: 5/14/2015
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Applied By: M ALLEN
Air Temperature, Unit: 71 F
% Relative Humidity: 66
Wind Velocity, Unit: 6 MPH
Wind Direction: E
Soil Temperature, Unit: 62 F
Soil Moisture: NORMAL
% Cloud Cover: 30
Next Moisture Occurred On: 5/16/2015

Crop Stage At Each Application

Crop 1 Code, BBCH Scale: GLXMA^A BSOY

Application Equipment

Appl. Equipment: BACKPACK
Equipment Type: BELSPR
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

Date	By	Notes
6/18/2015	M ALLEN	Mustang Max applied for insect control Roundup was also applied for weed control

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NON CROP

Trial ID: NON CROP I Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: VAL-NC Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR	IPOSS	SETFA
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail
Description					
Rating Date	6/12/2015	6/12/2015	6/12/2015	6/12/2015	6/26/2015
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
SE Description					AT POST
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
Days After First/Last Applic.	15 15	15 15	15 15	15 15	29 29

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
1	UNTREATED CHECK				0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	77
	CLARITY	1 PT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
3	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	97
	CLARITY	1 PT/A		PRE					
	VALOR SX	2.5 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
4	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	77
	CLARITY	1 PT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	COBRA	12.5 FL OZ/A		28DAP					
	COC	1 PT/A		28DAP					
5	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	95
	CLARITY	1 PT/A		PRE					
	VALOR SX	2.5 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	COBRA	12.5 FL OZ/A		28DAP					
	COC	1 PT/A		28DAP					
6	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	100
	CLARITY	1 PT/A		PRE					
	FIERCE	3 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
7	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	100
	CLARITY	1 PT/A		PRE					
	FIERCE	3 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	COBRA	12.5 FL OZ/A		28DAP					
	COC	1 PT/A		28DAP					

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	CHEAL	AMBTR	IPOSS	SETFA				
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi				
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail				
Description									
Rating Date	6/12/2015	6/12/2015	6/12/2015	6/12/2015	6/26/2015				
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
SE Description					AT POST				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK				
Days After First/Last Applic.	15 15	15 15	15 15	15 15	29 29				
Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5
8	ROUNDUP POWERMAX V-10404	32 FL OZ/A		PRE	100	100	100	100	98
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX CLARITY	32 FL OZ/A		28DAP					
	NIS	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
	LSD P=.05								9.5
	Standard Deviation				0.0	0.0	0.0	0.0	5.4
	CV				0.0	0.0	0.0	0.0	6.72
	Replicate F				0.000	0.000	0.000	0.000	1.857
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	0.1926
	Treatment F				0.000	0.000	0.000	0.000	118.429
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMBTR	IPOSS	SETFA	CHEAL			
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Chenopodium al>			
Pest Name	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail	Common lambsqu>			
Description				AFTER POST	AFTER POST			
Rating Date	6/26/2015	6/26/2015	6/26/2015	7/10/2015	7/10/2015			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
SE Description	AT POST	AT POST	AT POST	AT POST	AT POST			
Rating Timing	4 WEEK	4 WEEK	4 WEEK	2 WEEK	2 WEEK			
Days After First/Last Applic.	29 29	29 0	29 0	43 14	43 14			
Trt No.	Treatment Name	Rate	Growth Stage	6	7	8	9	10
		Rate Unit						
1	UNTREATED CHECK			0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	93	93	100	100
	CLARITY	1 PT/A	PRE					
	NIS	0.25 % V/V	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
	CLARITY	1 PT/A	28DAP					
	NIS	0.25 % V/V	28DAP					
3	ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	95	98	100	100
	CLARITY	1 PT/A	PRE					
	VALOR SX	2.5 OZ WT/A	PRE					
	NIS	0.25 % V/V	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
	CLARITY	1 PT/A	28DAP					
	NIS	0.25 % V/V	28DAP					
4	ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	88	95	100	100
	CLARITY	1 PT/A	PRE					
	NIS	0.25 % V/V	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
	CLARITY	1 PT/A	28DAP					
	COBRA	12.5 FL OZ/A	28DAP					
	COC	1 PT/A	28DAP					
5	ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	98	100	100	100
	CLARITY	1 PT/A	PRE					
	VALOR SX	2.5 OZ WT/A	PRE					
	NIS	0.25 % V/V	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
	CLARITY	1 PT/A	28DAP					
	COBRA	12.5 FL OZ/A	28DAP					
	COC	1 PT/A	28DAP					
6	ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	95	100	100	100
	CLARITY	1 PT/A	PRE					
	FIERCE	3 OZ WT/A	PRE					
	NIS	0.25 % V/V	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
	CLARITY	1 PT/A	28DAP					
	NIS	0.25 % V/V	28DAP					
7	ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	97	97	100	100
	CLARITY	1 PT/A	PRE					
	FIERCE	3 OZ WT/A	PRE					
	NIS	0.25 % V/V	PRE					
	ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
	CLARITY	1 PT/A	28DAP					
	COBRA	12.5 FL OZ/A	28DAP					
	COC	1 PT/A	28DAP					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL	AMBTR	IPOSS	SETFA	CHEAL		
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Chenopodium al>		
Pest Name	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail	Common lambsqu>		
Description				AFTER POST	AFTER POST		
Rating Date	6/26/2015	6/26/2015	6/26/2015	7/10/2015	7/10/2015		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
SE Description	AT POST	AT POST	AT POST	AT POST	AT POST		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	2 WEEK	2 WEEK		
Days After First/Last Applic.	29 29	29 0	29 0	43 14	43 14		
Trt Treatment	Rate	Growth	6	7	8	9	10
No. Name	Rate Unit	Stage					
8 ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	95	93	100	100
V-10404	30 FL OZ/A	PRE					
NIS	0.25 % V/V	PRE					
ROUNDUP POWERMAX	32 FL OZ/A	28DAP					
CLARITY	1 PT/A	28DAP					
NIS	0.25 % V/V	28DAP					
LSD P=.05				6.7	5.0		
Standard Deviation			0.0	3.8	2.9	0.0	0.0
CV			0.0	4.62	3.38	0.0	0.0
Replicate F			0.000	2.680	0.127	0.000	0.000
Replicate Prob(F)			1.0000	0.1034	0.8815	1.0000	1.0000
Treatment F			0.000	230.812	430.764	0.000	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	SETFA	CHEAL	AMBTR
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Chenopodium a>	Ambrosia trifi>
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Common lambsqu>	Giant ragweed
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Date	7/10/2015	7/10/2015	7/24/2015	7/24/2015	7/24/2015
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
SE Description	AT POST	AT POST	AT POST	AT POST	AT POST
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.	43 14	43 14	57 28	57 28	57 28

Trt No.	Treatment Name	Rate	Unit	Growth Stage	11	12	13	14	15
1	UNTREATED CHECK				0	0	0	0	0
2	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	88
	CLARITY	1 PT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
3	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	93
	CLARITY	1 PT/A		PRE					
	VALOR SX	2.5 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
4	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	85
	CLARITY	1 PT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	COBRA	12.5 FL OZ/A		28DAP					
	COC	1 PT/A		28DAP					
5	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	93
	CLARITY	1 PT/A		PRE					
	VALOR SX	2.5 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	COBRA	12.5 FL OZ/A		28DAP					
	COC	1 PT/A		28DAP					
6	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	87
	CLARITY	1 PT/A		PRE					
	FIERCE	3 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	NIS	0.25 % V/V		28DAP					
7	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100	100	100	100	90
	CLARITY	1 PT/A		PRE					
	FIERCE	3 OZ WT/A		PRE					
	NIS	0.25 % V/V		PRE					
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP					
	CLARITY	1 PT/A		28DAP					
	COBRA	12.5 FL OZ/A		28DAP					
	COC	1 PT/A		28DAP					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	SETFA	CHEAL	AMBTR	
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Chenopodium al>	Ambrosia trifi>	
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Common lambsqu>	Giant ragweed	
Description	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	
Rating Date	7/10/2015	7/10/2015	7/24/2015	7/24/2015	7/24/2015	
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
SE Description	AT POST	AT POST	AT POST	AT POST	AT POST	
Rating Timing	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	
Days After First/Last Applic.	43 14	43 14	57 28	57 28	57 28	
Trt Treatment	Rate	Growth				
No. Name	Rate Unit	Stage	11	12	13	14 15
8 ROUNDUP POWERMAX	32 FL OZ/A	PRE	100	100	100	100 91
V-10404	30 FL OZ/A	PRE				
NIS	0.25 % V/V	PRE				
ROUNDUP POWERMAX	32 FL OZ/A	28DAP				
CLARITY	1 PT/A	28DAP				
NIS	0.25 % V/V	28DAP				
LSD P=.05						7.7
Standard Deviation			0.0	0.0	0.0	4.4
CV			0.0	0.0	0.0	5.58
Replicate F			0.000	0.000	0.000	1.849
Replicate Prob(F)			1.0000	1.0000	1.0000	0.1939
Treatment F			0.000	0.000	0.000	158.639
Treatment Prob(F)			1.0000	1.0000	1.0000	0.0001

University of Kentucky

Pest Type	W Weed
Pest Code	IPOSS
Pest Scientific Name	Ipomoea sp.
Pest Name	Morning glory
Description	AFTER POST
Rating Date	7/24/2015
Rating Type	CONTROL
Rating Unit	PERCENT
SE Description	AT POST
Rating Timing	4 WEEK
Days After First/Last Applic.	57 28

Trt No.	Treatment Name	Rate	Unit	Growth Stage	16
1	UNTREATED CHECK				0
2	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	CLARITY	1 PT/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	NIS	0.25 % V/V		28DAP	
3	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	CLARITY	1 PT/A		PRE	
	VALOR SX	2.5 OZ WT/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	NIS	0.25 % V/V		28DAP	
4	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	CLARITY	1 PT/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	COBRA	12.5 FL OZ/A		28DAP	
	COC	1 PT/A		28DAP	
5	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	CLARITY	1 PT/A		PRE	
	VALOR SX	2.5 OZ WT/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	COBRA	12.5 FL OZ/A		28DAP	
	COC	1 PT/A		28DAP	
6	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	CLARITY	1 PT/A		PRE	
	FIERCE	3 OZ WT/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	NIS	0.25 % V/V		28DAP	
7	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	CLARITY	1 PT/A		PRE	
	FIERCE	3 OZ WT/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	COBRA	12.5 FL OZ/A		28DAP	
	COC	1 PT/A		28DAP	

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Pest Type	W Weed
Pest Code	IPOSS
Pest Scientific Name	Ipomoea sp.
Pest Name	Morning glory
Description	AFTER POST
Rating Date	7/24/2015
Rating Type	CONTROL
Rating Unit	PERCENT
SE Description	AT POST
Rating Timing	4 WEEK
Days After First/Last Applic.	57 28

Trt No.	Treatment Name	Rate	Unit	Growth Stage	
8	ROUNDUP POWERMAX	32 FL OZ/A		PRE	100
	V-10404	30 FL OZ/A		PRE	
	NIS	0.25 % V/V		PRE	
	ROUNDUP POWERMAX	32 FL OZ/A		28DAP	
	CLARITY	1 PT/A		28DAP	
	NIS	0.25 % V/V		28DAP	
	LSD P=.05				.
	Standard Deviation				0.0
	CV				0.0
	Replicate F				0.000
	Replicate Prob(F)				1.0000
	Treatment F				0.000
	Treatment Prob(F)				1.0000

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NON CROP

Trial ID: NON CROP I Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: VAL-NC Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: JOHN CRANMER

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
CHEAL, *Chenopodium album*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Rating Unit

PERCENT = percent

University of Kentucky

NON CROP

Trial ID: VAL-NC Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: VAL-NC Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: JOHN CRANMER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/28/2015
Completion Date: 10/27/2015

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

Other Contacts

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

Pest Description

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

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

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

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

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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: 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

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5/28/2015	6/26/2015
Appl. Start Time:	1:30 PM	11:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	28DAY
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	78 F
% Relative Humidity:	60	70
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	67 F	78 F
Soil Moisture:	EXCELL	EXCELL
% Cloud Cover:	20	20
Next Moisture Occurred On:	5/29/2015	6/27/2015

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	3LF	
Height, Unit:	4 IN	6 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	6LF	
Height, Unit:	3 IN	4 IN
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	6LF	
Height, Unit:	5 IN	7 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:	3LF	
Height, Unit:	3 IN	3 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:	TTI 02	TTI 02
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

NON CROP II

Trial ID: NON CROP II
Protocol ID: DUP-15-157
Project ID:

Location: LEXINGTON, KY Trial Year: 2015
Investigator: Charles H Slack
Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	CHEAL	AMBTR	IPOSS	SETFA		
Pest Scientific Name	Setaria faberi	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi		
Pest Name	Giant foxtail	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail		
Description							
Rating Date	6/12/2015	6/12/2015	6/12/2015	6/12/2015	6/26/2015		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK		
Days After First/Last Applic.	15 15	15 15	15 15	15 15	29 29		
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	29 DA-A		
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	1	2	3	4	5
1 TRIVENCE	8 OZ/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
2 TRIVENCE	8 OZ/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
CINCH	1 PT/A	MP					
DICAMBA	8 OZ AI/A	MP					
3 ENVIVE	3.5 OZ/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
4 ENVIVE	3.5 OZ/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
CINCH	1 PT/A	MP					
5 ENVIVE	3.5 OZ/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
PREFIX	2 PT/A	MP					
6 CANOPY	6 OZ/A	PRE	100	100	100	100	100
CINCH	1 PT/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
7 CANOPY	6 OZ/A	PRE	100	100	100	100	100
CINCH	1 PT/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
CINCH	1 PT/A	MP					
8 VALOR SX	2.5 OZ WT/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	32 FL OZ/A	MP					
DICAMBA	1 PT/A	MP					
NIS	0.25 % V/V	MP					
9 OPTILL	1.5 OZ/A	PRE	100	100	100	100	100
ZIDUA	1.5 OZ/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
10 CHECK UNTREATED			0	0	0	0	0
LSD P=.05			.	.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0	0.0
Replicate F			0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL	AMBTR	IPOSS	SETFA	CHEAL		
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Chenopodium al>		
Pest Name	Common lambsqu>	Giant ragweed	Morning glory	Giant foxtail	Common lambsqu>		
Description				BEFORE POST	BEFORE POST		
Rating Date	6/26/2015	6/26/2015	6/26/2015	7/21/2015	7/21/2015		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.	29 29	29 29	29 29	54 54	54 54		
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	54 DA-A	54 DA-A		
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	6	7	8	9	10
1 TRIVENCE	8 OZ/A	PRE	100	95	97	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
2 TRIVENCE	8 OZ/A	PRE	100	98	98	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
CINCH	1 PT/A	MP					
DICAMBA	8 OZ AI/A	MP					
3 ENVIVE	3.5 OZ/A	PRE	100	97	97	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
4 ENVIVE	3.5 OZ/A	PRE	100	100	100	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
CINCH	1 PT/A	MP					
5 ENVIVE	3.5 OZ/A	PRE	100	97	97	100	100
ROUNDUP POWERMAX	22 FL OZ/A	MP					
PREFIX	2 PT/A	MP					
6 CANOPY	6 OZ/A	PRE	100	93	97	100	100
CINCH	1 PT/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
7 CANOPY	6 OZ/A	PRE	100	98	98	100	100
CINCH	1 PT/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
CINCH	1 PT/A	MP					
8 VALOR SX	2.5 OZ WT/A	PRE	100	78	92	100	100
ROUNDUP POWERMAX	32 FL OZ/A	MP					
DICAMBA	1 PT/A	MP					
NIS	0.25 % V/V	MP					
9 OPTILL	1.5 OZ/A	PRE	100	92	90	100	100
ZIDUA	1.5 OZ/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
10 CHECK UNTREATED			0	0	0	0	0
LSD P=.05			.	6.2	4.4	.	.
Standard Deviation			0.0	3.6	2.5	0.0	0.0
CV			0.0	4.26	2.94	0.0	0.0
Replicate F			0.000	1.213	0.000	0.000	0.000
Replicate Prob(F)			1.0000	0.3205	1.0000	1.0000	1.0000
Treatment F			0.000	212.830	431.843	0.000	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	IPOSS	SETFA	CHEAL	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Ipomoea sp.	Setaria faberi	Chenopodium al>	Ambrosia trifi>		
Pest Name	Giant ragweed	Morning glory	Giant foxtail	Common lambsqu>	Giant ragweed		
Description	BEFORE POST	BEFORE POST	AFTER POST	AFTER POST	AFTER POST		
Rating Date	7/21/2015	7/21/2015	8/4/2015	8/4/2015	8/4/2015		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Timing	8 WEEK	8 WEEK	2 WEEK	2 WEEK	2 WEEK		
Days After First/Last Applic.	54 54	54 54	68 14	68 14	68 14		
Trt-Eval Interval	54 DA-A	54 DA-A	54 DA-A	54 DA-A	54 DA-A		
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	11	12	13	14	15
1 TRIVENCE	8 OZ/A	PRE	95	98	99	99	99
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
2 TRIVENCE	8 OZ/A	PRE	98	100	99	99	99
ROUNDUP POWERMAX	22 FL OZ/A	MP					
CINCH	1 PT/A	MP					
DICAMBA	8 OZ AI/A	MP					
3 ENVIVE	3.5 OZ/A	PRE	97	97	99	99	99
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
4 ENVIVE	3.5 OZ/A	PRE	100	100	99	99	99
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
CINCH	1 PT/A	MP					
5 ENVIVE	3.5 OZ/A	PRE	97	97	99	99	99
ROUNDUP POWERMAX	22 FL OZ/A	MP					
PREFIX	2 PT/A	MP					
6 CANOPY	6 OZ/A	PRE	93	97	99	99	99
CINCH	1 PT/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
7 CANOPY	6 OZ/A	PRE	98	98	99	99	99
CINCH	1 PT/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
DICAMBA	8 OZ AI/A	MP					
CINCH	1 PT/A	MP					
8 VALOR SX	2.5 OZ WT/A	PRE	78	92	99	99	99
ROUNDUP POWERMAX	32 FL OZ/A	MP					
DICAMBA	1 PT/A	MP					
NIS	0.25 % V/V	MP					
9 OPTILL	1.5 OZ/A	PRE	92	90	99	99	99
ZIDUA	1.5 OZ/A	PRE					
ROUNDUP POWERMAX	22 FL OZ/A	MP					
10 CHECK UNTREATED			0	0	0	0	0
LSD P=.05			6.2	3.9	.	.	.
Standard Deviation			3.6	2.3	0.0	0.0	0.0
CV			4.26	2.63	0.0	0.0	0.0
Replicate F			1.213	0.410	0.000	0.000	0.000
Replicate Prob(F)			0.3205	0.6699	1.0000	1.0000	1.0000
Treatment F			212.830	541.437	0.000	0.000	0.000
Treatment Prob(F)			0.0001	0.0001	1.0000	1.0000	1.0000

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Pest Type			W Weed		
Pest Code			IPOSS		
Pest Scientific Name			Ipomoea sp.		
Pest Name			Morning glory		
Description			AFTER POST		
Rating Date			8/4/2015		
Rating Type			CONTROL		
Rating Unit			PERCENT		
Rating Timing			2 WEEK		
Days After First/Last Applic.			68 14		
Trt-Eval Interval			54 DA-A		
Trt No.	Treatment Name	Rate	Growth Stage	16	17
		Rate Unit			
1	TRIVENCE	8 OZ/A	PRE		99
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	DICAMBA	8 OZ AI/A	MP		
2	TRIVENCE	8 OZ/A	PRE		99
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	CINCH	1 PT/A	MP		
	DICAMBA	8 OZ AI/A	MP		
3	ENVIVE	3.5 OZ/A	PRE		99
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	DICAMBA	8 OZ AI/A	MP		
4	ENVIVE	3.5 OZ/A	PRE		99
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	DICAMBA	8 OZ AI/A	MP		
	CINCH	1 PT/A	MP		
5	ENVIVE	3.5 OZ/A	PRE		99
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	PREFIX	2 PT/A	MP		
6	CANOPY	6 OZ/A	PRE		99
	CINCH	1 PT/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	DICAMBA	8 OZ AI/A	MP		
7	CANOPY	6 OZ/A	PRE		99
	CINCH	1 PT/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
	DICAMBA	8 OZ AI/A	MP		
	CINCH	1 PT/A	MP		
8	VALOR SX	2.5 OZ WT/A	PRE		99
	ROUNDUP POWERMAX	32 FL OZ/A	MP		
	DICAMBA	1 PT/A	MP		
	NIS	0.25 % V/V	MP		
9	OPTILL	1.5 OZ/A	PRE		99
	ZIDUA	1.5 OZ/A	PRE		
	ROUNDUP POWERMAX	22 FL OZ/A	MP		
10	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	

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NON CROP II

Trial ID: NON CROP II Location: LEXINGTON, KY Trial Year: 2015
Protocol ID: DUP-15-157 Investigator: Charles H Slack
Project ID: Study Director: CHARLES SLACK
Sponsor Contact: KELLY BACKSCHEIDER

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
CHEAL, *Chenopodium album*, = US
AMBTR, *Ambrosia trifida*, = US
IPOSS, *Ipomoea* sp., = US

Rating Unit

PERCENT = percent

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NON CROP II

Trial ID: DUPONT NO CROP Location: LEXINGTON, KY Trial Year: 2015
 Protocol ID: DUP-15-157 Investigator: Charles H Slack
 Project ID: Study Director: CHARLES SLACK
 Sponsor Contact: KELLY BACKSCHEIDER

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/28/2015
Completion Date: 10/27/2015

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

Other Contacts

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

Pest Description

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

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

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

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

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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 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

Analyzed By:

Moisture and Weather Conditions

Overall Moisture Conditions: SLIWET slightly wet
 Closest Weather Station: SPINDLETOP Distance, Unit: 2.25 MI

Application Description

	A	B
Application Date:	5/28/2015	7/21/2015
Appl. Start Time:	1:30 PM	
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	85 F
% Relative Humidity:	60	70
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	S
Soil Temperature, Unit:	70 F	79 F
Soil Moisture:	EXCELL	EXCELL
% Cloud Cover:	20	10
Next Moisture Occurred On:	5/29/2015	7/27/2015

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	3LF	
Height, Unit:	3 IN	4 IN
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	6LF	
Height, Unit:	3 IN	5 IN
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	6LF	
Height, Unit:	5 IN	8 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:	3LF	
Height, Unit:	3 IN	3 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:	TTI 02	TTI 02
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:	12 GPA	12 GPA
Propellant:	CO2	CO2